Supporting Information

for

Data-driven approach to the performance of SnSe-based thermoelectric materials

Shuwei Tang,*[a,b] Yunzhuo Zhang,[a] Peng Ai,[a] Da Wan,[a] Tuo Zheng,[a] Pengfei Zhang,[a] Zhiwei Zhang,[a] Yujie Bao,[a] and Shulin Bai*[a]

[a]College of Materials Science and Engineering, Liaoning Technical University, Fuxin, Liaoning 123000, China.
[b]Faculty of Chemistry, Northeast Normal University, Changchun, Jilin 130024, China.

Corresponding authors:
Shuwei Tang
E-mail: tangshuwei@lntu.edu.cn

Shulin Bai
E-mail: baishulin@buaa.edu.cn

College of Materials Science and Engineering
Liaoning Technical University
Zhonghua Road. #47
Fuxin, Liaoning
123000, China
Tel/Fax: +86-418-5110098

Section I. Tables

Table S1. Sources of data construction.

Number	Type	Chemical Composition	Dopant Element
01	*n*-type	$Sn_{1-x}Pb_xSe_{0.97}Br_{0.03}$	Pb、Br
02	*p*-type	$Sn_{1-x}Pb_xSeNa_{0.01}$	Pb、Na
03	*p*-type	$Sn_{0.98-x}Na_{0.02}In_xSe$	Na、In
04	*p*-type	$Sn_{1+0.25x}Na_{0.015}Se_{1+x}$	Na
05	*n*-type	$Sn_{1-x}Pb_xSe_{1-x-0.03}Te_xBr_{0.03}$	Pb、Te、Br
06	*p*-type	$Sn_{1-x}Se_{1+x}Na_xSb_x$	Na、Sb
07	*p*-type	$Sn_{0.98}Na_{0.02}Se_{1-x}S_x$	Na、S
08	*n*-type	$Sn_{1-x}Pb_xSe_{0.99}Cl_{0.01}$	Pb、Cl
09	*n*-type	$SnSe_{1-x}Cl_x$	Cl
10	*n*-type	$SnSe_{1-x}Br_x$	Br
11	*p*-type	$Sn_{1-x}Pb_xSe$	Pb
12	*p*-type	$Sn_{0.98}Na_{0.02}SeCu_x$	Na、Cu
13	*p*-type	$Sn_{1-x-0.015-0.09}Na_{0.015}Pb_{0.09}Sr_xSe$	Na、Pb、Sr

Table S2. Initialize descriptors for SnSe-based materials.

Serial Number	Feature Label	Unit	Abridge
T01	Lattice constant	Angstrom	Latpar
T02	Mendeleev's number	/	Mendl
T03	Atomic weight	g/mol	Atowei
T04	The number of valence electrons	/	Numval
T05	The number of valence electrons in P	/	NumvalP
T06	The number of unfilled valence electrons in p-orbital	/	NumunvalP
T07	Atomic volume	cm^3 /mol	Atovol
T08	Fusion heat	kJ/mol	Fuheat
T09	Boiling temperature	K	Boiltem
T10	Thermal conductivity	W/mK	Thconduct
T11	Specific heat capacity	W/mK	Speheat
T12	Density	g/ cm^3	Density
T13	Electron affinity	eV	Eleaff
T14	Dipole polarizability	C·m	Dippol
T15	Covalent radius	pm	Coradius
T16	First ionization energy	eV	Firstioniz
T17	Second ionization energy	eV	Secondioniz
T18	Third ionization energy	eV	Thirdioniz
T19	Allen's scale of electronegativity	eV	Allenele

T20	Pauling scale of electronegativity	eV	Paulingele
T21	Number of electrons	/	Numele
T22	Heat of formation	kJ/mol	Heform
T23	Van der Waals radius	pm	Vdwradius
T24	Atomic mass	Da	Atomass
T25	Melting temperature	K	Melt
T26	Hardness	/	Hard
T27	Softness	/	Soft
T28	Effective nuclear charge	/	Effnuch
T29	Atomic number	/	Atonum
T30	Electrophilicity	eV	Elephi
TC1	Crystal form	/	/
TC2	Semiconductor type	/	/
TC3	Crystal direction	/	/

Table S3. Calculation methods of element feature in SnSe-based materials. The n represents the element number of SnSe-based materials. The x_i represents the property of element. The w_i represents the weighed score.

Number	Abbreviation	Features description	Calculation formula
01	WAM	Weighted arithmetic mean	$V_{WAM} = \frac{\sum_{i=1}^{n} w_i x_i}{\sum_{i=1}^{n} w_i}$
02	WGM	Weighted geometric mean	$V_{WGM} = \exp\left(\frac{\sum_{i=1}^{n} w_i Inx_i}{\sum_{i=1}^{n} w_i}\right)$
03	WEM	Weighted entropy of mixing	$V_{WEM} = -\sum_{i=1}^{n} N_i InN_i$ $N_i = \frac{w_i S_i}{\sum_{i=1}^{n} w_i S_i}$ $S_i = \frac{x_i}{\sum_{i=1}^{n} x_i}$
04	WSD	Weighted standard deviation	$V_{WSD} = \sqrt{\frac{\sum_{i=1}^{n} w_i (x_i - \mu)^2}{\sum_{i=1}^{n} w_i}}$
05	T_WAM	Temperature times weighted	/

		arithmetic mean	
06	T_WGM	Temperature times weighted geometric mean	/
07	T_WEM	Temperature times weighted entropy of mixing	/
08	T_WSD	Temperature times weighted standard deviation	/

Table S4. Label-encoder of crystal form.

Crystal form	Label-encoder number
Polycrystalline	0
Crystalline	1

Table S5. Label-encoder of semiconductor type.

Semiconductor type	Label-encoder number
n-type	0
p-type	1

Table S6. Label-encoder of crystal direction.

Crystal direction	Label-encoder number
In-plane	0
None	1
Out-plane	2

Table. S7. RFE selected features (243).

Number	Features	Means
T0101	WAM*LParameters	Weighted arithmetic mean lattice parameters of all elements in a material
T0102	WGM*LParameters	Weighted geometric mean lattice parameters of all elements in a material
T0103	WEM*LParameters	Weighted entropy of mixing lattice parameters of all elements in a material
T0104	WSD*LParameters	Weighted standard deviation lattice parameters of all elements in a material
T0105	T*WAM*LParameters	Temperature times weighted arithmetic mean lattice parameters of all elements in a material
T0106	T*WGM*LParameters	Temperature times weighted geometric mean lattice parameters of all elements in a material
T0107	T*WEM*LParameters	Temperature times weighted entropy of mixing lattice parameters of all elements in a material
T0108	T*WSD*LParameters	Temperature times weighted standard deviation lattice parameters of all elements in a material
T0201	WAM*MNumber	Weighted arithmetic mean mendeleev number of all elements in a material
T0202	WGM*MNumber	Weighted geometric mean mendeleev number of all elements in a material

T0203	WEM*MNumber	Weighted entropy of mixing mendeleev number of all elements in a material
T0204	WSD*MNumber	Weighted standard deviation mendeleev number of all elements in a material
T0205	T*WAM*MNumber	Temperature times weighted arithmetic mean mendeleev number of all elements in a material
T0206	T*WGM*MNumber	Temperature times weighted geometric mean mendeleev number of all elements in a material
T0207	T*WEM*MNumber	Temperature times weighted entropy of mixing mendeleev number of all elements in a material
T0208	T*WSD*MNumber	Temperature times weighted standard deviation mendeleev number of all elements in a material
T0301	WAM*AWeight	Weighted arithmetic mean atomic weight of all elements in a material
T0302	WGM*AWeight	Weighted geometric mean atomic weight of all elements in a material
T0303	WEM*AWeight	Weighted entropy of mixing atomic weight of all elements in a material
T0304	WSD*AWeight	Weighted standard deviation atomic weight of all elements in a material
T0305	T*WAM*AWeight	Temperature times weighted arithmetic mean atomic weight of all elements in a material
T0306	T*WGM*AWeight	Temperature times weighted geometric mean atomic

		weight of all elements in a material
T0307	T*WEM*AWeight	Temperature times weighted entropy of mixing atomic weight of all elements in a material
T0308	T*WSD*AWeight	Temperature times weighted standard deviation atomic weight of all elements in a material
T0401	WAM*NVElectrons	Weighted arithmetic mean number of electrons in all orbitals of all elements in a material
T0402	WGM*NVElectrons	Weighted geometric mean number of electrons in all orbitals of all elements in a material
T0403	WEM*NVElectrons	Weighted entropy of mixing number of electrons in all orbitals of all elements in a material
T0404	WSD*NVElectrons	Weighted standard deviation number of electrons in all orbitals of all elements in a material
T0405	T*WAM*NVElectrons	Temperature times weighted arithmetic mean number of electrons in all orbitals of all elements in a material
T0406	T*WGM*NVElectrons	Temperature times weighted geometric mean number of electrons in all orbitals of all elements in a material
T0407	T*WEM*NVElectrons	Temperature times weighted entropy of mixing number of electrons in all orbitals of all elements in a material
T0408	T*WSD*NVElectrons	Temperature times weighted standard deviation number of electrons in all orbitals of all elements in a material
T0501	WAM*NpVElectrons	Weighted arithmetic mean number of electrons in p-orbital of all elements in a material

T0502	WGM*NpVElectrons	Weighted geometric mean number of electrons in p-orbital of all elements in a material
T0503	WEM*NpVElectrons	Weighted entropy of mixing number of electrons in p-orbital of all elements in a material
T0504	WSD*NpVElectrons	Weighted standard deviation number of electrons in p-orbital of all elements in a material
T0505	T*WAM*NpVElectrons	Temperature times weighted arithmetic mean number of electrons in p-orbital of all elements in a material
T0506	T*WGM*NpVElectrons	Temperature times weighted geometric mean number of electrons in p-orbital of all elements in a material
T0507	T*WEM*NpVElectrons	Temperature times weighted entropy of mixing number of electrons in p-orbital of all elements in a material
T0508	T*WSD*NpVElectrons	Temperature times weighted standard deviation number of electrons in p-orbital of all elements in a material
T0601	WAM*NpUnfilled	Weighted arithmetic mean number of unfilled p-orbital of all elements in a material
T0602	WGM*NpUnfilled	Weighted geometric mean number of unfilled p-orbital of all elements in a material
T0603	WEM*NpUnfilled	Weighted entropy of mixing number of unfilled p-orbital of all elements in a material
T0604	WSD*NpUnfilled	Weighted standard deviation number of unfilled p-orbital of all elements in a material
T0605	T*WAM*NpUnfilled	Temperature times weighted arithmetic mean number

		of unfilled p-orbital of all elements in a material
T0606	T*WGM*NpUnfilled	Temperature times weighted geometric mean number of unfilled p-orbital of all elements in a material
T0607	T*WEM*NpUnfilled	Temperature times weighted entropy of mixing number of unfilled p-orbital of all elements in a material
T0608	T*WSD*NpUnfilled	Temperature times weighted standard deviation number of unfilled p-orbital of all elements in a material
T0701	WAM*AVolume	Weighted arithmetic mean atomic volume of all elements in a material
T0702	WGM*AVolume	Weighted geometric mean atomic volume of all elements in a material
T0703	WEM*AVolume	Weighted entropy of mixing atomic volume of all elements in a material
T0704	WSD*AVolume	Weighted standard deviation atomic volume of all elements in a material
T0705	T*WAM*AVolume	Temperature times weighted arithmetic mean atomic volume of all elements in a material
T0706	T*WGM*AVolume	Temperature times weighted geometric mean atomic volume of all elements in a material
T0707	T*WEM*AVolume	Temperature times weighted entropy of mixing atomic volume of all elements in a material
T0708	T*WSD*AVolume	Temperature times weighted standard deviation atomic volume of all elements in a material

T0801	WAM*FHeat	Weighted arithmetic mean fusion heat of all elements in a material
T0802	WGM*FHeat	Weighted geometric mean fusion heat of all elements in a material
T0803	WEM*FHeat	Weighted entropy of mixing fusion heat of all elements in a material
T0804	WSD*FHeat	Weighted standard deviation fusion heat of all elements in a material
T0805	T*WAM*FHeat	Temperature times weighted arithmetic mean fusion heat of all elements in a material
T0806	T*WGM*FHeat	Temperature times weighted geometric mean fusion heat of all elements in a material
T0807	T*WEM*FHeat	Temperature times weighted entropy of mixing fusion heat of all elements in a material
T0808	T*WSD*FHeat	Temperature times weighted standard deviation fusion heat of all elements in a material
T0901	WAM*BTemperature	Weighted arithmetic mean boiling temperature of all elements in a material
T0902	WGM*BTemperature	Weighted geometric mean boiling temperature of all elements in a material
T0903	WEM*BTemperature	Weighted entropy of mixing boiling temperature of all elements in a material
T0904	WSD*BTemperature	Weighted standard deviation boiling temperature of all

		elements in a material
T0905	T*WAM*BTemperature	Temperature times weighted arithmetic mean boiling temperature of all elements in a material
T0906	T*WGM*BTemperature	Temperature times weighted geometric mean boiling temperature of all elements in a material
T0907	T*WEM*BTemperature	Temperature times weighted entropy of mixing boiling temperature of all elements in a material
T0908	T*WSD*BTemperature	Temperature times weighted standard deviation boiling temperature of all elements in a material
T1001	WAM*TConductivity	Weighted arithmetic mean thermal conductivity of all elements in a material
T1002	WGM*TConductivity	Weighted geometric mean thermal conductivity of all elements in a material
T1003	WEM*TConductivity	Weighted entropy of mixing thermal conductivity of all elements in a material
T1004	WSD*TConductivity	Weighted standard deviation thermal conductivity of all elements in a material
T1005	T*WAM*TConductivity	Temperature times weighted arithmetic mean thermal conductivity of all elements in a material
T1006	T*WGM*TConductivity	Temperature times weighted geometric mean thermal conductivity of all elements in a material
T1007	T*WEM*TConductivity	Temperature times weighted entropy of mixing thermal conductivity of all elements in a material

T1008	T*WSD*TConductivity	Temperature times weighted standard deviation thermal conductivity of all elements in a material
T1101	WAM*SHCapacity	Weighted arithmetic mean specific heat capacity of all elements in a material
T1102	WGM*SHCapacity	Weighted geometric mean specific heat capacity of all elements in a material
T1103	WEM*SHCapacity	Weighted entropy of mixing specific heat capacity of all elements in a material
T1104	WSD*SHCapacity	Weighted standard deviation specific heat capacity of all elements in a material
T1105	T*WAM*SHCapacity	Temperature times weighted arithmetic mean specific heat capacity of all elements in a material
T1106	T*WGM*SHCapacity	Temperature times weighted geometric mean specific heat capacity of all elements in a material
T1107	T*WEM*SHCapacity	Temperature times weighted entropy of mixing specific heat capacity of all elements in a material
T1108	T*WSD*SHCapacity	Temperature times weighted standard deviation specific heat capacity of all elements in a material
T1201	WAM*Density	Weighted arithmetic mean density of all elements in a material
T1202	WGM*Density	Weighted geometric mean density of all elements in a material
T1203	WEM*Density	Weighted entropy of mixing density of all elements in

		a material
T1204	WSD*Density	Weighted standard deviation density of all elements in a material
T1205	T*WAM*Density	Temperature times weighted arithmetic mean density of all elements in a material
T1206	T*WGM*Density	Temperature times weighted geometric mean density of all elements in a material
T1207	T*WEM*Density	Temperature times weighted entropy of mixing density of all elements in a material
T1208	T*WSD*Density	Temperature times weighted standard deviation density of all elements in a material
T1301	WAM*EAffinity	Weighted arithmetic mean electron affinity of all elements in a material
T1302	WGM*EAffinity	Weighted geometric mean electron affinity of all elements in a material
T1303	WEM*EAffinity	Weighted entropy of mixing electron affinity of all elements in a material
T1304	WSD*EAffinity	Weighted standard deviation electron affinity of all elements in a material
T1305	T*WAM*EAffinity	Temperature times weighted arithmetic mean electron affinity of all elements in a material
T1306	T*WGM*EAffinity	Temperature times weighted geometric mean electron affinity of all elements in a material

T1307	T*WEM*EAffinity	Temperature times weighted entropy of mixing electron affinity of all elements in a material
T1308	T*WSD*EAffinity	Temperature times weighted standard deviation electron affinity of all elements in a material
T1401	WAM*DPolarizability	Weighted arithmetic mean dipole polarizability of all elements in a material
T1402	WGM*DPolarizability	Weighted geometric mean dipole polarizability of all elements in a material
T1403	WEM*DPolarizability	Weighted entropy of mixing dipole polarizability of all elements in a material
T1404	WSD*DPolarizability	Weighted standard deviation dipole polarizability of all elements in a material
T1405	T*WAM*DPolarizability	Temperature times weighted arithmetic mean dipole polarizability of all elements in a material
T1406	T*WGM*DPolarizability	Temperature times weighted geometric mean dipole polarizability of all elements in a material
T1407	T*WEM*DPolarizability	Temperature times weighted entropy of mixing dipole polarizability of all elements in a material
T1408	T*WSD*DPolarizability	Temperature times weighted standard deviation dipole polarizability of all elements in a material
T1501	WAM*CRadius	Weighted arithmetic mean covalent radius of all elements in a material
T1502	WGM*CRadius	Weighted geometric mean covalent radius of all

		elements in a material
T1503	WEM*CRadius	Weighted entropy of mixing covalent radius of all elements in a material
T1504	WSD*CRadius	Weighted standard deviation covalent radius of all elements in a material
T1505	T*WAM*CRadius	Temperature times weighted arithmetic mean covalent radius of all elements in a material
T1506	T*WGM*CRadius	Temperature times weighted geometric mean covalent radius of all elements in a material
T1507	T*WEM*CRadius	Temperature times weighted entropy of mixing covalent radius of all elements in a material
T1508	T*WSD*CRadius	Temperature times weighted standard deviation covalent radius of all elements in a material
T1601	WAM*FIEnergy	Weighted arithmetic mean first ionization energy of all elements in a material
T1602	WGM*FIEnergy	Weighted geometric mean first ionization energy of all elements in a material
T1603	WEM*FIEnergy	Weighted entropy of mixing first ionization energy of all elements in a material
T1604	WSD*FIEnergy	Weighted standard deviation first ionization energy of all elements in a material
T1605	T*WAM*FIEnergy	Temperature times weighted arithmetic mean first ionization energy of all elements in a material

T1606	T*WGM*FIEnergy	Temperature times weighted geometric mean first ionization energy of all elements in a material
T1607	T*WEM*FIEnergy	Temperature times weighted entropy of mixing first ionization energy of all elements in a material
T1608	T*WSD*FIEnergy	Temperature times weighted standard deviation first ionization energy of all elements in a material
T1701	WAM*SIEnergy	Weighted arithmetic mean second ionization energy of all elements in a material
T1702	WGM*SIEnergy	Weighted geometric mean second ionization energy of all elements in a material
T1703	WEM*SIEnergy	Weighted entropy of mixing second ionization energy of all elements in a material
T1704	WSD*SIEnergy	Weighted standard deviation second ionization energy of all elements in a material
T1705	T*WAM*SIEnergy	Temperature times weighted arithmetic mean second ionization energy of all elements in a material
T1706	T*WGM*SIEnergy	Temperature times weighted geometric mean second ionization energy of all elements in a material
T1707	T*WEM*SIEnergy	Temperature times weighted entropy of mixing second ionization energy of all elements in a material
T1708	T*WSD*SIEnergy	Temperature times weighted standard deviation second ionization energy of all elements in a material
T1801	WAM*TIEnergy	Weighted arithmetic mean third ionization energy of all

		elements in a material
T1802	WGM*TIEnergy	Weighted geometric mean third ionization energy of all elements in a material
T1803	WEM*TIEnergy	Weighted entropy of mixing third ionization energy of all elements in a material
T1804	WSD* TIEnergy	Weighted standard deviation third ionization energy of all elements in a material
T1805	T*WAM*TIEnergy	Temperature times weighted arithmetic mean third ionization energy of all elements in a material
T1806	T*WGM*TIEnergy	Temperature times weighted geometric mean third ionization energy of all elements in a material
T1807	T*WEM*TIEnergy	Temperature times weighted entropy of mixing third ionization energy of all elements in a material
T1808	T*WSD*TIEnergy	Temperature times weighted standard deviation third ionization energy of all elements in a material
T1901	WAM*ASElectronegativity	Weighted arithmetic mean allen's scale of electronegativity of all elements in a material
T1902	WGM*ASElectronegativity	Weighted geometric mean allen's scale of electronegativity of all elements in a material
T1903	WEM*ASElectronegativity	Weighted entropy of mixing allen's scale of electronegativity of all elements in a material
T1904	WSD*ASElectronegativity	Weighted standard deviation allen's scale of electronegativity of all elements in a material

T1905	T*WAM*ASElectronegativity	Temperature times weighted arithmetic mean allen's scale of electronegativity of all elements in a material
T1906	T*WGM*ASElectronegativity	Temperature times weighted geometric mean allen's scale of electronegativity of all elements in a material
T1907	T*WEM*ASElectronegativity	Temperature times weighted entropy of mixing allen's scale of electronegativity of all elements in a material
T1908	T*WSD*ASElectronegativity	Temperature times weighted standard deviation allen's scale of electronegativity of all elements in a material
T2001	WAM*PSElectronegativity	Weighted arithmetic mean pauling scale of electronegativity of all elements in a material
T2002	WGM*PSElectronegativity	Weighted geometric mean pauling scale of electronegativity of all elements in a material
T2003	WEM*PSElectronegativity	Weighted entropy of mixing pauling scale of electronegativity of all elements in a material
T2004	WSD*PSElectronegativity	Weighted standard deviation pauling scale of electronegativity of all elements in a material
T2005	T*WAM*PSElectronegativity	Temperature times weighted arithmetic mean pauling scale of electronegativity of all elements in a material
T2006	T*WGM*PSElectronegativity	Temperature times weighted geometric mean pauling scale of electronegativity of all elements in a material
T2007	T*WEM*PSElectronegativity	Temperature times weighted entropy of mixing pauling scale of electronegativity of all elements in a material
T2008	T*WSD*PSElectronegativity	Temperature times weighted standard deviation pauling

		scale of electronegativity of all elements in a material
T2101	WAM*NElectrons	Weighted arithmetic mean number of electrons of all elements in a material
T2102	WGM*NElectrons	Weighted geometric mean number of electrons of all elements in a material
T2103	WEM*NElectrons	Weighted entropy of mixing number of electrons of all elements in a material
T2104	WSD*NElectrons	Weighted standard deviation number of electrons of all elements in a material
T2105	T*WAM*NElectrons	Temperature times weighted arithmetic mean number of electrons of all elements in a material
T2106	T*WGM*NElectrons	Temperature times weighted geometric mean number of electrons of all elements in a material
T2107	T*WEM*NElectrons	Temperature times weighted entropy of mixing number of electrons of all elements in a material
T2108	T*WSD*NElectrons	Temperature times weighted standard deviation number of electrons of all elements in a material
T2201	WAM*HFormation	Weighted arithmetic mean heat of formation of all elements in a material
T2202	WGM*HFormation	Weighted geometric mean heat of formation of all elements in a material
T2203	WEM*HFormation	Weighted entropy of mixing heat of formation of all elements in a material

T2204	WSD*HFormation	Weighted standard deviation heat of formation of all elements in a material
T2205	T*WAM*HFormation	Temperature times weighted arithmetic mean heat of formation of all elements in a material
T2206	T*WGM*HFormation	Temperature times weighted geometric mean heat of formation of all elements in a material
T2207	T*WEM*HFormation	Temperature times weighted entropy of mixing heat of formation of all elements in a material
T2208	T*WSD*HFormation	Temperature times weighted standard deviation heat of formation of all elements in a material
T2301	WAM*VdWRadius	Weighted arithmetic mean Van der Waals radius of all elements in a material
T2302	WGM*VdWRadius	Weighted geometric mean Van der Waals radius of all elements in a material
T2303	WEM*VdWRadius	Weighted entropy of mixing Van der Waals radius of all elements in a material
T2304	WSD*VdWRadius	Weighted standard deviation Van der Waals radius of all elements in a material
T2305	T*WAM*VdWRadius	Temperature times weighted arithmetic mean Van der Waals radius of all elements in a material
T2306	T*WGM*VdWRadius	Temperature times weighted geometric mean Van der Waals radius of all elements in a material
T2307	T*WEM*VdWRadius	Temperature times weighted entropy of mixing Van der

		Waals radius of all elements in a material
T2308	T*WSD*VdWRadius	Temperature times weighted standard deviation Van der Waals radius of all elements in a material
T2401	WAM*AMass	Weighted arithmetic mean atomic mass of all elements in a material
T2402	WGM*AMass	Weighted geometric mean atomic mass of all elements in a material
T2403	WEM*AMass	Weighted entropy of mixing atomic mass of all elements in a material
T2404	WSD*AMass	Weighted standard deviation atomic mass of all elements in a material
T2405	T*WAM*AMass	Temperature times weighted arithmetic mean atomic mass of all elements in a material
T2406	T*WGM*AMass	Temperature times weighted geometric mean atomic mass of all elements in a material
T2407	T*WEM*AMass	Temperature times weighted entropy of mixing atomic mass of all elements in a material
T2408	T*WSD*AMass	Temperature times weighted standard deviation atomic mass of all elements in a material
T2501	WAM*MTemperature	Weighted arithmetic mean melting temperature of all elements in a material
T2502	WGM*MTemperature	Weighted geometric mean melting temperature of all elements in a material

T2503	WEM*MTemperature	Weighted entropy of mixing melting temperature of all elements in a material
T2504	WSD*MTemperature	Weighted standard deviation melting temperature of all elements in a material
T2505	T*WAM*MTemperature	Temperature times weighted arithmetic mean melting temperature of all elements in a material
T2506	T*WGM*MTemperature	Temperature times weighted geometric mean melting temperature of all elements in a material
T2507	T*WEM*MTemperature	Temperature times weighted entropy of mixing melting temperature of all elements in a material
T2508	T*WSD*MTemperature	Temperature times weighted standard deviation melting temperature of all elements in a material
T2601	WAM*Hardness	Weighted arithmetic mean hardness of all elements in a material
T2602	WGM*Hardness	Weighted geometric mean hardness of all elements in a material
T2603	WEM*Hardness	Weighted entropy of mixing hardness of all elements in a material
T2604	WSD*Hardness	Weighted standard deviation hardness of all elements in a material
T2605	T*WAM*Hardness	Temperature times weighted arithmetic mean hardness of all elements in a material
T2606	T*WGM*Hardness	Temperature times weighted geometric mean hardness

		of all elements in a material
T2607	T*WEM*Hardness	Temperature times weighted entropy of mixing hardness of all elements in a material
T2608	T*WSD*Hardness	Temperature times weighted standard deviation hardness of all elements in a material
T2701	WAM*Softness	Weighted arithmetic mean softness of all elements in a material
T2702	WGM*Softness	Weighted geometric mean softness of all elements in a material
T2703	WEM*Softness	Weighted entropy of mixing softness of all elements in a material
T2704	WSD*Softness	Weighted standard deviation softness of all elements in a material
T2705	T*WAM*Softness	Temperature times weighted arithmetic mean softness of all elements in a material
T2706	T*WGM*Softness	Temperature times weighted geometric mean softness of all elements in a material
T2707	T*WEM*Softness	Temperature times weighted entropy of mixing softness of all elements in a material
T2708	T*WSD*Softness	Temperature times weighted standard deviation softness of all elements in a material
T2801	WAM*ENCharge	Weighted arithmetic mean effective nuclear charge of all elements in a material

T2802	WGM*ENCharge	Weighted geometric mean effective nuclear charge of all elements in a material
T2803	WEM*ENCharge	Weighted entropy of mixing effective nuclear charge of all elements in a material
T2804	WSD*ENCharge	Weighted standard deviation effective nuclear charge of all elements in a material
T2805	T*WAM*ENCharge	Temperature times weighted arithmetic mean effective nuclear charge of all elements in a material
T2806	T*WGM*ENCharge	Temperature times weighted geometric mean effective nuclear charge of all elements in a material
T2807	T*WEM*ENCharge	Temperature times weighted entropy of mixing effective nuclear charge of all elements in a material
T2808	T*WSD*ENCharge	Temperature times weighted standard deviation effective nuclear charge of all elements in a material
T2901	WAM*ANumber	Weighted arithmetic mean atomic number of all elements in a material
T2902	WGM*ANumber	Weighted geometric mean atomic number of all elements in a material
T2903	WEM*ANumber	Weighted entropy of mixing atomic number of all elements in a material
T2904	WSD*ANumber	Weighted standard deviation atomic number of all elements in a material
T2905	T*WAM*ANumber	Temperature times weighted arithmetic mean atomic

		number of all elements in a material
T2906	T*WGM*ANumber	Temperature times weighted geometric mean atomic number of all elements in a material
T2907	T*WEM*ANumber	Temperature times weighted entropy of mixing atomic number of all elements in a material
T2908	T*WSD*ANumber	Temperature times weighted standard deviation atomic number of all elements in a material
T3001	WAM*Electrophilicity	Weighted arithmetic mean electrophilicity of all elements in a material
T3002	WGM*Electrophilicity	Weighted geometric mean electrophilicity of all elements in a material
T3003	WEM*Electrophilicity	Weighted entropy of mixing electrophilicity of all elements in a material
T3004	WSD*Electrophilicity	Weighted standard deviation electrophilicity of all elements in a material
T3005	T*WAM*Electrophilicity	Temperature times weighted arithmetic mean electrophilicity of all elements in a material
T3006	T*WGM*Electrophilicity	Temperature times weighted geometric mean electrophilicity of all elements in a material
T3007	T*WEM*Electrophilicity	Temperature times weighted entropy of mixing electrophilicity of all elements in a material
T3008	T*WSD*Electrophilicity	Temperature times weighted standard deviation electrophilicity of all elements in a material

TC1	Crystal form	Geometric structure and appearance characteristics of crystals in thermoelectric materials
TC2	Semiconductor type	Main types of charge carriers in thermoelectric materials
TC3	Crystal direction	The arrangement and orientation of atoms or molecules in a crystal in a particular direction

Table S8. Hyperparameters of KNN, DT, LR, RF, SVR, LGB, CatB, GPR, MLP and XGB.

Model	**Hyperparameters**
KNN	weights: distance, n_neighbors: 4, algorithm: brute, p: 1
DT	max_depth: 20, min_samples_split: 4, random_state: 480
LR	Default
RF	max_depth: 13, n_estimators: 34, max_leaf_nodes: 100, random_state: 480
SVR	kernel: rbf, C: 1e5, gamma: 0.01
LGB	learning_rate: 0.15, max_depth: 5, min_samples_split: 1, n_estimators: 600, boosting_type: gbdt, random_state: 480, objective: regression, lambda_l1: 0, lambda_l2: 0, verbose: -1
CatB	iterations: 1000, depth: 6, learning_rate: 0.05, verbose: 0, random_state: 480
GPR	kernel: kernel, n_restarts_optimizer: 10, alpha: 1e-3, optimizer: fmin_l_bfgs_b
MLP	Dense (64, activation = relu, input_shape = (Xtrain.shape[1])), Dense (32, activation = relu), Dense (1)
XGB	eta: 0.22, n_estimators: 600, max_depth: 5, min_child_weight: 4, colsample_bytree: 0.64, subsample: 0.88, reg_lambda: 0.1, reg_alpha: 0.4, seed: 33

Table S9. Material candidates with high *ZT* values obtained from model predictions.

Number	Material candidate
01	$Sn_{0.12}Se_{0.12}Na_{0.43}In_{0.13}S_{0.18}Cl_{0.49}Cu_{0.97}$
02	$Sn_{0.34}Se_{0.32}Na_{0.11}Cl_{0.21}Cu_{1.00}$
03	$Sn_{0.26}Se_{0.26}Na_{0.09}In_{0.52}S_{0.03}Cl_{0.06}Cu_{0.95}$
04	$Sn_{0.49}Se_{0.49}Na_{0.13}In_{0.12}Te_{0.1}Cl_{0.38}Cu_{1.00}$

Table S10. Initial data for the SnSe-based dataset. The data include crystal form, doping Type, direction, temperature (T, K), Seeback coefficient (S, μVK^{-1}), electrical conductivity (σ, Scm^{-1}), power factor (PF, μWcm^{-1}K^{-2}), total thermal conductivity (κ_T, Wm^{-1}K^{-1}), Lorenz number (L, ×10^{-8} WΩK^{-2}), lattice thermal conductivity (κ_L, Wm^{-1}K^{-1}), Figure of merit (ZT), and the reference.

Composition	Crystal_form	Type	Direction	T	*S*	*σ*	PF	κ_T	*L*	κ_L	*ZT*	Source
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	300	-197.362	373.893	14.564	1.804	1.682	1.802	0.242	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	323	-199.314	360.124	14.306	1.673	1.679	1.671	0.276	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	373	-207.262	314.552	13.512	1.434	1.668	1.432	0.351	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	423	-218.733	257.674	12.328	1.253	1.652	1.251	0.416	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	473	-231.837	201.831	10.848	1.117	1.636	1.116	0.459	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	523	-245.352	156.915	9.446	1.018	1.621	1.016	0.485	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	573	-260.993	122.084	8.316	0.943	1.605	0.942	0.505	1

$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	623	-281.355	93.929	7.435	0.884	1.588	0.883	0.524	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	673	-309.325	70.622	6.757	0.829	1.569	0.828	0.548	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	723	-343.750	51.669	6.105	0.768	1.552	0.768	0.575	1
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	773	-368.128	40.004	5.421	0.691	1.542	0.690	0.607	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	300	-196.293	393.399	15.158	1.763	1.684	1.761	0.258	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	323	-201.851	358.356	14.601	1.627	1.676	1.625	0.290	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	373	-212.684	288.340	13.043	1.392	1.660	1.391	0.349	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	423	-223.351	227.052	11.327	1.221	1.646	1.220	0.392	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	473	-235.742	174.839	9.717	1.092	1.631	1.090	0.421	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	523	-251.423	131.966	8.342	0.985	1.614	0.984	0.443	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	573	-270.273	98.241	7.176	0.895	1.597	0.894	0.460	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	623	-291.546	73.125	6.216	0.816	1.581	0.815	0.475	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	673	-314.151	54.938	5.422	0.742	1.567	0.742	0.492	1

$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	723	-336.875	41.605	4.722	0.669	1.555	0.668	0.511	1
$Sn_{0.98}Pb_{0.02}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	773	-358.507	31.052	3.991	0.588	1.545	0.588	0.524	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	300	-136.239	510.962	9.484	1.480	1.809	1.477	0.192	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	323	-145.445	488.495	10.334	1.380	1.785	1.378	0.242	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	373	-160.138	408.719	10.481	1.199	1.751	1.196	0.326	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	423	-171.236	333.874	9.790	1.057	1.729	1.055	0.392	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	473	-183.242	265.180	8.904	0.948	1.706	0.946	0.444	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	523	-199.471	203.856	8.111	0.863	1.679	0.861	0.492	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	573	-219.374	151.122	7.273	0.794	1.651	0.792	0.525	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	623	-242.514	108.199	6.364	0.733	1.624	0.732	0.541	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	673	-270.927	76.306	5.601	0.672	1.597	0.672	0.561	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	723	-307.074	56.662	5.343	0.604	1.571	0.603	0.640	1
$Sn_{0.96}Pb_{0.04}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	773	-353.416	40.688	5.082	0.714	1.548	0.714	0.550	1

$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	300	-166.125	477.970	13.191	1.332	1.739	1.330	0.297	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	323	-172.725	451.083	13.458	1.251	1.726	1.249	0.347	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	373	-185.418	375.073	12.895	1.100	1.702	1.097	0.437	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	423	-200.463	295.729	11.884	0.978	1.678	0.976	0.514	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	473	-217.727	231.758	10.986	0.880	1.653	0.878	0.590	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	523	-237.077	177.022	9.950	0.801	1.630	0.800	0.650	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	573	-258.382	132.584	8.852	0.735	1.608	0.734	0.690	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	623	-281.509	101.045	8.008	0.677	1.588	0.676	0.737	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	673	-306.324	76.591	7.187	0.620	1.571	0.619	0.780	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	723	-332.695	54.543	6.037	0.557	1.557	0.557	0.783	1
$Sn_{0.94}Pb_{0.06}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	773	-359.920	40.263	5.216	0.711	1.545	0.711	0.567	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	300	-121.113	1040.049	15.256	1.461	1.852	1.455	0.313	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	323	-126.212	974.391	15.521	1.414	1.837	1.409	0.354	1

$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	373	-138.049	811.511	15.465	1.290	1.804	1.284	0.447	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	423	-151.775	640.909	14.764	1.152	1.770	1.147	0.542	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	473	-168.429	486.821	13.810	1.023	1.734	1.019	0.639	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	523	-188.599	367.834	13.084	0.920	1.697	0.917	0.744	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	573	-211.058	280.086	12.477	0.838	1.662	0.835	0.853	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	623	-234.129	214.136	11.738	0.767	1.633	0.765	0.954	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	673	-256.140	160.543	10.533	0.696	1.610	0.694	1.019	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	723	-285.025	110.999	9.017	0.614	1.586	0.613	1.062	1
$Sn_{0.92}Pb_{0.08}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	773	-360.897	60.991	7.944	0.735	1.545	0.735	0.835	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	300	-148.536	693.600	15.303	1.227	1.778	1.224	0.374	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	323	-151.399	645.316	14.792	1.207	1.771	1.204	0.396	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	373	-158.093	540.351	13.505	1.126	1.756	1.122	0.447	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	423	-169.958	435.386	12.576	1.020	1.731	1.017	0.522	1

$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	473	-186.521	331.435	11.531	0.924	1.700	0.921	0.590	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	523	-207.312	260.359	11.190	0.862	1.667	0.860	0.679	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	573	-231.858	191.308	10.284	0.823	1.636	0.821	0.716	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	623	-259.687	146.463	9.877	0.787	1.607	0.786	0.782	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	673	-290.327	102.905	8.674	0.734	1.582	0.733	0.795	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	723	-323.308	70.236	7.342	0.644	1.562	0.643	0.824	1
$Sn_{0.90}Pb_{0.10}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	773	-350.676	51.723	6.361	0.853	1.549	0.853	0.576	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	300	-131.523	676.440	11.701	1.327	1.822	1.323	0.265	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	323	-143.348	604.808	12.428	1.274	1.791	1.270	0.315	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	373	-161.932	471.648	12.367	1.157	1.748	1.154	0.399	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	423	-175.307	365.765	11.241	1.047	1.721	1.044	0.454	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	473	-189.026	282.736	10.102	0.945	1.696	0.943	0.506	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	523	-206.862	218.252	9.339	0.852	1.668	0.850	0.573	1

$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	573	-226.087	168.440	8.610	0.768	1.642	0.767	0.642	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	623	-244.570	129.780	7.763	0.694	1.621	0.693	0.697	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	673	-266.882	99.573	7.092	0.630	1.600	0.629	0.757	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	723	-298.940	75.280	6.727	0.578	1.576	0.577	0.842	1
$Sn_{0.88}Pb_{0.12}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	in-plane	773	-346.658	54.365	6.533	0.725	1.550	0.724	0.697	1
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	300	142.456	92.275	1.873	1.435	1.793	1.434	0.039	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	323	151.949	99.022	2.286	1.349	1.770	1.349	0.055	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	373	167.895	103.446	2.916	1.179	1.735	1.178	0.092	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	423	185.646	95.503	3.291	1.040	1.702	1.039	0.134	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	473	202.352	84.290	3.451	0.922	1.675	0.922	0.177	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	522	218.773	74.135	3.548	0.831	1.652	0.831	0.223	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	573	253.799	66.602	4.290	0.739	1.612	0.738	0.333	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	623	299.077	44.816	4.009	0.650	1.576	0.650	0.384	2

$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	670	326.224	35.393	3.767	0.587	1.560	0.586	0.430	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	723	323.946	36.129	3.791	0.549	1.561	0.549	0.499	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	770	310.562	46.993	4.532	0.521	1.569	0.521	0.669	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	794	272.404	68.495	5.083	0.505	1.596	0.504	0.799	2
$Sn_{0.99}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	817	270.126	80.000	5.837	0.696	1.597	0.695	0.685	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	300	132.015	50.257	0.876	1.069	1.820	1.069	0.025	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	323	138.660	59.566	1.145	1.010	1.803	1.009	0.037	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	373	160.112	71.114	1.823	0.871	1.752	0.871	0.078	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	423	177.957	68.113	2.157	0.758	1.716	0.757	0.120	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	473	194.283	59.129	2.232	0.666	1.687	0.666	0.158	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	522	219.533	49.975	2.409	0.599	1.651	0.599	0.210	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	573	267.942	34.077	2.446	0.521	1.599	0.521	0.269	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	623	313.694	20.109	1.979	0.459	1.567	0.459	0.268	2

$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	670	324.705	17.711	1.867	0.426	1.561	0.425	0.294	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	723	313.694	22.386	2.203	0.407	1.567	0.407	0.391	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	770	296.039	41.353	3.624	0.410	1.578	0.410	0.681	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	794	271.929	61.146	4.521	0.436	1.596	0.436	0.823	2
$Sn_{0.95}Pb_{0.04}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	817	267.942	66.068	4.743	0.476	1.599	0.475	0.814	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	300	142.361	38.957	0.790	0.966	1.793	0.966	0.025	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	323	148.342	44.714	0.984	0.924	1.778	0.924	0.034	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	373	167.041	54.596	1.523	0.837	1.737	0.837	0.068	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	423	185.551	54.719	1.884	0.757	1.702	0.757	0.105	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	473	203.301	52.523	2.171	0.672	1.673	0.672	0.153	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	522	229.025	46.031	2.414	0.602	1.639	0.602	0.209	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	573	279.808	29.401	2.302	0.528	1.590	0.528	0.250	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	623	312.555	20.702	2.022	0.476	1.568	0.475	0.265	2

$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	670	326.794	20.782	2.219	0.446	1.560	0.446	0.333	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	723	309.803	27.497	2.639	0.421	1.569	0.421	0.453	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	770	284.079	38.280	3.089	0.374	1.586	0.374	0.636	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	794	285.123	41.003	3.333	0.513	1.586	0.512	0.516	2
$Sn_{0.91}Pb_{0.08}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	817	292.717	41.283	3.537	0.525	1.580	0.525	0.550	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	300	139.799	30.245	0.591	0.864	1.800	0.864	0.021	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	323	150.050	38.647	0.870	0.826	1.774	0.825	0.034	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	373	170.553	51.682	1.503	0.747	1.730	0.747	0.075	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	423	188.968	53.041	1.894	0.679	1.696	0.679	0.118	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	473	205.104	50.286	2.115	0.619	1.671	0.619	0.162	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	522	238.707	41.781	2.381	0.551	1.628	0.551	0.225	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	573	292.812	24.199	2.075	0.483	1.580	0.483	0.246	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	623	328.882	17.601	1.904	0.437	1.559	0.437	0.271	2

$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	670	331.160	21.890	2.401	0.418	1.558	0.418	0.385	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	723	321.098	35.217	3.631	0.413	1.563	0.413	0.636	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	770	286.167	55.984	4.585	0.482	1.585	0.481	0.733	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	794	282.370	60.308	4.809	0.503	1.588	0.503	0.759	2
$Sn_{0.87}Pb_{0.12}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	817	283.889	60.233	4.854	0.516	1.587	0.515	0.768	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	300	145.874	34.465	0.733	0.924	1.784	0.923	0.024	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	323	151.569	39.595	0.910	0.892	1.771	0.892	0.033	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	373	173.021	49.566	1.484	0.819	1.725	0.818	0.068	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	423	187.069	52.127	1.824	0.751	1.699	0.751	0.103	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	473	205.579	52.409	2.215	0.687	1.670	0.687	0.153	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	522	223.709	51.572	2.581	0.638	1.645	0.638	0.211	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	573	271.929	28.840	2.133	0.585	1.596	0.585	0.209	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	623	302.873	21.154	1.941	0.539	1.573	0.539	0.224	2

$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	670	304.772	22.616	2.101	0.519	1.572	0.519	0.271	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	723	287.876	30.245	2.507	0.508	1.584	0.508	0.356	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	770	279.143	39.530	3.080	0.598	1.590	0.597	0.397	2
$Sn_{0.83}Pb_{0.16}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	794	275.000	40.000	3.025	0.599	1.593	0.598	0.401	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	300	144.924	66.068	1.388	0.914	1.787	0.913	0.046	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	323	154.417	70.699	1.686	0.886	1.764	0.886	0.061	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	373	173.021	80.050	2.396	0.817	1.725	0.816	0.109	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	423	192.765	81.395	3.025	0.754	1.690	0.754	0.170	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	473	207.572	78.748	3.393	0.703	1.667	0.703	0.228	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	522	225.418	68.693	3.490	0.668	1.643	0.668	0.273	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	573	251.236	50.078	3.161	0.630	1.615	0.630	0.287	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	623	281.042	35.064	2.770	0.602	1.589	0.602	0.286	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	670	273.068	41.212	3.073	0.596	1.595	0.595	0.346	2

$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	723	259.779	53.157	3.587	0.587	1.607	0.586	0.442	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	770	259.874	56.706	3.830	0.653	1.606	0.652	0.452	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	794	261.867	56.441	3.870	0.654	1.605	0.654	0.470	2
$Sn_{0.79}Pb_{0.20}Se_{1.00}Na_{0.01}$	PolyCrystal	*p-type*	none	817	269.461	56.441	4.098	0.658	1.598	0.657	0.509	2
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	300	137.446	25.611	0.484	1.123	1.806	1.123	0.013	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	323	146.333	29.097	0.623	1.068	1.783	1.068	0.019	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	373	151.608	37.210	0.855	0.947	1.771	0.947	0.034	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	422	180.110	39.558	1.283	0.835	1.712	0.835	0.065	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	473	223.311	34.878	1.739	0.732	1.646	0.732	0.112	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	523	270.610	28.277	2.071	0.650	1.597	0.650	0.167	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	573	315.238	22.696	2.255	0.580	1.566	0.579	0.223	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	623	346.999	19.979	2.406	0.525	1.550	0.525	0.285	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	673	355.961	19.668	2.492	0.490	1.546	0.489	0.343	3

$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	723	333.833	23.733	2.645	0.470	1.556	0.470	0.407	3
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	772	273.144	53.048	3.958	0.470	1.595	0.469	0.650	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	300	166.556	37.843	1.050	1.262	1.738	1.262	0.025	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	323	177.026	42.559	1.334	1.165	1.717	1.165	0.037	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	373	184.407	59.579	2.026	0.983	1.704	0.982	0.077	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	422	205.655	62.241	2.632	0.852	1.670	0.851	0.130	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	473	237.997	62.544	3.543	0.753	1.629	0.752	0.223	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	523	273.729	50.641	3.794	0.682	1.594	0.682	0.291	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	573	307.612	40.482	3.831	0.638	1.571	0.638	0.344	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	623	334.099	38.221	4.266	0.604	1.556	0.604	0.440	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	673	348.259	37.908	4.598	0.586	1.550	0.586	0.528	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	723	343.929	46.056	5.448	0.566	1.552	0.565	0.696	3
$Sn_{0.9775}Na_{0.02}In_{0.0025}Se_{1.00}$	PolyCrystal	*p-type*	none	772	315.717	71.487	7.126	0.544	1.566	0.543	1.011	3

$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	300	175.184	39.997	1.227	1.195	1.721	1.195	0.031	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	323	186.271	45.431	1.576	1.106	1.701	1.106	0.046	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	373	189.954	62.554	2.257	0.940	1.694	0.940	0.090	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	422	211.510	64.087	2.867	0.815	1.661	0.814	0.149	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	473	247.550	63.262	3.877	0.717	1.618	0.717	0.256	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	523	286.672	50.128	4.120	0.649	1.584	0.648	0.332	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	573	323.020	39.969	4.170	0.607	1.562	0.607	0.393	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	623	351.356	38.426	4.744	0.576	1.548	0.575	0.514	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	673	363.051	38.113	5.023	0.553	1.544	0.553	0.611	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	723	354.715	47.954	6.034	0.541	1.547	0.540	0.806	3
$Sn_{0.975}Na_{0.02}In_{0.005}Se_{1.00}$	PolyCrystal	*p-type*	none	772	317.412	74.308	7.487	0.525	1.565	0.525	1.100	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	300	175.800	27.997	0.865	1.216	1.720	1.216	0.021	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	323	188.120	30.662	1.085	1.116	1.698	1.115	0.031	3

$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	373	207.211	42.349	1.818	0.945	1.668	0.945	0.072	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	422	238.013	42.549	2.410	0.816	1.629	0.816	0.125	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	473	276.518	41.518	3.175	0.717	1.592	0.716	0.210	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	523	314.099	32.487	3.205	0.656	1.567	0.655	0.256	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	573	347.057	25.713	3.097	0.609	1.550	0.609	0.291	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	623	365.840	26.323	3.523	0.586	1.543	0.586	0.375	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	673	367.365	28.574	3.856	0.573	1.542	0.573	0.453	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	723	343.929	38.415	4.544	0.564	1.552	0.564	0.582	3
$Sn_{0.9725}Na_{0.02}In_{0.0075}Se_{1.00}$	PolyCrystal	*p-type*	none	772	289.677	63.539	5.332	0.558	1.582	0.557	0.737	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	300	204.768	27.279	1.144	1.098	1.671	1.098	0.031	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	323	207.843	32.200	1.391	1.012	1.667	1.012	0.044	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	373	225.393	44.708	2.271	0.866	1.643	0.866	0.098	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	422	252.805	47.472	3.034	0.748	1.613	0.747	0.171	3

$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	473	286.071	39.877	3.263	0.668	1.585	0.668	0.231	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	523	318.105	31.667	3.204	0.609	1.564	0.609	0.275	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	573	344.284	26.944	3.194	0.566	1.551	0.566	0.323	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	623	358.752	27.144	3.493	0.539	1.545	0.538	0.404	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	673	358.120	31.651	4.059	0.516	1.546	0.516	0.529	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	723	337.458	43.236	4.924	0.492	1.555	0.492	0.724	3
$Sn_{0.97}Na_{0.02}In_{0.01}Se_{1.00}$	PolyCrystal	*p-type*	none	772	289.677	73.590	6.175	0.479	1.582	0.478	0.995	3
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	300	192.350	1272.061	47.064	1.644	1.690	1.638	0.859	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	323	198.981	1119.291	44.317	1.531	1.680	1.525	0.935	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	373	213.423	863.219	39.319	1.309	1.659	1.304	1.120	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	423	228.548	666.186	34.798	1.127	1.639	1.123	1.306	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	473	242.085	514.556	30.156	0.965	1.624	0.961	1.478	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	523	260.406	378.406	25.660	0.829	1.606	0.826	1.618	4

$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	573	280.789	276.495	21.800	0.720	1.589	0.717	1.735	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	623	295.760	213.402	18.667	0.626	1.578	0.624	1.858	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	673	308.580	170.722	16.256	0.568	1.570	0.567	1.925	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	723	320.118	129.583	13.279	0.519	1.563	0.517	1.851	4
$Sn_{0.995}Na_{0.015}Se_{1.02}$	SingleCrystal	*p-type*	in-plane	773	306.032	134.868	12.631	0.500	1.571	0.499	1.951	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	300	184.683	1577.320	53.799	1.760	1.704	1.752	0.917	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	323	191.451	1430.722	52.441	1.647	1.692	1.639	1.029	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	373	206.339	1120.825	47.720	1.419	1.669	1.412	1.255	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	423	220.613	862.887	41.997	1.244	1.649	1.238	1.428	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	473	234.394	666.186	36.601	1.058	1.633	1.052	1.637	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	523	250.759	491.753	30.921	0.909	1.615	0.905	1.779	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	573	268.970	369.278	26.715	0.790	1.598	0.787	1.937	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	623	282.136	283.918	22.600	0.688	1.588	0.686	2.045	4

$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	673	294.318	222.680	19.289	0.613	1.579	0.610	2.119	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	723	309.206	178.144	17.032	0.568	1.570	0.566	2.167	4
$Sn_{1.005}Na_{0.015}Se_{1.04}$	SingleCrystal	*p-type*	in-plane	773	299.855	174.433	15.684	0.555	1.575	0.553	2.184	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	300	182.714	1465.979	48.941	1.642	1.707	1.634	0.894	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	323	188.252	1302.680	46.165	1.515	1.697	1.508	0.984	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	373	201.787	1033.608	42.086	1.333	1.676	1.326	1.178	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	423	216.921	786.804	37.023	1.150	1.654	1.145	1.362	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	473	232.056	588.247	31.677	0.966	1.635	0.962	1.551	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	523	246.699	460.206	28.008	0.832	1.619	0.828	1.761	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	573	265.648	335.876	23.702	0.725	1.601	0.722	1.873	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	623	278.445	257.938	19.998	0.627	1.591	0.625	1.987	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	673	292.103	205.979	17.575	0.568	1.581	0.566	2.081	4
$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	723	306.745	163.299	15.365	0.534	1.571	0.533	2.079	4

$Sn_{1.015}Na_{0.015}Se_{1.06}$	SingleCrystal	*p-type*	in-plane	773	305.146	154.021	14.341	0.519	1.572	0.517	2.137	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	300	179.761	1311.031	42.365	1.521	1.712	1.514	0.836	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	323	184.806	1165.361	39.801	1.434	1.703	1.428	0.896	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	373	197.972	929.691	36.437	1.240	1.681	1.234	1.096	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	423	214.214	699.588	32.103	1.067	1.658	1.062	1.273	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	473	230.580	540.000	28.710	0.906	1.637	0.902	1.498	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	523	245.345	404.536	24.351	0.784	1.621	0.780	1.625	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	573	261.956	304.330	20.883	0.681	1.605	0.678	1.758	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	623	278.691	228.247	17.728	0.597	1.590	0.595	1.849	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	673	296.410	170.722	14.999	0.529	1.578	0.527	1.907	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	723	309.083	142.887	13.650	0.503	1.570	0.502	1.961	4
$Sn_{1.025}Na_{0.015}Se_{1.10}$	SingleCrystal	*p-type*	in-plane	773	305.761	142.887	13.358	0.502	1.572	0.500	2.058	4
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	300	-193.659	0.045	0.002	0.574	1.688	0.574	0.000	5

$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	324	-219.024	0.049	0.002	0.541	1.651	0.541	0.000	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	374	-250.894	0.063	0.004	0.481	1.615	0.481	0.000	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	425	-260.000	0.075	0.005	0.436	1.606	0.436	0.000	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	474	-309.431	0.721	0.069	0.412	1.569	0.412	0.008	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	524	-363.415	1.440	0.190	0.404	1.544	0.404	0.025	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	574	-388.780	9.359	1.415	0.389	1.535	0.389	0.209	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	625	-402.439	17.037	2.759	0.375	1.531	0.375	0.459	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	674	-405.691	22.961	3.779	0.348	1.530	0.348	0.731	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	725	-408.943	29.885	4.998	0.321	1.529	0.321	1.128	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	775	-406.992	30.867	5.113	0.337	1.530	0.336	1.176	5
$Sn_{0.95}Pb_{0.05}Se_{0.92}Te_{0.05}Br_{0.03}$	PolyCrystal	*n-type*	none	797	-395.935	32.670	5.121	0.360	1.533	0.360	1.133	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	301	-207.967	0.480	0.021	0.395	1.666	0.395	0.002	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	324	-222.927	0.474	0.024	0.378	1.646	0.378	0.002	5

$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	374	-233.984	0.495	0.027	0.346	1.633	0.346	0.003	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	424	-259.350	0.505	0.034	0.331	1.607	0.331	0.004	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	473	-302.276	2.516	0.230	0.329	1.574	0.329	0.033	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	524	-343.902	4.852	0.574	0.333	1.552	0.332	0.091	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	575	-357.561	14.524	1.857	0.331	1.546	0.331	0.323	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	624	-365.366	25.247	3.370	0.329	1.543	0.329	0.640	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	674	-370.569	31.742	4.359	0.306	1.541	0.306	0.959	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	723	-373.171	41.318	5.754	0.287	1.540	0.287	1.450	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	775	-369.268	45.212	6.165	0.320	1.541	0.320	1.492	5
$Sn_{0.89}Pb_{0.11}Se_{0.86}Te_{0.11}Br_{0.03}$	PolyCrystal	*n-type*	none	795	-369.919	44.135	6.039	0.324	1.541	0.324	1.481	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	301	-189.106	1.029	0.037	0.433	1.696	0.433	0.003	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	325	-207.967	1.089	0.047	0.417	1.666	0.417	0.004	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	374	-233.984	0.990	0.054	0.381	1.633	0.381	0.005	5

$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	424	-254.146	0.775	0.050	0.358	1.612	0.358	0.006	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	474	-293.171	3.728	0.320	0.344	1.580	0.344	0.044	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	524	-334.146	6.786	0.758	0.333	1.556	0.333	0.119	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	575	-358.211	16.495	2.117	0.352	1.546	0.352	0.346	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	624	-374.472	26.442	3.708	0.372	1.540	0.371	0.623	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	674	-380.325	34.023	4.921	0.359	1.538	0.359	0.924	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	723	-382.927	42.285	6.200	0.353	1.537	0.353	1.269	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	775	-380.976	47.354	6.873	0.376	1.537	0.375	1.416	5
$Sn_{0.87}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	794	-384.228	46.765	6.904	0.384	1.536	0.383	1.429	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	300	-188.455	2.507	0.089	0.468	1.697	0.468	0.006	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	325	-193.008	2.716	0.101	0.440	1.689	0.440	0.007	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	375	-211.220	2.331	0.104	0.399	1.662	0.399	0.010	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	425	-232.683	1.644	0.089	0.377	1.635	0.377	0.010	5

$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	475	-271.057	7.998	0.588	0.375	1.597	0.375	0.074	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	526	-317.236	14.559	1.465	0.377	1.565	0.377	0.204	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	576	-339.350	26.199	3.017	0.388	1.554	0.388	0.447	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	624	-349.756	35.720	4.370	0.397	1.549	0.397	0.687	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	675	-352.358	45.429	5.640	0.391	1.548	0.391	0.973	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	724	-353.659	53.909	6.743	0.385	1.547	0.384	1.270	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	775	-359.512	61.786	7.986	0.408	1.545	0.407	1.516	5
$Sn_{0.85}Pb_{0.15}Se_{0.82}Te_{0.15}Br_{0.03}$	PolyCrystal	*n-type*	none	795	-362.764	59.621	7.846	0.405	1.544	0.405	1.540	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	301	-207.070	2.108	0.090	0.408	1.668	0.408	0.007	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	324	-217.288	2.257	0.107	0.384	1.654	0.384	0.009	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	374	-239.011	2.278	0.130	0.342	1.627	0.342	0.014	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	422	-252.453	2.120	0.135	0.323	1.613	0.323	0.018	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	475	-289.458	5.921	0.496	0.322	1.582	0.322	0.073	5

$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	524	-329.012	10.055	1.088	0.339	1.559	0.339	0.168	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	574	-344.365	20.081	2.381	0.364	1.551	0.363	0.376	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	624	-352.707	30.031	3.736	0.386	1.548	0.385	0.604	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	674	-360.413	42.879	5.570	0.379	1.545	0.378	0.991	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	725	-364.938	53.288	7.097	0.370	1.543	0.370	1.389	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	775	-363.088	58.992	7.777	0.395	1.544	0.394	1.528	5
$Sn_{0.89}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	794	-364.391	60.317	8.009	0.395	1.543	0.394	1.613	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	301	-201.340	9.373	0.380	0.431	1.676	0.431	0.027	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	325	-214.742	9.582	0.442	0.415	1.657	0.415	0.035	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	374	-242.195	9.783	0.574	0.386	1.624	0.386	0.056	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	425	-260.733	9.105	0.619	0.363	1.606	0.363	0.072	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	473	-286.910	12.130	0.998	0.347	1.584	0.347	0.136	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	524	-318.184	15.074	1.526	0.333	1.564	0.333	0.240	5

$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	573	-345.637	22.806	2.725	0.332	1.551	0.332	0.470	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	625	-359.712	31.090	4.023	0.327	1.545	0.327	0.768	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	674	-365.511	40.941	5.470	0.311	1.543	0.310	1.186	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	725	-368.120	50.292	6.815	0.292	1.542	0.291	1.696	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	776	-379.014	55.676	7.998	0.321	1.538	0.320	1.934	5
$Sn_{0.95}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	794	-373.943	56.273	7.869	0.321	1.540	0.320	1.949	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	301	-198.153	8.159	0.320	0.434	1.681	0.434	0.022	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	324	-215.379	8.340	0.387	0.415	1.656	0.415	0.030	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	374	-239.649	8.417	0.483	0.380	1.627	0.380	0.048	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	424	-255.635	8.205	0.536	0.350	1.610	0.350	0.065	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	474	-285.636	11.447	0.934	0.318	1.585	0.318	0.139	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	525	-315.637	15.074	1.502	0.297	1.566	0.297	0.265	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	574	-345.637	22.805	2.724	0.295	1.551	0.295	0.531	5

$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	624	-369.265	30.734	4.191	0.296	1.541	0.295	0.884	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	673	-374.426	38.641	5.417	0.285	1.540	0.284	1.282	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	723	-369.392	45.853	6.257	0.276	1.541	0.276	1.637	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	774	-365.636	48.465	6.479	0.308	1.543	0.307	1.630	5
$Sn_{0.97}Pb_{0.13}Se_{0.84}Te_{0.13}Br_{0.03}$	PolyCrystal	*n-type*	none	795	-369.484	50.125	6.843	0.309	1.541	0.308	1.763	5
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	298	85.506	3.289	0.024	0.549	1.978	0.549	0.001	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	323	83.787	2.942	0.021	0.542	1.986	0.542	0.001	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	372	85.637	2.248	0.016	0.515	1.978	0.515	0.001	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	423	90.131	2.216	0.018	0.496	1.960	0.496	0.002	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	473	100.792	0.859	0.009	0.474	1.919	0.474	0.001	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	523	114.096	4.134	0.054	0.464	1.874	0.464	0.006	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	571	123.872	10.715	0.164	0.447	1.844	0.447	0.021	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	621	147.749	12.004	0.262	0.442	1.780	0.442	0.037	6

$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	671	169.863	13.293	0.384	0.429	1.731	0.429	0.060	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	722	176.120	19.213	0.596	0.457	1.719	0.456	0.094	6
$Sn_{0.75}Se_{1.25}Na_{0.25}Sb_{0.25}$	PolyCrystal	*p-type*	none	773	187.663	37.367	1.316	0.480	1.698	0.480	0.212	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	300	66.126	184.176	0.805	0.672	2.066	0.671	0.036	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	323	71.453	182.838	0.933	0.660	2.040	0.658	0.046	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	372	85.637	179.168	1.314	0.641	1.978	0.640	0.076	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	423	102.467	164.583	1.728	0.612	1.913	0.611	0.120	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	472	116.649	150.331	2.046	0.584	1.866	0.583	0.165	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	523	133.480	130.457	2.324	0.566	1.816	0.564	0.215	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	571	151.185	114.220	2.611	0.537	1.772	0.536	0.278	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	621	170.656	93.022	2.709	0.516	1.730	0.515	0.326	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	673	187.487	78.439	2.757	0.501	1.699	0.500	0.371	6
$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	723	194.624	75.100	2.845	0.492	1.687	0.491	0.418	6

$Sn_{0.70}Se_{1.30}Na_{0.30}Sb_{0.30}$	PolyCrystal	*p-type*	none	771	200.876	72.420	2.922	0.491	1.677	0.490	0.459	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	301	87.272	223.527	1.702	0.686	1.971	0.685	0.075	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	324	91.718	217.229	1.827	0.680	1.954	0.678	0.087	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	374	100.618	204.630	2.072	0.659	1.920	0.657	0.118	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	423	122.731	177.480	2.673	0.628	1.847	0.627	0.180	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	473	144.845	156.283	3.279	0.602	1.787	0.601	0.258	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	523	165.197	130.126	3.551	0.561	1.741	0.559	0.331	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	573	189.073	110.252	3.941	0.529	1.696	0.528	0.427	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	623	203.258	83.432	3.447	0.512	1.673	0.511	0.419	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	671	218.321	68.188	3.250	0.495	1.652	0.495	0.440	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	724	226.344	62.863	3.221	0.493	1.642	0.492	0.473	6
$Sn_{0.65}Se_{1.35}Na_{0.35}Sb_{0.35}$	PolyCrystal	*p-type*	none	771	233.476	58.532	3.191	0.500	1.634	0.499	0.492	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	301	111.062	103.818	1.281	0.588	1.884	0.587	0.066	6

$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	322	118.148	102.811	1.435	0.585	1.861	0.585	0.079	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	375	133.218	100.793	1.789	0.577	1.817	0.576	0.116	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	423	149.163	90.178	2.006	0.564	1.776	0.563	0.151	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	472	170.394	80.555	2.339	0.548	1.730	0.547	0.202	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	523	191.629	69.278	2.544	0.523	1.692	0.522	0.255	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	573	211.982	60.649	2.725	0.499	1.661	0.498	0.313	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	623	228.809	51.356	2.689	0.487	1.639	0.486	0.344	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	673	243.875	45.040	2.679	0.473	1.622	0.472	0.381	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	723	252.773	43.022	2.749	0.473	1.613	0.472	0.420	6
$Sn_{0.60}Se_{1.40}Na_{0.40}Sb_{0.40}$	PolyCrystal	*p-type*	none	771	258.146	41.997	2.799	0.469	1.608	0.469	0.460	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	300	53.563	754.018	2.163	1.074	2.130	1.070	0.060	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	324	57.132	725.425	2.368	1.083	2.111	1.078	0.071	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	373	67.045	671.304	3.018	1.089	2.061	1.083	0.103	6

$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	422	83.439	605.933	4.219	1.060	1.987	1.055	0.168	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	470	97.991	547.722	5.259	1.033	1.930	1.028	0.239	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	524	112.504	478.262	6.053	0.970	1.879	0.966	0.327	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	573	127.972	420.050	6.879	0.902	1.832	0.897	0.437	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	621	143.444	371.049	7.635	0.858	1.790	0.854	0.553	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	673	152.414	331.255	7.695	0.832	1.769	0.828	0.623	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	721	159.556	311.919	7.941	0.831	1.753	0.827	0.689	6
$Sn_{0.80}Se_{0.80}Na_{0.20}Sb_{0.20}Te_{0.40}$	PolyCrystal	*p-type*	none	773	168.526	293.607	8.339	0.831	1.734	0.827	0.776	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	301	60.967	599.542	2.228	1.017	2.091	1.013	0.066	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	323	66.398	576.062	2.540	1.018	2.064	1.014	0.081	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	373	81.860	534.219	3.580	1.016	1.994	1.012	0.132	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	423	99.176	481.126	4.732	0.990	1.925	0.986	0.202	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	472	114.641	436.213	5.733	0.962	1.872	0.958	0.282	6

$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	523	124.548	382.097	5.927	0.909	1.842	0.905	0.341	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	572	140.013	336.165	6.590	0.860	1.799	0.857	0.438	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	623	152.697	301.486	7.030	0.836	1.768	0.833	0.523	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	672	164.458	276.010	7.465	0.806	1.742	0.803	0.622	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	722	176.219	263.836	8.193	0.805	1.719	0.802	0.735	6
$Sn_{0.75}Se_{0.75}Na_{0.25}Sb_{0.25}Te_{0.50}$	PolyCrystal	*p-type*	none	772	184.273	251.664	8.546	0.808	1.704	0.805	0.816	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	301	85.041	428.698	3.100	0.866	1.980	0.864	0.108	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	324	92.317	414.425	3.532	0.862	1.951	0.860	0.133	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	373	111.489	382.811	4.758	0.854	1.882	0.851	0.208	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	423	126.028	340.970	5.416	0.830	1.837	0.827	0.276	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	473	143.342	307.313	6.314	0.807	1.791	0.804	0.370	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	522	157.884	266.495	6.643	0.768	1.756	0.766	0.451	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	572	177.050	235.909	7.395	0.729	1.717	0.726	0.581	6

$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	621	191.592	212.481	7.800	0.713	1.692	0.711	0.680	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	673	207.044	191.100	8.192	0.702	1.668	0.700	0.786	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	722	209.553	188.132	8.261	0.721	1.664	0.718	0.828	6
$Sn_{0.70}Se_{0.70}Na_{0.30}Sb_{0.30}Te_{0.60}$	PolyCrystal	*p-type*	none	772	212.051	185.169	8.326	0.735	1.661	0.733	0.874	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	300	101.708	300.822	3.112	0.798	1.916	0.796	0.117	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	325	108.055	286.545	3.346	0.795	1.894	0.793	0.137	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	374	132.782	262.098	4.621	0.788	1.818	0.786	0.219	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	423	151.025	236.623	5.397	0.768	1.772	0.766	0.298	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	474	172.039	213.197	6.310	0.744	1.727	0.742	0.402	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	522	185.662	187.723	6.471	0.711	1.702	0.710	0.475	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	572	203.902	166.342	6.916	0.676	1.672	0.674	0.586	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	624	213.801	150.075	6.860	0.669	1.658	0.667	0.640	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	672	226.495	141.994	7.284	0.667	1.642	0.666	0.734	6

$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	721	224.371	148.237	7.463	0.695	1.645	0.693	0.775	6
$Sn_{0.65}Se_{0.65}Na_{0.35}Sb_{0.35}Te_{0.70}$	PolyCrystal	*p-type*	none	773	223.159	157.545	7.846	0.719	1.646	0.717	0.843	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	299	126.715	191.357	3.073	0.686	1.835	0.685	0.134	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	324	134.913	183.221	3.335	0.679	1.813	0.678	0.159	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	374	154.079	170.023	4.036	0.665	1.765	0.664	0.227	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	422	172.328	152.735	4.536	0.652	1.726	0.651	0.294	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	472	187.790	139.539	4.921	0.638	1.698	0.637	0.364	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	523	207.878	123.273	5.327	0.607	1.667	0.606	0.459	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	573	226.121	108.028	5.524	0.583	1.642	0.581	0.543	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	623	232.323	101.996	5.505	0.574	1.635	0.573	0.597	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	673	239.452	96.982	5.561	0.567	1.627	0.566	0.660	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	721	235.482	105.267	5.837	0.586	1.631	0.585	0.718	6
$Sn_{0.60}Se_{0.60}Na_{0.40}Sb_{0.40}Te_{0.80}$	PolyCrystal	*p-type*	none	772	227.792	116.623	6.051	0.609	1.640	0.608	0.767	6

$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	299	142.767	57.792	1.178	1.425	1.792	1.424	0.025	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	325	157.834	70.841	1.765	1.329	1.757	1.328	0.043	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	373	172.023	79.416	2.350	1.152	1.727	1.151	0.076	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	422	192.928	68.402	2.546	1.008	1.690	1.008	0.107	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	474	223.061	53.264	2.650	0.896	1.646	0.895	0.140	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	523	251.941	40.533	2.573	0.803	1.614	0.802	0.168	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	575	278.715	32.440	2.520	0.726	1.590	0.726	0.200	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	623	302.139	28.814	2.630	0.668	1.574	0.668	0.245	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	671	316.749	26.564	2.665	0.618	1.565	0.618	0.289	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	724	317.919	26.891	2.718	0.569	1.565	0.569	0.346	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	773	298.110	33.746	2.999	0.520	1.577	0.520	0.445	7
$Sn_{0.98}Na_{0.02}Se_{1.00}$	PolyCrystal	*p-type*	none	793	284.225	43.361	3.503	0.504	1.586	0.503	0.552	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	300	151.579	61.056	1.403	1.399	1.771	1.398	0.030	7

$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	322	162.456	68.264	1.802	1.289	1.746	1.289	0.045	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	374	166.146	93.333	2.576	1.095	1.739	1.095	0.088	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	424	187.048	97.955	3.427	0.935	1.699	0.934	0.155	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	474	216.345	81.615	3.820	0.822	1.655	0.822	0.220	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	523	251.101	63.900	4.029	0.737	1.615	0.736	0.286	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	574	284.174	52.200	4.215	0.676	1.586	0.676	0.358	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	623	311.794	44.966	4.371	0.623	1.568	0.622	0.437	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	674	328.497	42.199	4.554	0.591	1.559	0.590	0.520	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	725	329.670	45.276	4.921	0.551	1.558	0.550	0.647	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	775	309.020	62.096	5.930	0.510	1.570	0.509	0.901	7
$Sn_{0.98}Na_{0.02}Se_{0.98}S_{0.02}$	PolyCrystal	*p-type*	none	794	295.557	79.959	6.985	0.501	1.578	0.500	1.107	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	300	151.160	65.867	1.505	1.284	1.772	1.284	0.035	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	325	163.711	73.763	1.977	1.207	1.744	1.206	0.053	7

$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	374	169.924	104.330	3.012	1.051	1.731	1.050	0.107	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	424	190.827	111.357	4.055	0.920	1.693	0.919	0.187	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	472	224.323	92.096	4.634	0.813	1.645	0.813	0.269	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	524	262.012	70.601	4.847	0.725	1.604	0.724	0.350	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	573	298.445	56.667	5.047	0.661	1.576	0.660	0.438	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	624	325.643	48.230	5.115	0.603	1.560	0.602	0.529	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	673	343.609	44.948	5.307	0.569	1.552	0.569	0.627	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	723	339.746	47.509	5.484	0.543	1.553	0.543	0.730	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	774	309.021	62.440	5.963	0.510	1.570	0.509	0.906	7
$Sn_{0.98}Na_{0.02}Se_{0.96}S_{0.04}$	PolyCrystal	*p-type*	none	792	275.832	83.395	6.345	0.505	1.593	0.504	0.995	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	300	152.420	40.437	0.939	1.249	1.769	1.249	0.023	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	323	170.010	46.444	1.342	1.190	1.731	1.190	0.036	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	374	177.059	62.921	1.973	1.059	1.717	1.058	0.070	7

$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	423	196.705	69.605	2.693	0.938	1.683	0.938	0.121	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	473	226.001	62.199	3.177	0.838	1.643	0.837	0.179	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	523	259.915	51.186	3.458	0.752	1.606	0.752	0.241	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	573	292.990	41.890	3.596	0.676	1.580	0.676	0.305	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	623	323.965	37.062	3.890	0.615	1.561	0.615	0.394	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	673	340.671	34.811	4.040	0.569	1.553	0.569	0.477	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	723	340.167	38.059	4.404	0.539	1.553	0.538	0.591	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	772	316.999	51.615	5.187	0.511	1.565	0.511	0.783	7
$Sn_{0.98}Na_{0.02}Se_{0.94}S_{0.06}$	PolyCrystal	*p-type*	none	793	288.004	68.791	5.706	0.502	1.584	0.501	0.901	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	298	164.175	29.441	0.794	1.100	1.743	1.100	0.021	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	323	178.403	35.103	1.117	1.033	1.715	1.033	0.035	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	372	190.914	51.581	1.880	0.909	1.693	0.909	0.077	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	421	212.657	60.154	2.720	0.807	1.660	0.807	0.142	7

$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	472	246.569	57.217	3.479	0.726	1.619	0.726	0.226	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	523	282.581	47.405	3.785	0.659	1.588	0.659	0.300	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	572	317.754	39.313	3.969	0.612	1.565	0.612	0.371	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	621	346.634	34.313	4.123	0.578	1.550	0.578	0.443	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	673	362.077	32.062	4.203	0.549	1.544	0.549	0.515	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	722	360.315	35.482	4.606	0.531	1.545	0.531	0.627	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	772	336.726	48.351	5.482	0.516	1.555	0.515	0.821	7
$Sn_{0.98}Na_{0.02}Se_{0.92}S_{0.08}$	PolyCrystal	*p-type*	none	794	320.741	65.010	6.688	0.507	1.563	0.506	1.047	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	301	157.035	64.149	1.582	1.143	1.758	1.142	0.042	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	323	170.850	72.560	2.118	1.068	1.729	1.067	0.064	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	373	179.160	101.237	3.250	0.934	1.713	0.933	0.130	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	423	198.383	104.313	4.105	0.822	1.681	0.822	0.211	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	473	225.581	85.052	4.328	0.739	1.643	0.738	0.277	7

$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	523	259.076	65.103	4.370	0.668	1.607	0.668	0.342	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	573	298.446	51.855	4.619	0.618	1.576	0.618	0.428	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	623	336.977	44.278	5.028	0.583	1.555	0.583	0.537	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	673	366.273	40.997	5.500	0.562	1.543	0.561	0.660	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	723	375.004	43.901	6.174	0.533	1.539	0.532	0.838	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	773	346.378	57.629	6.914	0.511	1.550	0.511	1.046	7
$Sn_{0.98}Na_{0.02}Se_{0.90}S_{0.10}$	PolyCrystal	*p-type*	none	793	322.841	71.025	7.403	0.502	1.562	0.501	1.168	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	301	170.466	38.548	1.120	0.940	1.730	0.940	0.036	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	322	187.639	44.382	1.563	0.896	1.698	0.895	0.056	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	373	196.369	63.092	2.433	0.806	1.684	0.805	0.113	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	422	218.531	67.200	3.209	0.726	1.652	0.726	0.187	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	473	251.185	55.670	3.512	0.665	1.615	0.665	0.250	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	524	288.875	42.938	3.583	0.617	1.583	0.616	0.304	7

$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	572	328.248	33.814	3.643	0.577	1.559	0.577	0.362	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	622	364.261	29.502	3.915	0.546	1.543	0.546	0.445	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	673	389.359	27.423	4.157	0.522	1.535	0.522	0.536	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	724	391.372	29.811	4.566	0.501	1.534	0.500	0.660	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	773	361.909	39.932	5.230	0.487	1.544	0.486	0.830	7
$Sn_{0.98}Na_{0.02}Se_{0.80}S_{0.20}$	PolyCrystal	*p-type*	none	793	332.494	52.639	5.819	0.481	1.557	0.480	0.960	7
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	303	537.719	1.496	0.432	0.465	1.510	0.465	0.028	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	323	543.170	1.390	0.410	0.449	1.509	0.449	0.030	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	373	552.401	1.143	0.349	0.408	1.509	0.408	0.032	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	423	563.958	0.912	0.290	0.371	1.508	0.371	0.033	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	473	582.504	0.773	0.262	0.336	1.507	0.336	0.037	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	523	585.983	0.742	0.255	0.306	1.506	0.306	0.044	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	573	582.616	0.843	0.286	0.280	1.507	0.280	0.058	8

$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	623	570.905	1.193	0.389	0.256	1.507	0.256	0.095	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	673	544.630	1.949	0.578	0.241	1.509	0.241	0.162	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	723	514.851	3.333	0.884	0.233	1.512	0.233	0.275	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	773	444.905	6.667	1.320	0.225	1.522	0.225	0.453	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	823	386.410	13.928	2.080	0.238	1.536	0.238	0.719	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	873	387.000	14.124	2.115	0.233	1.536	0.233	0.791	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	923	387.990	13.986	2.105	0.231	1.535	0.231	0.840	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	out-of-plane	973	386.000	12.987	1.935	0.231	1.536	0.230	0.817	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	303	508.133	10.373	2.678	0.700	1.513	0.700	0.116	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	323	512.857	10.000	2.630	0.681	1.512	0.681	0.125	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	373	524.042	8.264	2.270	0.631	1.511	0.631	0.134	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	423	536.575	6.410	1.846	0.578	1.510	0.578	0.135	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	473	551.111	5.476	1.663	0.526	1.509	0.526	0.150	8

$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	523	563.306	4.955	1.572	0.476	1.508	0.476	0.173	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	573	568.818	5.108	1.653	0.430	1.507	0.430	0.220	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	623	563.303	6.494	2.060	0.392	1.508	0.392	0.327	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	673	542.417	10.000	2.942	0.361	1.509	0.361	0.549	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	723	501.817	16.687	4.202	0.339	1.513	0.338	0.897	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	773	437.158	33.616	6.424	0.326	1.523	0.325	1.524	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	823	344.098	84.746	10.034	0.350	1.551	0.349	2.360	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	873	340.007	85.470	9.881	0.350	1.553	0.348	2.468	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	923	341.042	84.746	9.857	0.348	1.553	0.346	2.617	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	973	338.990	74.074	8.512	0.342	1.554	0.340	2.425	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	303	515.609	12.416	3.301	0.676	1.512	0.676	0.148	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	323	521.091	11.301	3.069	0.652	1.511	0.652	0.152	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	373	536.470	9.091	2.616	0.592	1.510	0.592	0.165	8

$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	423	551.897	7.353	2.240	0.534	1.509	0.534	0.177	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	473	564.442	6.031	1.921	0.479	1.508	0.479	0.190	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	523	571.175	5.306	1.731	0.429	1.507	0.429	0.211	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	573	569.169	5.309	1.720	0.385	1.507	0.385	0.256	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	623	555.492	6.114	1.887	0.349	1.508	0.349	0.337	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	673	527.216	8.411	2.338	0.322	1.511	0.322	0.489	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	723	481.411	13.908	3.223	0.295	1.516	0.294	0.791	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	773	415.149	25.641	4.419	0.281	1.528	0.281	1.214	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	823	325.500	71.342	7.559	0.309	1.560	0.308	2.013	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	873	324.990	72.464	7.654	0.307	1.561	0.306	2.176	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	923	323.990	71.942	7.552	0.305	1.561	0.304	2.285	8
$Sn_{1.00}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	973	322.010	65.359	6.777	0.299	1.562	0.298	2.206	8
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	301	-235.635	230.374	12.791	0.791	1.631	0.790	0.486	9

$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	322	-245.323	212.676	12.800	0.749	1.621	0.748	0.551	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	372	-264.208	175.459	12.248	0.658	1.603	0.657	0.692	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	422	-281.567	140.956	11.175	0.579	1.588	0.578	0.816	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	472	-308.066	116.868	11.091	0.520	1.570	0.519	1.007	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	524	-329.486	92.323	10.023	0.478	1.558	0.477	1.099	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	574	-363.596	76.838	10.158	0.443	1.544	0.443	1.316	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	623	-393.142	61.356	9.483	0.421	1.534	0.421	1.402	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	675	-425.223	50.395	9.112	0.390	1.526	0.390	1.575	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	723	-461.365	38.987	8.299	0.350	1.519	0.350	1.713	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	774	-480.758	31.198	7.211	0.302	1.516	0.302	1.848	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	794	-478.767	30.709	7.039	0.310	1.516	0.310	1.804	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	301	-229.544	196.869	10.373	0.745	1.638	0.744	0.419	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	323	-242.787	179.622	10.588	0.705	1.623	0.704	0.485	9

$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	373	-268.776	144.215	10.418	0.617	1.599	0.616	0.629	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	424	-288.169	116.051	9.637	0.548	1.583	0.547	0.746	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	473	-316.187	96.490	9.647	0.489	1.566	0.488	0.932	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	521	-347.251	76.932	9.277	0.447	1.550	0.446	1.082	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	574	-374.768	64.615	9.075	0.409	1.540	0.408	1.274	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	622	-404.309	51.395	8.401	0.371	1.531	0.371	1.408	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	674	-437.916	41.342	7.928	0.338	1.523	0.337	1.581	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	723	-471.011	31.741	7.042	0.303	1.517	0.303	1.680	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	774	-477.712	30.293	6.913	0.262	1.516	0.262	2.039	9
$Sn_{0.98}Pb_{0.02}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	792	-474.703	32.974	7.430	0.331	1.517	0.330	1.779	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	300	-210.761	231.732	10.294	0.693	1.663	0.692	0.446	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	323	-225.528	209.505	10.656	0.651	1.643	0.649	0.529	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	373	-248.472	169.118	10.441	0.565	1.617	0.564	0.689	9

$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	422	-268.877	136.879	9.896	0.502	1.598	0.501	0.833	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	473	-297.407	112.791	9.976	0.453	1.577	0.452	1.042	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	525	-317.816	90.060	9.097	0.420	1.565	0.419	1.137	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	569	-345.317	76.389	9.109	0.389	1.551	0.388	1.334	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	622	-371.821	62.262	8.608	0.358	1.541	0.357	1.498	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	674	-409.997	48.585	8.167	0.329	1.529	0.329	1.672	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	725	-451.724	34.461	7.032	0.303	1.520	0.303	1.681	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	776	-452.335	33.917	6.940	0.283	1.520	0.283	1.899	9
$Sn_{0.96}Pb_{0.04}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	794	-452.373	35.237	7.211	0.383	1.520	0.383	1.496	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	299	-201.622	286.067	11.629	0.687	1.676	0.685	0.507	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	323	-214.867	257.501	11.888	0.649	1.657	0.648	0.591	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	374	-239.337	206.246	11.814	0.575	1.627	0.574	0.769	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	423	-259.741	159.520	10.762	0.508	1.607	0.507	0.897	9

$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	473	-286.238	131.355	10.762	0.454	1.585	0.453	1.119	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	523	-314.258	105.005	10.370	0.413	1.567	0.413	1.311	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	574	-337.204	89.511	10.178	0.389	1.555	0.388	1.502	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	622	-364.207	74.935	9.940	0.361	1.543	0.361	1.712	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	673	-393.243	59.911	9.265	0.347	1.534	0.346	1.798	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	723	-430.401	41.249	7.641	0.304	1.524	0.304	1.814	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	772	-438.116	42.969	8.248	0.285	1.523	0.284	2.238	9
$Sn_{0.94}Pb_{0.06}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	792	-429.527	47.005	8.672	0.378	1.525	0.377	1.818	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	301	-204.163	247.129	10.301	0.665	1.672	0.664	0.465	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	326	-220.457	227.164	11.041	0.636	1.649	0.634	0.566	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	373	-252.026	184.511	11.720	0.566	1.614	0.565	0.773	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	425	-271.928	149.106	11.026	0.506	1.596	0.505	0.925	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	477	-294.876	123.205	10.713	0.459	1.579	0.458	1.112	9

$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	522	-323.394	98.663	10.319	0.432	1.562	0.431	1.247	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	573	-349.386	82.728	10.099	0.410	1.549	0.409	1.412	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	624	-379.439	70.863	10.203	0.389	1.538	0.388	1.638	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	671	-405.423	59.000	9.698	0.357	1.530	0.356	1.826	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	723	-429.387	46.234	8.524	0.311	1.525	0.310	1.985	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	774	-448.272	42.520	8.544	0.372	1.521	0.371	1.780	9
$Sn_{0.92}Pb_{0.08}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	794	-446.788	40.670	8.119	0.317	1.521	0.317	2.032	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	299	-200.606	262.974	10.583	0.627	1.677	0.626	0.504	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	321	-217.403	241.202	11.400	0.598	1.653	0.597	0.612	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	372	-248.978	199.003	12.336	0.547	1.617	0.546	0.839	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	422	-269.385	159.520	11.576	0.502	1.598	0.500	0.975	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	473	-300.959	130.449	11.816	0.461	1.575	0.460	1.212	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	522	-335.069	107.722	12.094	0.422	1.556	0.421	1.496	9

$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	572	-358.013	94.045	12.054	0.387	1.546	0.387	1.779	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	621	-380.448	80.826	11.699	0.353	1.538	0.352	2.060	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	674	-418.119	64.889	11.344	0.312	1.527	0.311	2.452	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	722	-457.809	48.947	10.259	0.272	1.519	0.272	2.721	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	771	-453.342	44.777	9.203	0.339	1.520	0.339	2.091	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	794	-454.910	45.200	9.354	0.342	1.520	0.341	2.171	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	299	-177.764	279.273	8.825	0.631	1.716	0.629	0.419	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	323	-195.072	257.048	9.781	0.600	1.686	0.598	0.527	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	373	-225.629	211.224	10.753	0.541	1.643	0.540	0.741	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	424	-253.651	171.291	11.021	0.485	1.612	0.484	0.962	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	474	-285.734	133.619	10.909	0.441	1.585	0.440	1.174	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	521	-316.286	107.720	10.776	0.405	1.565	0.404	1.388	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	575	-343.806	90.426	10.689	0.373	1.552	0.372	1.649	9

$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	624	-376.392	76.293	10.809	0.345	1.539	0.345	1.953	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	674	-402.890	63.529	10.312	0.317	1.531	0.316	2.194	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	723	-416.696	57.098	9.914	0.286	1.528	0.285	2.510	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	774	-433.550	52.481	9.865	0.344	1.524	0.344	2.216	9
$Sn_{0.88}Pb_{0.12}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	793	-447.802	48.367	9.699	0.349	1.521	0.349	2.202	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	303	-186.928	425.726	14.876	1.482	1.700	1.480	0.304	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	323	-201.440	392.116	15.911	1.389	1.676	1.387	0.370	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	373	-219.113	321.162	15.419	1.224	1.651	1.222	0.470	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	424	-235.757	251.452	13.976	1.082	1.631	1.081	0.548	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	473	-256.531	200.415	13.189	0.929	1.610	0.927	0.672	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	526	-276.277	150.622	11.497	0.800	1.592	0.799	0.756	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	573	-299.114	117.012	10.469	0.731	1.576	0.730	0.820	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	623	-321.957	88.382	9.161	0.679	1.562	0.678	0.841	9

$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	675	-363.407	64.730	8.549	0.635	1.544	0.634	0.909	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	726	-400.723	44.813	7.196	0.611	1.532	0.611	0.855	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	732	-407.970	42.324	7.044	0.591	1.530	0.591	0.873	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	744	-419.365	34.855	6.130	0.575	1.527	0.574	0.794	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	756	-426.623	34.855	6.344	0.543	1.525	0.542	0.883	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	776	-428.732	31.120	5.720	0.842	1.525	0.842	0.527	9
$Sn_{0.90}Pb_{0.10}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	in-plane	799	-430.847	27.386	5.084	0.782	1.524	0.781	0.519	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	300	-268.136	174.089	12.516	0.771	1.599	0.770	0.487	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	323	-272.544	158.893	11.803	0.751	1.595	0.750	0.507	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	373	-288.287	128.492	10.679	0.654	1.583	0.653	0.609	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	424	-308.438	102.339	9.736	0.569	1.570	0.568	0.725	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	472	-328.589	82.861	8.947	0.512	1.559	0.511	0.826	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	521	-357.557	68.236	8.724	0.465	1.546	0.465	0.977	9

$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	574	-379.597	53.612	7.725	0.428	1.538	0.428	1.035	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	621	-406.675	44.447	7.351	0.393	1.530	0.392	1.162	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	673	-445.088	37.717	7.472	0.367	1.522	0.366	1.370	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	721	-461.461	30.980	6.597	0.325	1.519	0.325	1.464	9
$Sn_{1.00}Se_{0.995}Cl_{0.005}$	SingleCrystal	*n-type*	out-of-plane	772	-480.982	25.458	5.889	0.291	1.516	0.291	1.561	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	299	-258.060	180.765	12.038	0.821	1.608	0.820	0.439	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	323	-261.839	167.993	11.518	0.764	1.605	0.763	0.487	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	372	-273.804	139.412	10.452	0.663	1.594	0.662	0.586	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	422	-287.028	116.295	9.581	0.590	1.584	0.590	0.684	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	473	-309.698	93.175	8.937	0.530	1.569	0.530	0.797	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	522	-332.997	77.337	8.576	0.490	1.557	0.490	0.914	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	572	-360.705	62.715	8.160	0.442	1.545	0.442	1.056	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	621	-390.932	51.731	7.906	0.404	1.534	0.403	1.216	9

$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	674	-412.972	41.357	7.053	0.367	1.528	0.366	1.296	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	723	-437.531	34.621	6.628	0.333	1.523	0.332	1.439	9
$Sn_{1.00}Se_{0.994}Cl_{0.006}$	SingleCrystal	*n-type*	out-of-plane	772	-435.642	27.884	5.292	0.283	1.523	0.283	1.442	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	299	-249.244	200.788	12.474	0.852	1.617	0.851	0.438	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	322	-256.171	183.066	12.013	0.799	1.610	0.798	0.484	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	373	-275.063	151.127	11.434	0.680	1.593	0.679	0.626	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	423	-288.287	123.315	10.249	0.600	1.583	0.599	0.723	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	474	-313.476	100.753	9.901	0.532	1.567	0.531	0.882	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	524	-338.035	81.943	9.363	0.485	1.554	0.485	1.010	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	573	-366.373	68.007	9.129	0.445	1.542	0.445	1.175	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	623	-392.821	55.570	8.575	0.411	1.534	0.411	1.298	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	671	-419.270	45.385	7.978	0.379	1.527	0.379	1.413	9
$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	723	-444.458	38.198	7.546	0.353	1.522	0.353	1.546	9

$Sn_{1.00}Se_{0.993}Cl_{0.007}$	SingleCrystal	*n-type*	out-of-plane	772	-445.718	32.511	6.459	0.305	1.521	0.305	1.635	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	300	-243.577	215.344	12.776	0.908	1.622	0.906	0.423	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	323	-242.947	197.691	11.668	0.839	1.623	0.838	0.449	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	373	-251.763	162.004	10.269	0.716	1.614	0.715	0.535	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	424	-266.877	133.441	9.504	0.612	1.600	0.611	0.658	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	472	-290.176	106.005	8.926	0.549	1.582	0.548	0.767	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	523	-314.736	86.067	8.526	0.498	1.566	0.497	0.895	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	572	-341.814	70.632	8.252	0.455	1.553	0.454	1.037	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	623	-368.262	56.695	7.689	0.416	1.542	0.416	1.152	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	673	-395.970	45.384	7.116	0.384	1.533	0.383	1.247	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	723	-427.456	35.574	6.500	0.345	1.525	0.345	1.362	9
$Sn_{1.00}Se_{0.992}Cl_{0.008}$	SingleCrystal	*n-type*	out-of-plane	772	-440.680	31.386	6.095	0.316	1.522	0.316	1.489	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	300	-237.909	227.721	12.889	0.788	1.629	0.787	0.490	9

$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	323	-245.466	210.815	12.702	0.740	1.621	0.739	0.554	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	373	-265.617	175.131	12.356	0.655	1.601	0.654	0.702	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	422	-285.139	145.441	11.825	0.575	1.586	0.574	0.868	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	475	-308.438	119.130	11.333	0.512	1.570	0.511	1.052	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	523	-329.219	93.569	10.141	0.472	1.559	0.471	1.125	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	573	-358.186	77.006	9.880	0.436	1.546	0.435	1.298	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	624	-390.302	62.319	9.493	0.418	1.535	0.417	1.418	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	672	-427.456	52.507	9.594	0.398	1.525	0.397	1.621	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	722	-463.980	42.696	9.191	0.361	1.518	0.360	1.841	9
$Sn_{1.00}Se_{0.991}Cl_{0.009}$	SingleCrystal	*n-type*	out-of-plane	771	-480.982	32.883	7.607	0.297	1.516	0.297	1.973	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	300	-227.834	231.470	12.015	0.818	1.640	0.817	0.441	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	323	-235.390	213.817	11.847	0.770	1.631	0.769	0.498	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	375	-258.060	179.254	11.937	0.679	1.608	0.677	0.660	9

$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	425	-278.212	141.691	10.967	0.601	1.591	0.600	0.775	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	474	-305.919	116.126	10.868	0.544	1.572	0.543	0.946	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	522	-333.627	92.442	10.289	0.498	1.556	0.497	1.079	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	573	-360.705	76.631	9.970	0.458	1.545	0.457	1.248	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	623	-387.783	61.195	9.202	0.421	1.535	0.420	1.363	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	674	-424.937	49.884	9.008	0.381	1.526	0.380	1.595	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	723	-460.202	40.076	8.487	0.350	1.519	0.349	1.754	9
$Sn_{1.00}Se_{0.99}Cl_{0.01}$	SingleCrystal	*n-type*	out-of-plane	773	-475.315	33.261	7.515	0.310	1.517	0.309	1.875	9
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	297	-230.220	150.391	7.971	0.782	1.637	0.782	0.303	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	322	-243.407	140.052	8.298	0.725	1.623	0.724	0.368	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	370	-269.780	120.802	8.792	0.644	1.598	0.643	0.505	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	422	-295.604	104.051	9.092	0.582	1.578	0.581	0.660	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	472	-321.978	87.302	9.051	0.534	1.562	0.533	0.800	10

$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	522	-346.703	73.767	8.867	0.498	1.550	0.498	0.929	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	572	-371.978	60.944	8.433	0.445	1.540	0.444	1.086	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	623	-395.055	50.980	7.956	0.391	1.533	0.390	1.269	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	671	-423.077	42.803	7.661	0.349	1.526	0.349	1.473	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	722	-445.604	36.767	7.301	0.294	1.521	0.294	1.790	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	749	-456.593	35.358	7.371	0.270	1.520	0.269	2.047	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	770	-468.132	33.947	7.439	0.261	1.518	0.261	2.194	10
$Sn_{1.00}Se_{0.995}Br_{0.005}$	SingleCrystal	*n-type*	out-of-plane	791	-476.923	37.174	8.455	0.344	1.516	0.344	1.943	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	298	-227.473	168.249	8.706	0.925	1.641	0.925	0.281	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	322	-239.560	156.123	8.960	0.867	1.627	0.866	0.333	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	371	-264.286	134.373	9.386	0.753	1.602	0.752	0.463	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	422	-288.462	113.338	9.431	0.676	1.583	0.675	0.589	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	471	-313.736	94.803	9.331	0.606	1.567	0.605	0.725	10

$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	522	-338.462	76.980	8.819	0.568	1.554	0.568	0.811	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	572	-364.286	63.445	8.419	0.498	1.543	0.498	0.967	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	621	-387.363	50.982	7.650	0.435	1.535	0.434	1.093	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	673	-411.538	41.374	7.007	0.396	1.529	0.395	1.191	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	723	-436.813	36.052	6.879	0.317	1.523	0.317	1.567	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	748	-447.802	34.640	6.946	0.272	1.521	0.272	1.910	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	772	-457.143	34.661	7.243	0.217	1.519	0.217	2.574	10
$Sn_{1.00}Se_{0.99}Br_{0.01}$	SingleCrystal	*n-type*	out-of-plane	794	-467.582	36.102	7.893	0.393	1.518	0.393	1.593	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	298	-206.044	178.249	7.567	0.895	1.669	0.894	0.252	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	322	-220.330	162.552	7.891	0.817	1.650	0.816	0.312	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	372	-250.000	138.659	8.666	0.704	1.616	0.703	0.458	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	422	-280.220	116.195	9.124	0.602	1.589	0.602	0.639	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	473	-309.341	95.159	9.106	0.554	1.569	0.553	0.778	10

$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	524	-340.110	78.766	9.111	0.535	1.553	0.535	0.892	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	572	-369.780	63.088	8.626	0.500	1.541	0.499	0.987	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	623	-403.846	51.337	8.373	0.447	1.531	0.447	1.167	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	673	-434.615	42.446	8.018	0.380	1.524	0.379	1.422	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	722	-468.132	35.695	7.823	0.304	1.518	0.304	1.858	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	748	-484.066	32.500	7.616	0.272	1.515	0.272	2.092	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	774	-500.549	32.875	8.237	0.245	1.513	0.245	2.598	10
$Sn_{1.00}Se_{0.985}Br_{0.015}$	SingleCrystal	*n-type*	out-of-plane	795	-510.500	36.104	9.409	0.414	1.512	0.414	1.808	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	298	-203.297	226.820	9.374	0.798	1.673	0.797	0.351	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	322	-215.385	209.337	9.711	0.722	1.656	0.721	0.434	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	372	-239.560	177.945	10.212	0.612	1.627	0.611	0.620	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	425	-262.637	147.980	10.207	0.554	1.604	0.553	0.784	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	472	-288.462	123.016	10.236	0.486	1.583	0.485	0.994	10

$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	523	-314.835	100.194	9.931	0.498	1.566	0.498	1.042	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	571	-344.505	79.515	9.437	0.514	1.551	0.514	1.048	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	621	-371.429	62.409	8.610	0.431	1.541	0.431	1.241	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	671	-403.846	49.588	8.087	0.363	1.531	0.362	1.497	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	724	-437.363	39.982	7.648	0.283	1.523	0.283	1.954	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	749	-452.198	36.428	7.449	0.243	1.520	0.242	2.298	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	773	-468.681	33.947	7.457	0.202	1.518	0.202	2.848	10
$Sn_{1.00}Se_{0.98}Br_{0.02}$	SingleCrystal	*n-type*	out-of-plane	791	-478.700	35.387	8.109	0.421	1.516	0.421	1.522	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	298	-196.154	230.749	8.878	0.880	1.684	0.879	0.300	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	325	-207.143	212.552	9.120	0.825	1.668	0.824	0.359	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	371	-230.769	175.445	9.343	0.735	1.637	0.733	0.472	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	423	-255.495	145.837	9.520	0.646	1.611	0.645	0.623	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	474	-282.967	120.159	9.621	0.594	1.587	0.593	0.768	10

$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	520	-308.242	98.409	9.350	0.567	1.570	0.566	0.857	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	573	-334.615	80.945	9.063	0.560	1.556	0.559	0.928	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	623	-362.088	68.124	8.932	0.502	1.544	0.501	1.109	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	672	-390.110	57.446	8.742	0.431	1.535	0.431	1.363	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	722	-417.582	51.052	8.902	0.355	1.527	0.355	1.809	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	748	-430.769	49.284	9.145	0.315	1.524	0.314	2.173	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	775	-445.604	46.803	9.293	0.272	1.521	0.272	2.645	10
$Sn_{1.00}Se_{0.975}Br_{0.025}$	SingleCrystal	*n-type*	out-of-plane	792	-457.143	46.100	9.634	0.382	1.519	0.382	1.997	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	301	-182.967	232.535	7.785	0.880	1.707	0.879	0.267	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	321	-194.505	210.766	7.974	0.810	1.687	0.809	0.316	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	373	-218.132	179.374	8.535	0.721	1.653	0.720	0.442	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	422	-245.604	150.480	9.077	0.642	1.620	0.641	0.597	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	472	-275.275	125.160	9.484	0.582	1.593	0.581	0.770	10

$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	522	-304.396	103.052	9.548	0.544	1.573	0.543	0.917	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	570	-336.264	84.159	9.516	0.475	1.555	0.474	1.141	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	622	-370.330	67.767	9.294	0.415	1.541	0.415	1.392	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	674	-404.396	55.302	9.044	0.375	1.531	0.374	1.626	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	724	-437.912	46.411	8.900	0.292	1.523	0.291	2.208	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	750	-457.143	43.214	9.031	0.265	1.519	0.264	2.559	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	777	-476.923	40.374	9.183	0.246	1.516	0.246	2.893	10
$Sn_{1.00}Se_{0.97}Br_{0.03}$	SingleCrystal	*n-type*	out-of-plane	795	-470.879	41.817	9.272	0.353	1.517	0.352	2.089	10
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	299	175.371	1103.175	33.928	1.779	1.721	1.773	0.570	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	323	183.702	976.190	32.943	1.681	1.705	1.676	0.634	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	373	201.147	751.323	30.399	1.485	1.677	1.480	0.764	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	425	219.634	568.783	27.437	1.311	1.651	1.307	0.890	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	472	244.902	407.407	24.435	1.106	1.621	1.102	1.044	11

$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	520	265.217	285.714	20.097	0.907	1.602	0.905	1.152	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	572	295.437	201.058	17.549	0.768	1.578	0.767	1.306	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	621	314.968	145.503	14.435	0.682	1.566	0.681	1.314	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	672	326.154	121.693	12.945	0.622	1.560	0.621	1.399	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	723	329.257	116.402	12.619	0.605	1.559	0.604	1.509	11
$Sn_{0.97}Pb_{0.03}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	771	307.589	126.984	12.014	0.592	1.571	0.591	1.565	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	299	185.096	1232.899	42.240	1.607	1.703	1.601	0.786	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	322	191.153	1094.058	39.976	1.526	1.692	1.520	0.844	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	372	208.385	825.785	35.859	1.336	1.666	1.331	0.998	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	422	223.891	653.588	32.763	1.195	1.645	1.190	1.157	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	472	243.232	475.120	28.109	1.028	1.623	1.024	1.291	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	523	265.720	338.560	23.905	0.907	1.601	0.904	1.379	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	572	280.311	247.900	19.479	0.769	1.589	0.767	1.449	11

$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	623	301.340	175.771	15.961	0.644	1.574	0.642	1.544	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	673	315.387	136.713	13.599	0.603	1.566	0.602	1.517	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	723	319.908	118.467	12.124	0.571	1.563	0.570	1.534	11
$Sn_{0.95}Pb_{0.05}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	772	309.980	124.169	11.931	0.630	1.569	0.629	1.462	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	300	197.169	1549.068	60.221	1.671	1.683	1.663	1.081	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	323	203.979	1343.230	55.888	1.600	1.672	1.593	1.128	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	373	219.257	1009.100	48.511	1.435	1.651	1.428	1.261	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	422	235.622	726.857	40.353	1.216	1.631	1.211	1.401	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	472	254.905	527.862	34.299	1.050	1.611	1.046	1.541	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	523	271.707	379.043	27.983	0.881	1.596	0.878	1.661	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	573	292.041	201.144	17.155	0.757	1.581	0.756	1.298	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	623	307.262	281.541	26.580	0.649	1.571	0.646	2.553	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	672	319.846	165.223	16.903	0.579	1.563	0.578	1.961	11

$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	722	324.785	154.389	16.286	0.545	1.561	0.543	2.157	11
$Sn_{0.93}Pb_{0.07}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	772	310.196	159.806	15.377	0.656	1.569	0.654	1.809	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	299	205.552	1766.309	74.630	1.779	1.670	1.771	1.254	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	322	212.047	1559.616	70.126	1.713	1.661	1.705	1.318	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	372	225.322	1204.674	61.161	1.550	1.643	1.542	1.468	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	422	239.627	924.712	53.098	1.386	1.627	1.380	1.617	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	473	257.969	665.847	44.311	1.187	1.608	1.182	1.766	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	522	273.410	478.256	35.751	0.960	1.595	0.956	1.945	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	572	290.100	345.402	29.068	0.802	1.582	0.799	2.073	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	622	301.340	260.444	23.650	0.667	1.574	0.664	2.207	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	672	314.907	209.697	20.795	0.618	1.566	0.615	2.263	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	722	319.965	185.749	19.017	0.597	1.563	0.595	2.301	11
$Se_{0.91}Pb_{0.09}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	772	315.078	190.311	18.893	0.747	1.566	0.745	1.952	11

$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	299	215.251	1019.934	47.257	1.367	1.656	1.362	1.033	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	322	220.515	929.274	45.188	1.339	1.649	1.334	1.086	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	372	233.791	724.006	39.573	1.209	1.633	1.205	1.217	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	423	249.355	544.968	33.885	1.040	1.617	1.036	1.378	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	473	263.631	404.701	28.127	0.889	1.603	0.885	1.497	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	523	280.426	287.528	22.611	0.728	1.589	0.725	1.625	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	573	300.453	202.285	18.261	0.601	1.575	0.599	1.741	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	623	318.134	157.525	15.943	0.514	1.564	0.512	1.934	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	672	330.150	135.003	14.715	0.476	1.558	0.475	2.078	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	723	336.902	121.318	13.770	0.468	1.555	0.467	2.128	11
$Se_{0.89}Pb_{0.11}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	773	325.916	123.029	13.068	0.667	1.560	0.666	1.514	11
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	300	162.118	1504.298	39.536	1.654	1.747	1.646	0.717	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	323	170.909	1276.640	37.291	1.551	1.729	1.543	0.777	12

$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	373	184.845	1082.259	36.978	1.355	1.703	1.349	1.018	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	423	200.556	855.882	34.426	1.177	1.677	1.170	1.238	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	473	221.635	630.643	30.979	1.030	1.648	1.025	1.422	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	523	239.111	476.303	27.232	0.916	1.627	0.912	1.554	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	573	254.811	364.017	23.635	0.813	1.611	0.810	1.665	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	623	283.044	265.023	21.232	0.721	1.587	0.718	1.834	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	673	318.408	187.187	18.978	0.640	1.564	0.638	1.996	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	723	319.834	160.580	16.426	0.580	1.563	0.578	2.047	12
$Sn_{0.98}Na_{0.02}Se_{1.00}$	SingleCrystal	*p-type*	in-plane	773	312.320	145.284	14.172	0.548	1.568	0.546	2.001	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	300	180.515	2722.323	88.709	2.268	1.711	2.254	1.174	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	323	188.530	2332.815	82.917	2.098	1.697	2.085	1.277	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	373	200.955	1779.359	71.855	1.807	1.677	1.796	1.483	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	423	218.143	1280.376	60.928	1.561	1.653	1.552	1.651	12

$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	473	238.571	904.560	51.484	1.314	1.628	1.307	1.853	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	523	265.070	650.915	45.735	1.140	1.602	1.135	2.098	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	573	287.570	482.789	39.925	0.965	1.584	0.961	2.370	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	623	315.000	336.134	33.353	0.841	1.566	0.838	2.470	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	673	337.626	246.085	28.052	0.780	1.554	0.777	2.422	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	723	318.939	235.546	23.960	0.738	1.564	0.735	2.347	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0005}$	SingleCrystal	*p-type*	in-plane	773	300.253	225.873	20.363	0.699	1.575	0.696	2.253	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	300	182.232	3047.022	101.187	2.075	1.708	2.060	1.463	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	323	186.871	2672.101	93.311	1.977	1.700	1.962	1.525	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	373	195.998	2009.459	77.194	1.720	1.685	1.707	1.674	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	423	214.146	1379.298	63.252	1.443	1.658	1.433	1.855	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	473	229.967	1016.689	53.768	1.223	1.638	1.215	2.079	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	523	256.838	700.092	46.182	1.061	1.609	1.055	2.277	12

$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	573	283.857	478.159	38.527	0.883	1.587	0.879	2.499	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	623	316.366	312.878	31.315	0.746	1.565	0.743	2.614	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	673	346.577	223.512	26.847	0.694	1.550	0.692	2.603	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	723	341.876	187.142	21.873	0.625	1.552	0.622	2.532	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.001}$	SingleCrystal	*p-type*	in-plane	773	337.174	160.952	18.298	0.605	1.555	0.603	2.337	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	300	176.825	2513.132	78.578	2.151	1.718	2.138	1.096	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	323	182.559	2147.562	71.573	1.999	1.707	1.987	1.156	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	373	196.894	1631.606	63.253	1.770	1.683	1.759	1.333	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	423	219.093	1155.430	55.463	1.509	1.651	1.501	1.554	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	473	232.095	890.405	47.965	1.283	1.635	1.277	1.768	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	523	261.219	602.668	41.123	1.084	1.605	1.078	1.985	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	573	282.393	454.326	36.231	0.926	1.588	0.922	2.242	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	623	316.492	296.476	29.697	0.791	1.565	0.788	2.339	12

$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	673	339.299	221.818	25.536	0.723	1.554	0.720	2.379	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	723	325.974	216.542	23.010	0.714	1.560	0.711	2.331	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.0015}$	SingleCrystal	*p-type*	in-plane	773	312.649	211.512	20.675	0.698	1.568	0.696	2.288	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	300	174.978	1935.401	59.257	1.946	1.721	1.936	0.913	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	323	182.145	1577.921	52.351	1.824	1.708	1.815	0.927	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	373	204.075	1125.852	46.888	1.556	1.672	1.549	1.124	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	423	226.187	818.084	41.854	1.335	1.642	1.329	1.326	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	473	248.370	640.959	39.539	1.172	1.618	1.167	1.596	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	523	269.080	473.635	34.293	0.981	1.598	0.977	1.827	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	573	290.064	372.901	31.375	0.853	1.582	0.850	2.108	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	623	321.669	250.354	25.904	0.717	1.562	0.715	2.251	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	673	350.726	190.981	23.492	0.662	1.549	0.660	2.388	12
$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	723	336.610	189.506	21.472	0.652	1.555	0.649	2.383	12

$Sn_{0.98}Na_{0.02}Se_{1.00}Cu_{0.002}$	SingleCrystal	*p-type*	in-plane	773	322.494	188.053	19.558	0.651	1.562	0.649	2.322	12
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	298	199.255	1967.753	78.125	1.825	1.679	1.815	1.277	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	324	202.823	1768.782	72.763	1.724	1.674	1.714	1.367	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	373	215.097	1384.563	64.059	1.584	1.657	1.575	1.508	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	423	231.990	1038.079	55.869	1.395	1.635	1.387	1.695	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	473	247.343	770.497	47.138	1.206	1.619	1.200	1.848	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	523	268.858	547.513	39.577	1.030	1.599	1.025	2.009	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	573	289.089	375.986	31.422	0.847	1.583	0.844	2.125	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	623	309.063	276.501	26.411	0.701	1.570	0.698	2.347	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	672	324.160	207.890	21.845	0.606	1.561	0.604	2.422	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	722	314.867	177.015	17.549	0.587	1.566	0.585	2.158	13
$Sn_{0.887}Na_{0.015}Pb_{0.09}Sr_{0.008}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	774	294.274	197.599	17.111	0.738	1.579	0.735	1.795	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	300	201.307	2132.419	86.415	1.808	1.676	1.798	1.436	13

$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	323	205.649	1930.017	81.623	1.759	1.670	1.749	1.497	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	371	222.544	1487.479	73.669	1.619	1.647	1.610	1.688	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	473	255.815	832.247	54.463	1.277	1.610	1.271	2.018	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	524	275.018	588.679	44.525	1.085	1.593	1.080	2.150	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	574	294.736	413.722	35.940	0.916	1.579	0.912	2.251	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	623	313.684	276.501	27.207	0.740	1.567	0.737	2.291	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	673	330.578	207.890	22.719	0.646	1.558	0.643	2.368	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	722	319.230	194.168	19.787	0.639	1.564	0.637	2.236	13
$Sn_{0.883}Na_{0.015}Pb_{0.09}Sr_{0.012}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	773	301.207	214.751	19.483	0.774	1.575	0.771	1.946	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	300	199.767	2005.489	80.033	1.776	1.679	1.766	1.352	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	323	206.676	1813.379	77.458	1.714	1.668	1.704	1.458	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	374	220.744	1432.590	69.807	1.584	1.649	1.575	1.649	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	422	237.639	1079.245	60.947	1.417	1.629	1.410	1.816	13

$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	472	255.560	791.081	51.666	1.255	1.610	1.249	1.944	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	523	277.074	564.666	43.349	1.062	1.592	1.058	2.133	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	574	296.534	396.569	34.871	0.896	1.578	0.893	2.232	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	624	315.481	273.070	27.178	0.730	1.566	0.727	2.322	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	673	327.497	214.751	23.033	0.649	1.559	0.647	2.388	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	722	321.542	183.877	19.011	0.626	1.563	0.624	2.191	13
$Sn_{0.879}Na_{0.015}Pb_{0.09}Sr_{0.016}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	773	297.099	207.890	18.350	0.754	1.577	0.751	1.882	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	299	199.768	1700.172	67.849	1.704	1.679	1.695	1.190	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	323	207.446	1494.340	64.307	1.622	1.667	1.614	1.279	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	372	223.313	1130.703	56.387	1.456	1.646	1.449	1.441	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	422	242.517	832.247	48.948	1.300	1.624	1.294	1.591	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	473	261.207	602.401	41.101	1.111	1.605	1.106	1.751	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	524	282.721	420.583	33.618	0.935	1.587	0.932	1.884	13

$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	572	301.670	297.084	27.036	0.782	1.574	0.779	1.977	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	621	316.767	228.473	22.925	0.675	1.565	0.672	2.112	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	672	330.323	163.293	17.817	0.597	1.558	0.595	2.006	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	724	324.107	156.432	16.433	0.584	1.561	0.582	2.036	13
$Sn_{0.875}Na_{0.015}Pb_{0.09}Sr_{0.020}Se_{1.000}$	SingleCrystal	*p-type*	in-plane	773	304.288	170.154	15.755	0.672	1.573	0.670	1.811	13

Section II. Figures

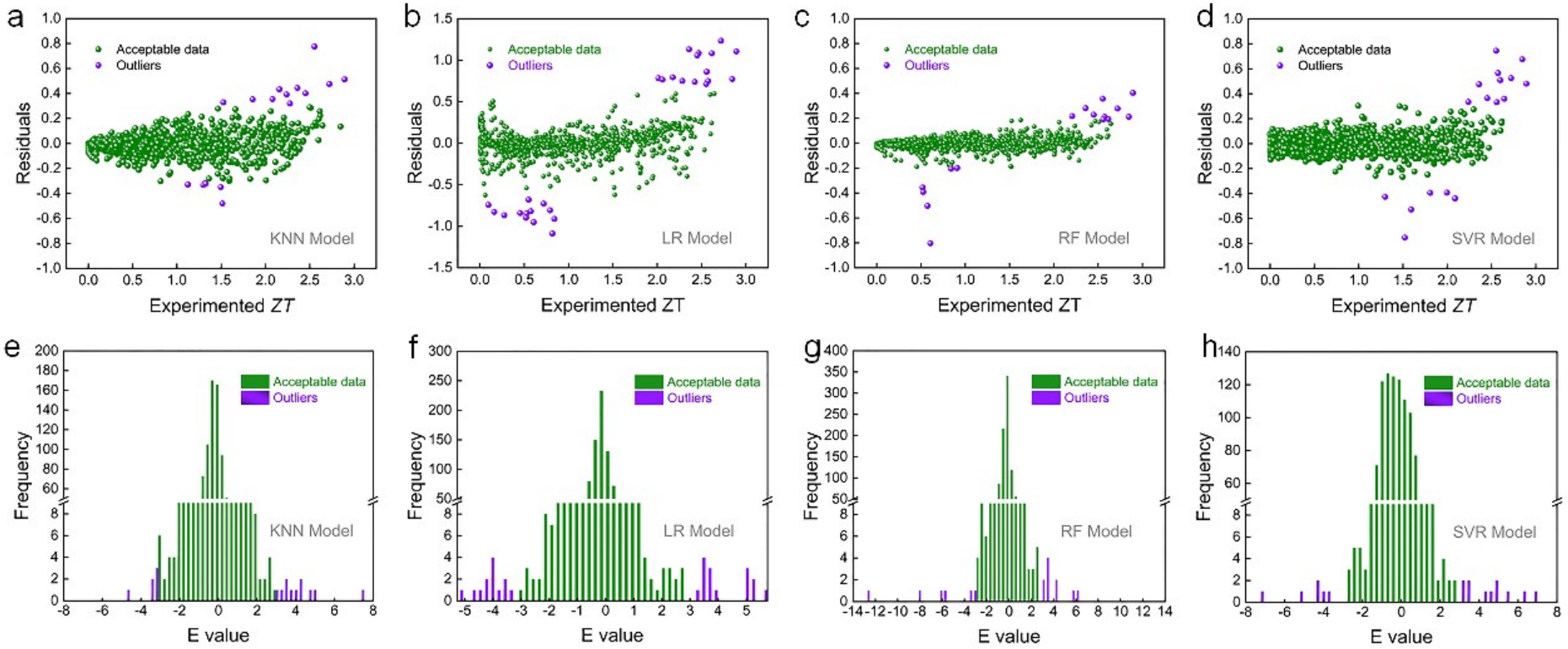

Fig. S1. Residual distributions based on the four regression models KNN, LR, RF, and SVR. (a-d) Residual error of accepted data and outliers. (e-h) Distribution of *E* values for outlier and accepted data.

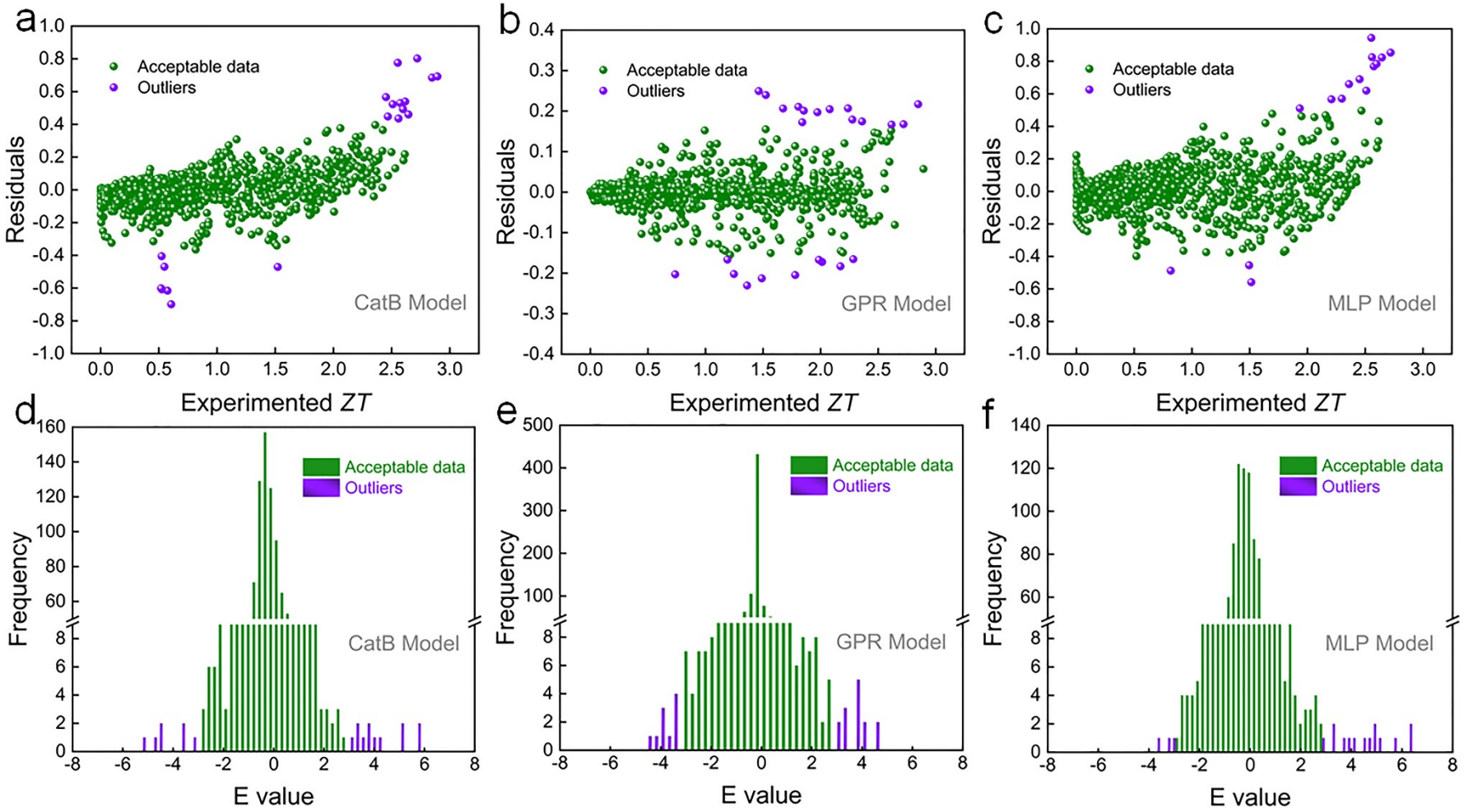

Fig. S2. Residual distributions based on the four regression models CatB, GPR, and MLP. (a-c) Residual error of accepted data and outliers. (d-f) Distribution of *E* values for outlier and accepted data.

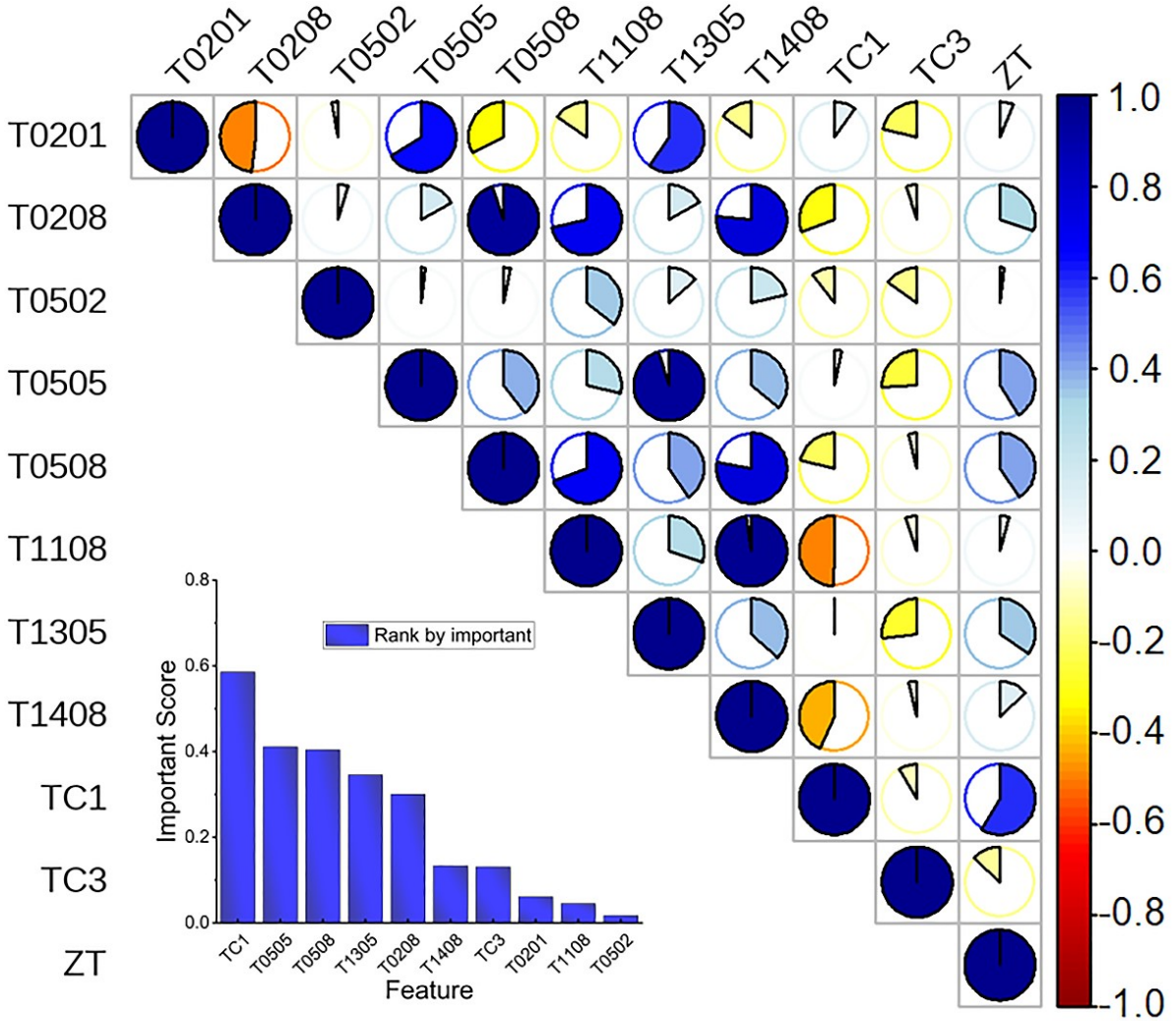
T0201
T0208
T0502
T0505
T0508
T1108
T1305
T1408
TC1
TC3
ZT
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
Rank by important
Important Score
Feature
TC1
T0505
T0508
T1305
T0208
T1408
TC3
T0201
T1108
T0502

Fig. S3. Pearson correlation coefficient matrix between features and target *ZT* value filtered by RFE method based on XGB model.

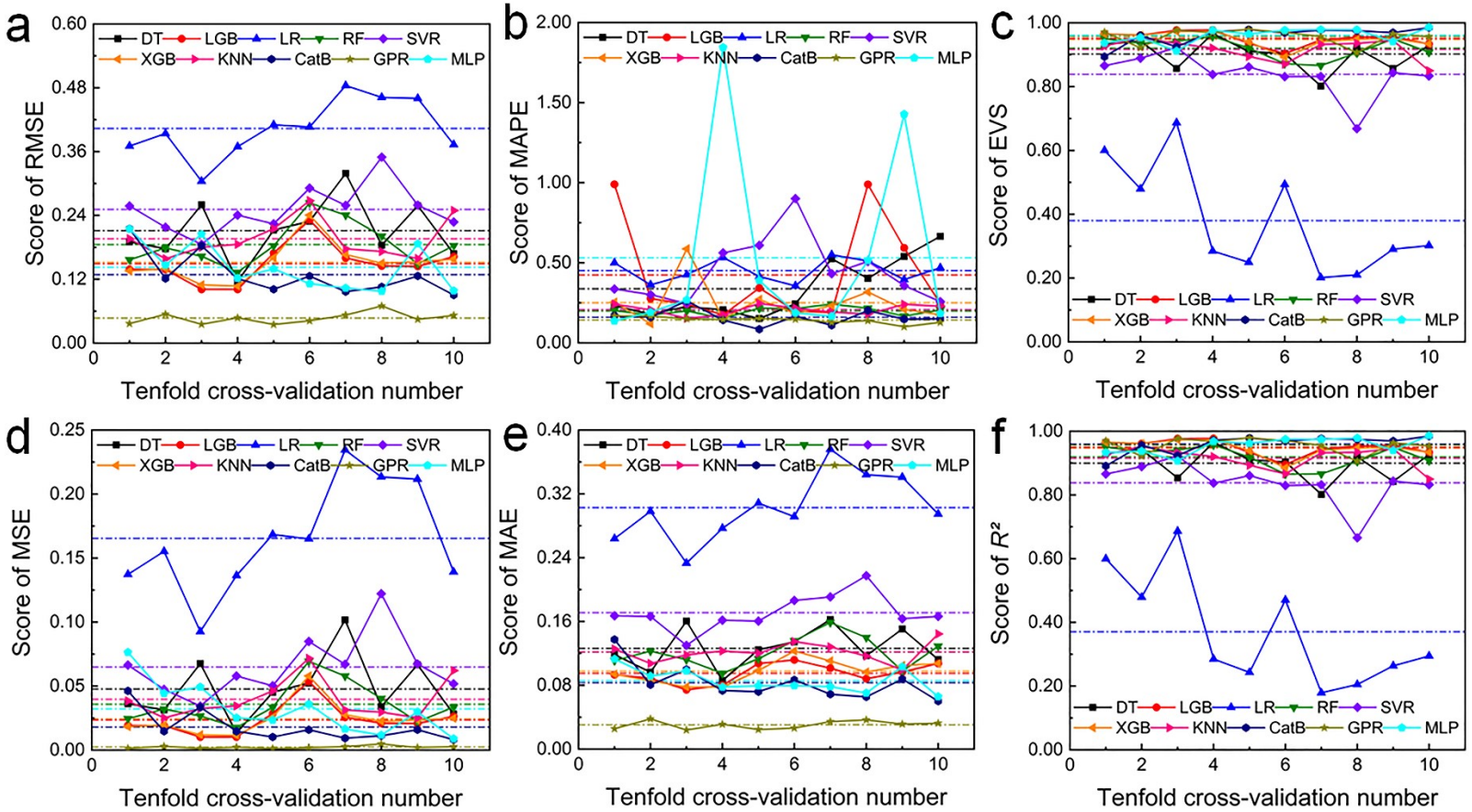

Fig. S4. (a) The root mean squared error (RMSE). (b) The mean absolute percentage error (MAPE). (c) The explained variance score (EVS). (d) The mean squared error (MSE). (e) The mean absolute error (MAE). (f) The coefficient of determination (R^2). Inset: DT denotes Decision Tree, LGB denotes LightGBM, LR denotes Linear Regression, RF denotes Random Forest, SVR denotes Support Vector Regression, XGB denotes eXtreme Gradient Boosting, KNN denotes K-Nearest Neighbors, CatB denotes CatBoost, GPR denotes Gaussian Process Regression, and MLP denotes Multilayer Perceptron.

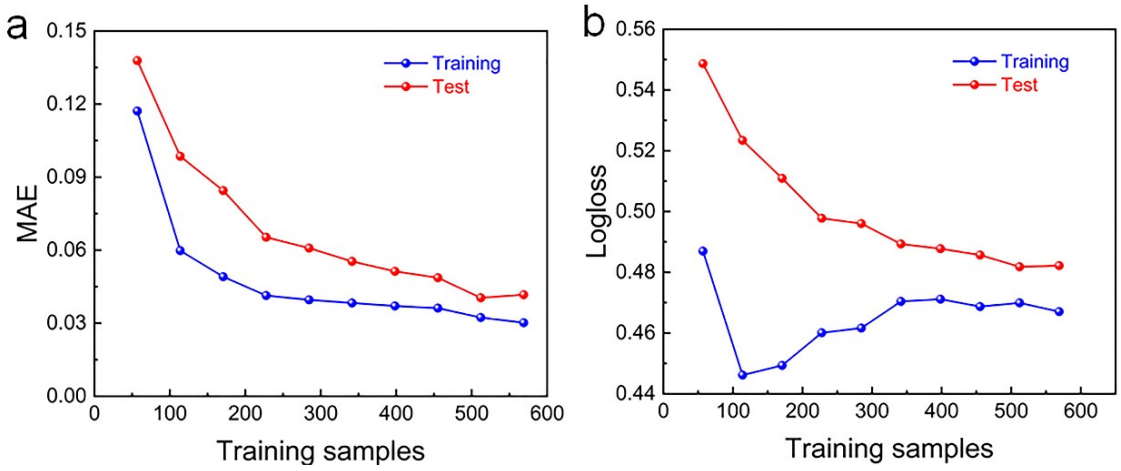

Fig. S5. Two Learning Curve Indicators for the XGB Model.

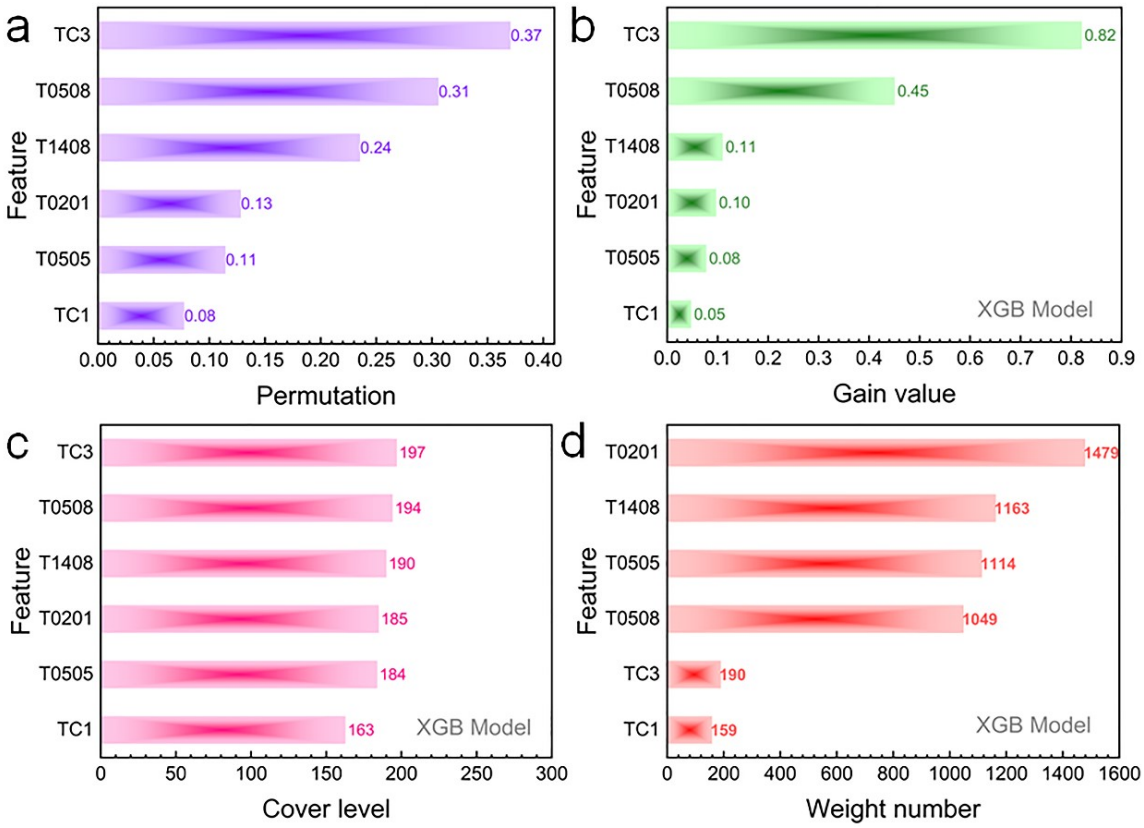

Fig. S6. Feature importance scores obtained by four methods: (a) Replacement method, (b) Gain method, (c) Coverage value, and (d) Number of weights.

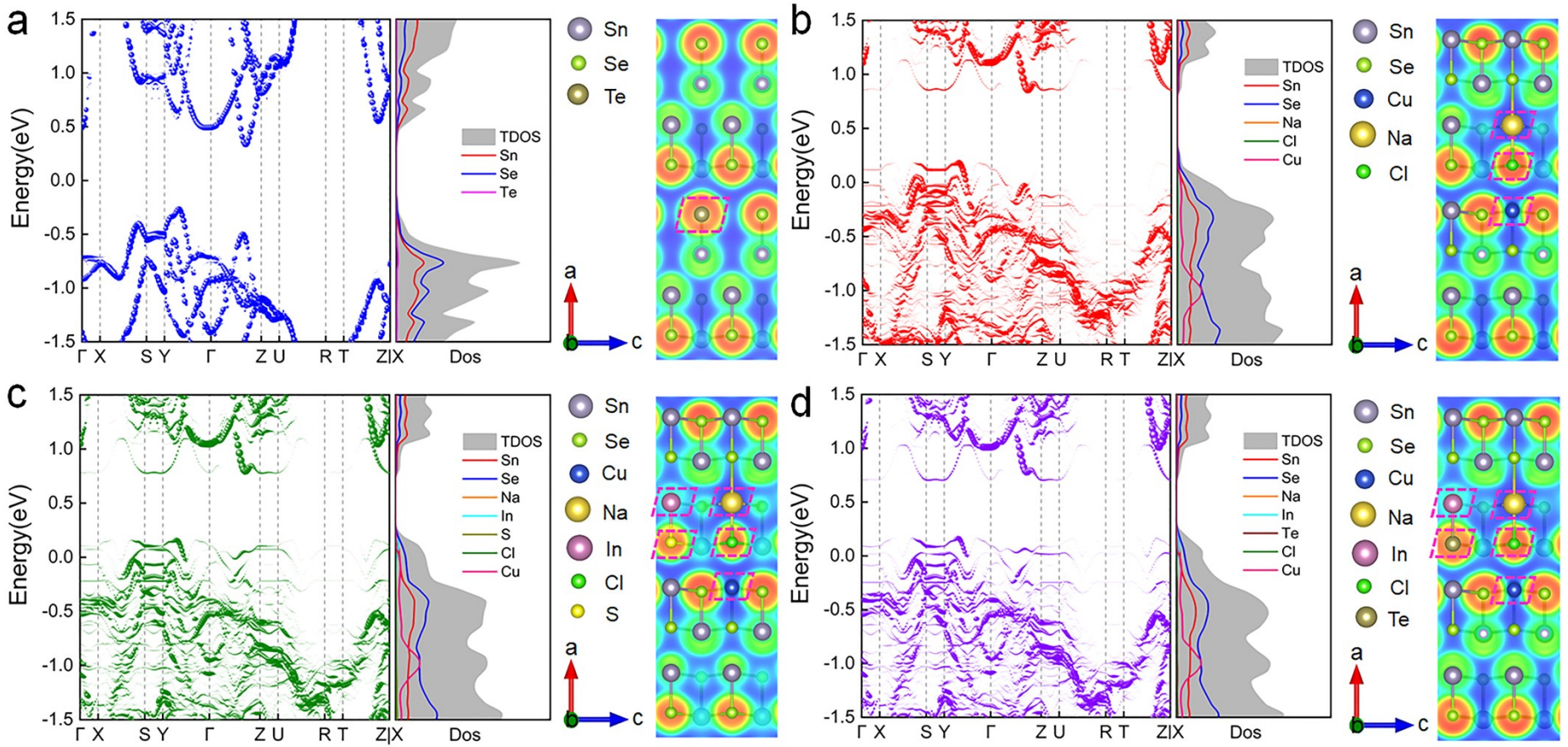

Fig. S7. Anti-folding electronic band structure, projected density of states (PDOS) and electron localization function (ELF) of SnSe-based materials along (010) plane: (a) Pb-doped SnSe and (b) Te-doped SnSe.

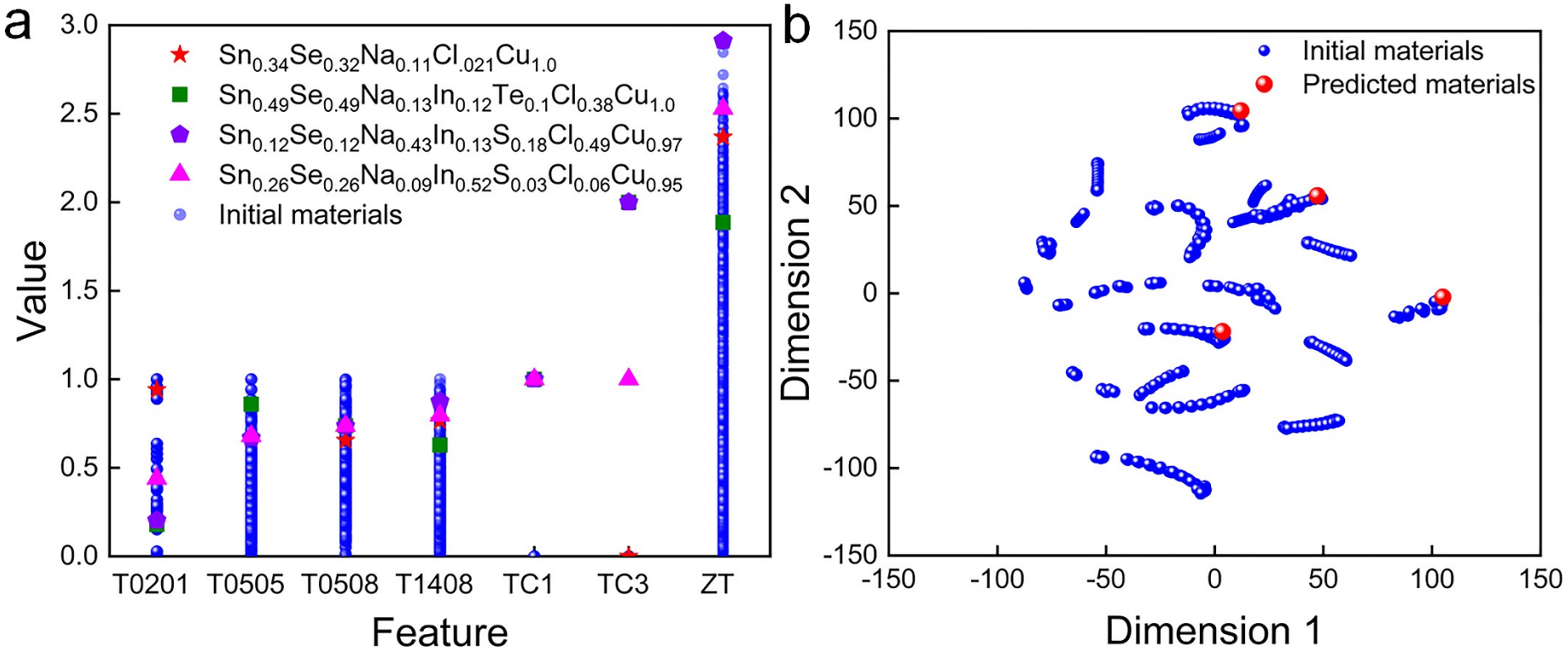

Fig. S8. (a) The distribution of eigenvalues and *ZT* values of new materials predicted by the model. (b) T-SNE plot.

Section III. Methodology

Feature selection

243 features were initially screened using the recursive feature elimination (RFE)[14] method combined with cross-validation, and the number of features corresponding to the highest R^2_{just} score was selected. When selecting the number of features, an excessive number of features could lead to redundant computational overhead. An excess of features had the potential to complicate the model, causing it to capture noise within the data rather than the true underlying patterns. In such cases, the model might demonstrate high performance on the training set but poor performance on the test set, due to overfitting to the training data. Additionally, the high-dimensional feature space might result in an increase in the number of model parameters, thereby elevating the model's complexity and reducing its interpretability. Conversely, an insufficient number of features might result in the loss of critical information about the data, resulting in suboptimal model performance due to the inability to capture the underlying structures within the data. The RFE method automatically identified the most relevant subset of features by recursively training the model and eliminating the least significant features, thereby mitigating the subjectivity associated with manual feature selection. Reducing the number of features concomitantly decreased the model's complexity of the model, facilitating easier analysis and interpretation, and enabling the determination of the most significant features for prediction. RFE recursively trained the model and eliminated the least important features, ultimately selecting the most effective subset of features, which reduced computational resource consumption and shortened the model's training time, thereby enhancing overall model performance. The Pearson correlation coefficient method[15] was then applied to further filter the features, retaining the most important ones for subsequent prediction of TE materials.

Construction of machine models.

In ML regression problems, data mining was used to discover the mapping relationship between feature variables and target variables to enable the prediction of continuous values. These tasks could be linear or non-linear, depending on the specific problem to be solved and the algorithm utilized. In general, different ML models exhibited varying fitting performances on different datasets, even for the same type of problem.

Therefore, in the field of materials informatics, it was necessary to identify the best predictive model by comparing the accuracy of different ML models. In this study, ten ML models were constructed, namely LightGBM (LGB),[16] Random Forest (RF),[17] XGBoost (XGB),[18] Support Vector Regression (SVR),[19] Linear Regression (LR),[20] K-Nearest Neighbors (KNN),[21] Decision Tree (DT),[22] CatBoost (CatB),[23] Gaussian Process Regression (GPR),[24] and Multilayer Perceptron (MLP).[25] The dataset was partitioned into 80% training set, 20% validation set, and 20% test set. The optimal ML model was identified by comparing the values of RMSE, MSE, MAE, MAPE, EVS, and R^2 on the test set.

XGB was an ensemble learning method based on the Gradient Boosting algorithm. It constructed a powerful predictive model by combining multiple weak classifiers, typically decision trees. LGB was a gradient boosting framework developed by Microsoft. Compared to XGB, LGB was trained using a histogram-based algorithm, which enabled more efficient handling of large-scale data and sparse datasets. RF was an ensemble learning method, based on decision trees. It produced the final prediction by constructing multiple decision trees and aggregating their outputs through voting or averaging at each prediction. Model overfitting was mitigated by randomly sampling the training data and randomly selecting features during training. KNN was a non-parametric classification and regression tasks. The fundamental principle was to identify the most similar K neighbors by calculating distances (e.g., Euclidean distances) between the samples, and then make predictions based on the information of these neighbors. KNN did not rely on distributional assumptions of the data and was therefore highly flexible. DT was a common supervised learning model that progressively partitioned the data into different classes or values by splitting the features. Linear regression was a fundamental regression analysis method that assumed a linear relationship between the target variable and the input features. An optimal regression model was constructed by minimizing the difference between predicted and actual values. SVR was a regression variant of Support Vector Machines (SVMs) designed to fit data by finding an optimal hyperplane.

XGB and LGB were well-suited for large-scale, complex datasets, and were particularly effective when there were nonlinear relationships between features. RF and DT were more suitable for problems that required interpretability and could provide valuable insights into feature selection. KNN was ideal for small datasets or situations where the data distribution was not well-defined, but it became computationally

expensive for large-scale datasets. LR performed exceptionally well when the relationships between variables were simple and linear and was highly computationally efficient. SVR was well-suited for nonlinear regression problems and was particularly advantageous when handling high-dimensional feature spaces. SVR was well-suited for nonlinear regression problems and was particularly advantageous when handling high-dimensional feature spaces. CatB was an effective model for datasets with a large number of categorical features and complex non-linear relationships, excelling in handling categorical variables. However, it often required a significant investment of time to identify the optimal configuration for hyperparameter tuning. GPR was an effective model for smaller datasets exhibiting strong smoothing or continuity, and was particularly adept at modeling uncertainty. However, it exhibited high computational complexity, especially with larger datasets. Increased computational complexity, particularly when dealing with large datasets, could lead to slower training and prediction speeds. MLP was a deep learning model was designed for large-scale, complex, nonlinear datasets, especially when there was a high degree of nonlinear relationship between the features. However, it required extensive feature normalization and preprocessing; otherwise, it could result in unstable training. Additionally, parameter tuning for this model was highly complex, demanding significant experimental and computational resources.

Model training and Evaluation

To ascertain the most suitable model from the seven ML algorithms, it was essential to employ an evaluation method. The k-fold cross-validation method[26] was considered to be one of the most robust and preferred methods for evaluating the prediction accuracy of ML models. This method employed a fixed random seed to randomly partition the entire training dataset into k training and validation sets. Subsequent to the split, for each fold, k-1 folds of data were utilized for training and the remaining fold was employed to validate the model. This iterative process ensured that each subset selected for validation was distinct, and the remaining data was utilized for training. In the present study, due to the considerable size of the dataset, the value of k was set to 10. The ten-fold cross-validation method involved selecting a unique set of values from the validation set after ten iterations of training and validation. This approach proved effective in reducing evaluation bias that might have been introduced by uneven data division or randomness. Throughout the dataset, features selected using feature

selection methods were employed to evaluate the model for the k-fold cross-validation method[27]:

Mean Squared Error (MSE):

$$\mathrm{MSE} = \frac{1}{\mathrm{n}} \sum_{\mathrm{i}=1}^{\mathrm{n}} \left(\mathrm{y_i} - \hat{\mathrm{y}}_\mathrm{i} \right)^2 \tag{2}$$

Root Mean Squared Error (RMSE):

$$\mathrm{RMSE} = \sqrt{\frac{1}{\mathrm{n}} \sum_{\mathrm{i}=1}^{\mathrm{n}} \left(\mathrm{y_i} - \hat{\mathrm{y}}_\mathrm{i} \right)^2} \tag{3}$$

Mean Absolute Error (MAE):

$$\mathrm{MAE} = \frac{1}{\mathrm{n}} \sum_{\mathrm{i}=1}^{\mathrm{n}} \left| (\mathrm{y_i} - \hat{\mathrm{y}}_\mathrm{i}) \right| \tag{4}$$

Mean Absolute Percentage Error (MAPE):

$$\mathrm{MAPE} = \frac{\sum_{\mathrm{i}=1}^{\mathrm{n}} \left| \frac{\mathrm{y_i} - \hat{\mathrm{y}}_\mathrm{i}}{\mathrm{y_i}} \right|}{\mathrm{n}} \times 100\% \tag{5}$$

Explained Variance Score (EVS):

$$\mathrm{EVS} = 1 - \frac{\sum_{\mathrm{i}=1}^{\mathrm{n}} (\hat{\mathrm{y}}_\mathrm{i} - \overline{\mathrm{y}})^2 / \mathrm{n}}{\sum_{\mathrm{i}=1}^{\mathrm{n}} (\mathrm{y_i} - \overline{\mathrm{y}})^2 / \mathrm{n}} \tag{6}$$

Coefficient of determination (R^2):

$$R^2 = 1 - \frac{\sum_{i=1}^{n} \left(\hat{y}_i - y_i \right)^2}{\sum_{i=1}^{n} \left(\overline{y}_i - y_i \right)^2} \tag{7}$$

where n, y_i, $\hat{y}_i$ and $\overline{y}_i$ represent the number of samples, actual value of the sample, model output value of the sample and actual mean value of the sample, respectively.

The RMSE was a statistical metric used to assess the discrepancy between the predicted values of a model and the actual values observed in the dataset. MSE was a common measure of model prediction error, which amplified the effect of large errors by squaring them. This meant that the model was penalized more for larger errors. MAE directly reflected the average prediction error of the model in the same units as the data itself. MAPE provided a measure of error expressed as a percentage and was commonly used to make quantitative comparisons of the model's errors. The smaller the values of

RMSE, MSE, MAE, and MAPE, the more predictive and generalizable the model was. The R^2 metric was used to evaluate the regression model. Unlike other metrics, it accounted for the degree of correlation between the final features of the model and the target variable (in this case, the *ZT* value). The larger the value of R^2, the better the model was able to learn. EVS was similar to R^2 and measured the proportion of variance that was explained by the model. The closer the value was to 1, the better the model explained the variance; the closer it was to 0, the less variance the model explained. Based on RMSE, MSE, MAE, MAPE, EVS and R^2, the optimal values for the ideal model were 0, 0, 0, 0, 1 and 1, respectively. It was noteworthy that R^2 could take negative values, which indicated that the model was worse than the baseline model (usually a simple mean model).

Model interpretation

The application of ML methods to material property prediction had been shown to significantly accelerate the process. Nevertheless, the underlying mechanisms of these methods were often considered opaque, hindering the observation of latent relationships between inputs and outputs. In addressing this challenge, Jas proposed the application of Shapley values for the interpretation of ML models.[28] This approach enhanced model transparency by quantifying the contribution of each feature to a specific prediction.

The SHAP method provided a comprehensive understanding of the rationale behind a model's prediction by assigning a contribution value for each feature and highlighting those features that exerted a substantial influence on the prediction. Conventional models (e.g. linear regression) generally presupposed a linear relationship between features and the target variable; however, in materials prediction, there could be intricate non-linear relationships between numerous physical properties and material properties. SHAP could manage these complex relationships and unveiled the interactive effects between features. Through the calculation of the contribution of each feature to the model output, SHAP assisted in the identification of the features that were most significant for prediction. This was particularly beneficial in materials prediction, as it helped researchers in filtering out key material properties or synthesis conditions, thereby reducing interference from irrelevant features and enhancing model efficiency and accuracy. Additionally, it addressed the 'black box' problem prevalent in many machine learning models (e.g., RF, XGB, etc.), which, despite their accuracy,

were often regarded as 'black box' models due to the opaque nature of their decision-making processes. This was due to the fact that the decision-making process of these models was not easily understood. The present study aimed to address this issue by explaining the prediction process of complex models, thereby eliminating users' distrust of the models. This was especially important in high-risk fields such as materials science, where transparency and interpretability were crucial for the practical application of the models.

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