

# Predicting Two-Dimensional Semiconductors

## Using Conductivity Effective Mass -

### Supplementary Information

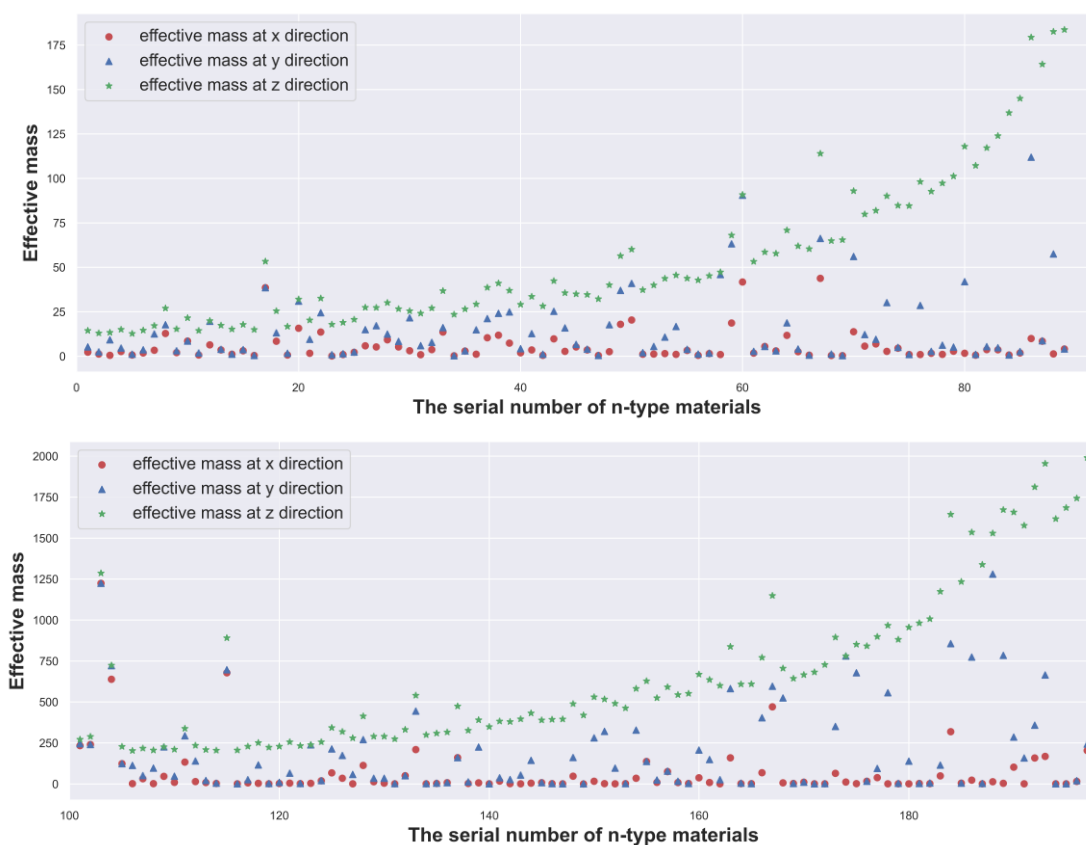


Figure S1 The effective mass distribution in the three crystallographic directions for a sample of materials shown in Figure 5-b of the main text. 186 materials were selected for display using an interval sampling method for the 904 materials with conductivity effective mass less than 2000. 0-100 are displayed in the top panel and 100-186 are displayed in the bottom panel. Please not the large difference in the y axis for the top and bottom plots.

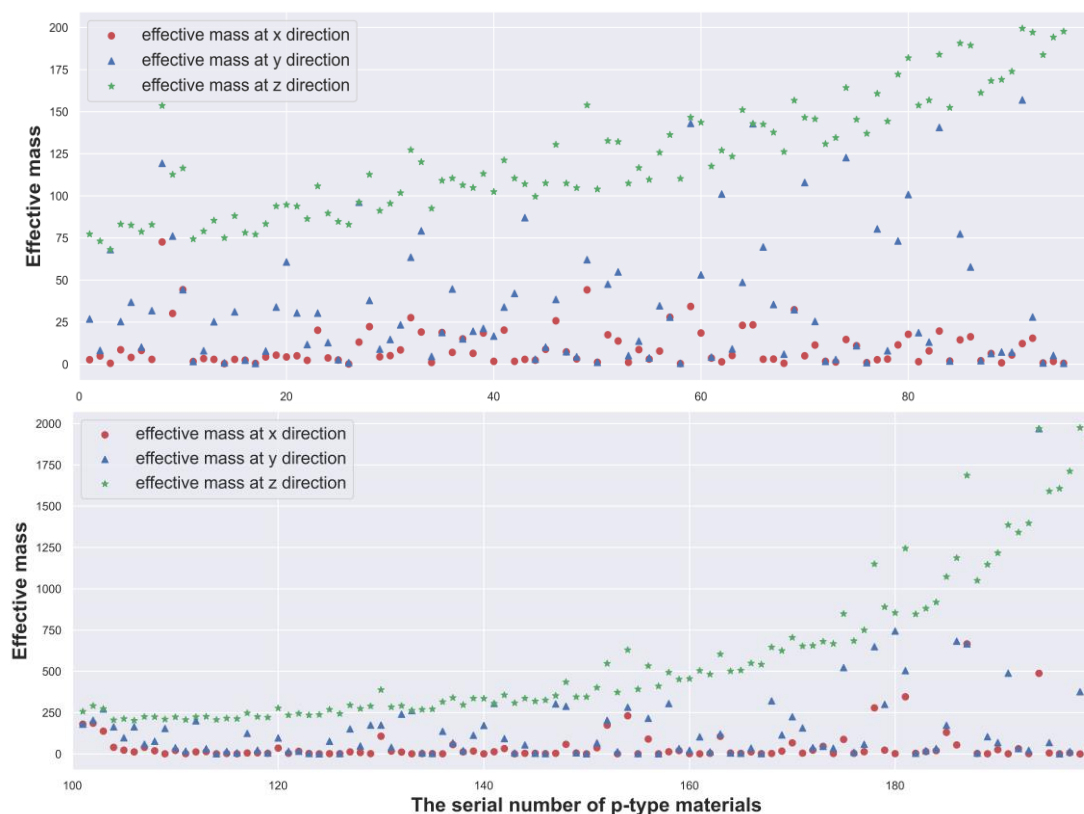
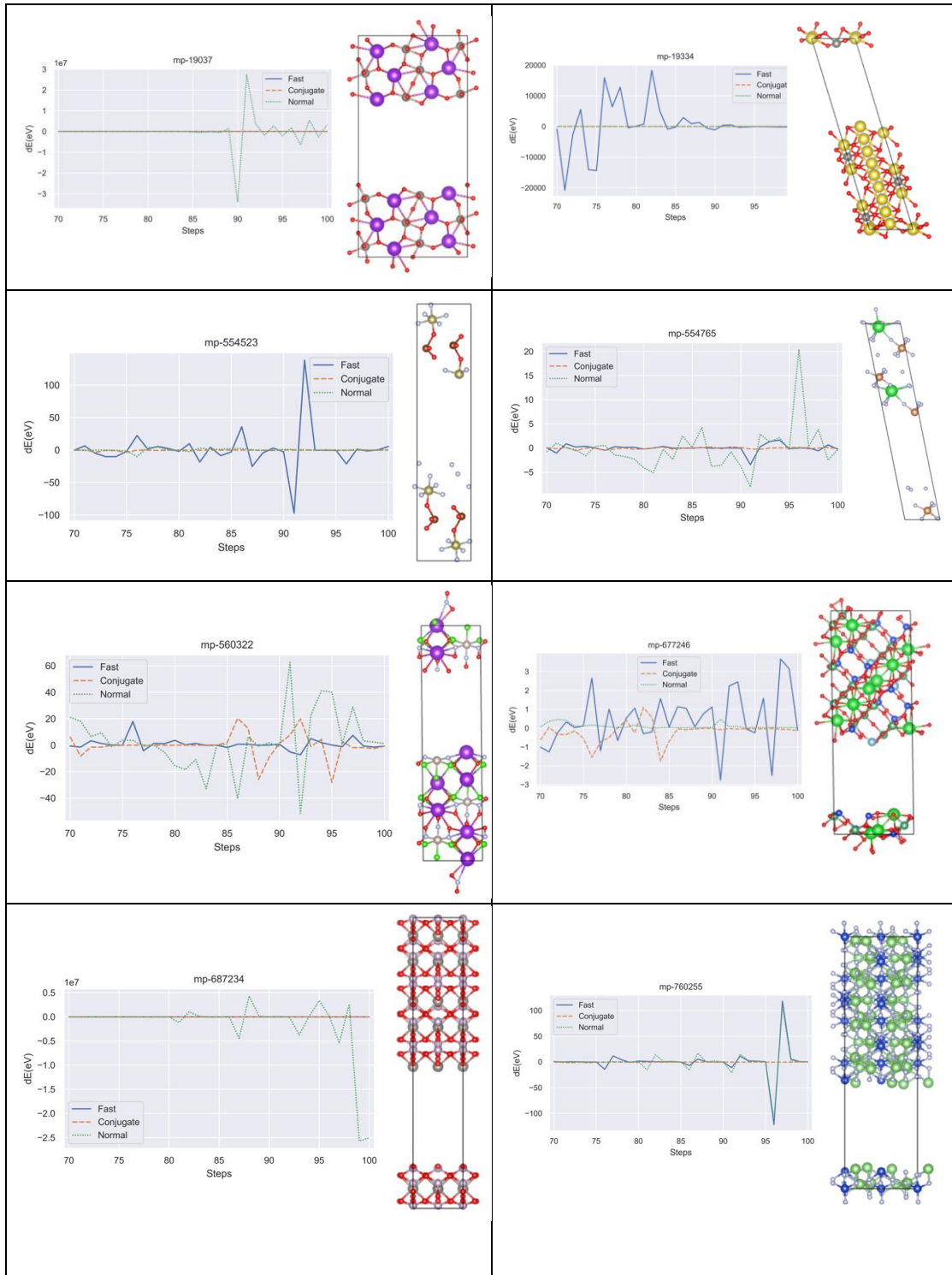


Figure S2 The effective mass distributions in the three crystallographic directions for a sample of materials shown in Figure 5-d of the main text. 194 materials were selected for display using an interval sampling method for the 867 materials with conductivity effective mass less than 2000. 0-100 are displayed in the top panel and 100-194 are displayed in the bottom panel. Please not the large difference in the y axis for the top and bottom plots.

When performing structural optimization and static calculations for a thousand candidate materials of each type  $p$  and  $n$ , we found that including the spin polarization of electrons made convergence difficult for a significant portion of the materials and so were omitted. For the choice of algorithms, Fast, Conjugate and Normal algorithms were employed sequentially to converge the structure. However, some materials still failed to reach the convergence criteria, and the convergence of the energy of  $p$ - and  $n$ -type materials at the level of PBE functional as well as the level of PBE-vdW functional calculation, respectively, is shown in the Figures S3 to S6.



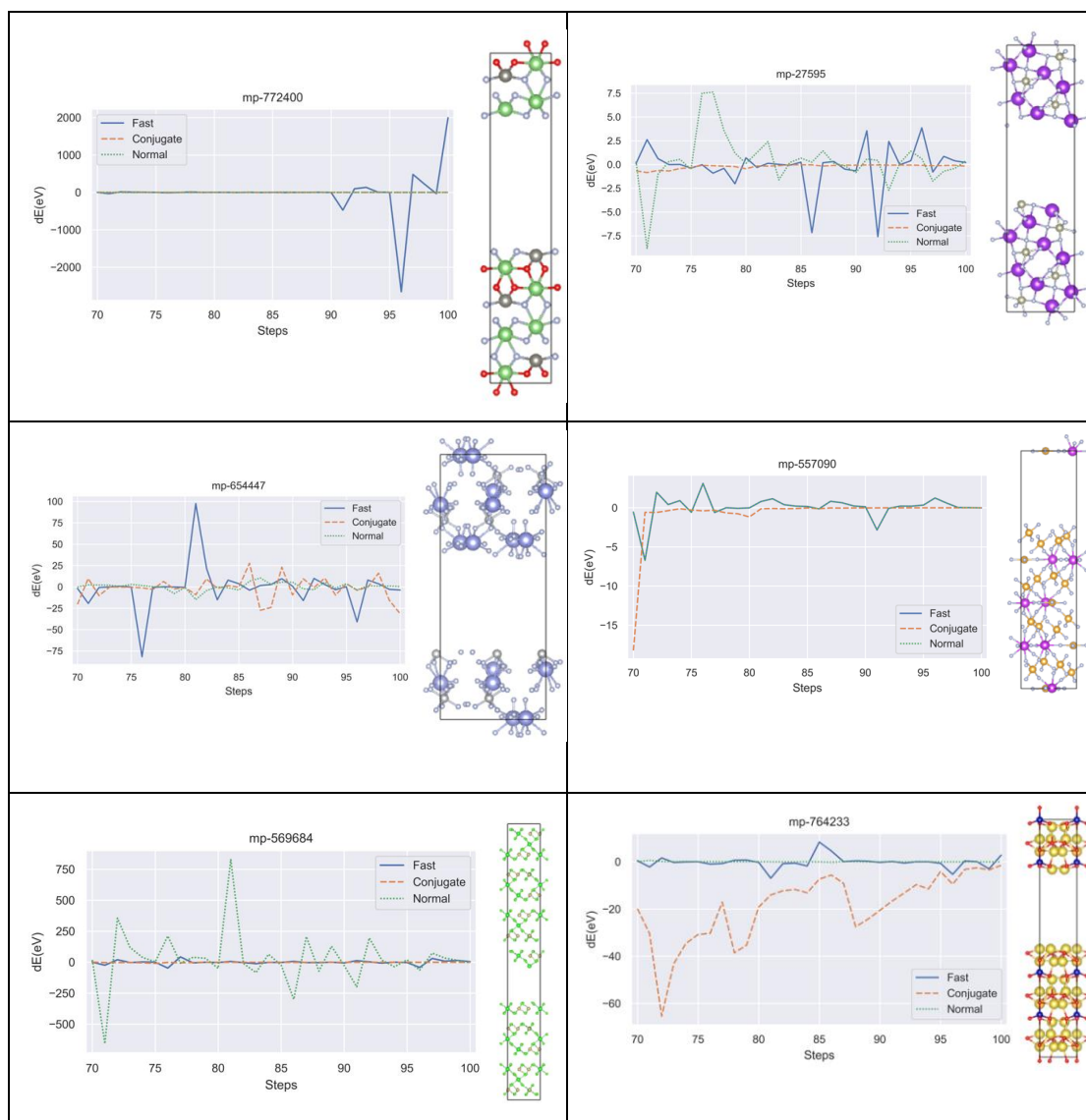
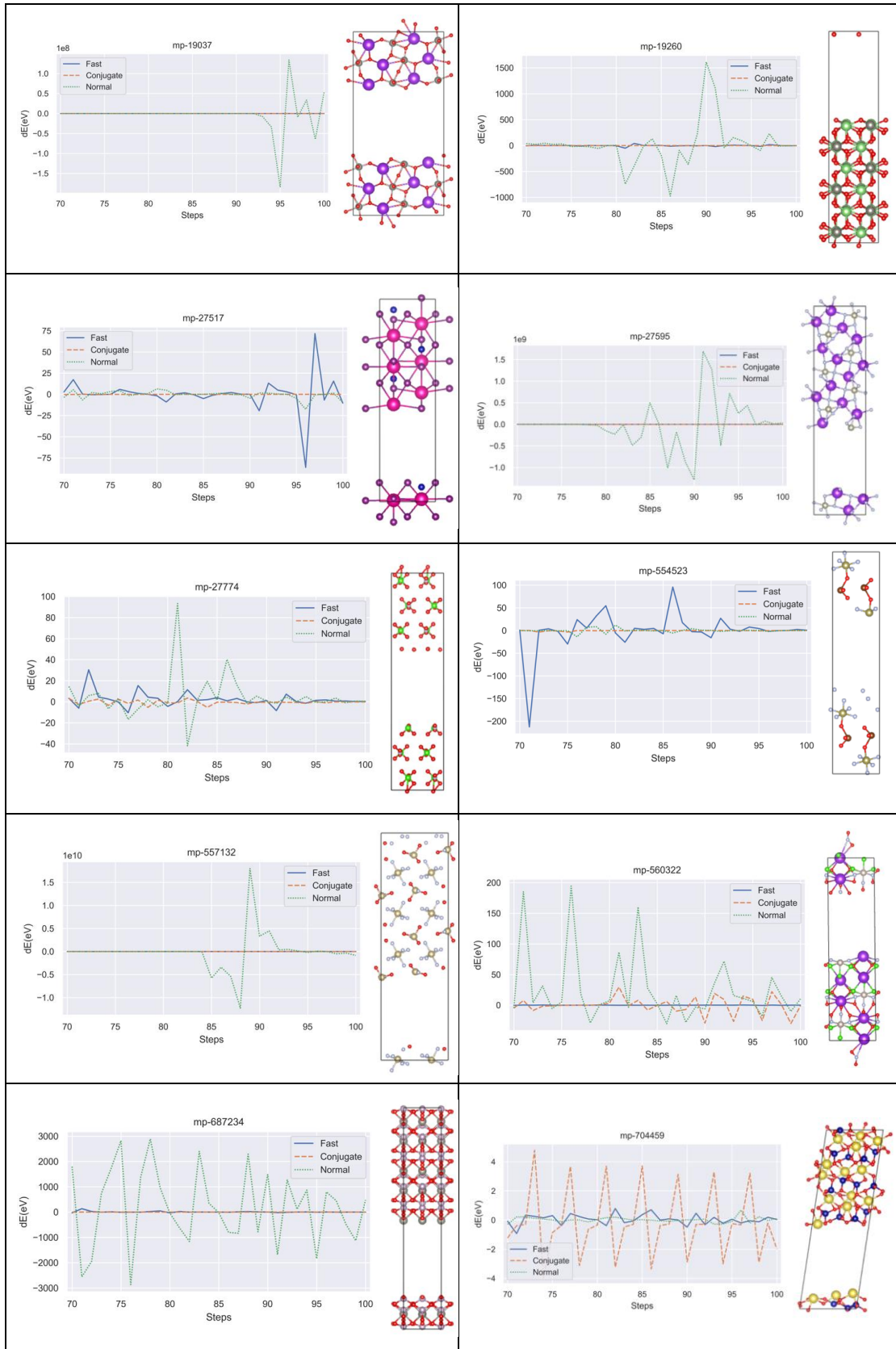


Figure S3 Diagrams depicting the change in energy (dE) during the relaxation of the p-type materials that failed to converge at the PBE level. The horizontal axis of the graph depicts the number of calculation steps and the colours represent the algorithms used during the calculation. The title of each graph is the Materials Project ID number. On the right side, the structure of the slab configuration is shown.



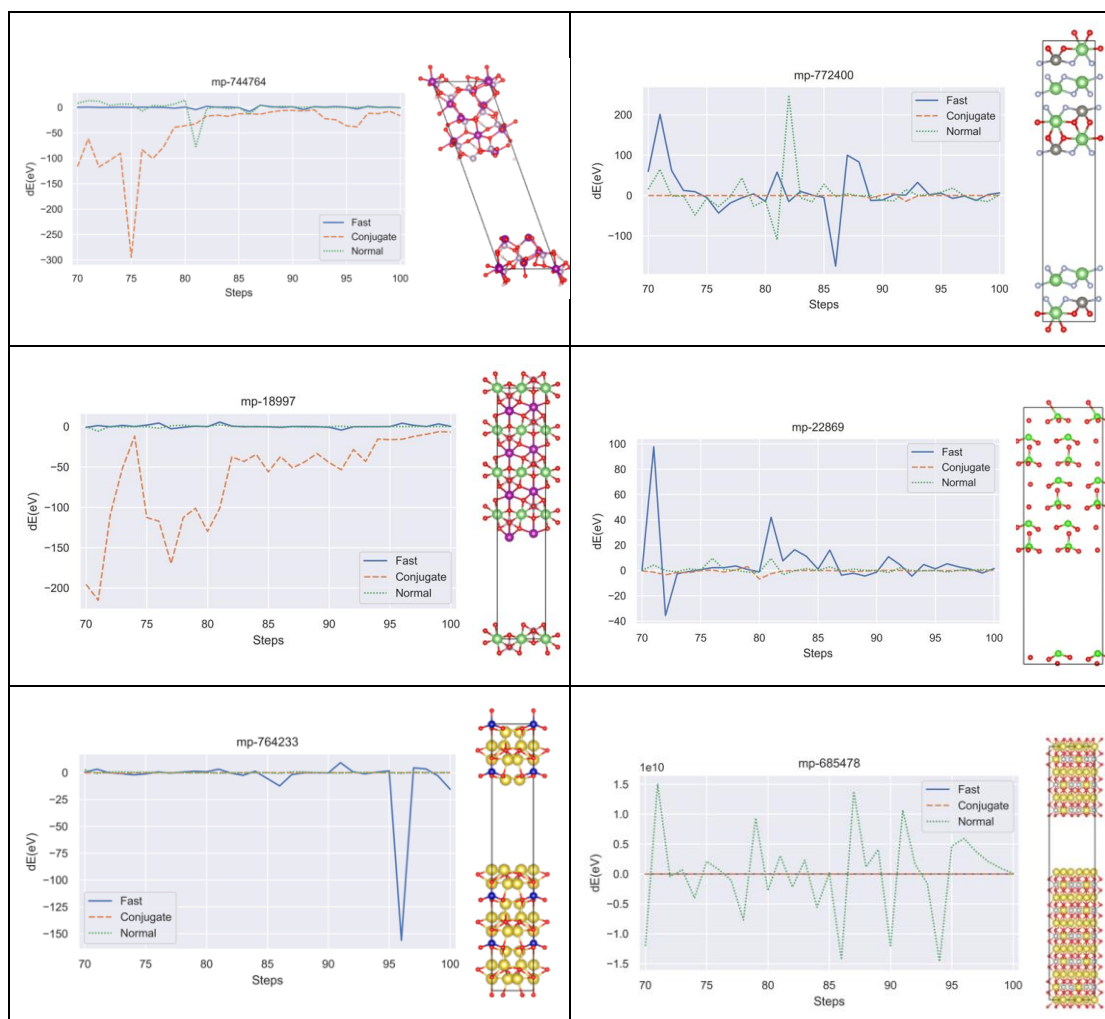


Figure S4 Diagrams depicting the change in energy ( $dE$ ) during the relaxation of the n-type materials that failed to converge at the PBE level. The horizontal axis of the graph depicts the number of calculation steps and the colours represent the algorithms used during the calculation. The title of each graph is the Materials Project ID number. On the right side, the structure of the slab configuration is shown.



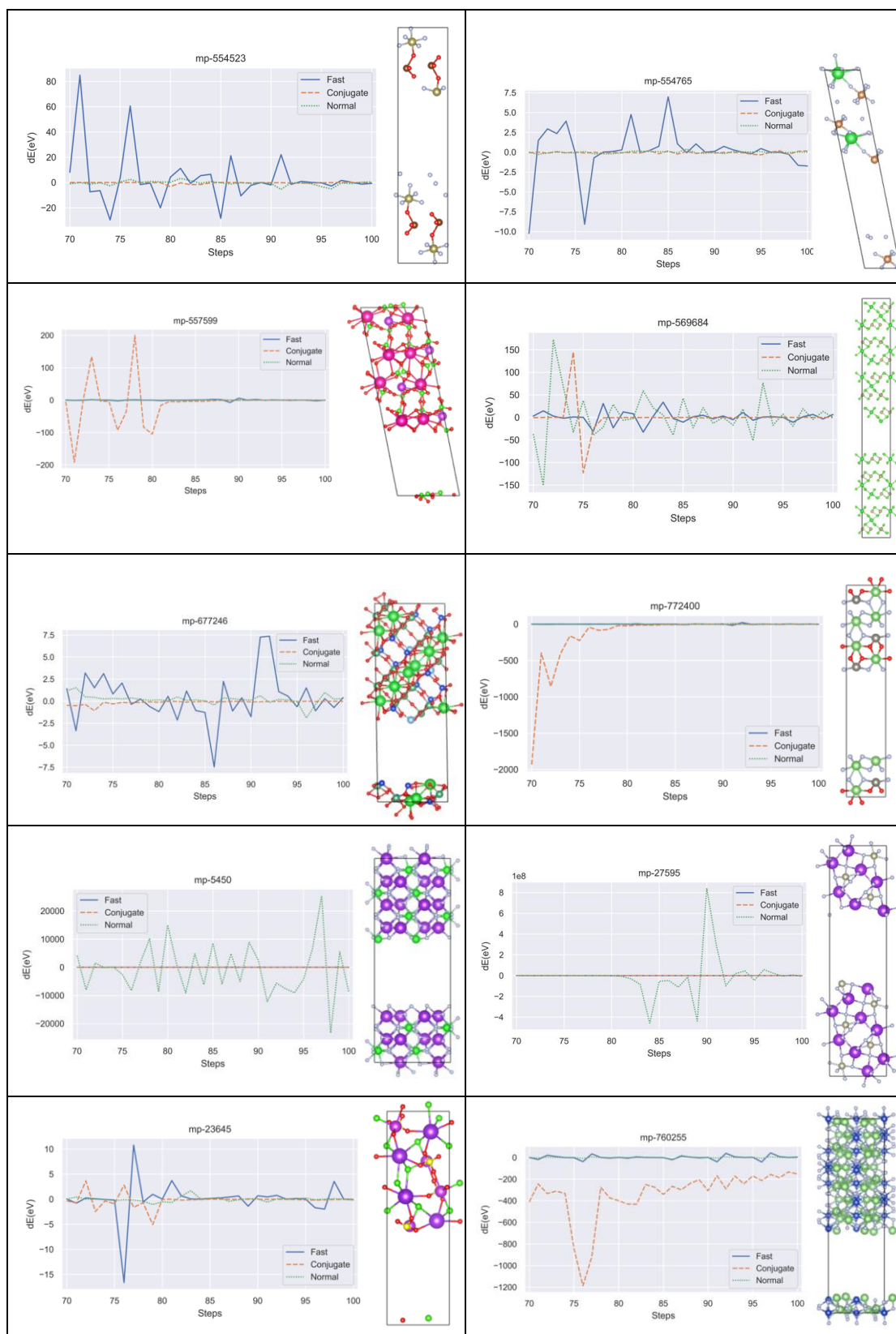
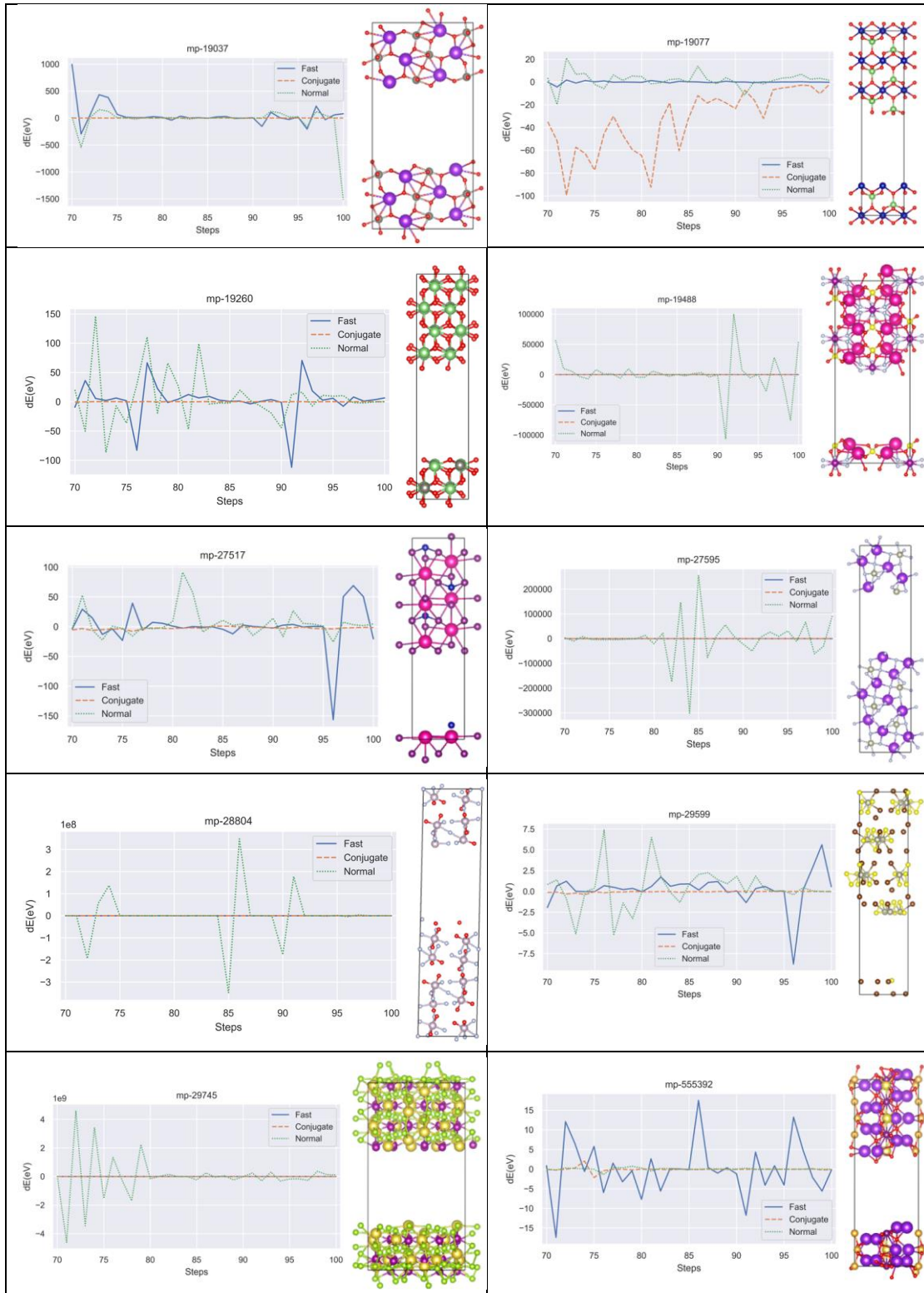


Figure S5 Diagrams depicting the change in energy (dE) during the relaxation of the p-type materials that failed to converge at the PBE+vdW level. The horizontal axis of the graph depicts the number of calculation steps and the colours represent the algorithms used during the calculation. The title of each graph is the Materials Project ID number. On the right side, the structure of the slab configuration is shown.





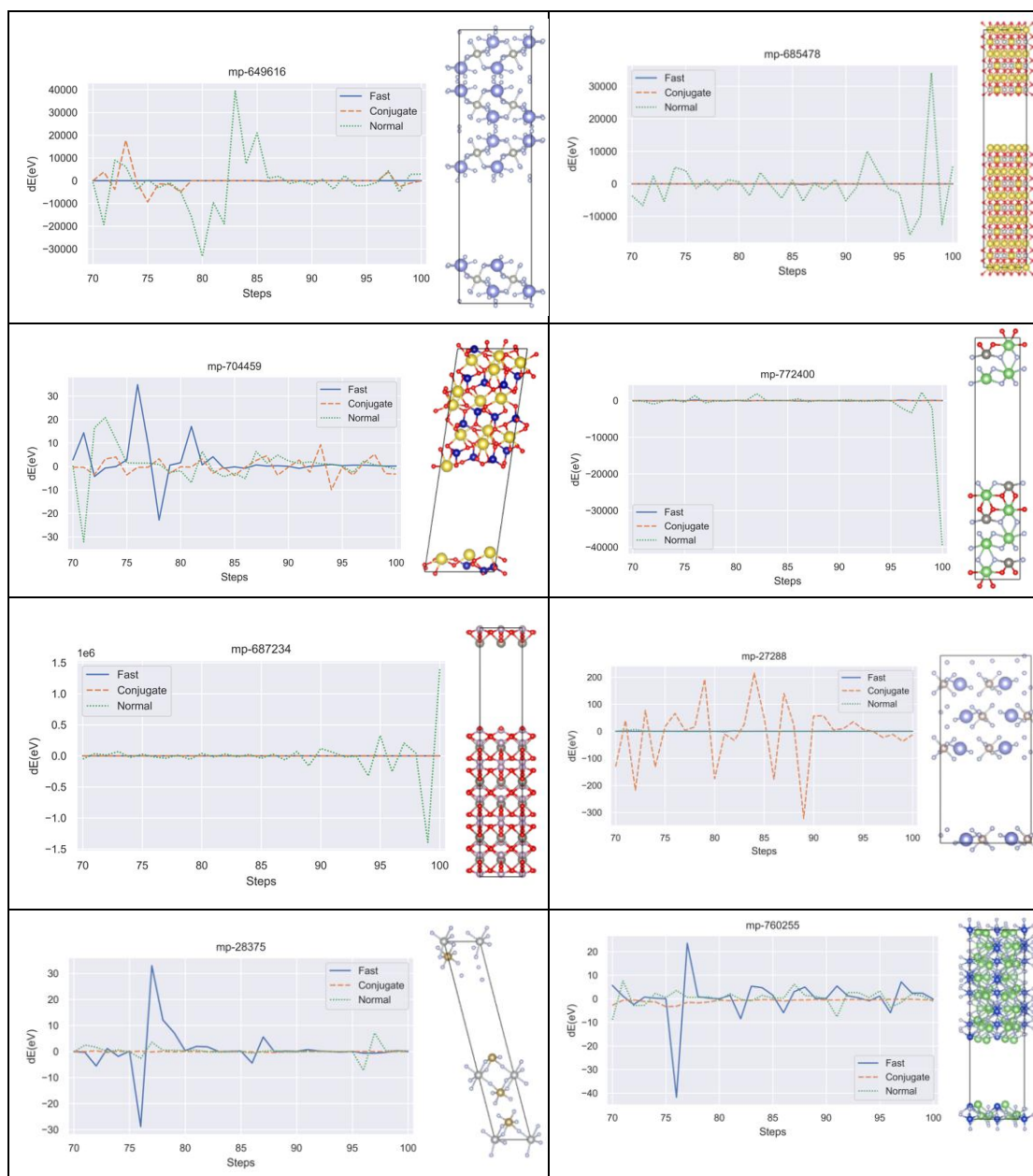


Figure S6 Diagrams depicting the change in energy (dE) during the relaxation of the n-type materials that failed to converge at the PBE+vdW level. The horizontal axis of the graph depicts the number of calculation steps and the colours represent the algorithms used during the calculation. The title of each graph is the Materials Project ID number. On the right side, the structure of the slab configuration is shown.

From the convergence process of the above materials, we can find that the energy change of most of the materials is haphazard, and the difference between the energy obtained from adjacent steps in the convergence process of some structures reaches outlandish extremes such as for mp-28804, mp-29745, mp-27595, mp-685478. There are some materials that have a gradual decrease in energy change during convergence, such as mp-560322, mp-27774, mp-554523, for which it is possible that they may converge eventually given enough calculation steps. However, some materials have been in a state of energy oscillation during the calculation

process and will likely never converge such as: mp-760255, mp-704459, mp-649616, mp-29745, mp-22869, mp-27774. Overall the cases of nonconvergence represent a very small minority of the data represented in this work.

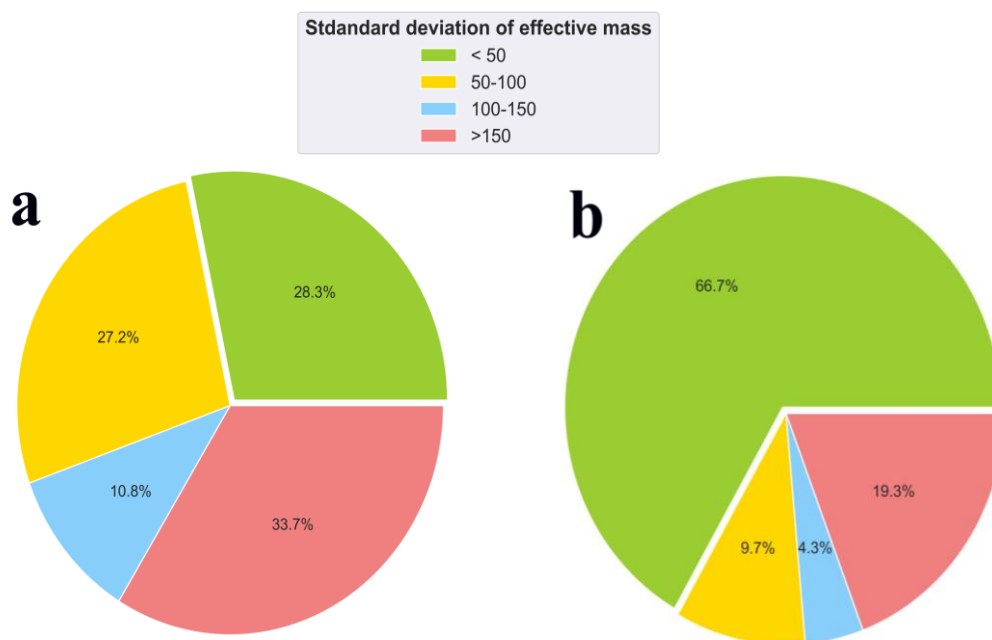


Figure S7: Interval distribution of conductivity effective mass standard deviation for (a) p-type and (b) n-type materials in Figure 5-d and -b of the main text.

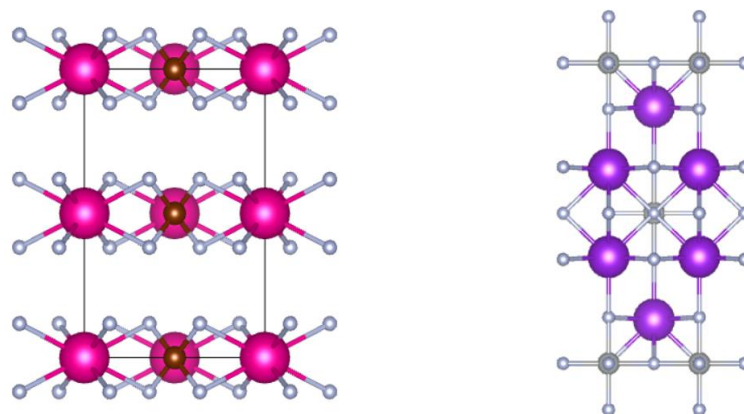


Figure S8: The schematic drawing of unit cell of the material with negative exfoliation. Left is mp-28577 with the chemical formula  $\text{RbBrF}_4$ , and the right is mp-556546, with the chemical formula  $\text{K}_2\text{NiF}_4$ .

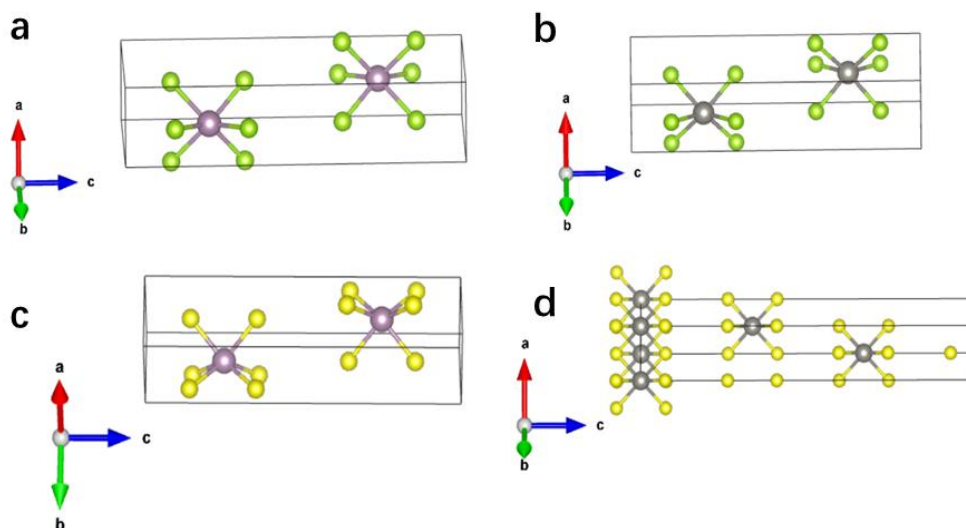


Figure S9 The atomic structure of a)  $\text{MoSe}_2$  b)  $\text{WSe}_2$  c)  $\text{MoS}_2$  and d)  $\text{WS}_2$ .

Table S1 Data for the results shown in Figure 5-b (n-type doping) along with Material Project ID (MPID) and chemical formula.

<b>MPID</b>	<b>Formula</b>	<b>Standard deviation of effective mass</b>	<b><math>E_f</math> (eV/ <math>\text{\AA}^2</math>)</b>
mp-556546	$K_2NiF_4$	1000	0.004
mp-28479	$Sc_2CCl_2$	37.377	0.011
mp-567441	HfIN	164.028	0.011
mp-29966	NOF	7.637	0.008
mp-505727	NCIO	45.887	0.007
mp-541911	HfNCl	47.249	0.016
mp-28233	$MnCl_2$	6.411	0.02
mp-552120	YClO	304.938	0.015
mp-27850	TiNCl	1000	0.015
mp-568592	ZrNCl	81.757	0.017
mp-546279	ScBrO	1000	0.014
mp-754031	YBrO	85.648	0.016
mp-27849	TiBrN	1000	0.016
mp-541912	ZrBrN	60.952	0.018
mp-30031	$CaI_2$	64.214	0.013
mp-643265	$ReF_7$	9.522	0.009
mp-568346	HfBrN	1000	0.015
mp-558928	$KrF_2$	8.825	0.011
mp-28306	$MnBr_2$	286.679	0.022
mp-23052	ZrIN	1000	0.017
mp-28257	$SOF_2$	9.03	0.007
mp-23184	$BCl_3$	5.267	0.009
mp-28013	$MnI_2$	84.792	0.024
mp-22987	BiIO	11.906	0.02
mp-554108	$LiRe(OF_2)_2$	309.02	0.014
mp-14653	$AgSb_2F_{12}$	104.41	0.013
mp-23072	BiBrO	6.077	0.022
mp-23309	$ScCl_3$	7.479	0.01
mp-23225	$BBr_3$	9.314	0.01
mp-23280	$AsCl_3$	12.579	0.011
mp-30103	$AuF_5$	90.227	0.009
mp-697133	$Cs_2CaH_4$	9.862	0.022
mp-28067	ThIN	24.438	0.027
mp-23189	$BI_3$	5.812	0.012
mp-573051	$ReO_3F$	7.545	0.012
mp-561317	$Rb_2NiF_4$	1000	0.03
mp-28099	SBr	12.025	0.017
mp-19167	$Rb_2NiO_2$	80.834	0.035

mp-29940	SbClF <sub>10</sub>	1000	0.012
mp-22978	Rb <sub>2</sub> MnCl <sub>4</sub>	1000	0.029
mp-560851	CsIOF <sub>4</sub>	30.547	0.017
mp-560449	K <sub>3</sub> Ni <sub>2</sub> F <sub>7</sub>	543.866	0.045
mp-30943	MgPSe <sub>3</sub>	55.675	0.021
mp-19252	K <sub>2</sub> NiO <sub>2</sub>	32.672	0.05
mp-8616	ScAg(PS <sub>3</sub> ) <sub>2</sub>	11.061	0.023
mp-30295	W <sub>6</sub> CCl <sub>18</sub>	47.448	0.01
mp-28938	Nb <sub>3</sub> TeCl <sub>7</sub>	9.572	0.019
mp-558725	Ba <sub>3</sub> Ru <sub>2</sub> Br <sub>2</sub> O <sub>9</sub>	35.562	0.027
mp-642795	PHSF <sub>2</sub>	5.391	0.021
mp-7148	K <sub>2</sub> SrTa <sub>2</sub> O <sub>7</sub>	1000	0.051
mp-27358	Se <sub>2</sub> O <sub>5</sub>	12.301	0.026
mp-29422	HfCl <sub>4</sub>	11.566	0.018
mp-23472	Re(AgCl <sub>3</sub> ) <sub>2</sub>	12.521	0.025
mp-8192	Rb <sub>2</sub> PtF <sub>6</sub>	414.351	0.03
mp-561379	GaRe(Cl <sub>3</sub> O) <sub>2</sub>	25.821	0.01
mp-10402	TiTi <sub>2</sub> F <sub>6</sub>	15.446	0.029
mp-7979	K <sub>2</sub> PdF <sub>6</sub>	36.232	0.034
mp-3821	K <sub>2</sub> PtF <sub>6</sub>	25.801	0.036
mp-27501	Cs <sub>2</sub> ThCl <sub>6</sub>	84.576	0.021
mp-30984	S(IO <sub>3</sub> ) <sub>2</sub>	5.617	0.015
mp-30977	B <sub>3</sub> H <sub>6</sub> Br	9.04	0.012
mp-27782	XeIF <sub>7</sub>	66.555	0.019
mp-28601	NbBr <sub>5</sub>	15.55	0.015
mp-29402	KGaI <sub>4</sub>	7.274	0.019
mp-3970	K <sub>2</sub> TiF <sub>6</sub>	16.734	0.042
mp-7824	K <sub>2</sub> ReF <sub>6</sub>	13.822	0.039
mp-555805	AlSCl <sub>7</sub>	26.41	0.031
mp-680059	Re <sub>3</sub> (SCl) <sub>7</sub>	389.736	0.016
mp-622197	Cs <sub>2</sub> PtS <sub>4</sub> (O <sub>3</sub> F) <sub>6</sub>	1000	0.017
mp-23076	Rb <sub>2</sub> CoCl <sub>4</sub>	384.623	0.02
mp-764233	Na <sub>4</sub> CoO <sub>6</sub>	26.061	0.039
mp-562569	CsPPbS <sub>4</sub>	30.236	0.031
mp-561011	Li <sub>2</sub> Ta <sub>2</sub> (OF <sub>2</sub> ) <sub>3</sub>	263.593	0.05
mp-624117	Cs <sub>3</sub> V <sub>4</sub> Te <sub>2</sub> ClO <sub>14</sub>	414.251	0.037
mp-29432	NaScCl <sub>4</sub>	26.034	0.036
mp-8720	Rb <sub>2</sub> MnTe <sub>2</sub>	11.563	0.029
mp-638009	RbPPbS <sub>4</sub>	15.74	0.035
mp-2865	K <sub>2</sub> CuF <sub>4</sub>	39.43	0.046
mp-9321	Ba <sub>2</sub> HfS <sub>4</sub>	52.806	0.063
mp-13985	Li <sub>2</sub> PdF <sub>6</sub>	302.332	0.07
mp-754128	Ba <sub>3</sub> Hf <sub>2</sub> O <sub>7</sub>	13.48	0.089



mp-18003	CsCuS <sub>4</sub>	40.912	0.034
mp-638150	KPPbS <sub>4</sub>	25.154	0.038
mp-556741	KNaThF <sub>6</sub>	145.108	0.046
mp-17095	CsCuSe <sub>4</sub>	46.414	0.032
mp-10322	BaHfN <sub>2</sub>	180.93	0.094
mp-8335	Ba <sub>2</sub> ZrO <sub>4</sub>	15.023	0.09
mp-3104	BaZrN <sub>2</sub>	111.406	0.093
mp-755895	Ba <sub>3</sub> Zr <sub>2</sub> O <sub>7</sub>	35.055	0.091
mp-9205	KSeO <sub>2</sub> F	22.678	0.06
mp-27389	KSb <sub>2</sub> F <sub>7</sub>	62.235	0.025
mp-8719	K <sub>2</sub> MnTe <sub>2</sub>	15.405	0.037
mp-559068	Na <sub>2</sub> Pd(SeO <sub>4</sub> ) <sub>2</sub>	23.203	0.059
mp-540584	K <sub>2</sub> PdO <sub>2</sub>	42.654	0.089
mp-18365	RbCuSe <sub>4</sub>	6.316	0.036
mp-5532	Sr <sub>2</sub> TiO <sub>4</sub>	1000	0.116
mp-3349	Sr <sub>3</sub> Ti <sub>2</sub> O <sub>7</sub>	185.856	0.115
mp-6560	KSO <sub>2</sub> F	45.937	0.066
mp-18996	TiV <sub>3</sub> O <sub>8</sub>	12.88	0.041
mp-9517	SrTiN <sub>2</sub>	1000	0.121
mp-867570	Rb <sub>4</sub> Sb <sub>2</sub> O <sub>5</sub>	29.446	0.034
mp-6384	RbSO <sub>2</sub> F	52.814	0.063
mp-556645	RbNbAsClO <sub>5</sub>	85.26	0.041
mp-29405	RbSnI <sub>3</sub>	28.622	0.039
mp-19172	KV <sub>3</sub> O <sub>8</sub>	67.283	0.044
mp-3637	YOF	76	0.154
mp-757850	K <sub>4</sub> Sb <sub>2</sub> O <sub>5</sub>	71.87	0.039
mp-567681	CsPbBr <sub>3</sub>	5.531	0.043
mp-647813	Cs <sub>2</sub> CrO <sub>4</sub>	18.653	0.038
mp-559911	V <sub>4</sub> S <sub>4</sub> Br <sub>4</sub>	22.272	0.018
mp-16915	BaTiOF <sub>4</sub>	211.946	0.071
mp-29304	Y <sub>2</sub> InCl <sub>7</sub>	18.187	0.024
mp-572546	CsRe(Cl <sub>2</sub> O) <sub>2</sub>	125.655	0.029
mp-7928	K <sub>2</sub> PtS <sub>2</sub>	11.852	0.087
mp-8621	K <sub>2</sub> PtSe <sub>2</sub>	7.369	0.082
mp-8623	K <sub>2</sub> Te <sub>2</sub> Pt	5.966	0.073
mp-29300	Ga <sub>2</sub> CuCl <sub>8</sub>	912.276	0.045
mp-567776	Cs <sub>2</sub> AgAuCl <sub>6</sub>	144.263	0.045
mp-11924	Rb <sub>2</sub> TaCuSe <sub>4</sub>	5.247	0.029
mp-42190	K <sub>2</sub> NaTiOF <sub>5</sub>	759.456	0.069
mp-40143	Cs <sub>2</sub> KZrOF <sub>5</sub>	8.248	0.056
mp-8972	K <sub>2</sub> TaCuSe <sub>4</sub>	16.837	0.032
mp-555160	CsYSeCl <sub>2</sub> O <sub>3</sub>	178.754	0.053
mp-12047	K <sub>3</sub> Na(RuO <sub>4</sub> ) <sub>2</sub>	5.67	0.081

mp-27126	$\text{Na}_2\text{Mn}_3\text{Cl}_8$	22.402	0.06
mp-29817	$\text{GaP}_2\text{I}_9$	11.642	0.012
mp-8900	$\text{K}_2\text{VAgS}_4$	18.961	0.036
mp-866301	$\text{BaBSbS}_4$	8.359	0.046
mp-567928	$\text{CsBi}_3\text{Se}_5$	1000	0.054
mp-28453	$\text{CsAuI}_3$	29.869	0.041
mp-569548	$\text{CsAuBr}_3$	75.682	0.05
mp-8570	$\text{Ba}_3\text{Zr}_2\text{S}_7$	6.427	0.059
mp-23153	I	68.757	0.092
mp-765136	$\text{LiMn}_8\text{F}_{33}$	49.268	0.048
mp-6999	$\text{ScPS}_4$	12.448	0.077
mp-753546	$\text{Li}_8\text{TiS}_6$	8.148	0.077
mp-23484	$\text{CsAuCl}_3$	258.965	0.056
mp-8226	$\text{ThNF}$	75.174	0.224
mp-8725	$\text{HfSnS}_3$	13.635	0.092
mp-28046	$\text{AlP}_2\text{I}_9$	14.267	0.016
mp-766540	$\text{Li}_4\text{TiS}_4$	23.218	0.069
mp-28159	$\text{As}(\text{BrF}_2)_3$	24.029	0.074
mp-561259	$\text{Na}_3\text{NbOF}_6$	223.444	0.099
mp-7571	$\text{KNbF}_6$	37.49	0.117
mp-754712	$\text{NClO}_3$	5.328	0.116
mp-29526	$\text{BrNO}_3$	6.471	0.11
mp-29345	$\text{LiGaI}_3$	6.548	0.043
mp-600186	$\text{Cs}_2\text{MnBr}_4$	39.341	0.046
mp-770618	$\text{MgMnO}_3$	5.696	0.169
mp-28205	$\text{Na}_3\text{ReO}_5$	25.006	0.137
mp-8818	$\text{Ca}_2\text{ZnN}_2$	33.023	0.292
mp-29287	$\text{Cs}_3\text{CoBr}_5$	28.307	0.039
mp-23154	Br	41.875	0.126
mp-27445	$\text{As}(\text{IF}_2)_3$	11.694	0.078
mp-557772	$\text{CsNiF}_3$	26.27	0.112
mp-540760	$\text{FePcl}_8$	34.54	0.049
mp-641699	$\text{CsNb}_2\text{PS}_{10}$	6.859	0.039
mp-556244	$\text{Xe}_2\text{NO}_2\text{F}_{13}$	8.085	0.03
mp-14988	$\text{K}_4\text{SnO}_3$	6.088	0.053
mp-616439	$\text{Cs}_2\text{CuCl}_4$	18.102	0.052
mp-561710	$\text{CsSnS}_3$	5.572	0.083
mp-761057	$\text{Sr}_5\text{Nb}_4\text{O}_{15}$	6.653	0.142
mp-28178	$\text{NaNbCl}_6$	13.217	0.09
mp-560601	$\text{K}_2\text{CuS}(\text{ClO}_2)_2$	67.918	0.084
mp-769582	$\text{Sr}_5\text{Ta}_4\text{O}_{15}$	5.743	0.147
mp-19388	$\text{BaNi}_2(\text{AsO}_4)_2$	6.166	0.193
mp-569060	$\text{Cs}_2\text{PSe}_5$	6.238	0.075

mp-22876	CsI <sub>3</sub>	6.657	0.061
mp-772813	Ca <sub>2</sub> Cu <sub>2</sub> O <sub>5</sub>	7.715	0.116
mp-568244	TlSn <sub>2</sub> Br <sub>5</sub>	30.669	0.063
mp-17315	Zr <sub>3</sub> Tl <sub>2</sub> OF <sub>12</sub>	66.292	0.083
mp-30106	AsCl <sub>5</sub>	5.612	0.097
mp-27641	CsBr <sub>3</sub>	12.17	0.07
mp-27750	AsXeF <sub>7</sub>	9.36	0.106
mp-23515	K <sub>2</sub> CoCl <sub>4</sub>	122.478	0.052
mp-540572	NCl <sub>3</sub>	9.496	0.063
mp-30164	CsSn <sub>2</sub> Cl <sub>5</sub>	74.504	0.071
mp-23541	KSn <sub>2</sub> Br <sub>5</sub>	60.07	0.068
mp-19660	Sr <sub>2</sub> V <sub>2</sub> O <sub>7</sub>	41.456	0.091
mp-30011	SbKrF <sub>7</sub>	6.025	0.079
mp-567780	RbSn <sub>2</sub> Br <sub>5</sub>	81.136	0.067
mp-554732	RbSbS(O <sub>2</sub> F) <sub>2</sub>	10.061	0.09
mp-30010	AsKrF <sub>7</sub>	8.843	0.084
mp-760678	Sb <sub>2</sub> H <sub>4</sub> AuF <sub>16</sub>	344.183	0.143
mp-23630	NbBi <sub>4</sub> ClO <sub>8</sub>	10.935	0.156
mp-510557	CsN <sub>3</sub>	5.382	0.108
mp-17085	Rb <sub>2</sub> Zr <sub>3</sub> OF <sub>12</sub>	1000	0.093
mp-7280	PPdS	8.968	0.153
mp-17256	Rb <sub>2</sub> Hf <sub>3</sub> OF <sub>12</sub>	745.713	0.096
mp-672273	AlBiCl <sub>6</sub>	7.566	0.054
mp-28163	K <sub>2</sub> PdF <sub>4</sub>	138.818	0.086
mp-17888	K <sub>2</sub> Zr <sub>3</sub> OF <sub>12</sub>	693.092	0.1
mp-557451	CsReOF <sub>6</sub>	226.783	0.088
mp-23539	KSn <sub>2</sub> Cl <sub>5</sub>	29.913	0.084
mp-13986	Li <sub>2</sub> PtF <sub>6</sub>	413.76	0.244
mp-622602	NaMoAsO <sub>6</sub>	7.265	0.079
mp-621112	Cs <sub>9</sub> Nb <sub>2</sub> S <sub>4</sub> Cl <sub>9</sub>	395.289	0.07
mp-28211	IrS <sub>3</sub> Cl <sub>11</sub>	11.228	0.049
mp-607436	ReCl <sub>3</sub> O <sub>2</sub>	66.31	0.075
mp-540998	FeTeBr <sub>7</sub>	7.435	0.091
mp-560578	RbTeNO <sub>3</sub> F <sub>4</sub>	12.553	0.084
mp-29541	GaTeI <sub>7</sub>	11.113	0.108
mp-18997	LiMnPO <sub>4</sub>	11.297	0.199
mp-560515	K <sub>4</sub> Ru <sub>2</sub> Cl <sub>10</sub> O	13.197	0.11
mp-25305	Y <sub>2</sub> Ti <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	1000	0.412
mp-554495	CaZr(PO <sub>4</sub> ) <sub>2</sub>	5.573	0.139
mp-19123	Rb <sub>2</sub> LiVO <sub>4</sub>	9.373	0.085
mp-554643	K <sub>2</sub> SbSO <sub>4</sub> F <sub>3</sub>	82.175	0.115
mp-570300	MnTiCl <sub>3</sub>	236.563	0.188
mp-20459	TiPbO <sub>3</sub>	793.901	0.405

mp-4829	Na <sub>2</sub> ThF <sub>6</sub>	39.647	0.192
mp-540997	FeTeCl <sub>7</sub>	11.89	0.11
mp-556609	KSb(PS <sub>3</sub> ) <sub>2</sub>	7.627	0.125
mp-557437	KBi(PS <sub>3</sub> ) <sub>2</sub>	9.012	0.129
mp-560692	K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub>	33.636	0.124
mp-9481	TcS <sub>2</sub>	9.836	0.182
mp-30096	Be <sub>2</sub> Te <sub>7</sub> Cl <sub>6</sub>	6.875	0.125
mp-644325	CsFeSiO <sub>4</sub>	5.512	0.13
mp-18832	K <sub>2</sub> VO <sub>2</sub> F <sub>3</sub>	13.439	0.157
mp-568396	Ba(FeBr <sub>4</sub> ) <sub>2</sub>	79.162	0.047
mp-28232	MgTi <sub>2</sub> O <sub>5</sub>	25.173	0.184
mp-12885	BaAl <sub>2</sub> Sb <sub>2</sub> O <sub>7</sub>	13.359	0.259
mp-505281	CsSbS <sub>4</sub> (O <sub>3</sub> F) <sub>6</sub>	8.507	0.052
mp-571235	ZrI <sub>4</sub>	6.252	0.096
mp-556637	Ba <sub>6</sub> Na <sub>2</sub> Nb <sub>2</sub> P <sub>2</sub> O <sub>17</sub>	184.842	0.229
mp-27786	SbAs <sub>2</sub> Cl <sub>13</sub>	6.452	0.043
mp-555113	Rb <sub>3</sub> Cu <sub>2</sub> (BiS <sub>2</sub> ) <sub>5</sub>	73.505	0.117
mp-555131	CsCO <sub>2</sub>	7.292	0.095
mp-698206	Ba <sub>4</sub> Re <sub>3</sub> O <sub>16</sub>	66.19	0.068
mp-1707	BaN <sub>6</sub>	5.624	0.297
mp-706632	H <sub>15</sub> RhBr <sub>3</sub> N <sub>5</sub>	5.962	0.095
mp-616597	ReHgO <sub>4</sub>	14.447	0.24
mp-571035	OsCl <sub>4</sub>	9.854	0.115
mp-27147	Rb <sub>3</sub> BiBr <sub>6</sub>	5.235	0.065
mp-17512	Zn(AuF <sub>4</sub> ) <sub>2</sub>	9.485	0.227
mp-572597	SbPS <sub>4</sub>	10.754	0.092
mp-644129	KNiPH <sub>2</sub> O <sub>5</sub>	167.451	0.276
mp-647366	KICl <sub>4</sub>	45.375	0.118
mp-4758	K <sub>2</sub> NbF <sub>7</sub>	129.918	0.098
mp-3975	K <sub>2</sub> TaF <sub>7</sub>	15.668	0.1
mp-29144	KTe <sub>2</sub> F <sub>9</sub>	26.798	0.165
mp-8708	Mg(AuF <sub>4</sub> ) <sub>2</sub>	70.156	0.234
mp-864954	MgMoN <sub>2</sub>	186.497	1.046
mp-27774	NCIO <sub>6</sub>	270.388	0.115
mp-672248	TaAsPCl <sub>13</sub>	32.549	0.049
mp-556631	KZrSnF <sub>7</sub>	28.112	0.152
mp-19219	Li <sub>3</sub> VO <sub>4</sub>	15.426	0.294
mp-28719	Ba(AuF <sub>4</sub> ) <sub>2</sub>	5.513	0.08
mp-23444	AsCl <sub>2</sub> F <sub>3</sub>	23.744	0.102
mp-21724	ZnSiPbO <sub>4</sub>	96.555	0.189
mp-560675	K <sub>6</sub> Cu(SiO <sub>4</sub> ) <sub>2</sub>	175.722	0.207
mp-570962	SbI <sub>3</sub> (BrCl <sub>3</sub> ) <sub>2</sub>	5.358	0.15
mp-561153	XeF <sub>3</sub>	10.884	0.165

mp-685281	TiZnH <sub>12</sub> (OF) <sub>6</sub>	17.145	0.1
mp-555741	RbAu(SO <sub>4</sub> ) <sub>2</sub>	45.343	0.385
mp-560354	SbCl(OF <sub>3</sub> ) <sub>2</sub>	42.049	0.198
mp-23576	CsSbClF <sub>3</sub>	12.425	0.086
mp-8716	K <sub>2</sub> MnSe <sub>2</sub>	11.487	0.202
mp-505814	CsBa <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub>	1000	0.521
mp-556647	Ba <sub>4</sub> Re <sub>3</sub> ClO <sub>15</sub>	6.71	0.079
mp-505034	Cs <sub>2</sub> MnS <sub>2</sub>	10.454	0.196
mp-3237	Na <sub>2</sub> CuF <sub>4</sub>	28.993	0.276
mp-644827	TePCL <sub>9</sub>	47.914	0.057
mp-765493	Ba <sub>2</sub> Sb <sub>2</sub> O <sub>5</sub>	5.199	0.165
mp-4002	Li <sub>2</sub> ZrF <sub>6</sub>	8.607	0.402
mp-554554	K <sub>4</sub> Bi(PS <sub>4</sub> ) <sub>4</sub>	46.437	0.102
mp-542332	K <sub>2</sub> Cu(CO <sub>3</sub> ) <sub>2</sub>	12.132	0.122
mp-541114	Sr <sub>2</sub> RhF <sub>7</sub>	15.675	0.134
mp-541134	TeAuBr <sub>8</sub>	17.329	0.117
mp-27987	BrF <sub>5</sub>	11.906	0.174
mp-15472	Ba <sub>4</sub> LiCu(CO <sub>3</sub> ) <sub>2</sub>	1000	0.264
mp-679927	Rb <sub>2</sub> Sc(NO <sub>3</sub> ) <sub>5</sub>	110.624	0.082
mp-27307	Na <sub>2</sub> ZrF <sub>6</sub>	38.877	0.29
mp-561523	NbTiCl <sub>4</sub> O	15.49	0.085
mp-28575	W(S <sub>4</sub> Cl <sub>3</sub> ) <sub>2</sub>	1000	0.139
mp-6841	Ba <sub>4</sub> NaCu(CO <sub>3</sub> ) <sub>2</sub>	1000	0.264
mp-555546	MgAs <sub>2</sub> (XeF <sub>5</sub> ) <sub>4</sub>	6.311	0.068
mp-645272	TiV <sub>3</sub> (SeO <sub>6</sub> ) <sub>2</sub>	6.128	0.209
mp-8713	K <sub>2</sub> MnS <sub>2</sub>	6.876	0.241
mp-8714	Rb <sub>2</sub> MnS <sub>2</sub>	12.285	0.228
mp-866688	Cs <sub>4</sub> P <sub>2</sub> PdSe <sub>8</sub>	6.072	0.092
mp-9639	BaCu(SeO <sub>3</sub> ) <sub>2</sub>	30.499	0.211
mp-7181	CsSr <sub>2</sub> Ta <sub>3</sub> O <sub>10</sub>	1000	0.589
mp-554805	Sr <sub>3</sub> Se <sub>3</sub> (ClO <sub>4</sub> ) <sub>2</sub>	28.802	0.143
mp-504427	Ti <sub>3</sub> PbO <sub>7</sub>	472.968	0.367
mp-17559	Y <sub>2</sub> TiO <sub>5</sub>	217.449	0.244
mp-768915	Na <sub>3</sub> AuO <sub>3</sub>	25.938	0.105
mp-753353	Sr <sub>4</sub> LiCu(CO <sub>3</sub> ) <sub>2</sub>	1000	0.306
mp-18725	YCrO <sub>3</sub>	8.167	0.323
mp-28175	Pd(SeCl <sub>3</sub> ) <sub>2</sub>	14.895	0.065
mp-19443	WO <sub>3</sub>	266.9	0.319
mp-9640	SrCu(SeO <sub>3</sub> ) <sub>2</sub>	82.126	0.225
mp-560005	TlRe <sub>3</sub> (S <sub>2</sub> Cl) <sub>2</sub>	42.675	0.163
mp-27921	Ti <sub>2</sub> PCL <sub>13</sub>	21.86	0.079
mp-19453	Te <sub>2</sub> MoO <sub>7</sub>	11.354	0.246
mp-23207	ClO <sub>2</sub>	8.955	0.242



mp-680413	Rb <sub>3</sub> As <sub>7</sub>	8.375	0.047
mp-28179	NaTaCl <sub>6</sub>	9.981	0.221
mp-573373	PICl <sub>8</sub>	18.014	0.068
mp-560785	K <sub>2</sub> Y <sub>4</sub> Sn <sub>2</sub> S <sub>11</sub>	762.479	0.134
mp-17921	NbSeOF <sub>7</sub>	112.453	0.167
mp-556518	K <sub>2</sub> Pd(NO <sub>3</sub> ) <sub>4</sub>	212.016	0.077
mp-680329	K <sub>3</sub> As <sub>7</sub>	12.073	0.051
mp-540628	Al(TeCl <sub>2</sub> ) <sub>2</sub>	25.318	0.076
mp-28174	Pd(SCl <sub>3</sub> ) <sub>2</sub>	6.364	0.34
mp-559309	K <sub>3</sub> ZnNCl <sub>4</sub> O <sub>3</sub>	11.085	0.109
mp-767518	Na <sub>2</sub> ScPCO <sub>7</sub>	311.021	0.284
mp-559568	K <sub>2</sub> Se <sub>2</sub> O <sub>5</sub>	17.689	0.096
mp-773432	KMnPCO <sub>7</sub>	496.408	0.319
mp-505451	HS <sub>9</sub> N	6.218	0.147
mp-767722	VFe(P <sub>2</sub> O <sub>7</sub> ) <sub>2</sub>	75.782	0.319
mp-570229	ThBr <sub>4</sub>	11.808	0.226
mp-560715	Sn <sub>4</sub> (PO <sub>5</sub> ) <sub>2</sub>	17.242	0.223
mp-17035	K <sub>3</sub> Sc(PO <sub>4</sub> ) <sub>2</sub>	8.132	0.132
mp-554948	NaI(OF) <sub>2</sub>	104.11	0.196
mp-27729	ICl <sub>3</sub>	19.777	0.322
mp-554160	K <sub>2</sub> CuP <sub>2</sub> O <sub>7</sub>	49.034	0.201
mp-27169	KTa <sub>4</sub> O <sub>13</sub>	5.207	0.167
mp-572149	Cs <sub>2</sub> Al(NO <sub>3</sub> ) <sub>5</sub>	1000	0.094
mp-679989	Bi(Mo <sub>2</sub> Cl <sub>5</sub> ) <sub>3</sub>	62.816	0.063
mp-28974	TiF <sub>4</sub>	366.716	0.271
mp-27514	NaFeCl <sub>4</sub>	179.897	0.172
mp-27322	Nb <sub>2</sub> Te <sub>3</sub> O <sub>11</sub>	33.37	0.327
mp-9780	RbHfAgTe <sub>3</sub>	18.509	0.279
mp-554523	TeBrO <sub>3</sub> F <sub>5</sub>	12.865	0.301
mp-696291	ZnH <sub>4</sub> (NO <sub>4</sub> ) <sub>2</sub>	6.801	0.295
mp-24030	ZrP <sub>2</sub> (HO <sub>3</sub> ) <sub>2</sub>	12.471	0.403
mp-556522	K <sub>3</sub> Cu <sub>2</sub> (BiS <sub>2</sub> ) <sub>5</sub>	16.823	0.183
mp-29903	TlTeF <sub>5</sub>	10.136	0.339
mp-622258	RbV <sub>2</sub> SbO <sub>8</sub>	18.412	0.214
mp-19496	KV <sub>2</sub> SbO <sub>8</sub>	16.962	0.219
mp-560794	BaNbTePO <sub>8</sub>	1000	0.206
mp-29295	Sr <sub>3</sub> Sb <sub>4</sub> S <sub>9</sub>	9.105	0.163
mp-769616	Na <sub>2</sub> CrPCO <sub>7</sub>	120.426	0.322
mp-558121	K <sub>4</sub> Ba(VS <sub>4</sub> ) <sub>2</sub>	34.669	0.121
mp-570186	Ga <sub>2</sub> Te <sub>2</sub> Br <sub>7</sub>	694.027	0.096
mp-557059	RbSnS <sub>4</sub>	5.294	0.079
mp-772763	K <sub>2</sub> ScPCO <sub>7</sub>	93.405	0.276
mp-28189	FeSeCl <sub>7</sub>	9.3	0.206

mp-27664	TiPCl <sub>9</sub>	12.168	0.175
mp-554432	ReSbOF <sub>10</sub>	286.947	0.197
mp-29407	AlTeI <sub>7</sub>	6.761	0.207
mp-775198	Ti <sub>3</sub> P <sub>6</sub> WO <sub>24</sub>	1000	0.167
mp-557856	BCl(O <sub>F</sub> ) <sub>2</sub>	7.83	0.226
mp-753401	Sc <sub>2</sub> TiO <sub>5</sub>	22.5	0.278
mp-18815	KVO <sub>3</sub>	8.549	0.359
mp-31012	K <sub>2</sub> (NbBr <sub>3</sub> ) <sub>3</sub>	43.286	0.058
mp-14864	Cs <sub>2</sub> Ti(PO <sub>4</sub> ) <sub>2</sub>	34.738	0.16
mp-8232	BaZrF <sub>6</sub>	15.071	0.125
mp-23434	Al <sub>2</sub> CuCl <sub>8</sub>	186.94	0.228
mp-28387	PAuCl <sub>8</sub>	54.932	0.074
mp-556705	AsS(ClF <sub>2</sub> ) <sub>3</sub>	23.086	0.157
mp-672338	Cs(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>2</sub>	5.915	0.178
mp-768140	Na <sub>2</sub> BiPCO <sub>7</sub>	347.916	0.307
mp-570857	Y(AlCl <sub>4</sub> ) <sub>3</sub>	95.608	0.116
mp-581834	CsNa <sub>3</sub> (WN <sub>3</sub> ) <sub>2</sub>	12.479	0.118
mp-30938	PAuS <sub>4</sub>	10.98	0.304
mp-622278	TiV <sub>2</sub> SbO <sub>8</sub>	5.802	0.233
mp-561328	SbSe(BrF <sub>2</sub> ) <sub>3</sub>	10.342	0.146
mp-571324	CNCl	5.361	0.116
mp-772808	K <sub>2</sub> BiPCO <sub>7</sub>	10.175	0.277
mp-27859	SbI <sub>3</sub> F <sub>6</sub>	38.61	0.175
mp-27824	PICl <sub>6</sub>	15.48	0.122
mp-769604	K <sub>2</sub> MnPCO <sub>7</sub>	343.232	0.318
mp-557260	RbSb <sub>2</sub> F <sub>7</sub>	240.128	0.204
mp-558309	K <sub>4</sub> SnSb <sub>2</sub> F <sub>14</sub>	11.31	0.262
mp-16577	Li <sub>2</sub> CaHfF <sub>8</sub>	132.548	0.456
mp-720110	KRe <sub>3</sub> Os <sub>3</sub> (Se <sub>4</sub> Cl <sub>3</sub> ) <sub>2</sub>	1000	0.069
mp-650228	KIn(MoO <sub>4</sub> ) <sub>2</sub>	8.478	0.231
mp-560591	NaTi <sub>2</sub> Al <sub>5</sub> O <sub>12</sub>	36.473	0.453
mp-762082	ThH <sub>10</sub> N <sub>4</sub> O <sub>17</sub>	11.524	0.102
mp-667283	Sr <sub>3</sub> Re <sub>3</sub> ClO <sub>15</sub>	73.005	0.151
mp-629690	Bi <sub>2</sub> (PbS <sub>2</sub> ) <sub>3</sub>	24.657	0.22
mp-542289	HgNO <sub>3</sub>	1000	0.22
mp-720586	CaH <sub>4</sub> NCIO <sub>5</sub>	184.93	0.206
mp-680015	Re <sub>3</sub> (SeBr) <sub>7</sub>	148.261	0.156
mp-560120	Na <sub>2</sub> Pd(NO <sub>3</sub> ) <sub>4</sub>	41.464	0.216
mp-556552	K <sub>4</sub> VP <sub>2</sub> S <sub>9</sub>	31.774	0.141
mp-6113	LiTiAsO <sub>5</sub>	20.565	0.247
mp-7310	ZrPbF <sub>6</sub>	43.492	0.144
mp-28536	BaSe <sub>2</sub> O <sub>5</sub>	10.981	0.228
mp-22694	LiPPbO <sub>4</sub>	26.152	0.311

mp-19459	$K_2MgV_2O_7$	38.197	0.173
mp-569653	$SnPCl_9$	35.62	0.064
mp-556210	$Bi_2CO_5$	6.85	0.412
mp-23598	$SiO_3F$	10.375	0.182
mp-560016	$NaNb_2PO_8$	1000	0.334
mp-27472	$NbSbF_{10}$	296.273	0.292
mp-13792	$KTaP_4O_{13}$	105.003	0.206
mp-554129	$Br_3N(O_2F_5)_2$	87.93	0.164
mp-27017	$LiSnPO_4$	7.09	0.312
mp-17101	$CaNb_2O_6$	12.89	0.408
mp-667345	$NbTl_2PO_6$	785.295	0.186
mp-559151	$BaSrTa_2O_7$	1000	0.402
mp-642792	$BaBi_2(MoO_4)_4$	285.483	0.183
mp-15750	$TaAgP_4O_{13}$	10.954	0.212
mp-540921	$CsCuF_4$	5.731	0.322
mp-647102	$KNOF_2$	39.248	0.293
mp-29408	$AlSeBr_7$	9.956	0.299
mp-29048	$Sr(BiO_2)_2$	27.598	0.152
mp-17953	$MgNb_2O_6$	8.876	0.444
mp-679984	$Cs_4Ru_2Cl_{10}O$	215.367	0.089
mp-722900	$CaH_3NO_5$	73.369	0.104
mp-19474	$Ba_2V_2O_7$	43.321	0.239
mp-562977	$RbNbS_2O_9$	934.479	0.279
mp-27788	$TaPCl_{10}$	10.274	0.275
mp-558938	$Zn_4SiTePbO_{10}$	18.78	0.24
mp-29194	$Cs_2Au_2Se_3$	7.363	0.102
mp-638424	$Sb_2S_2O_9$	10.844	0.298
mp-683984	$Al(SeCl)_4$	123.78	0.094
mp-29264	$SiCl_7$	6.002	0.124
mp-30003	$AuSO_4$	22.006	0.182
mp-768144	$Na_2SbPCO_7$	12.285	0.369
mp-559760	$ScIO$	31.994	0.175
mp-27780	$TcCl_4$	18.311	0.199
mp-555862	$CsZr(NO_3)_5$	83.51	0.148
mp-24656	$YH_3(SO_4)_3$	86.48	0.119
mp-541013	$TiI_4$	89.537	0.117
mp-29568	$RuS_3Cl_8$	6.11	0.23
mp-6764	$BaSi_2(NO)_2$	21.379	0.538
mp-555408	$SbS_2IF_6$	16.221	0.132
mp-28185	$TaClF_8$	132.977	0.233
mp-571313	$Hf(SeCl_6)_2$	15.143	0.094
mp-28330	$TeAuCl_7$	33.706	0.232
mp-5803	$NbPO_5$	17.831	0.386

mp-5900	Ba <sub>2</sub> ZrF <sub>8</sub>	87.531	0.255
mp-4325	Zr(SO <sub>4</sub> ) <sub>2</sub>	15.019	0.302
mp-555490	KRe <sub>2</sub> O <sub>4</sub> F <sub>7</sub>	27.503	0.48
mp-29129	K <sub>2</sub> Te <sub>2</sub> O <sub>5</sub>	7.037	0.173
mp-649253	NbClF <sub>8</sub>	24.122	0.246
mp-554147	Rb <sub>2</sub> Nb <sub>2</sub> P <sub>2</sub> S <sub>11</sub>	250.43	0.291
mp-18964	K <sub>3</sub> NaCr <sub>2</sub> O <sub>8</sub>	15.89	0.245
mp-557132	Os <sub>2</sub> O <sub>3</sub> F <sub>7</sub>	97.799	0.251
mp-28037	Mo <sub>2</sub> SBr <sub>2</sub>	50.8	0.126
mp-32311	Re <sub>2</sub> NiO <sub>8</sub>	389.368	0.536
mp-560208	K <sub>3</sub> NbAs <sub>2</sub> O <sub>9</sub>	395.894	0.344
mp-558548	Na <sub>3</sub> B <sub>6</sub> NO <sub>13</sub>	41.075	0.196
mp-531826	Li <sub>2</sub> PtO <sub>3</sub>	8.765	0.326
mp-554517	NaMnF <sub>4</sub>	5.441	0.539
mp-30092	TiCl <sub>4</sub>	34.442	0.235
mp-28870	PRhO <sub>4</sub>	5.719	0.23
mp-743697	MgZr <sub>3</sub> Tl <sub>10</sub> (MoO <sub>4</sub> ) <sub>12</sub>	66.332	0.154
mp-27452	Al <sub>2</sub> PdCl <sub>8</sub>	31.092	0.321
mp-27308	SbBrF <sub>8</sub>	5.142	0.256
mp-581922	CsMo <sub>3</sub> Br <sub>3</sub> Cl <sub>4</sub>	48.892	0.172
mp-24144	Na <sub>5</sub> ScH <sub>4</sub> (C <sub>2</sub> O <sub>7</sub> ) <sub>2</sub>	1000	0.278
mp-22869	ClO <sub>3</sub>	8.408	0.302
mp-745150	VZnHPbO <sub>5</sub>	6.671	0.338
mp-6539	RbTiPO <sub>5</sub>	13.095	0.229
mp-555286	CsNb(PO <sub>4</sub> ) <sub>2</sub>	18.872	0.341
mp-556047	K <sub>2</sub> OsCBr <sub>5</sub> O	73.933	0.202
mp-560732	BaNaZrF <sub>7</sub>	36.255	0.312
mp-27735	GaSbCl <sub>6</sub>	28.033	0.207
mp-23623	B <sub>3</sub> Pb <sub>2</sub> BrO <sub>9</sub>	6.384	0.212
mp-680446	Cu <sub>3</sub> P <sub>4</sub> Se <sub>4</sub> Br <sub>3</sub>	6.146	0.133
mp-23396	MoNCl <sub>3</sub>	7.436	0.267
mp-554412	RbTa(PO <sub>4</sub> ) <sub>2</sub>	10.102	0.352
mp-6278	Zn <sub>2</sub> Cu(AsO <sub>4</sub> ) <sub>2</sub>	7.232	0.636
mp-5073	RbNO <sub>3</sub>	7.47	0.166
mp-3247	Cs <sub>2</sub> TiS <sub>3</sub>	16.997	0.144
mp-23549	Bi <sub>3</sub> B <sub>6</sub> O <sub>12</sub>	146.811	0.321
mp-9856	Cs <sub>2</sub> ZrSe <sub>3</sub>	6.837	0.13
mp-28431	Sb(IF <sub>3</sub> ) <sub>2</sub>	90.746	0.33
mp-579086	KSrNb <sub>2</sub> O <sub>6</sub> F	1000	0.551
mp-562854	CsNb <sub>2</sub> BiO <sub>7</sub>	1000	0.558
mp-27935	AlCl <sub>6</sub>	15.817	0.25
mp-686949	ThCr(IO <sub>5</sub> ) <sub>2</sub>	20.08	0.245
mp-571412	RbNa <sub>3</sub> (WN <sub>3</sub> ) <sub>2</sub>	21.525	0.176

mp-23376	GaSeBr <sub>7</sub>	37.737	0.371
mp-558521	B <sub>2</sub> Se <sub>2</sub> O <sub>7</sub>	6.774	0.287
mp-28535	Ca <sub>2</sub> Se <sub>3</sub> O <sub>8</sub>	9.24	0.38
mp-29114	Re <sub>3</sub> Te <sub>4</sub> Cl <sub>5</sub>	83.855	0.117
mp-9172	Li <sub>4</sub> TiO <sub>4</sub>	11.561	0.306
mp-505113	TiSn <sub>6</sub> F <sub>16</sub>	300.755	0.121
mp-4674	BNF <sub>8</sub>	6.725	0.179
mp-558114	Sr <sub>4</sub> NbAlO <sub>8</sub>	708.633	0.423
mp-28766	K <sub>2</sub> TiS <sub>3</sub>	12.61	0.187
mp-581217	Cs <sub>2</sub> Nb <sub>4</sub> O <sub>11</sub>	27.075	0.22
mp-555512	RbCO <sub>2</sub>	9.135	0.266
mp-672212	NaNb <sub>13</sub> O <sub>33</sub>	18.392	0.405
mp-28808	TlReO <sub>4</sub>	5.645	0.227
mp-557108	Ba <sub>2</sub> Nb <sub>2</sub> TeO <sub>10</sub>	9.696	0.245
mp-543046	CsScP <sub>2</sub> (HO <sub>4</sub> ) <sub>2</sub>	29.905	0.36
mp-559228	Rb <sub>2</sub> HfS <sub>4</sub>	7	0.278
mp-654447	Ni(XeF <sub>8</sub> ) <sub>2</sub>	39.811	0.141
mp-706995	ZnCoH <sub>18</sub> N <sub>6</sub> Cl <sub>5</sub>	10.752	0.294
mp-29419	Hf(Te <sub>2</sub> Cl <sub>3</sub> ) <sub>2</sub>	5.746	0.381
mp-757224	Th <sub>4</sub> P <sub>6</sub> O <sub>23</sub>	1000	0.245
mp-6394	RbTiAsO <sub>5</sub>	6.826	0.25
mp-541353	K <sub>2</sub> (TeS <sub>2</sub> ) <sub>3</sub>	294.556	0.116
mp-541740	TaPO <sub>5</sub>	12.031	0.506
mp-541956	CsTiAsO <sub>5</sub>	6.063	0.246
mp-6661	BaTi(SiO <sub>3</sub> ) <sub>3</sub>	67.8	0.475
mp-30320	RbHfF <sub>5</sub>	37.953	0.172
mp-30213	Sb <sub>2</sub> BrF <sub>15</sub>	30.305	0.234
mp-30946	Ga <sub>2</sub> PdI <sub>8</sub>	88.414	0.163
mp-554111	Ti <sub>3</sub> Tl <sub>3</sub> (PO <sub>4</sub> ) <sub>5</sub>	16.901	0.196
mp-557163	TaPbF <sub>7</sub>	6.702	0.513
mp-559519	Na <sub>4</sub> TiAs <sub>2</sub> O <sub>9</sub>	246.875	0.162
mp-561062	NaSb <sub>3</sub> (PO <sub>5</sub> ) <sub>2</sub>	7.223	0.201
mp-640883	VBi(PbO <sub>3</sub> ) <sub>2</sub>	8.868	0.422
mp-27802	BaSn <sub>2</sub> S <sub>3</sub>	7.677	0.231
mp-23809	RbScBP <sub>2</sub> HO <sub>9</sub>	83.277	0.423
mp-19276	BaMoO <sub>4</sub>	6.726	0.604
mp-559516	K <sub>3</sub> Nb(SO <sub>4</sub> ) <sub>4</sub>	47.768	0.186
mp-21945	Ge <sub>3</sub> Ru <sub>2</sub>	8.495	0.359
mp-581864	CsAsSe <sub>2</sub>	30.413	0.18
mp-9308	Li <sub>4</sub> ZrF <sub>8</sub>	6.425	0.356
mp-540629	Al <sub>2</sub> Te <sub>2</sub> Cl <sub>7</sub>	955.423	0.188
mp-28358	NbAlCl <sub>8</sub>	18.647	0.138
mp-570544	Zr(SeCl <sub>6</sub> ) <sub>2</sub>	13.805	0.122



mp-560331	$K_2ZrS_4$	5.768	0.31
mp-560021	$AuS_3(O_3F)_3$	279.553	0.204
mp-28845	$OsO_3F_2$	17.789	0.669
mp-28933	$Br_2O_3$	8.73	0.266
mp-735504	$KVPHO_6$	1000	0.313
mp-743636	$NaNiP_2HO_7$	12.306	0.441
mp-555321	$BaNiF_4$	77.032	0.301
mp-556341	$Ti_4S_8Br_6O$	40.89	0.193
mp-19512	$BaV_2(PO_5)_2$	22.231	0.405
mp-558160	$NaYCO_3F_2$	13.614	0.447
mp-19048	$BaWO_4$	8.752	0.617
mp-27349	$BSF_7$	15.991	0.383
mp-30159	$AuBrF_6$	5.849	0.629
mp-6268	$KTiPO_5$	7.867	0.295
mp-19134	$CaCrP_2O_7$	172.673	0.534
mp-556418	$AlSCl_3O_2$	12.093	0.462
mp-504957	$RbReCl_4$	38.125	0.126
mp-555678	$Na_4Ti_5O_{12}$	14.804	0.836
mp-19057	$CaNiP_2O_7$	67.477	0.533
mp-582648	$RbRe_3Br_{10}$	52.746	0.122
mp-6651	$K_2Ta_2(OF_2)_3$	939.2	0.354
mp-683967	$Cd_7Te_4Cl_8O_{17}$	9.852	0.214
mp-8851	$BaCuP_2O_7$	13.388	0.537
mp-19487	$Ba_2Mn(PO_4)_2$	127.893	0.446
mp-753945	$ClOF_3$	11.59	0.533
mp-18953	$NaV(OF)_2$	286.651	0.921
mp-19450	$ScTi(MoO_4)_2$	7.219	0.718
mp-16831	$CaTi_4(PO_4)_6$	14.558	0.344
mp-647342	$SbP_3C(NCl_5)_3$	9.448	0.222
mp-559283	$TiSO_5$	439.127	0.373
mp-556017	$Th_2P_2O_9$	143.813	0.327
mp-680356	$ZrN_6O_{17}$	28.95	0.113
mp-555580	$SrZr_4(PO_4)_6$	16.932	0.328
mp-562434	$Cs_3Ta_5O_{14}$	12.357	0.393
mp-556091	$Cs_3Ta_2S_{11}$	56.443	0.226
mp-542662	$Ga_2Te_2Cl_7$	1000	0.21
mp-555119	$SrTaF_7$	34.287	0.61
mp-560843	$Na_4Zr_2Ti(CO_4)_4$	625.099	0.326
mp-28672	$Zr_2TeBr_{12}$	149.505	0.21
mp-558660	$Mg_2BiPO_6$	24.699	0.546
mp-30945	$Ga_2PdBr_8$	813.281	0.197
mp-867334	$KYGeS_4$	39.629	0.532
mp-554379	$AsXeF_{11}$	13.18	0.224

mp-6390	Rb <sub>3</sub> Ti <sub>3</sub> (PO <sub>4</sub> ) <sub>5</sub>	37.59	0.242
mp-4200	ScPO <sub>4</sub>	8.216	0.524
mp-505088	NbTe <sub>4</sub> I	6.129	0.196
mp-770968	Na <sub>3</sub> NiPCO <sub>7</sub>	53.23	0.701
mp-569435	KBi(PSe <sub>3</sub> ) <sub>2</sub>	12.93	0.25
mp-734042	MgH <sub>12</sub> (NO <sub>6</sub> ) <sub>2</sub>	15.861	0.293
mp-561392	TcSO <sub>4</sub> F	21.307	0.391
mp-707060	NbCl <sub>4</sub> F	51.804	0.313
mp-5403	Rb <sub>2</sub> TiO <sub>3</sub>	18.449	0.322
mp-679999	Re <sub>3</sub> (SeCl) <sub>7</sub>	1000	0.183
mp-758597	K <sub>2</sub> TiSi <sub>3</sub> (HO <sub>5</sub> ) <sub>2</sub>	23.183	0.325
mp-652776	Rb <sub>2</sub> V(PO <sub>4</sub> ) <sub>2</sub>	33.758	0.343
mp-19075	K <sub>2</sub> SrV <sub>4</sub> O <sub>12</sub>	27.846	0.192
mp-551826	NbTiBr <sub>4</sub> O	128.59	0.429
mp-29555	MoBr <sub>2</sub>	20.544	0.133
mp-735530	Ba <sub>2</sub> Fe <sub>3</sub> P <sub>4</sub> HO <sub>22</sub>	66.762	0.631
mp-29498	WBr <sub>2</sub>	20.427	0.124
mp-12177	Te <sub>2</sub> O <sub>5</sub>	6.229	0.923
mp-23808	KScBP <sub>2</sub> HO <sub>9</sub>	33.476	0.541
mp-23398	BClF <sub>6</sub>	30.661	0.452
mp-541299	Zr <sub>4</sub> Cd(PO <sub>4</sub> ) <sub>6</sub>	16.69	0.349
mp-40144	SiNiH <sub>12</sub> (OF) <sub>6</sub>	34.507	0.594
mp-558894	Ba <sub>4</sub> Ti <sub>2</sub> PtO <sub>10</sub>	13.625	0.311
mp-734194	BeH <sub>4</sub> (IO <sub>5</sub> ) <sub>2</sub>	6.869	0.418
mp-18929	BaV <sub>2</sub> O <sub>6</sub>	7.669	0.22
mp-560742	Ba <sub>2</sub> TeP <sub>2</sub> O <sub>9</sub>	26.278	0.485
mp-676448	CsTiZnOF <sub>5</sub>	37.273	0.455
mp-505234	BaP <sub>2</sub> PbO <sub>7</sub>	15.311	0.474
mp-19165	BaFe(Si <sub>2</sub> O <sub>5</sub> ) <sub>2</sub>	231.838	0.44
mp-27854	TaCl <sub>4</sub> F	84.639	0.145
mp-647385	V <sub>2</sub> Pb <sub>4</sub> O <sub>9</sub>	16.72	0.284
mp-696940	TiH <sub>12</sub> C <sub>2</sub> (NF) <sub>6</sub>	138.6	0.26
mp-558235	CaTaF <sub>7</sub>	1000	0.214
mp-723109	BeH <sub>14</sub> (I <sub>2</sub> O <sub>9</sub> ) <sub>2</sub>	6.214	0.369
mp-29085	Sr <sub>2</sub> Zr <sub>3</sub> F <sub>22</sub>	1000	0.314
mp-18975	Na <sub>2</sub> SrV <sub>4</sub> O <sub>12</sub>	8.662	0.22
mp-510018	Rb <sub>2</sub> CuH <sub>12</sub> (SeO <sub>7</sub> ) <sub>2</sub>	170.716	0.31
mp-623854	NaNb <sub>3</sub> O <sub>8</sub>	50.175	0.749
mp-3368	LiNb <sub>3</sub> O <sub>8</sub>	6.256	0.668
mp-570531	NbP <sub>2</sub> NCl <sub>12</sub>	8.892	0.209
mp-696651	K <sub>3</sub> NbHOF <sub>7</sub>	1000	0.203
mp-561502	Ba <sub>3</sub> B <sub>5</sub> N <sub>10</sub> F	28.191	0.295
mp-4609	HfSiO <sub>4</sub>	6.179	0.602

mp-620029	MoCl <sub>2</sub>	32.989	0.163
mp-573815	ReI <sub>3</sub>	17.885	0.247
mp-541236	Na <sub>5</sub> HfAs <sub>3</sub>	11.99	0.428
mp-556442	Tc <sub>2</sub> O <sub>5</sub> F <sub>4</sub>	69.656	0.318
mp-556587	AuSCl <sub>7</sub>	54.996	0.301
mp-707276	TeH <sub>5</sub> SN <sub>2</sub> O <sub>5</sub> F <sub>3</sub>	36.057	0.526
mp-540946	LiReO <sub>4</sub>	5.238	0.482
mp-17892	Ca <sub>2</sub> VN <sub>3</sub>	23.525	0.471
mp-541745	Rb <sub>3</sub> Nb <sub>2</sub> S <sub>11</sub>	6.138	0.29
mp-645687	CsTi(PS <sub>4</sub> ) <sub>2</sub>	25.612	0.182
mp-12185	LiCu(PO <sub>3</sub> ) <sub>3</sub>	60.265	0.39
mp-559115	P <sub>2</sub> RhClF <sub>6</sub>	11.489	0.257
mp-567731	Nb <sub>3</sub> Se <sub>10</sub> Br <sub>3</sub>	50.908	0.198
mp-683918	RbC <sub>2</sub> N <sub>3</sub>	30.391	0.553
mp-6488	KTiAsO <sub>5</sub>	6.962	0.388
mp-556139	BaZr(PO <sub>4</sub> ) <sub>2</sub>	9.963	0.606
mp-17407	Au <sub>3</sub> F <sub>8</sub>	21.838	0.467
mp-761037	Hg(ClO <sub>3</sub> ) <sub>2</sub>	101.297	0.886
mp-559493	TiPCl <sub>5</sub> O	242.735	0.168
mp-571011	CsI <sub>4</sub>	20.275	0.31
mp-758103	YH <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub>	20.772	0.238
mp-706630	B <sub>5</sub> H <sub>7</sub>	35.634	0.404
mp-27213	AuBr <sub>3</sub>	127.051	0.208
mp-24509	CdH <sub>4</sub> (BrO <sub>4</sub> ) <sub>2</sub>	6.006	0.466
mp-555122	Rb <sub>2</sub> Pd(NO <sub>3</sub> ) <sub>4</sub>	96.017	0.445
mp-676712	ReSeCl	9.598	0.173
mp-540876	KTh <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	13.684	0.237
mp-706386	ZrH <sub>6</sub> O <sub>3</sub> F <sub>4</sub>	45.427	0.796
mp-554280	RbTh <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	12.969	0.235
mp-541975	Rb <sub>3</sub> Ta <sub>2</sub> S <sub>11</sub>	39.477	0.308
mp-27556	CsNbO <sub>3</sub>	11.536	0.348
mp-685352	Ca <sub>2</sub> NF	1000	0.339
mp-570966	ZrP <sub>2</sub> NCl <sub>11</sub>	25.921	0.137
mp-867268	K <sub>4</sub> P <sub>2</sub> PdS <sub>8</sub>	9.275	0.675
mp-23334	Bi <sub>2</sub> TeO <sub>5</sub>	20.322	0.324
mp-27245	BSBr	58.145	0.492
mp-556024	Na <sub>2</sub> TiF <sub>6</sub>	199.041	0.402
mp-557432	GeClO <sub>2</sub> F <sub>5</sub>	161.877	0.263
mp-5450	K <sub>2</sub> ZrF <sub>6</sub>	64.108	0.4
mp-28985	SbSeCl <sub>9</sub>	6.182	0.301
mp-555272	Na <sub>5</sub> Zr <sub>2</sub> F <sub>13</sub>	26.773	0.475
mp-567424	K <sub>3</sub> NbAs <sub>3</sub> Pb	8.334	0.107
mp-573429	Cs <sub>5</sub> Bi(MoO <sub>4</sub> ) <sub>4</sub>	28.052	0.376

mp-560407	$\text{KNbSi}_2\text{O}_7$	12.803	0.405
mp-559118	$\text{CsTa}(\text{PO}_4)_2$	13.579	0.7
mp-583297	$\text{Ba}_8\text{Nb}_4\text{S}_{13}\text{O}_3$	5.59	0.293
mp-530262	$\text{Li}_{15}\text{Cr}_2\text{N}_9$	9.747	0.36
mp-554605	$\text{Rb}_2\text{SbCl}_3\text{F}_2$	630.109	0.672
mp-29794	$\text{Ba}_2\text{PdF}_6$	111.318	0.305
mp-5996	$\text{Na}_2\text{Ti}_2\text{Si}_2\text{O}_9$	20.544	0.715
mp-19034	$\text{Mg}_3\text{V}_2\text{O}_8$	6.85	0.47
mp-6456	$\text{LiNbGeO}_5$	14.56	0.648
mp-570248	$\text{NaC}_2\text{N}_3$	107.041	0.393
mp-620652	$\text{NaSr}_2\text{AlP}_3$	48.767	0.28
mp-557599	$\text{Rb}_2\text{Bi}(\text{ClO}_4)_5$	18.993	0.402
mp-572864	$\text{Rb}_5\text{Th}(\text{PS}_4)_3$	5.663	0.258
mp-559530	$\text{Ti}_5(\text{PO}_5)_4$	10.715	0.347
mp-17803	$\text{Nb}_2\text{Ti}_4\text{S}_{11}$	6.075	0.462
mp-27998	$\text{KNb}_3\text{O}_8$	143.122	0.414
mp-505564	$\text{Bi}_2\text{Se}_4\text{Cl}_7$	150.112	0.303
mp-540668	$\text{BS}_2$	54.712	0.718
mp-3033	$\text{RbTaO}_3$	10.27	0.419
mp-556548	$\text{Bi}(\text{BO}_2)_3$	10.168	1.159
mp-677002	$\text{SrZr}_{12}\text{B}_2\text{I}_5\text{Cl}_{23}$	366.301	0.2
mp-27880	$\text{Nb}_3\text{Cl}_7$	25.236	0.195
mp-3488	$\text{Na}_2\text{Ti}_3\text{O}_7$	1000	1.075
mp-532604	$\text{Na}_2\text{Zr}_{12}\text{B}_2\text{I}_5\text{Cl}_{23}$	42.797	0.202
mp-707483	$\text{TiP}_2\text{H}_4\text{O}_9$	1000	0.801
mp-14873	$\text{K}_4\text{Nb}_8\text{Si}(\text{P}_2\text{O}_{17})_2$	5.79	0.306
mp-29282	$\text{P}_2\text{PtO}_7$	25.781	0.621
mp-560767	$\text{KNaTiO}_3$	14.556	0.559
mp-6228	$\text{Na}_2\text{TiGeO}_5$	8.632	0.804
mp-560977	$\text{KTiPS}_5$	18.466	0.295
mp-554195	$\text{Sb}_3\text{As}_2\text{S}_{14}(\text{IF}_9)_3$	306.889	0.482
mp-510036	$\text{Fe}_2\text{Cu}(\text{P}_2\text{O}_7)_2$	7.064	1.093
mp-29412	$\text{Ta}_3\text{Br}_7$	7.027	0.177
mp-29051	$\text{WS}_4\text{Cl}_4$	106.92	0.137
mp-559281	$\text{Na}_3\text{Cr}_2(\text{PS}_4)_3$	11.253	0.358
mp-561518	$\text{Mg}_2\text{BiAsO}_6$	27.563	0.39
mp-744625	$\text{ZnCrH}_{15}\text{N}_9\text{Cl}_4\text{F}$	24.275	0.275
mp-17499	$\text{K}_7\text{Nb}(\text{SO}_4)_6$	22.554	0.19
mp-28903	$\text{Zr}_8\text{FeCl}_{14}$	9.712	0.208
mp-769319	$\text{LiNb}(\text{OF})_2$	14.717	1.044
mp-15004	$\text{Ca}_3\text{ZrSi}_2\text{O}_9$	13.591	0.516
mp-27212	$\text{Sb}_2\text{IF}_{15}$	15.954	0.302
mp-667426	$\text{Bi}_2\text{Te}_2\text{O}_7$	6.14	0.324

mp-28481	Ti(ClO <sub>4</sub> ) <sub>4</sub>	997.878	0.381
mp-735541	NiSn <sub>2</sub> H <sub>12</sub> (OF) <sub>6</sub>	11.028	0.901
mp-558244	As(IF <sub>3</sub> ) <sub>2</sub>	288.427	0.307
mp-19179	Ba <sub>2</sub> V(SiO <sub>4</sub> ) <sub>2</sub>	579.592	0.548
mp-745159	MoPH <sub>3</sub> O <sub>7</sub>	12.897	0.927
mp-6138	Na <sub>2</sub> TiSiO <sub>5</sub>	9.441	0.953
mp-541947	Rb <sub>2</sub> Th(PSe <sub>3</sub> ) <sub>3</sub>	8.584	0.373
mp-745166	Sr <sub>2</sub> Fe <sub>2</sub> H <sub>2</sub> O <sub>F</sub> <sub>10</sub>	681.484	0.269
mp-18935	K <sub>2</sub> V(PO <sub>4</sub> ) <sub>2</sub>	85.85	0.583
mp-27697	ThI <sub>4</sub>	6.776	0.654
mp-704408	K <sub>8</sub> V <sub>2</sub> (S <sub>2</sub> O <sub>9</sub> ) <sub>3</sub>	1000	0.214
mp-17455	K <sub>7</sub> Ta(SO <sub>4</sub> ) <sub>6</sub>	27.06	0.203
mp-16055	KLi <sub>3</sub> Zr <sub>2</sub> (Si <sub>2</sub> O <sub>5</sub> ) <sub>6</sub>	56.244	0.459
mp-28085	KAs <sub>2</sub> F <sub>7</sub>	23.872	0.645
mp-581868	NaY(IO <sub>3</sub> ) <sub>4</sub>	12.684	0.242
mp-6081	Ba <sub>2</sub> Ti(SiO <sub>4</sub> ) <sub>2</sub>	461.582	0.576
mp-18687	NbF <sub>5</sub>	128.531	0.287
mp-28346	SrSe <sub>2</sub> O <sub>5</sub>	5.266	0.884
mp-628908	KICl <sub>2</sub>	5.281	0.455
mp-755663	Ta <sub>2</sub> Pb <sub>2</sub> O <sub>7</sub>	5.708	0.395
mp-556615	CaBi <sub>4</sub> (PO <sub>3</sub> ) <sub>4</sub>	6.365	0.889
mp-23307	NbCl <sub>5</sub>	32.447	0.119
mp-3180	Ta <sub>2</sub> Te <sub>2</sub> O <sub>9</sub>	5.927	0.792
mp-559894	Sb <sub>2</sub> Te <sub>2</sub> O <sub>9</sub>	27.64	0.615
mp-542148	Sb <sub>2</sub> N <sub>5</sub> F <sub>11</sub>	663.868	0.308
mp-6708	RbNb <sub>2</sub> PS <sub>10</sub>	7.486	0.824
mp-560519	Ba <sub>3</sub> ScCO <sub>3</sub> F <sub>7</sub>	23.06	0.287
mp-555305	NaNb(OF) <sub>2</sub>	107.382	1.081
mp-745012	Ni <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	7.465	0.826
mp-677416	Na <sub>5</sub> Mg <sub>5</sub> In <sub>3</sub> (SO <sub>4</sub> ) <sub>12</sub>	39.732	0.666
mp-667305	ReN(OF <sub>2</sub> ) <sub>3</sub>	832.88	0.423
mp-556902	KLi <sub>4</sub> NbO <sub>5</sub>	5.277	1.549
mp-7601	NbGaO <sub>4</sub>	11.309	0.961
mp-680298	Rb <sub>3</sub> Ta <sub>5</sub> O <sub>14</sub>	20.973	0.424
mp-778433	Li <sub>3</sub> Cr <sub>2</sub> (PS <sub>4</sub> ) <sub>3</sub>	6.825	0.476
mp-558054	SrLi <sub>2</sub> Ta <sub>2</sub> O <sub>7</sub>	811.809	0.459
mp-24196	Tl <sub>2</sub> CuH <sub>12</sub> (SO <sub>3</sub> ) <sub>2</sub>	266.874	0.609
mp-557171	Na <sub>2</sub> Cu(PO <sub>3</sub> ) <sub>4</sub>	722.379	0.375
mp-765597	HS <sub>2</sub> IO <sub>8</sub>	45.397	0.775
mp-567414	BiAuCl <sub>6</sub>	1000	0.715
mp-680756	Na <sub>4</sub> TiP <sub>2</sub> O <sub>9</sub>	463.63	0.479
mp-654301	Nb <sub>5</sub> P <sub>3</sub> O <sub>30</sub>	100.831	0.613
mp-561197	TaF <sub>5</sub>	66.33	0.34

mp-752443	Te(S <sub>2</sub> O) <sub>2</sub>	5.521	1.043
mp-29426	Y <sub>5</sub> C <sub>2</sub> I <sub>9</sub>	177.827	0.264
mp-570193	NaAuCl <sub>4</sub>	5.481	0.391
mp-18914	K <sub>2</sub> MoO <sub>4</sub>	258.979	0.658
mp-557441	KAu(IO <sub>3</sub> ) <sub>4</sub>	13.694	1.302
mp-18827	AlVO <sub>4</sub>	15.685	1.001
mp-675651	MgPS <sub>3</sub>	5.487	0.807
mp-18743	CaMnP <sub>2</sub> O <sub>7</sub>	44.716	1.217
mp-557628	AsS(IF <sub>3</sub> ) <sub>2</sub>	62.65	0.407
mp-23403	SbIF <sub>5</sub>	1000	0.364
mp-554572	K <sub>3</sub> NbP <sub>2</sub> O <sub>9</sub>	635.167	0.545
mp-676801	K <sub>7</sub> Th <sub>6</sub> F <sub>31</sub>	80.922	0.249
mp-27927	NbAlO <sub>4</sub>	39.586	1.107
mp-29831	TaCl <sub>5</sub>	32.357	0.155
mp-30142	Be <sub>4</sub> N <sub>6</sub> O <sub>19</sub>	362.601	0.309
mp-28030	Li <sub>4</sub> Nb <sub>2</sub> O <sub>9</sub>	15.153	1.089
mp-30097	Bi <sub>2</sub> TeCl <sub>8</sub>	212.124	0.746
mp-28778	KScF <sub>4</sub>	1000	0.818
mp-683955	KTaPS <sub>6</sub>	12.234	0.226
mp-720104	Na <sub>4</sub> Al <sub>3</sub> Ge <sub>3</sub> NO <sub>14</sub>	95.99	0.331
mp-26949	LiSn <sub>2</sub> (PO <sub>3</sub> ) <sub>5</sub>	5.568	1.047
mp-555424	CaNb <sub>2</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>3</sub>	1000	0.39
mp-14333	TaAlO <sub>4</sub>	13.275	1.222
mp-569175	ZrCl <sub>4</sub>	44.209	1.178
mp-13627	Y <sub>3</sub> ReO <sub>8</sub>	7.378	1.324
mp-648414	V <sub>2</sub> PS <sub>10</sub>	33.555	0.621
mp-555085	KAu(NO <sub>3</sub> ) <sub>4</sub>	853.289	0.917
mp-572794	ReP(Cl <sub>2</sub> O) <sub>3</sub>	223.628	0.698
mp-768674	Cs <sub>4</sub> Zr <sub>3</sub> Se <sub>14</sub>	19.411	0.3
mp-546285	NbI <sub>3</sub> O	7.646	1.072
mp-10499	LiZr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	13.468	0.752
mp-556719	K <sub>2</sub> Ti(SiO <sub>3</sub> ) <sub>3</sub>	7	0.689
mp-558692	Sb <sub>2</sub> ClO <sub>2</sub> F <sub>11</sub>	278.963	0.755
mp-707219	K <sub>2</sub> Zr <sub>2</sub> ZnH <sub>12</sub> (OF <sub>2</sub> ) <sub>6</sub>	736.939	0.931
mp-542013	Rb <sub>4</sub> Zr <sub>3</sub> Se <sub>14</sub>	16.964	0.328
mp-554376	Y <sub>4</sub> TiSi <sub>2</sub> (O <sub>3</sub> F <sub>2</sub> ) <sub>3</sub>	1000	0.397
mp-573751	AlTeCl <sub>7</sub>	7.102	0.765
mp-23089	SrTa <sub>2</sub> Bi <sub>2</sub> O <sub>9</sub>	102.905	0.447
mp-23614	SrNb <sub>2</sub> Bi <sub>2</sub> O <sub>9</sub>	140.741	0.454
mp-559314	Na <sub>5</sub> TiP <sub>2</sub> O <sub>9</sub> F	666.72	0.495
mp-540995	Rb <sub>5</sub> Nb <sub>3</sub> OF <sub>18</sub>	1000	0.259
mp-707343	ZrH <sub>12</sub> C <sub>2</sub> (NF) <sub>6</sub>	544.421	1.041
mp-27184	B <sub>10</sub> (Pb <sub>2</sub> O <sub>7</sub> ) <sub>3</sub>	14.465	1.533

mp-23929	ZnH <sub>8</sub> (NO <sub>3</sub> ) <sub>2</sub>	1000	0.447
mp-707981	Y <sub>4</sub> H <sub>9</sub> NO <sub>13</sub>	210.047	1.104
mp-541867	CsRe <sub>3</sub> (O <sub>3</sub> F <sub>5</sub> ) <sub>2</sub>	286.69	0.892
mp-29040	Li <sub>3</sub> Zr <sub>4</sub> F <sub>19</sub>	268.491	1.136
mp-6571	BaCuAs <sub>2</sub> O <sub>7</sub>	7.518	1.318
mp-549720	NbI <sub>2</sub> O	48.468	1.077
mp-18271	Na <sub>5</sub> Ti <sub>2</sub> Si <sub>2</sub> PO <sub>13</sub>	831.071	1.732
mp-540675	SeCl <sub>4</sub>	14.603	0.408
mp-559692	Ta <sub>2</sub> Cd(P <sub>2</sub> O <sub>7</sub> ) <sub>3</sub>	6.393	0.597
mp-556697	CaTa <sub>2</sub> Bi <sub>2</sub> O <sub>9</sub>	16.386	0.493
mp-541735	K <sub>4</sub> Ti <sub>3</sub> S <sub>14</sub>	22.788	0.416
mp-5274	ThTi <sub>2</sub> O <sub>6</sub>	16.951	1.792
mp-561396	Li <sub>3</sub> CrF <sub>6</sub>	23.7	0.551
mp-723419	Sb <sub>2</sub> S <sub>19</sub> F <sub>12</sub>	29.264	0.355
mp-672352	Al(ICl <sub>2</sub> ) <sub>3</sub>	29.304	0.346
mp-542121	Rb <sub>4</sub> Nb <sub>2</sub> Si <sub>6</sub> O <sub>23</sub>	239.444	1.336
mp-559000	SbSe <sub>6</sub> F <sub>6</sub>	7.999	1.079
mp-557256	RbP <sub>3</sub> PbO <sub>9</sub>	7.55	0.575
mp-680246	Cs <sub>4</sub> Zr <sub>3</sub> S <sub>14</sub>	18.488	0.387
mp-752467	NbO <sub>2</sub> F	18.971	1.412
mp-542067	Rb <sub>4</sub> Ti <sub>3</sub> S <sub>14</sub>	24.197	0.429
mp-762295	K <sub>2</sub> Mn <sub>3</sub> V <sub>2</sub> (HO <sub>3</sub> ) <sub>2</sub>	8.655	0.875
mp-22583	KInP <sub>2</sub> S <sub>7</sub>	6.417	0.88
mp-558360	AlAs <sub>3</sub> S <sub>5</sub> Cl <sub>4</sub>	16.729	1.25
mp-28774	KSnF <sub>3</sub>	5.689	0.975
mp-560745	AuN <sub>3</sub> O <sub>14</sub>	91.854	1.168
mp-557786	CaNb <sub>2</sub> P <sub>2</sub> O <sub>11</sub>	12.536	0.469
mp-680284	Rb <sub>6</sub> Ta <sub>4</sub> S <sub>25</sub>	12.145	0.261
mp-31003	B <sub>10</sub> H <sub>13</sub> I	26.178	0.443
mp-707782	K <sub>6</sub> Zr <sub>3</sub> H <sub>4</sub> (OF) <sub>12</sub>	48.215	0.516
mp-571250	TaP <sub>2</sub> Se <sub>2</sub> Cl <sub>5</sub>	54.341	0.907
mp-556728	TaP <sub>2</sub> S <sub>2</sub> Cl <sub>5</sub>	110.898	0.936
mp-556834	RuCl(OF <sub>3</sub> ) <sub>2</sub>	71.407	1.912
mp-505400	BaZr <sub>2</sub> F <sub>10</sub>	210.074	0.82
mp-559182	P <sub>2</sub> IrClF <sub>6</sub>	49.455	0.72
mp-554016	K <sub>4</sub> Ti <sub>2</sub> PO <sub>4</sub> F <sub>9</sub>	1000	1.229
mp-560322	K <sub>2</sub> RuN <sub>3</sub> Cl <sub>3</sub> O <sub>5</sub>	619.235	1.494
mp-530524	Zr <sub>3</sub> TiF <sub>15</sub>	41.929	1.293
mp-645364	Sr(PN <sub>2</sub> ) <sub>2</sub>	13.411	0.333
mp-27994	HgBrO <sub>3</sub>	6.458	0.948
mp-567515	Rb <sub>2</sub> Hg <sub>2</sub> PdBr <sub>8</sub>	19.514	1.01
mp-560297	LiTaSiO <sub>5</sub>	7.34	1.526
mp-8796	Sr <sub>2</sub> LiSc(B <sub>2</sub> O <sub>5</sub> ) <sub>2</sub>	9.845	1.371

mp-680410	$K_3Nb_2S_{11}$	5.78	0.333
mp-557470	$K_2Sb_2S(O_2F_3)_2$	10.262	1.773
mp-557301	$K_2Ti(Si_2O_5)_3$	515.602	1.043
mp-542863	$Ca_7NbSi_4O_{17}F$	752.817	1.229
mp-569561	$TeCl_4$	8.249	0.513
mp-561454	$KAu(SO_4)_2$	85.428	1.149
mp-19440	$LiVO_3$	28.172	0.844
mp-769404	$YSeO_3$	77.611	1.308
mp-30996	$RbAuBr_4$	15.044	2.149
mp-24522	$CuH_2SO_5$	10.268	3.727
mp-560032	$NaNb_2AsO_8$	5.251	2.276
mp-30930	$AlI_3$	8.877	1.683
mp-27926	$AsClF_8$	21.765	1.509
mp-676501	$K_3Sn_2S_3BrO_{12}$	961.711	1.289
mp-16691	$SrLi_2Ti_6O_{14}$	5.899	0.535
mp-640341	$Mo_3S_4Cl_4$	8.736	0.908
mp-27300	$RbAuBr_3$	197.527	1.113
mp-27678	$Y_2Cl_3$	22.792	1.798
mp-756570	$Rb_4SnO_3$	27.911	0.791
mp-849433	$SrTiH_4(OF_3)_2$	42.834	1.816
mp-13361	$Cd_2Cu(PO_4)_2$	72.015	4.315
mp-532315	$Sr_{17}(Ta_5S_{21})_2$	31.146	0.787
mp-667369	$Ca_2Zr_5Ti_2O_{16}$	7.519	0.741
mp-23569	$AsSe_4IF_6$	5.224	1.813
mp-541240	$Sb_3O_2F_5$	19.142	2.039
mp-626799	$ReH_3O_5$	5.39	3.158
mp-15543	$NaLiZr(Si_2O_5)_3$	36.614	0.466
mp-19432	$KNaV_2O_6$	13.294	1.097
mp-3283	$RbNbO_3$	15.27	2.752
mp-24215	$ScH_3Br_3N$	13.604	1.784
mp-29704	$Cs(SO_2)_2$	282.641	1.001
mp-554737	$CsAu_2F_7$	29.952	0.995
mp-505260	$Te_{10}Mo_3I_{10}$	5.745	1.187
mp-21533	$CuP_2PbO_7$	50.136	2.834
mp-568252	$Rb_2Hg_2PdCl_8$	48.555	1.637
mp-572526	$SbBr(OF_3)_2$	296.203	2.967
mp-6245	$K_5Nb_4O_{12}F$	1000	2.081
mp-684010	$K_8Ti_3P_2(O_4F_{11})_2$	644.604	1.197
mp-707811	$ZrH_8NOF_5$	120.473	2.653
mp-18957	$NaMnO_2$	10.029	2.203
mp-543042	$ScP(H_2O_3)_2$	6.227	2.472
mp-554706	$AsSe(ClF_2)_3$	25.016	1.919
mp-555059	$TcSb(OF_4)_2$	563.916	1.831



mp-30325	$\text{In}_2(\text{Se}_2\text{O}_5)_3$	11.794	1.105
mp-2650	$\text{P}_4\text{S}_7$	7.169	1.284
mp-679987	$\text{NbP}_2\text{S}_2\text{Cl}_5$	392.618	1.718
mp-568666	$\text{RbAuI}_3$	73.873	1.423
mp-554704	$\text{TiPHO}_5$	6.718	2.874
mp-569675	$\text{Tl}_2\text{Hg}_2\text{PdCl}_8$	44.225	1.907
mp-30998	$\text{Ti}(\text{NO}_3)_4$	82.762	1.392
mp-561065	$\text{MgTi}_2(\text{PO}_5)_2$	6.649	2.879
mp-707735	$\text{MgH}_{12}(\text{I}_4\text{O}_3)_2$	18.207	2.471
mp-28885	$\text{PSe}$	7.678	2.073
mp-556006	$\text{OsCl}_4\text{O}$	5.215	2.826
mp-28017	$\text{Na}_8\text{Ti}_5\text{O}_{14}$	114.356	2.574
mp-30309	$\text{Y}_2\text{Au}_5\text{F}_{21}$	9.798	2.312
mp-557792	$\text{HfSCl}_6\text{O}$	53.127	1.161
mp-560146	$\text{Ba}_{17}\text{Y}_{16}\text{Zn}_8\text{Pt}_4\text{O}_{57}$	20.123	0.339
mp-27297	$\text{ReCl}_4\text{O}$	52.846	2.328
mp-556689	$\text{KZrF}_5$	157.295	3.105
mp-581967	$\text{Nb}_2\text{O}_5$	175.162	2.406
mp-505794	$\text{ScH}_8\text{N}_2\text{Cl}_3$	68.959	2.91
mp-643570	$\text{NiH}_2\text{SO}_5$	28.218	3.828
mp-759651	$\text{ScH}_8\text{Br}_3\text{N}_2$	72.12	2.943
mp-867371	$\text{K}_2\text{Y}_4\text{Cu}_4\text{Se}_9$	27.094	3.531
mp-29602	$\text{K}_2\text{ZrTe}_3$	22.201	2.229
mp-30989	$\text{Sn}(\text{NO}_3)_4$	5.38	1.874
mp-28261	$\text{Na}_4\text{SnO}_3$	45.119	2.309
mp-559790	$\text{K}_2\text{Nb}_3\text{Cl}_7\text{O}_5$	10.044	1.485
mp-559150	$\text{Na}_9\text{ZrP}_4\text{ClO}_{16}$	117.255	4.688
mp-573581	$\text{Na}_2\text{TeSe}_3$	8.173	1.894
mp-23635	$\text{TlRe}_6\text{Se}_8\text{Cl}_3$	17.558	2.945
mp-542931	$\text{Bi}_2\text{B}_8\text{O}_{15}$	13.966	2.505
mp-561190	$\text{NaAu}(\text{SO}_4)_2$	67.572	6.162
mp-24741	$\text{ScH}_3\text{NCl}_3$	13.94	3.925
mp-40575	$\text{LiNi}_2\text{P}_4\text{H}_3\text{O}_{14}$	30.278	1.919
mp-638749	$\text{Te}_3(\text{PdBr})_4$	8.304	3.696
mp-607454	$\text{AlCl}_3(\text{NCl}_2)_3$	617.323	3.606
mp-28372	$\text{AuSeCl}_7$	87.366	3.042
mp-29027	$\text{Ta}_2\text{O}$	9.064	4.227
mp-29603	$\text{Rb}_2\text{ZrTe}_3$	10.878	2.961
mp-6118	$\text{Ca}_3\text{Cu}_3(\text{PO}_4)_4$	9.157	6.581
mp-579058	$\text{Cs}_4\text{Tc}_6\text{S}_{13}$	331.553	1.715
mp-19080	$\text{Na}_2\text{Mn}_3\text{O}_7$	40.891	7.179
mp-696078	$\text{K}_3\text{ZrH}_2\text{S}(\text{OF})_5$	977.22	2.646
mp-756748	$\text{ScH}_3(\text{ClO}_5)_2$	16.106	4.379

mp-18582	Rb <sub>2</sub> Ti(Si <sub>2</sub> O <sub>5</sub> ) <sub>3</sub>	115.967	3.292
mp-583581	W <sub>2</sub> NCl <sub>9</sub>	29.183	2.243
mp-757840	Ba <sub>4</sub> (PtO <sub>3</sub> ) <sub>3</sub>	8.272	3.692
mp-637112	AsS <sub>2</sub> IF <sub>6</sub>	67.595	2.478
mp-5449	Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub>	24.507	5.759
mp-504934	Sc <sub>2</sub> Cl <sub>3</sub>	83.524	3.307
mp-555207	BN(OF <sub>2</sub> ) <sub>2</sub>	616.756	7.495
mp-680168	K <sub>2</sub> Re <sub>3</sub> C <sub>2</sub> Se <sub>4</sub> N <sub>2</sub>	11.488	2.694
mp-867823	RbTaGeS <sub>5</sub>	195.612	7.264
mp-558153	Ba <sub>4</sub> Nb <sub>2</sub> (OF <sub>4</sub> ) <sub>3</sub>	1000	1.192
mp-8065	K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub>	5.952	6.088
mp-6698	Th <sub>2</sub> Cu(PO <sub>4</sub> ) <sub>3</sub>	94.794	2.523
mp-6748	Cs <sub>2</sub> Ti(Si <sub>2</sub> O <sub>5</sub> ) <sub>3</sub>	97.322	3.767
mp-560348	K <sub>6</sub> Nb <sub>4</sub> S <sub>25</sub>	7.345	1.887
mp-31034	ThF <sub>4</sub>	7.683	2.633
mp-865606	CsTaGeS <sub>5</sub>	342.591	7.844
mp-573340	Nb <sub>2</sub> Se <sub>17</sub> Cl <sub>12</sub>	7.8	2.662
mp-583762	Na <sub>3</sub> W <sub>3</sub> Cl <sub>13</sub>	167.611	1.927
mp-541155	VS <sub>4</sub>	73.238	3.387
mp-30954	Gal <sub>3</sub>	5.604	6.746
mp-554657	Na <sub>2</sub> Tl <sub>2</sub> B <sub>10</sub> O <sub>17</sub>	10.285	3.111
mp-541758	Ta <sub>2</sub> Se <sub>17</sub> Br <sub>12</sub>	7.18	3.077
mp-567734	AlAs <sub>3</sub> (SeCl) <sub>4</sub>	11.968	1.935
mp-581963	K <sub>4</sub> Hf <sub>3</sub> Te <sub>17</sub>	8.674	1.714
mp-28684	Sb <sub>3</sub> Se <sub>4</sub> F <sub>35</sub>	110.513	3.438
mp-758985	RbTiPS <sub>5</sub>	276.494	4.444
mp-554702	NaZr <sub>2</sub> NiF <sub>11</sub>	1000	9.393
mp-557289	TiP <sub>2</sub> Cl <sub>6</sub> O <sub>3</sub>	21.72	4.185
mp-15141	NaZr <sub>2</sub> ZnF <sub>11</sub>	174.022	9.722
mp-680498	RbTaPS <sub>6</sub>	18.91	2.623
mp-6903	Na <sub>2</sub> Ca <sub>4</sub> ZrNbSi <sub>4</sub> O <sub>17</sub> F	1000	8.669
mp-559292	P <sub>4</sub> Pb <sub>3</sub> Xe <sub>11</sub> F <sub>58</sub>	19.078	4.657
mp-4351	K <sub>2</sub> B <sub>2</sub> S <sub>7</sub>	5.326	7.665
mp-559602	AgSb(S <sub>2</sub> F <sub>3</sub> ) <sub>2</sub>	5.425	5.965
mp-542630	P <sub>4</sub> S <sub>9</sub>	13.52	7.557
mp-744764	Mn <sub>2</sub> P <sub>4</sub> (HO <sub>6</sub> ) <sub>4</sub>	24.557	18.046
mp-556837	AgAs(S <sub>2</sub> F <sub>3</sub> ) <sub>2</sub>	7.251	6.588
mp-559968	Na <sub>2</sub> NbAsO <sub>6</sub>	43.798	5.883
mp-698567	Cr(Bi <sub>2</sub> O <sub>12</sub> ) <sub>2</sub>	29.149	12.56
mp-14651	Zr <sub>2</sub> AgPdF <sub>11</sub>	151.913	15.531
mp-581877	Cs <sub>2</sub> Zr(Si <sub>2</sub> O <sub>5</sub> ) <sub>3</sub>	5.575	5.288
mp-4649	PdSe <sub>2</sub> O <sub>5</sub>	15.388	15.828
mp-582483	Na <sub>2</sub> Th(PO <sub>4</sub> ) <sub>2</sub>	707.888	8.262

mp-680048	RbW <sub>3</sub> Br <sub>7</sub>	5.237	3.851
mp-28075	K <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub>	108.599	29.567
mp-28079	Na <sub>2</sub> Mn <sub>2</sub> S <sub>3</sub>	13.111	7.235
mp-557863	K <sub>2</sub> Ag <sub>4</sub> Pt <sub>3</sub> (NO <sub>2</sub> ) <sub>12</sub>	1000	7.542
mp-505392	Ba <sub>3</sub> V <sub>4</sub> O <sub>13</sub>	21.692	9.037
mp-554626	Ba(BrO <sub>3</sub> ) <sub>2</sub>	10.039	13.071
mp-640389	Cs <sub>2</sub> Th(PS <sub>3</sub> ) <sub>3</sub>	29.473	8.789
mp-685928	Rb <sub>5</sub> Tc <sub>3</sub> S <sub>7</sub>	1000	7.251
mp-555231	Ba <sub>3</sub> Bi <sub>2</sub> (PO <sub>4</sub> ) <sub>4</sub>	37.493	7.803
mp-770948	Na <sub>3</sub> CoPCO <sub>7</sub>	18.044	21.714
mp-28368	TlAuCl <sub>4</sub>	31.851	20.874
mp-559336	NaNb <sub>3</sub> (TeO <sub>4</sub> ) <sub>4</sub>	421.234	31.033
mp-676313	RbMo <sub>3</sub> Br <sub>7</sub>	9.011	4.937
mp-677246	Ba <sub>6</sub> Ti <sub>2</sub> Nb <sub>10</sub> Si <sub>8</sub> O <sub>51</sub>	19.041	16.78
mp-18664	K <sub>4</sub> Ta <sub>2</sub> S <sub>11</sub>	7.005	20.739
mp-14935	P <sub>3</sub> RhO <sub>9</sub>	9.056	7.341
mp-554686	MgAs <sub>2</sub> (XeF <sub>9</sub> ) <sub>2</sub>	1000	16.96
mp-721471	CuPH <sub>4</sub> O <sub>5</sub> F	321.263	34.64
mp-569442	RbAuCl <sub>4</sub>	45.825	29.085
mp-761870	H <sub>3</sub> C <sub>3</sub> N <sub>6</sub> Cl	6.42	9.915
mp-28501	K <sub>2</sub> (NbCl <sub>3</sub> ) <sub>3</sub>	21.383	16.066
mp-674338	K <sub>16</sub> Zr <sub>12</sub> Se <sub>61</sub>	28.124	16.372
mp-505798	Na <sub>4</sub> TiSe <sub>4</sub>	11.083	14.4
mp-698655	KMgIn(MoO <sub>4</sub> ) <sub>3</sub>	13.333	20.776
mp-755492	NaCuP <sub>2</sub> O <sub>7</sub>	6.842	63.362
mp-862605	Rb <sub>4</sub> Zr <sub>6</sub> CCl <sub>18</sub>	18.411	28.79
mp-8989	Na <sub>2</sub> P <sub>2</sub> PdO <sub>7</sub>	36.655	66.25
mp-6467	Na <sub>2</sub> CuP <sub>2</sub> O <sub>7</sub>	20.11	102.782
mp-680237	K <sub>10</sub> Th <sub>3</sub> (P <sub>5</sub> S <sub>18</sub> ) <sub>2</sub>	8.846	29.878

Table S2 Data for the results shown in Figure 5-d (p-type doping) along with Material Project ID (MPID) and chemical formula.

MPID	Formula	Standard deviation of effective mass	$E_f$ (eV/ $\text{\AA}^2$ )
mp-10070	BaAg(PO <sub>3</sub> ) <sub>3</sub>	41.465	0.355
mp-10408	K <sub>2</sub> CN <sub>2</sub>	76.387	2.298
mp-10419	Na <sub>4</sub> ReN <sub>3</sub>	48.202	0.591
mp-10919	Rb <sub>2</sub> PtC <sub>2</sub>	41.749	0.15
mp-11923	Rb <sub>2</sub> TaCuS <sub>4</sub>	143.032	0.033
mp-11924	Rb <sub>2</sub> TaCuSe <sub>4</sub>	39.98	0.029
mp-12444	SrCuSF	96.916	0.455
mp-13445	Rb <sub>2</sub> As <sub>2</sub> Pt	375.636	0.113
mp-13738	CsCd(PO <sub>3</sub> ) <sub>3</sub>	37.395	0.313
mp-13743	K <sub>3</sub> GaO <sub>3</sub>	52.059	0.191
mp-13792	KTaP <sub>4</sub> O <sub>13</sub>	31.553	0.205
mp-13985	Li <sub>2</sub> PdF <sub>6</sub>	91.644	0.07
mp-13998	Na <sub>5</sub> AlO <sub>4</sub>	56.541	0.214
mp-14128	K <sub>2</sub> HfF <sub>6</sub>	32.977	0.201
mp-14364	Cs <sub>2</sub> LiAsO <sub>4</sub>	223.612	0.292
mp-14368	SbAsO <sub>5</sub>	38.927	0.227
mp-14401	NaCaPO <sub>4</sub>	106.408	0.257
mp-14484	KNaLi <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub>	156.301	0.349
mp-14488	Li <sub>3</sub> In <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	1000	5.59
mp-14511	NaAlGeO <sub>4</sub>	43.467	8.086
mp-14651	Zr <sub>2</sub> AgPdF <sub>11</sub>	306.05	15.951
mp-14653	AgSb <sub>2</sub> F <sub>12</sub>	207.196	0.013
mp-14734	CsCOF <sub>3</sub>	51.255	0.094
mp-14873	K <sub>4</sub> Nb <sub>8</sub> Si(P <sub>2</sub> O <sub>17</sub> ) <sub>2</sub>	90.699	0.314
mp-14972	Ba <sub>3</sub> Sc(BO <sub>3</sub> ) <sub>3</sub>	1000	0.13
mp-15107	KSnAsO <sub>5</sub>	132.049	0.226
mp-15108	RbSnAsO <sub>5</sub>	198.784	0.237
mp-15141	NaZr <sub>2</sub> ZnF <sub>11</sub>	1000	9.722
mp-15254	Li <sub>3</sub> AlF <sub>6</sub>	420.613	0.487
mp-15395	CsBePO <sub>4</sub>	715.706	0.354
mp-15433	K <sub>2</sub> Ga <sub>2</sub> Sb <sub>3</sub>	34.195	0.065
mp-15437	MgP <sub>4</sub> O <sub>11</sub>	79.608	3.451
mp-15472	Ba <sub>4</sub> LiCu(CO <sub>3</sub> ) <sub>2</sub>	1000	0.264
mp-15558	Li <sub>3</sub> GaF <sub>6</sub>	67.025	0.424
mp-15750	TaAgP <sub>4</sub> O <sub>13</sub>	72.872	0.212
mp-15845	SrLi <sub>4</sub> N <sub>2</sub>	223.471	0.274
mp-15865	RbScAsO <sub>4</sub> F	36.393	0.189

mp-15919	BeAgPO <sub>4</sub>	37.5	11.375
mp-1602	SiS <sub>2</sub>	42.316	0.017
mp-16194	Rb <sub>2</sub> SiO <sub>3</sub>	52.123	2.358
mp-16543	Cs <sub>3</sub> Cu <sub>4</sub> O <sub>4</sub>	59.506	0.351
mp-16828	Li <sub>3</sub> B <sub>3</sub> O <sub>12</sub>	39.151	0.272
mp-16980	Rb <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	99.406	1.125
mp-17015	K <sub>4</sub> GeO <sub>4</sub>	38.661	0.721
mp-1707	BaN <sub>6</sub>	119.849	0.297
mp-17077	K <sub>2</sub> YF <sub>5</sub>	38.215	0.354
mp-17085	Rb <sub>2</sub> Zr <sub>3</sub> OF <sub>12</sub>	51.089	0.092
mp-17166	K <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	123.576	1.34
mp-17229	RbBe <sub>3</sub> ZnF <sub>9</sub>	64.722	0.242
mp-17256	Rb <sub>2</sub> Hf <sub>3</sub> OF <sub>12</sub>	54.403	0.096
mp-17297	Na <sub>2</sub> GeF <sub>6</sub>	58.04	0.277
mp-17315	Zr <sub>3</sub> Tl <sub>2</sub> OF <sub>12</sub>	120.774	0.083
mp-17337	RbAsOF <sub>4</sub>	1000	3.077
mp-17394	NaYGeO <sub>4</sub>	57.394	0.549
mp-17401	Rb <sub>3</sub> Sn <sub>4</sub> Au	162.327	0.063
mp-17447	Sr <sub>10</sub> P <sub>6</sub> SO <sub>24</sub>	63.346	0.191
mp-17512	Zn(AuF <sub>4</sub> ) <sub>2</sub>	36.972	0.227
mp-17516	Ca <sub>10</sub> P <sub>6</sub> SeO <sub>24</sub>	142.124	0.216
mp-17539	KAsOF <sub>4</sub>	1000	2.789
mp-17650	KGaS <sub>2</sub>	38.93	0.081
mp-17693	SrCdP <sub>2</sub> O <sub>7</sub>	59.739	1.885
mp-17730	K <sub>2</sub> SnO <sub>3</sub>	47.597	0.283
mp-17761	CaGeO <sub>3</sub>	35.803	1.113
mp-17771	NaMg <sub>4</sub> (AsO <sub>4</sub> ) <sub>3</sub>	65.098	0.377
mp-17850	K <sub>3</sub> NaTh <sub>2</sub> O <sub>6</sub>	38.186	0.516
mp-17886	K <sub>2</sub> Al <sub>2</sub> Sb <sub>3</sub>	31.445	0.068
mp-17888	K <sub>2</sub> Zr <sub>3</sub> OF <sub>12</sub>	297.491	0.057
mp-17941	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	852.73	0.536
mp-17951	Cs <sub>4</sub> Zn <sub>3</sub> F <sub>10</sub>	47.488	0.142
mp-18003	CsCuS <sub>4</sub>	55.095	0.034
mp-18065	BaCaAlF <sub>7</sub>	355.368	0.537
mp-18183	YSnF <sub>7</sub>	266.442	0.957
mp-18253	SrGa <sub>4</sub> O <sub>7</sub>	74.4	0.82
mp-18271	Na <sub>5</sub> Ti <sub>2</sub> Si <sub>2</sub> PO <sub>13</sub>	1000	1.809
mp-18343	BaMgP <sub>2</sub> O <sub>7</sub>	60.512	1.427
mp-18347	KAlTe <sub>2</sub>	44.584	0.055
mp-18429	KAg(NO <sub>3</sub> ) <sub>2</sub>	146.466	0.08
mp-18460	K <sub>2</sub> Si <sub>6</sub> GeO <sub>15</sub>	47.19	0.858
mp-18463	RbZnPO <sub>4</sub>	814.522	0.306

mp-18464	Rb <sub>4</sub> GeO <sub>4</sub>	82.165	0.4
mp-18500	K <sub>3</sub> Sn <sub>4</sub> Au	63.539	0.068
mp-18582	Rb <sub>2</sub> Ti(Si <sub>2</sub> O <sub>5</sub> ) <sub>3</sub>	56.681	3.293
mp-18687	NbF <sub>5</sub>	80.099	0.289
mp-18702	AgPO <sub>3</sub>	35.846	3.348
mp-18809	Li <sub>2</sub> VGeO <sub>5</sub>	41.355	0.468
mp-18832	K <sub>2</sub> VO <sub>2</sub> F <sub>3</sub>	41.004	0.157
mp-18860	Li <sub>2</sub> VSiO <sub>5</sub>	77.685	0.658
mp-18935	K <sub>2</sub> V(PO <sub>4</sub> ) <sub>2</sub>	1000	0.637
mp-18953	NaV(OF) <sub>2</sub>	54.461	0.92
mp-18997	LiMnPO <sub>4</sub>	48.838	0.181
mp-19026	Na <sub>4</sub> FeO <sub>3</sub>	97.224	0.706
mp-19037	K <sub>2</sub> W <sub>2</sub> O <sub>7</sub>	677.551	0.298
mp-19167	Rb <sub>2</sub> NiO <sub>2</sub>	1000	0.039
mp-19252	K <sub>2</sub> NiO <sub>2</sub>	1000	0.05
mp-19261	Na <sub>3</sub> MnPCO <sub>7</sub>	52.405	0.377
mp-19334	Na <sub>4</sub> WO <sub>5</sub>	48.527	8.514
mp-19388	BaNi <sub>2</sub> (AsO <sub>4</sub> ) <sub>2</sub>	51.825	0.199
mp-19443	WO <sub>3</sub>	541.643	0.328
mp-19488	Rb <sub>2</sub> MnSO <sub>4</sub> F <sub>3</sub>	128.85	0.279
mp-19508	SrCr(Si <sub>2</sub> O <sub>5</sub> ) <sub>2</sub>	1000	0.314
mp-19512	BaV <sub>2</sub> (PO <sub>3</sub> ) <sub>2</sub>	321.495	0.405
mp-19514	Sr <sub>2</sub> CrO <sub>4</sub>	33.178	0.116
mp-19518	BaCr(Si <sub>2</sub> O <sub>5</sub> ) <sub>2</sub>	316.448	0.353
mp-19660	Sr <sub>2</sub> V <sub>2</sub> O <sub>7</sub>	75.99	0.091
mp-19893	PbCO <sub>3</sub>	33.228	0.257
mp-19956	Ba <sub>2</sub> InO <sub>3</sub> F	1000	0.098
mp-20352	Ba <sub>3</sub> In <sub>2</sub> O <sub>6</sub>	756.838	0.095
mp-20546	Ba <sub>2</sub> In <sub>2</sub> O <sub>5</sub>	1000	0.184
mp-2131	SrN <sub>6</sub>	54.119	0.154
mp-21760	Rb <sub>2</sub> In <sub>2</sub> Sb <sub>3</sub>	34.439	0.057
mp-21835	Cs <sub>2</sub> In <sub>2</sub> Sb <sub>3</sub>	38.878	0.053
mp-22216	In <sub>2</sub> S <sub>3</sub>	111.485	0.065
mp-22661	InAg(PS <sub>3</sub> ) <sub>2</sub>	35.454	0.023
mp-22935	CsBrF	42.677	0.141
mp-22977	CsVCl <sub>3</sub>	941.685	0.114
mp-22978	Rb <sub>2</sub> MnCl <sub>4</sub>	1000	0.029
mp-22991	CsVI <sub>3</sub>	123.316	0.085
mp-23038	CsVBr <sub>3</sub>	370.219	0.096
mp-23162	ZrCl <sub>2</sub>	164.1	0.018
mp-23174	ReCl <sub>3</sub>	107.61	0.136
mp-23184	BCl <sub>3</sub>	406.905	0.009

mp-23189	BI <sub>3</sub>	257.1	0.012
mp-23225	BBr <sub>3</sub>	397.264	0.01
mp-23267	BeCl <sub>2</sub>	124.691	0.013
mp-23403	SbIF <sub>5</sub>	1000	0.34
mp-23434	Al <sub>2</sub> CuCl <sub>8</sub>	33.103	0.241
mp-23515	K <sub>2</sub> CoCl <sub>4</sub>	45.879	0.069
mp-23550	KBrF <sub>4</sub>	40.266	0.289
mp-23568	XeN <sub>2</sub> (OF <sub>4</sub> ) <sub>2</sub>	112.556	0.065
mp-23576	CsSbClF <sub>3</sub>	60.886	0.086
mp-23598	SiO <sub>3</sub> F	59.668	0.159
mp-23634	KSbClF <sub>3</sub>	54.807	0.059
mp-23660	KNa <sub>22</sub> C <sub>2</sub> S <sub>6</sub> ClO <sub>42</sub>	1000	0.15
mp-23701	CaB <sub>8</sub> H <sub>4</sub> O <sub>15</sub>	268.138	2.556
mp-23702	LiH <sub>2</sub> N	148.954	0.527
mp-23748	MgBHO <sub>3</sub>	33.791	0.642
mp-23776	BeH <sub>4</sub> (ClO <sub>2</sub> ) <sub>2</sub>	34.684	0.392
mp-23780	Na <sub>3</sub> H(SO <sub>4</sub> ) <sub>2</sub>	60.694	0.684
mp-23800	KHSO <sub>4</sub>	182.417	0.255
mp-23846	KHF <sub>2</sub>	40.637	0.228
mp-23904	BaH <sub>4</sub> O <sub>3</sub>	37.764	0.109
mp-24007	Rb <sub>2</sub> HBrO	118.278	0.432
mp-24022	RbH <sub>3</sub> (SeO <sub>3</sub> ) <sub>2</sub>	319.111	0.055
mp-24030	ZrP <sub>2</sub> (HO <sub>3</sub> ) <sub>2</sub>	34.289	0.403
mp-24058	AgBH <sub>2</sub> OF <sub>4</sub>	94.627	0.034
mp-24072	AgH <sub>5</sub> S <sub>2</sub> O <sub>9</sub>	192.166	0.501
mp-24097	Mg <sub>3</sub> Si <sub>2</sub> H <sub>4</sub> O <sub>9</sub>	874.274	0.072
mp-24112	Rb <sub>2</sub> ZnH <sub>12</sub> (SO <sub>4</sub> ) <sub>2</sub>	45.946	0.97
mp-24118	H <sub>10</sub> SO <sub>8</sub>	64.247	0.253
mp-2414	SO <sub>3</sub>	46.657	0.009
mp-24141	CsHSeO <sub>4</sub>	63.503	0.052
mp-24144	Na <sub>5</sub> ScH <sub>4</sub> (C <sub>2</sub> O <sub>7</sub> ) <sub>2</sub>	43.771	0.279
mp-2416	YF <sub>3</sub>	38.522	0.092
mp-24160	BH <sub>3</sub> NF <sub>3</sub>	43.809	0.415
mp-24193	NaH <sub>3</sub> O <sub>2</sub>	233.038	0.037
mp-24196	Tl <sub>2</sub> CuH <sub>12</sub> (SO <sub>4</sub> ) <sub>2</sub>	287.037	0.596
mp-24230	HCNO	106.142	1.843
mp-24302	CdAs <sub>2</sub> HF <sub>13</sub>	169.244	0.165
mp-24308	AlSiH <sub>4</sub> C <sub>3</sub> Cl <sub>2</sub> O	38.546	0.557
mp-24340	K <sub>3</sub> GeH <sub>3</sub> S <sub>3</sub> O <sub>2</sub>	41.239	0.045
mp-24428	KH <sub>2</sub> N	227.471	0.066
mp-24460	MgH <sub>4</sub> (SO <sub>4</sub> ) <sub>4</sub>	31.603	0.505
mp-2452	P <sub>2</sub> O <sub>5</sub>	276.733	0.248

mp-24656	YH <sub>3</sub> (SO <sub>4</sub> ) <sub>3</sub>	88.053	0.118
mp-24683	RbZn <sub>2</sub> P <sub>2</sub> HO <sub>8</sub>	269.408	0.544
mp-24747	Na <sub>3</sub> H <sub>6</sub> Rh	50.151	0.247
mp-24757	AlBP <sub>2</sub> H <sub>5</sub> NO <sub>9</sub>	89.354	0.473
mp-24761	RbGaBP <sub>2</sub> HO <sub>9</sub>	48.344	0.51
mp-24822	Na <sub>5</sub> Al <sub>3</sub> H <sub>14</sub>	45.009	0.167
mp-25305	Y <sub>2</sub> Ti <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	104.897	0.394
mp-2632	TlF <sub>3</sub>	32.158	0.045
mp-27094	LiSn <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	39.449	6.108
mp-27169	KTa <sub>3</sub> O <sub>13</sub>	93.502	0.177
mp-27212	Sb <sub>2</sub> IF <sub>15</sub>	516.296	0.293
mp-27213	AuBr <sub>3</sub>	184.201	0.208
mp-27256	Sb <sub>2</sub> (S <sub>2</sub> O <sub>7</sub> ) <sub>3</sub>	34.965	1.047
mp-27288	RuXeF <sub>7</sub>	889.614	3.571
mp-27297	ReCl <sub>4</sub> O	48.064	2.425
mp-27307	Na <sub>2</sub> ZrF <sub>6</sub>	609.02	0.29
mp-27308	SbBrF <sub>8</sub>	42.724	0.251
mp-27322	Nb <sub>2</sub> Te <sub>3</sub> O <sub>11</sub>	143.941	0.327
mp-27344	Be(BH <sub>4</sub> ) <sub>2</sub>	52.712	0.116
mp-27345	Na <sub>3</sub> BiO <sub>4</sub>	38.823	11.373
mp-27349	BSF <sub>7</sub>	383.077	0.399
mp-27353	SbCl <sub>2</sub> F <sub>3</sub>	1000	3.807
mp-27376	Rb <sub>6</sub> Si <sub>10</sub> O <sub>23</sub>	72.924	0.226
mp-27384	AgIO <sub>3</sub>	59.98	0.044
mp-27389	KSb <sub>2</sub> F <sub>7</sub>	98.386	0.025
mp-27396	NiCl <sub>2</sub>	114.004	0.029
mp-27399	SbBr <sub>3</sub>	32.221	0.012
mp-27425	Sr(HO) <sub>2</sub>	45.673	0.106
mp-27452	Al <sub>2</sub> PdCl <sub>8</sub>	116.934	0.319
mp-27472	NbSbF <sub>10</sub>	102.484	0.292
mp-27473	Sb <sub>2</sub> TeF <sub>14</sub>	1000	0.193
mp-27556	CsNbO <sub>3</sub>	82.062	0.351
mp-27579	Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub>	257.254	0.27
mp-27648	Te <sub>2</sub> Br	48.04	0.098
mp-27664	TiPCl <sub>9</sub>	55.331	0.177
mp-27674	K <sub>5</sub> As <sub>3</sub> O <sub>10</sub>	121.894	0.521
mp-27692	BaB <sub>4</sub> O <sub>7</sub>	60.276	1.135
mp-27697	ThI <sub>4</sub>	66.134	0.658
mp-27702	InClO	38.623	0.011
mp-27786	SbAs <sub>2</sub> Cl <sub>13</sub>	41.19	0.042
mp-27792	K <sub>2</sub> S <sub>3</sub> O <sub>16</sub>	1000	0.403
mp-27849	TiBrN	1000	0.016



mp-27850	TiNCl	1000	0.015
mp-27863	AlClO	38.261	0.012
mp-27866	MoS <sub>2</sub> Cl <sub>3</sub>	68.11	2.035
mp-27915	K <sub>2</sub> BeO <sub>2</sub>	1000	1.496
mp-27921	Ti <sub>2</sub> PdCl <sub>3</sub>	68.51	0.08
mp-27988	IF <sub>7</sub>	252.788	0.004
mp-27998	KNb <sub>3</sub> O <sub>8</sub>	134.539	0.415
mp-28037	Mo <sub>2</sub> SBr <sub>2</sub>	73.71	0.126
mp-28064	SbS <sub>4</sub> Cl <sub>3</sub>	57.507	5.73
mp-28065	ThNCl	56.654	0.063
mp-28066	ThBrN	65.802	0.044
mp-28085	KAs <sub>2</sub> F <sub>7</sub>	56.973	0.645
mp-28125	H <sub>11</sub> NF <sub>8</sub>	299.72	0.32
mp-28163	K <sub>2</sub> PdF <sub>4</sub>	39.728	0.086
mp-28174	Pd(SCl <sub>3</sub> ) <sub>2</sub>	93.732	0.34
mp-28185	TaClF <sub>8</sub>	70.05	0.243
mp-28202	K <sub>3</sub> NO <sub>4</sub>	37.314	0.092
mp-28204	CsH <sub>3</sub> O <sub>4</sub>	49.284	0.402
mp-28211	IrS <sub>3</sub> Cl <sub>11</sub>	123.291	0.049
mp-28233	MnCl <sub>2</sub>	41.814	0.019
mp-28257	SO <sub>2</sub> F <sub>2</sub>	47.62	0.007
mp-28270	KCuS	1000	0.039
mp-28273	K <sub>3</sub> CuO <sub>2</sub>	45.875	0.12
mp-28306	MnBr <sub>2</sub>	39.541	0.022
mp-28330	TeAuCl <sub>7</sub>	1000	0.211
mp-28375	Ta <sub>2</sub> AgF <sub>12</sub>	361.697	0.553
mp-28387	PAuCl <sub>8</sub>	206.169	0.075
mp-28428	K <sub>3</sub> Nb <sub>2</sub> Se <sub>11</sub>	407.069	0.265
mp-28479	Sc <sub>2</sub> CCl <sub>2</sub>	1000	0.011
mp-28541	Bi <sub>2</sub> P <sub>4</sub> O <sub>13</sub>	780.371	0.963
mp-28575	W(S <sub>4</sub> Cl <sub>3</sub> ) <sub>2</sub>	86.047	0.137
mp-28577	RbBrF <sub>4</sub>	87.135	0.006
mp-28627	K <sub>4</sub> Br <sub>2</sub> O	152.929	0.024
mp-28634	KI <sub>3</sub> F <sub>16</sub>	569.98	0.164
mp-2865	K <sub>2</sub> CuF <sub>4</sub>	193.04	0.046
mp-28676	S <sub>2</sub> O <sub>3</sub> F <sub>2</sub>	42.764	0.289
mp-28683	Ta(ICI) <sub>2</sub>	118.127	0.022
mp-28684	Sb <sub>3</sub> Se <sub>8</sub> F <sub>35</sub>	178.307	3.438
mp-28726	KYF <sub>4</sub>	231.912	0.086
mp-28744	Y <sub>4</sub> OsBr <sub>4</sub>	63.002	0.133
mp-28778	KScF <sub>4</sub>	42.74	0.826
mp-28788	Ba <sub>4</sub> (AuO <sub>6</sub> ) <sub>2</sub>	56.272	0.264

mp-28804	TcO <sub>2</sub> F <sub>3</sub>	80.725	0.385
mp-28859	K <sub>2</sub> HgS <sub>2</sub>	493.024	0.037
mp-28883	GeP <sub>2</sub> O <sub>7</sub>	51.775	0.258
mp-28913	Ti <sub>6</sub> CCl <sub>14</sub>	96.222	0.203
mp-28974	TiF <sub>4</sub>	137.524	0.237
mp-28985	SbSeCl <sub>9</sub>	98.748	0.298
mp-29030	ThTi <sub>3</sub> F <sub>7</sub>	48.71	0.085
mp-29040	Li <sub>3</sub> Zr <sub>4</sub> F <sub>19</sub>	872.779	1.138
mp-29085	Sr <sub>5</sub> Zr <sub>3</sub> F <sub>22</sub>	81.824	0.302
mp-29095	H <sub>4</sub> SO <sub>5</sub>	32.859	1.46
mp-29114	Re <sub>3</sub> Te <sub>4</sub> Cl <sub>5</sub>	54.136	0.117
mp-29144	KTe <sub>2</sub> F <sub>9</sub>	34.814	0.165
mp-29149	Li <sub>4</sub> NCl	64.134	0.239
mp-29193	Nb <sub>2</sub> Se <sub>4</sub> O <sub>13</sub>	44.935	0.347
mp-29226	Ca <sub>3</sub> Ga <sub>4</sub> O <sub>9</sub>	38.803	0.399
mp-29264	SiCl <sub>7</sub>	33.727	0.124
mp-29274	P <sub>2</sub> PdO <sub>6</sub>	248.025	0.251
mp-29276	Cd <sub>2</sub> P <sub>6</sub> O <sub>17</sub>	94.408	3.713
mp-29300	Ga <sub>2</sub> CuCl <sub>8</sub>	258.235	0.231
mp-29330	K <sub>2</sub> H <sub>5</sub> F <sub>7</sub>	409.557	0.686
mp-29363	Rb <sub>3</sub> GaP <sub>2</sub>	33.943	0.091
mp-29369	Sb <sub>7</sub> F <sub>29</sub>	65.329	0.233
mp-29386	K <sub>6</sub> Sn <sub>2</sub> Se <sub>7</sub>	44.03	0.212
mp-29391	SbCl <sub>3</sub> F <sub>2</sub>	298.863	0.117
mp-29411	Na <sub>2</sub> B <sub>2</sub> S <sub>5</sub>	254.298	0.15
mp-29449	Rb <sub>4</sub> Cu <sub>4</sub> Cl <sub>9</sub>	720.388	2.207
mp-29568	RuS <sub>3</sub> Cl <sub>8</sub>	97.974	0.229
mp-29693	Rb <sub>2</sub> AgCl <sub>3</sub>	45.127	0.038
mp-29694	KAuBr <sub>4</sub>	63.043	0.126
mp-29704	Cs(SO <sub>2</sub> ) <sub>2</sub>	166.096	1.002
mp-29794	Ba <sub>2</sub> PdF <sub>6</sub>	786.129	0.312
mp-29871	Na <sub>4</sub> SeO <sub>5</sub>	65.976	0.993
mp-29877	K <sub>2</sub> ReH <sub>9</sub>	44.463	0.323
mp-29878	Re <sub>2</sub> P <sub>2</sub> Cl <sub>13</sub>	49.037	0.122
mp-29940	SbClF <sub>10</sub>	129.999	0.012
mp-29966	NOF	38.936	0.008
mp-29970	Cs <sub>3</sub> Sb <sub>5</sub> O <sub>14</sub>	79.605	0.21
mp-30003	AuSO <sub>4</sub>	42.77	0.19
mp-30005	Rb <sub>6</sub> Br <sub>4</sub> O	56.333	0.06
mp-30010	AsKrF <sub>7</sub>	520.887	0.085
mp-30011	SbKrF <sub>7</sub>	236.739	0.079
mp-30012	BiKrF <sub>7</sub>	98.53	0.107

mp-30023	Ba(AlCl <sub>4</sub> ) <sub>2</sub>	54.072	0.178
mp-30103	AuF <sub>5</sub>	49.4	0.009
mp-30120	K <sub>3</sub> BiO <sub>4</sub>	51.776	0.672
mp-30130	Bi <sub>4</sub> I <sub>2</sub> O <sub>5</sub>	51.695	0.618
mp-30139	BeBr <sub>2</sub>	89.954	0.013
mp-30142	Be <sub>4</sub> N <sub>6</sub> O <sub>19</sub>	1000	0.309
mp-30213	Sb <sub>2</sub> BrF <sub>15</sub>	98.469	0.226
mp-30315	Ca <sub>3</sub> BN <sub>3</sub>	71.811	0.199
mp-30320	RbHfF <sub>5</sub>	43.961	0.178
mp-30325	In <sub>2</sub> (Se <sub>2</sub> O <sub>5</sub> ) <sub>3</sub>	34.521	1.105
mp-30934	As(Sd) <sub>3</sub>	40.519	0.035
mp-30943	MgPSe <sub>3</sub>	607.328	0.021
mp-30979	GaPS <sub>4</sub>	42.264	2.158
mp-30983	CaP <sub>4</sub> O <sub>11</sub>	40.226	1.849
mp-30989	Sn(NO <sub>3</sub> ) <sub>4</sub>	102.293	1.874
mp-31040	NbCl <sub>4</sub>	311.268	1.383
mp-31050	Cl <sub>2</sub> O <sub>7</sub>	50.657	0.008
mp-31060	Rb <sub>4</sub> (BS) <sub>9</sub>	31.243	0.323
mp-31073	Na <sub>3</sub> B <sub>6</sub> O <sub>12</sub>	58.367	0.501
mp-3125	K <sub>3</sub> Zn <sub>2</sub> F <sub>7</sub>	212.99	0.042
mp-31373	H <sub>18</sub> SO <sub>12</sub>	1000	1.694
mp-3247	Cs <sub>2</sub> TiS <sub>3</sub>	38.701	0.144
mp-3281	AlBO <sub>9</sub>	58.979	0.53
mp-3283	RbNbO <sub>3</sub>	37.601	2.779
mp-3318	Na <sub>2</sub> BeF <sub>4</sub>	32.236	0.241
mp-34022	Mg <sub>2</sub> SnO <sub>4</sub>	57.419	0.264
mp-3416	Na <sub>3</sub> AlF <sub>6</sub>	62.631	0.896
mp-3637	YOF	75.031	0.154
mp-36381	Sn(PS <sub>3</sub> ) <sub>2</sub>	48.48	0.142
mp-3765	Sr(PO <sub>3</sub> ) <sub>2</sub>	434.796	0.299
mp-3775	Na <sub>2</sub> SiF <sub>6</sub>	42.421	0.405
mp-3779	CrSiTe <sub>3</sub>	92.944	0.039
mp-3788	SrAl <sub>4</sub> O <sub>7</sub>	88.266	1.765
mp-3848	BaGe <sub>4</sub> O <sub>9</sub>	31.846	0.439
mp-3870	Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub>	84.024	0.35
mp-3881	BaZnF <sub>4</sub>	45.195	0.277
mp-39140	Na <sub>4</sub> Al <sub>3</sub> Si <sub>3</sub> HO <sub>13</sub>	481.206	0.487
mp-3928	Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub>	59.727	0.407
mp-3963	K <sub>2</sub> CO <sub>3</sub>	53.555	0.124
mp-3975	K <sub>2</sub> TaF <sub>7</sub>	71.01	0.114
mp-39823	Na <sub>8</sub> Al <sub>6</sub> Si <sub>6</sub> CO <sub>27</sub>	1000	0.288
mp-4009	BaPdS <sub>2</sub>	43.652	0.135

mp-40144	SiNiH <sub>12</sub> (OF) <sub>6</sub>	36.413	0.335
mp-40575	LiNi <sub>2</sub> P <sub>4</sub> H <sub>3</sub> O <sub>14</sub>	33.208	1.102
mp-4138	Rb <sub>2</sub> CO <sub>3</sub>	43.842	0.112
mp-41473	CsTiNiOF <sub>5</sub>	43.314	0.45
mp-4185	Na <sub>3</sub> ScF <sub>6</sub>	42.774	6.116
mp-43068	Na <sub>3</sub> Al <sub>3</sub> Si <sub>3</sub> AgBrO <sub>12</sub>	330.145	0.315
mp-4531	NaNO <sub>3</sub>	233.466	0.127
mp-4649	PdSe <sub>2</sub> O <sub>5</sub>	97.616	15.793
mp-4661	ScOF	113.203	1.87
mp-4691	Ag <sub>2</sub> CO <sub>3</sub>	36.994	0.276
mp-4758	K <sub>2</sub> NbF <sub>7</sub>	95.126	0.097
mp-5039	KPO <sub>3</sub>	62.174	0.483
mp-504427	Ti <sub>3</sub> PbO <sub>7</sub>	241.862	0.364
mp-504894	MgH <sub>12</sub> SeO <sub>9</sub>	63.329	0.12
mp-505234	BaP <sub>2</sub> PbO <sub>7</sub>	84.65	0.465
mp-505260	Te <sub>10</sub> Mo <sub>3</sub> I <sub>10</sub>	31.917	1.187
mp-505368	As <sub>2</sub> Pb <sub>3</sub> O <sub>8</sub>	37.497	8.354
mp-505392	Ba <sub>3</sub> V <sub>4</sub> O <sub>13</sub>	69.252	9.036
mp-505400	BaZr <sub>2</sub> F <sub>10</sub>	45.541	0.82
mp-505727	NCIO	49.827	0.007
mp-505771	K <sub>2</sub> NaH <sub>3</sub> (CO <sub>4</sub> ) <sub>2</sub>	110.91	0.08
mp-505794	ScH <sub>3</sub> N <sub>2</sub> Cl <sub>3</sub>	79.274	2.902
mp-505798	Na <sub>4</sub> TiSe <sub>4</sub>	50.041	14.416
mp-505814	CsBa <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub>	1000	0.521
mp-5073	RbNO <sub>3</sub>	151.791	0.183
mp-510018	Rb <sub>2</sub> CuH <sub>12</sub> (SeO <sub>7</sub> ) <sub>2</sub>	1000	0.312
mp-510075	Cs <sub>7</sub> Au <sub>5</sub> O <sub>2</sub>	1000	0.04
mp-510076	Rb <sub>7</sub> Au <sub>5</sub> O <sub>2</sub>	1000	0.047
mp-530449	Ca <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>	159.639	0.247
mp-530524	Zr <sub>3</sub> TiF <sub>15</sub>	1000	1.293
mp-531826	Li <sub>2</sub> PtO <sub>3</sub>	34.665	0.326
mp-532315	Sr <sub>17</sub> (Ta <sub>5</sub> S <sub>21</sub> ) <sub>2</sub>	38.198	0.787
mp-5348	MgCO <sub>3</sub>	35.699	0.328
mp-5401	Sr <sub>2</sub> B <sub>2</sub> O <sub>5</sub>	39.374	0.334
mp-540584	K <sub>2</sub> PdO <sub>2</sub>	68.439	0.089
mp-540629	Al <sub>2</sub> Te <sub>2</sub> Cl <sub>7</sub>	57.275	0.187
mp-540656	Sb(S <sub>2</sub> l) <sub>3</sub>	42.345	0.03
mp-540668	BS <sub>2</sub>	488.003	0.718
mp-540760	FePCL <sub>8</sub>	51.436	0.065
mp-540862	Ba <sub>2</sub> CaMgAl <sub>2</sub> F <sub>14</sub>	126.218	0.165
mp-540868	Ca <sub>3</sub> Si(ClO <sub>2</sub> ) <sub>2</sub>	1000	0.34
mp-540995	Rb <sub>5</sub> Nb <sub>3</sub> OF <sub>18</sub>	106.425	0.27

mp-541114	Sr <sub>2</sub> RhF <sub>7</sub>	67.681	0.134
mp-541134	TeAuBr <sub>8</sub>	41.207	0.117
mp-541240	Sb <sub>3</sub> O <sub>2</sub> F <sub>5</sub>	31.821	2.039
mp-541393	K <sub>3</sub> NaRe <sub>2</sub> O <sub>9</sub>	68.739	0.101
mp-541415	KH <sub>5</sub> S <sub>2</sub> O <sub>9</sub>	294.862	0.281
mp-541459	KSnPO <sub>5</sub>	40.672	0.241
mp-541656	AuCl <sub>2</sub>	32.778	0.169
mp-541682	K <sub>3</sub> AlAs <sub>2</sub>	174.942	3.335
mp-541684	K <sub>3</sub> AlP <sub>2</sub>	282.448	2.887
mp-541747	MgGeH <sub>12</sub> (OF) <sub>6</sub>	64.462	1.824
mp-541758	Ta <sub>2</sub> Se <sub>17</sub> Br <sub>12</sub>	97.06	3.078
mp-541766	Rb <sub>3</sub> InP <sub>2</sub>	32.043	3.071
mp-541771	Bi <sub>4</sub> RuI <sub>2</sub>	173.3	0.107
mp-541772	Bi <sub>4</sub> RuBr <sub>2</sub>	136.43	9.824
mp-541867	CsRe <sub>3</sub> (O <sub>3</sub> F <sub>5</sub> ) <sub>2</sub>	1000	0.878
mp-541932	H <sub>13</sub> S <sub>2</sub> N <sub>3</sub> O <sub>8</sub>	136.189	0.383
mp-542085	Sr <sub>2</sub> GeO <sub>4</sub>	47.668	1.8
mp-542129	CsAlBP <sub>2</sub> HO <sub>9</sub>	32.003	0.683
mp-542130	RbAlBP <sub>2</sub> HO <sub>9</sub>	49.159	0.649
mp-542148	Sb <sub>2</sub> N <sub>5</sub> F <sub>11</sub>	177.176	0.308
mp-542168	Cs <sub>2</sub> CoSiO <sub>4</sub>	1000	0.27
mp-542417	Cs <sub>2</sub> MgH <sub>12</sub> (SO <sub>7</sub> ) <sub>2</sub>	44.707	0.99
mp-542451	Rb <sub>2</sub> NaAl <sub>3</sub> F <sub>12</sub>	317.444	0.247
mp-542662	Ga <sub>2</sub> Te <sub>2</sub> Cl <sub>7</sub>	49.858	0.211
mp-542863	Ca <sub>7</sub> NbSi <sub>4</sub> O <sub>17</sub> F	209.533	1.229
mp-542931	Bi <sub>2</sub> B <sub>6</sub> O <sub>15</sub>	1000	2.505
mp-546279	ScBrO	49.938	0.014
mp-546285	NbI <sub>3</sub> O	172.674	1.072
mp-547244	SrBiClO <sub>2</sub>	153.051	0.262
mp-5476	Cs <sub>4</sub> Mg <sub>3</sub> F <sub>10</sub>	34.135	0.178
mp-5504	BaCO <sub>3</sub>	74.578	0.283
mp-551456	Ba <sub>2</sub> CuClO <sub>2</sub>	63.313	0.228
mp-552234	SrBiBrO <sub>2</sub>	49.199	0.251
mp-552537	Sr <sub>2</sub> CuBrO <sub>2</sub>	235.363	0.252
mp-552934	Ba <sub>2</sub> CuBrO <sub>2</sub>	49.444	0.226
mp-554012	SClO <sub>2</sub> F	33.774	0.116
mp-554016	K <sub>4</sub> Ti <sub>2</sub> PO <sub>4</sub> F <sub>9</sub>	643.841	1.237
mp-554111	Ti <sub>3</sub> Tl <sub>3</sub> (PO <sub>4</sub> ) <sub>5</sub>	678.824	0.196
mp-554129	Br <sub>3</sub> N(O <sub>2</sub> F <sub>9</sub> ) <sub>2</sub>	1000	0.168
mp-554146	K <sub>14</sub> In <sub>4</sub> O <sub>13</sub>	419.086	5.769
mp-554147	Rb <sub>2</sub> Nb <sub>2</sub> P <sub>2</sub> S <sub>11</sub>	1000	0.291
mp-554157	KNaZnP <sub>2</sub> O <sub>7</sub>	56.566	2.005

mp-554160	$\text{K}_2\text{CuP}_2\text{O}_7$	37.275	0.197
mp-554195	$\text{Sb}_3\text{As}_2\text{S}_{14}(\text{IF}_8)_3$	31.132	0.482
mp-554259	$\text{SrAgB}_2\text{O}_{12}$	1000	0.31
mp-554359	$\text{Cs}_2\text{Si}_3\text{SnO}_9$	38.868	0.203
mp-554379	$\text{AsXeF}_{11}$	1000	0.227
mp-554432	$\text{ReSbOF}_{10}$	463.54	0.16
mp-554572	$\text{K}_3\text{NbP}_2\text{O}_9$	69.404	0.543
mp-554605	$\text{Rb}_2\text{SbCl}_3\text{F}_2$	1000	0.667
mp-554673	$\text{KZnB}(\text{PO}_4)_2$	88.009	0.285
mp-554686	$\text{MgAs}_2(\text{XeF}_9)_2$	223.001	16.951
mp-554701	$\text{SbP}(\text{OF}_3)_2$	64.341	0.393
mp-554702	$\text{NaZr}_2\text{NiF}_{11}$	420.641	9.413
mp-554754	$\text{Na}_2\text{Zn}(\text{SO}_4)_2$	53.055	0.816
mp-554805	$\text{Sr}_3\text{Se}_3(\text{ClO}_4)_2$	153.954	0.127
mp-554808	$\text{SnH}_{22}(\text{Cl}_3\text{O}_5)_2$	935.584	0.536
mp-554819	$\text{MgP}_4(\text{Cl}_5\text{O}_3)_2$	1000	0.531
mp-554842	$\text{Cs}_5\text{Si}_3\text{AgO}_9$	47.377	0.178
mp-554948	$\text{NaI}(\text{OF})_2$	40.447	0.222
mp-555005	$\text{Na}_3\text{Mg}_2\text{P}_3\text{O}_{16}$	116.266	0.371
mp-555059	$\text{TcSb}(\text{OF}_4)_2$	359.496	1.834
mp-555076	$\text{KNaSnF}_6$	159.092	0.229
mp-555082	$\text{CsLi}_4(\text{BO}_3)_2$	40.755	5.418
mp-555113	$\text{Rb}_3\text{Cu}_2(\text{BiS}_2)_5$	141.766	0.117
mp-555118	$\text{NaPO}_3$	57.932	0.275
mp-555122	$\text{Rb}_2\text{Pd}(\text{NO}_3)_4$	101.129	0.446
mp-555155	$\text{KNa}_2\text{Y}(\text{Si}_2\text{O}_5)_3$	60.384	0.371
mp-555203	$\text{Sr}_5\text{B}_3\text{ClO}_9$	234.009	0.184
mp-555207	$\text{BN}(\text{OF}_2)_2$	34.134	7.495
mp-555212	$\text{Ba}_2\text{InBrO}_3$	1000	0.028
mp-555230	$\text{Rb}_2\text{YGa}(\text{SiO}_3)_4$	1000	4.847
mp-555231	$\text{Ba}_3\text{Bi}_2(\text{PO}_4)_4$	53.688	7.79
mp-555300	$\text{Na}_2\text{Zn}_3(\text{SiO}_4)_2$	69.291	1.275
mp-555305	$\text{NaNb}(\text{OF})_2$	403.768	1.078
mp-555321	$\text{BaNiF}_4$	169.746	0.304
mp-555376	$\text{CsAu}(\text{SO}_4)_2$	66.199	0.271
mp-555392	$\text{K}_6\text{NaAu}_2\text{IO}_8$	652.967	4.334
mp-555424	$\text{CaNb}_2(\text{P}_2\text{O}_7)_3$	44.872	0.4
mp-555467	$\text{Sr}_2\text{AlCO}_3\text{F}_5$	159.373	0.642
mp-555488	$\text{Na}_5\text{AlP}_2(\text{O}_4\text{F})_2$	66.696	0.202
mp-555490	$\text{KRe}_2\text{O}_4\text{F}_7$	96.279	0.355
mp-555526	$\text{RbAg}(\text{NO}_3)_2$	232.719	0.066
mp-555546	$\text{MgAs}_2(\text{XeF}_5)_4$	108.784	0.062

mp-555609	$\text{Sr}_2\text{Zn}_4(\text{CuO})_2$	801.71	0.487
mp-555629	$\text{SbTe}(\text{ClF}_2)_3$	69.559	0.011
mp-555652	$\text{K}_2\text{Zn}(\text{SO}_4)_2$	37.364	0.536
mp-555661	$\text{Ca}_3\text{In}(\text{PO}_4)_7$	33.99	0.365
mp-555805	$\text{AlSCl}_7$	36.463	0.031
mp-555825	$\text{Na}_4\text{Sc}_2\text{Si}_4\text{O}_{13}$	36.896	0.341
mp-555862	$\text{CsZr}(\text{NO}_3)_5$	77.688	0.147
mp-555866	$\text{K}_6\text{Be}_4\text{C}_6\text{O}_{19}$	44.85	0.263
mp-555958	$\text{Ba}_2\text{Li}_3(\text{PO}_3)_7$	106.159	0.804
mp-555980	$\text{Ba}_2\text{Zn}_3(\text{PO}_3)_{10}$	34.474	99.99
mp-556024	$\text{Na}_2\text{TiF}_6$	47.52	0.409
mp-556061	$\text{CsSb}_2\text{F}_{11}$	123.704	0.285
mp-556078	$\text{MgAs}_2(\text{XeF}_8)_2$	64.55	0.041
mp-556117	$\text{Ga}_3\text{Pb}_5\text{F}_{19}$	69.078	0.11
mp-556122	$\text{BaCa}(\text{PO}_3)_4$	42.051	2.278
mp-556171	$\text{CdP}_2\text{Xe}_3\text{F}_{22}$	477.201	0.104
mp-556234	$\text{Rb}_3\text{Sb}_3\text{O}_{14}$	39.634	0.224
mp-556244	$\text{Xe}_2\text{NO}_2\text{F}_{13}$	44.916	0.055
mp-556258	$\text{Na}_3\text{BeAl}(\text{SiO}_4)_2$	246.29	0.324
mp-556282	$\text{Ba}_2\text{AlInO}_5$	1000	0.179
mp-556325	$\text{TeAs}(\text{ClF}_2)_3$	39.371	0.543
mp-556341	$\text{Ti}_4\text{S}_3\text{Br}_6\text{O}$	32.997	0.193
mp-556442	$\text{Tc}_2\text{O}_5\text{F}_4$	1000	0.318
mp-556463	$\text{KGe}_2\text{BO}_6$	83.005	0.232
mp-556518	$\text{K}_2\text{Pd}(\text{NO}_3)_4$	633.723	0.077
mp-556521	$\text{KNa}_3\text{Pb}_2\text{O}_7$	91.752	0.183
mp-556522	$\text{K}_3\text{Cu}_2(\text{BiS}_2)_5$	497.895	0.183
mp-556539	$\text{BaSb}_2\text{Xe}_3\text{F}_{22}$	236.767	0.314
mp-556546	$\text{K}_2\text{NiF}_4$	1000	0.004
mp-556577	$\text{Na}_3\text{Sb}_3(\text{AsO}_7)_2$	63.609	0.931
mp-556637	$\text{Ba}_3\text{Na}_2\text{Nb}_2\text{P}_2\text{O}_{17}$	721.98	0.23
mp-556653	$\text{Cd}_2\text{BiAsO}_6$	217.158	0.35
mp-556655	$\text{Li}_2\text{AlBO}_4$	78.779	0.681
mp-556676	$\text{Na}_3\text{Al}_2(\text{AsO}_4)_3$	42.72	1.396
mp-556689	$\text{KZrF}_5$	176.068	3.14
mp-556709	$\text{Na}_2\text{ZrSiO}_5$	1000	4.371
mp-556756	$\text{KSb}_2\text{PO}_8$	50.906	0.372
mp-556785	$\text{RbTeF}_5$	133.757	0.072
mp-556801	$\text{Na}_3\text{B}_3\text{PO}_{13}$	793.714	0.299
mp-556834	$\text{RuCl}(\text{OF}_3)_2$	46.212	1.787
mp-556996	$\text{K}_2\text{LiAlF}_6$	36.08	0.416
mp-557022	$\text{Sb}_3\text{Cl}_2\text{O}_{11}$	40.821	1.939

mp-557090	$\text{Bi}_2\text{Au}_3\text{F}_{21}$	35.306	0.11
mp-557132	$\text{Os}_2\text{O}_3\text{F}_7$	88.335	0.42
mp-557171	$\text{Na}_2\text{Cu}(\text{PO}_3)_4$	87.342	0.376
mp-557180	$\text{CaAs}_2(\text{XeF}_5)_4$	59.884	0.298
mp-557237	$\text{K}_5\text{In}_3(\text{SiO}_3)_7$	133.558	0.27
mp-557250	$\text{HgINO}_3$	146.947	0.013
mp-557256	$\text{RbP}_3\text{PbO}_9$	90.734	0.574
mp-557260	$\text{RbSb}_2\text{F}_7$	159.701	0.205
mp-557289	$\text{TiP}_2\text{Cl}_8\text{O}_3$	93.903	4.195
mp-557301	$\text{K}_2\text{Ti}(\text{Si}_2\text{O}_5)_3$	37.215	1.043
mp-557352	$\text{CaP}_2\text{Xe}_5\text{F}_{22}$	682.362	0.103
mp-557355	$\text{Rb}_2\text{SiP}_4\text{O}_{13}$	193.087	0.236
mp-557359	$\text{Cs}_2\text{Al}_2\text{Sb}_2\text{O}_7$	33.44	0.242
mp-557417	$\text{As}_2\text{Cl}_3\text{OF}_5$	129.94	0.329
mp-557432	$\text{GeClO}_2\text{F}_5$	495.14	0.269
mp-557451	$\text{CsReOF}_6$	955.691	0.089
mp-557470	$\text{K}_2\text{Sb}_2\text{S}(\text{O}_2\text{F}_3)_2$	68.153	1.772
mp-557531	$\text{Pb}_2\text{S}(\text{O}_2\text{F})_2$	48.772	3.899
mp-557577	$\text{K}_3\text{ScSi}_2\text{O}_7$	167.742	0.2
mp-557628	$\text{AsS}(\text{IF}_3)_2$	236.93	0.406
mp-557650	$\text{Sr}_3\text{P}_4(\text{N}_4\text{O}_3)_2$	170.919	0.535
mp-557662	$\text{Ca}_2\text{Mg}_5\text{Si}_4(\text{O}_{11}\text{F})_2$	95.257	1.43
mp-557772	$\text{CsNiF}_3$	1000	0.11
mp-557778	$\text{RbNbSiO}_5$	34.827	0.273
mp-557792	$\text{HfSCl}_6\text{O}$	247.825	1.161
mp-557809	$\text{SbSCl}_9$	153.663	6.751
mp-557856	$\text{BCl}(\text{OF}_2)_2$	98.556	0.226
mp-557874	$\text{KAg}(\text{PO}_3)_2$	32.8	1.462
mp-557926	$\text{CdAs}_2(\text{XeF}_5)_4$	601.337	0.069
mp-558063	$\text{KCu}(\text{BiS}_2)_2$	92.807	0.153
mp-558114	$\text{Sr}_4\text{NbAlO}_8$	61.155	0.422
mp-558149	$\text{BF}_3$	53.123	0.141
mp-558153	$\text{Ba}_4\text{Nb}_2(\text{OF}_4)_3$	698.417	1.204
mp-558160	$\text{NaYCO}_3\text{F}_2$	1000	0.451
mp-558162	$\text{RbP}(\text{OF})_2$	35.392	0.146
mp-558208	$\text{RbInAs}_2\text{O}_7$	66.426	0.369
mp-558227	$\text{K}_2\text{RbMn}_2\text{F}_7$	1000	0.049
mp-558235	$\text{CaTaF}_7$	1000	0.19
mp-558240	$\text{K}_3\text{Al}_4\text{P}_2\text{O}_8\text{F}_9$	739.267	1.139
mp-558243	$\text{Ba}_2\text{InClO}_3$	1000	0.099
mp-558330	$\text{IClOF}$	424.422	0.011
mp-558383	$\text{Na}_2\text{CrF}_4$	69.802	0.547



mp-558396	Rb <sub>2</sub> Te(H <sub>2</sub> O) <sub>5</sub>	44.763	0.649
mp-558430	BaB <sub>2</sub> F <sub>8</sub>	41.133	13.549
mp-558480	K <sub>2</sub> P <sub>2</sub> O <sub>5</sub> F <sub>2</sub>	46.674	0.1
mp-558514	RbZrCdF <sub>7</sub>	184.495	0.136
mp-558523	PAuClF <sub>3</sub>	271.612	0.213
mp-558603	K <sub>2</sub> Si <sub>4</sub> O <sub>9</sub>	42.575	0.685
mp-558607	K <sub>3</sub> BSb <sub>4</sub> O <sub>13</sub>	39.33	0.646
mp-558660	Mg <sub>2</sub> BiPO <sub>6</sub>	112.279	0.546
mp-558692	Sb <sub>2</sub> ClO <sub>2</sub> F <sub>11</sub>	1000	0.751
mp-558725	Ba <sub>3</sub> Ru <sub>2</sub> Br <sub>2</sub> O <sub>9</sub>	132.837	0.027
mp-558861	KI(OF) <sub>2</sub>	124.981	0.052
mp-558924	Na <sub>5</sub> Ga <sub>3</sub> F <sub>14</sub>	59.738	7.488
mp-558938	Zn <sub>4</sub> SiTePbO <sub>10</sub>	38.742	0.24
mp-558967	K <sub>3</sub> Ta <sub>2</sub> S <sub>11</sub>	489.795	0.274
mp-559062	KP(OF) <sub>2</sub>	38.438	0.223
mp-559064	SnP <sub>2</sub> (Cl <sub>5</sub> O) <sub>2</sub>	559.659	0.207
mp-559068	Na <sub>2</sub> Pd(SeO <sub>4</sub> ) <sub>2</sub>	121.657	0.059
mp-559115	P <sub>2</sub> RhClF <sub>6</sub>	573.669	0.257
mp-559150	Na <sub>4</sub> ZrP <sub>4</sub> ClO <sub>16</sub>	198.398	4.687
mp-559151	BaSrTa <sub>2</sub> O <sub>7</sub>	66.558	0.423
mp-559182	P <sub>2</sub> IrClF <sub>6</sub>	855.904	0.708
mp-559228	Rb <sub>2</sub> HfS <sub>4</sub>	52.628	0.3
mp-559281	Na <sub>3</sub> Cr <sub>2</sub> (PS <sub>4</sub> ) <sub>3</sub>	39.881	0.086
mp-559292	P <sub>6</sub> Pb <sub>3</sub> Xe <sub>11</sub> F <sub>58</sub>	1000	4.657
mp-559309	K <sub>3</sub> ZnNCl <sub>4</sub> O <sub>3</sub>	1000	0.112
mp-559314	Na <sub>5</sub> TiP <sub>2</sub> O <sub>9</sub> F	70.316	0.501
mp-559378	Ba <sub>5</sub> Ta <sub>2</sub> Cl <sub>2</sub> O <sub>9</sub>	1000	0.031
mp-559493	TiP <sub>2</sub> Cl <sub>2</sub> O	43.309	0.14
mp-559516	K <sub>3</sub> Nb(SO <sub>4</sub> ) <sub>4</sub>	43.967	0.193
mp-559533	NaLiCO <sub>3</sub>	33.938	0.103
mp-559537	Ca <sub>4</sub> P <sub>6</sub> O <sub>19</sub>	132.46	1.134
mp-559568	K <sub>2</sub> Se <sub>2</sub> O <sub>5</sub>	86.791	0.096
mp-559610	Rb <sub>2</sub> NaAl <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	1000	0.239
mp-559710	NaInAs <sub>2</sub> O <sub>7</sub>	62.737	0.873
mp-559724	Ta <sub>4</sub> S <sub>9</sub> Br <sub>8</sub>	124.45	0.197
mp-559759	CaAlBO <sub>4</sub>	143.977	0.577
mp-559783	Na <sub>3</sub> B(PO <sub>4</sub> ) <sub>2</sub>	78.997	0.27
mp-559786	NaAs <sub>4</sub> BrO <sub>6</sub>	46.229	0.207
mp-559790	K <sub>2</sub> Nb <sub>3</sub> Cl <sub>5</sub> O <sub>5</sub>	127.361	1.499
mp-559894	Sb <sub>2</sub> Te <sub>2</sub> O <sub>9</sub>	122.821	0.616
mp-559923	Nb(PS <sub>4</sub> ) <sub>2</sub>	194.05	0.231
mp-559984	Rb <sub>8</sub> AlAu <sub>3</sub> O <sub>4</sub>	50.458	0.07

mp-560005	TlRe <sub>3</sub> (S <sub>2</sub> Cl) <sub>2</sub>	107.313	0.163
mp-560008	PNF <sub>2</sub>	120.224	0.266
mp-560032	NaNb <sub>2</sub> AsO <sub>8</sub>	42.964	2.277
mp-560120	Na <sub>2</sub> Pd(NO <sub>3</sub> ) <sub>4</sub>	94.265	0.22
mp-560121	H <sub>3</sub> CNO <sub>3</sub>	58.023	0.253
mp-560144	K <sub>2</sub> RuBr <sub>5</sub> NO	49.182	0.101
mp-560146	Ba <sub>17</sub> Y <sub>16</sub> Zn <sub>8</sub> Pt <sub>4</sub> O <sub>57</sub>	394.031	0.335
mp-560208	K <sub>3</sub> NbAs <sub>2</sub> O <sub>9</sub>	200.748	0.344
mp-560216	Cs <sub>2</sub> GeP <sub>4</sub> O <sub>13</sub>	73.782	0.213
mp-560222	Na <sub>3</sub> SO <sub>4</sub> F	227.406	38.747
mp-560310	SbPOF <sub>8</sub>	298.406	0.562
mp-560314	In <sub>2</sub> H <sub>10</sub> S <sub>3</sub> O <sub>17</sub>	57.164	0.302
mp-560320	KBa <sub>2</sub> (PO <sub>3</sub> ) <sub>5</sub>	50.167	25.678
mp-560322	K <sub>2</sub> RuN <sub>3</sub> Cl <sub>3</sub> O <sub>5</sub>	159.586	1.463
mp-560324	Rb <sub>3</sub> Hg <sub>2</sub> S <sub>3</sub> ClO <sub>12</sub>	82.828	1.793
mp-560348	K <sub>8</sub> Nb <sub>4</sub> S <sub>25</sub>	97.358	1.886
mp-560352	SrP <sub>2</sub> (XeF <sub>6</sub> ) <sub>3</sub>	1000	1.472
mp-560423	KBS <sub>4</sub> (ClO <sub>3</sub> ) <sub>4</sub>	395.706	0.601
mp-560449	K <sub>3</sub> Ni <sub>2</sub> F <sub>7</sub>	481.564	0.043
mp-560459	Rb <sub>3</sub> Al <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	1000	0.144
mp-560515	K <sub>4</sub> Ru <sub>2</sub> Cl <sub>10</sub> O	1000	0.11
mp-560535	K <sub>4</sub> Sr(SiO <sub>3</sub> ) <sub>3</sub>	86.342	0.434
mp-560555	Li <sub>8</sub> Bi <sub>2</sub> PdO <sub>10</sub>	71.588	0.306
mp-560578	RbTeNO <sub>3</sub> F <sub>4</sub>	108.544	0.076
mp-560585	P <sub>3</sub> IrO <sub>9</sub>	48.227	2.831
mp-560587	Rb <sub>2</sub> Sb <sub>8</sub> O <sub>13</sub>	517.656	0.284
mp-560595	Ca <sub>2</sub> AsClO <sub>4</sub>	115.857	0.193
mp-560601	K <sub>2</sub> CuS(ClO <sub>2</sub> ) <sub>2</sub>	139.292	0.084
mp-560629	K <sub>3</sub> Al <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub>	1000	0.187
mp-560632	NaGaSiO <sub>4</sub>	34.954	0.335
mp-560666	K <sub>4</sub> Nb <sub>2</sub> Se <sub>11</sub> O	47.26	0.07
mp-560675	K <sub>6</sub> Cu(SiO <sub>4</sub> ) <sub>2</sub>	426.588	0.206
mp-560692	K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub>	1000	0.167
mp-560732	BaNaZrF <sub>7</sub>	35.021	0.312
mp-560739	K <sub>3</sub> Li <sub>3</sub> TeO <sub>6</sub>	45.633	0.224
mp-560745	AuN <sub>4</sub> O <sub>14</sub>	67.498	1.168
mp-560884	TaSCl <sub>1</sub> O	62.597	0.088
mp-560891	SnP <sub>2</sub> Cl <sub>8</sub> O <sub>3</sub>	359.885	0.76
mp-560919	Na <sub>5</sub> Y(CO <sub>3</sub> ) <sub>4</sub>	1000	0.429
mp-560921	NaAlAs <sub>2</sub> O <sub>7</sub>	51.672	1.582
mp-560928	Sb <sub>2</sub> IBr <sub>2</sub> F <sub>11</sub>	306.673	0.142
mp-560966	K <sub>2</sub> RuNCl <sub>5</sub> O	57.542	0.182

mp-561011	$\text{Li}_2\text{Ta}_2(\text{OF}_2)_3$	1000	0.05
mp-561058	$\text{Na}_3\text{Ga}(\text{PO}_4)_2$	48.779	0.936
mp-561153	$\text{XeF}_3$	97.709	0.132
mp-561176	$\text{Sb}_2\text{POF}_{13}$	1000	0.514
mp-561179	$\text{Ba}_2\text{CuIO}_2$	31.932	0.073
mp-561197	$\text{TaF}_5$	60.467	0.302
mp-561222	$\text{K}_2\text{HgBr}_2(\text{NO}_6)_2$	859.12	0.083
mp-561226	$\text{BTe}_3(\text{OF}_5)_3$	122.966	0.008
mp-561243	$\text{Sr}_2\text{CuClO}_2$	971.78	0.254
mp-561259	$\text{Na}_3\text{NbOF}_6$	79.154	0.099
mp-561283	$\text{CdGaH}_{14}\text{O}_5\text{F}_5$	116.834	0.832
mp-561317	$\text{Rb}_2\text{NiF}_4$	960.056	0.03
mp-561369	$\text{K}_3\text{Bi}_2(\text{AsO}_4)_3$	47.834	1.006
mp-561396	$\text{Li}_3\text{CrF}_6$	304.38	0.357
mp-561407	$\text{RbGaS}_2$	92.366	0.046
mp-561424	$\text{KAlF}_4$	34.914	2.419
mp-561441	$\text{Y}_2\text{GeO}_5$	44.372	3.241
mp-561486	$\text{Na}_2\text{Mg}_3(\text{PO}_4)_4$	54.112	4.281
mp-561491	$\text{KNaMg}_2\text{Si}_4(\text{O}_5\text{F})_2$	37.27	1.192
mp-5616	$\text{Sr}_2\text{P}_2\text{O}_7$	126.608	0.459
mp-561647	$\text{Cs}_2\text{TeOF}_4$	110.542	0.223
mp-561827	$\text{Cs}_3\text{TlF}_6$	283.259	0.045
mp-562102	$\text{K}_2\text{S}_2\text{O}_7$	102.082	0.347
mp-562441	$\text{Cs}_3\text{AlO}_3$	65.532	0.629
mp-562442	$\text{Cs}_2\text{SeO}_4$	35.192	0.04
mp-562569	$\text{CsPPbS}_4$	62.471	0.031
mp-562854	$\text{CsNb}_2\text{BiO}_7$	48.85	0.555
mp-562977	$\text{RbNbS}_2\text{O}_9$	165.859	0.29
mp-567441	$\text{HfIN}$	391.693	0.011
mp-567558	$\text{CsAgCl}_2$	1000	0.021
mp-567734	$\text{AlAs}_3(\text{SeCl})_4$	33.796	1.937
mp-567743	$\text{AlSb}_2(\text{TeCl}_2)_2$	200.512	1.652
mp-5680	$\text{Ca}(\text{PO}_3)_2$	59.073	0.485
mp-568136	$\text{RbVBr}_3$	309.137	0.096
mp-568252	$\text{Rb}_2\text{Hg}_2\text{PdCl}_8$	42.372	1.636
mp-568346	$\text{HfBrN}$	51.766	0.015
mp-568350	$\text{Rb}_2\text{ZnCl}_4$	46.968	0.048
mp-568540	$\text{Ag}_5\text{Hg}_4\text{P}_6\text{Cl}_5$	78.325	0.549
mp-568644	$\text{K}_9\text{InSe}_7$	84.025	0.066
mp-569050	$\text{NaW}_6\text{NCl}_{18}$	58.582	0.033
mp-569386	$\text{P}_3\text{NCl}_{12}$	185.278	2.406
mp-569442	$\text{RbAuCl}_4$	35.445	29.085

mp-569787	Al(BH <sub>4</sub> ) <sub>3</sub>	40.979	0.235
mp-569984	Cs <sub>3</sub> Au <sub>2</sub> Br <sub>11</sub>	45.806	0.086
mp-570021	Ti <sub>6</sub> Tl <sub>5</sub> AgSe <sub>27</sub>	31.805	0.119
mp-570193	NaAuCl <sub>4</sub>	96.231	0.397
mp-570248	NaC <sub>2</sub> N <sub>3</sub>	732.874	0.396
mp-570315	PBr <sub>2</sub> N	138.051	0.103
mp-570411	K <sub>12</sub> In <sub>2</sub> Se <sub>9</sub>	35.569	0.937
mp-570453	Ba <sub>4</sub> W(N <sub>2</sub> Cl) <sub>2</sub>	117.175	0.04
mp-570530	Cs(BCl) <sub>6</sub>	209.746	0.184
mp-570531	NbP <sub>2</sub> NCl <sub>12</sub>	63.028	0.209
mp-570703	Ca(AlCl <sub>4</sub> ) <sub>2</sub>	35.737	0.091
mp-570873	Nb(Te <sub>2</sub> I <sub>3</sub> ) <sub>2</sub>	160.347	1.471
mp-570966	ZrP <sub>2</sub> NCl <sub>11</sub>	551.611	0.137
mp-571250	TaP <sub>2</sub> Se <sub>2</sub> Cl <sub>5</sub>	154.827	0.906
mp-571324	CNCl	139.842	0.116
mp-571464	RbPSe <sub>3</sub>	254.303	0.061
mp-572149	Cs <sub>2</sub> Al(NO <sub>3</sub> ) <sub>5</sub>	61.184	0.094
mp-572634	Al <sub>2</sub> AgCl <sub>5</sub> O	125.095	0.128
mp-572794	ReP(Cl <sub>2</sub> O) <sub>3</sub>	341.005	0.7
mp-573373	PICl <sub>8</sub>	115.338	0.069
mp-573429	Cs <sub>5</sub> Bi(MoO <sub>4</sub> ) <sub>4</sub>	557.382	0.357
mp-573751	AlTeCl <sub>7</sub>	153.106	0.754
mp-574571	Rb <sub>3</sub> YCl <sub>6</sub>	40.556	0.243
mp-579086	KSrNb <sub>2</sub> O <sub>6</sub> F	1000	0.551
mp-581644	Y <sub>2</sub> Si <sub>2</sub> O <sub>7</sub>	1000	0.449
mp-581862	Cs <sub>2</sub> NaAl(PO <sub>4</sub> ) <sub>2</sub>	332.558	0.139
mp-581868	NaY(IO <sub>3</sub> ) <sub>4</sub>	359.643	0.242
mp-581877	Cs <sub>2</sub> Zr(Si <sub>2</sub> O <sub>5</sub> ) <sub>3</sub>	57.396	5.294
mp-581887	Ca <sub>2</sub> As <sub>4</sub> Xe <sub>5</sub> F <sub>34</sub>	63.033	5.635
mp-581955	CsSi <sub>2</sub> SbO <sub>7</sub>	197.604	0.25
mp-581967	Nb <sub>2</sub> O <sub>5</sub>	1000	2.407
mp-582185	Cs <sub>12</sub> Nb(In <sub>2</sub> As <sub>3</sub> ) <sub>3</sub>	67.481	0.081
mp-5824	Hg <sub>2</sub> NO <sub>4</sub>	83.125	0.135
mp-5860	K <sub>2</sub> HgO <sub>2</sub>	265.232	0.245
mp-6032	SrSi <sub>2</sub> (BO <sub>4</sub> ) <sub>2</sub>	53.015	0.656
mp-6044	Sr <sub>6</sub> B(PO <sub>4</sub> ) <sub>5</sub>	43.039	0.478
mp-607454	AlC <sub>3</sub> (NCl <sub>2</sub> ) <sub>3</sub>	1000	3.602
mp-607931	Cs <sub>3</sub> NaLi <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub>	49.754	0.263
mp-607987	CsInI <sub>4</sub>	67.231	0.209
mp-6138	Na <sub>2</sub> TiSiO <sub>5</sub>	79.548	0.954
mp-619575	ClF <sub>3</sub>	35.294	0.256
mp-619651	Cs <sub>3</sub> AlP <sub>2</sub>	38.807	0.132

mp-620652	NaSr <sub>2</sub> AlP <sub>3</sub>	36.89	0.28
mp-621112	Cs <sub>5</sub> Nb <sub>2</sub> S <sub>4</sub> Cl <sub>9</sub>	272.652	0.07
mp-622018	BAs <sub>4</sub> (Pb <sub>3</sub> O <sub>10</sub> ) <sub>2</sub>	70.951	0.321
mp-622195	CsSO <sub>3</sub> F	88.405	0.213
mp-622197	Cs <sub>2</sub> PtS <sub>4</sub> (O <sub>3</sub> F) <sub>6</sub>	131.553	0.017
mp-6228	Na <sub>2</sub> TiGeO <sub>5</sub>	85.596	0.804
mp-6238	Ba <sub>2</sub> Ta <sub>6</sub> Te <sub>2</sub> O <sub>21</sub>	44.8	0.792
mp-624117	Cs <sub>3</sub> V <sub>4</sub> Te <sub>2</sub> ClO <sub>14</sub>	1000	0.036
mp-6245	K <sub>5</sub> Nb <sub>4</sub> O <sub>12</sub> F	129.922	2.068
mp-625054	AlHO <sub>2</sub>	1000	0.259
mp-625475	H <sub>2</sub> SO <sub>4</sub>	40.897	1.399
mp-625661	H <sub>3</sub> BrO <sub>4</sub>	1000	0.478
mp-625801	Sr(H <sub>2</sub> O <sub>5</sub> ) <sub>2</sub>	95.192	0.342
mp-626256	H <sub>3</sub> NO <sub>4</sub>	55.31	0.265
mp-626785	KHO	114.588	0.405
mp-6289	Ba <sub>2</sub> Ti(GeO <sub>4</sub> ) <sub>2</sub>	121.385	0.453
mp-628908	KICl <sub>2</sub>	46.662	0.455
mp-6310	Ba <sub>3</sub> Y(BO <sub>3</sub> ) <sub>3</sub>	976.503	0.128
mp-634378	NaHSO <sub>4</sub>	49.087	1.167
mp-638009	RbPPbS <sub>4</sub>	39.253	0.035
mp-6390	Rb <sub>3</sub> Ti <sub>3</sub> (PO <sub>4</sub> ) <sub>5</sub>	1000	0.242
mp-640389	Cs <sub>2</sub> Th(PS <sub>3</sub> ) <sub>3</sub>	302.791	8.789
mp-642795	PHSF <sub>2</sub>	73.515	0.021
mp-642834	BaH <sub>5</sub> ClO <sub>3</sub>	72.881	0.041
mp-643253	Ba <sub>2</sub> H <sub>4</sub> Pt	31.36	0.211
mp-643265	ReF <sub>7</sub>	422.213	0.008
mp-643586	CsHS <sub>2</sub> (O <sub>3</sub> F) <sub>2</sub>	76.692	1.675
mp-643902	SnH <sub>4</sub> (NF) <sub>2</sub>	78.116	0.705
mp-6441	K <sub>2</sub> PO <sub>3</sub> F	50.092	0.079
mp-644129	KNiPH <sub>2</sub> O <sub>5</sub>	938.959	0.277
mp-644828	AuXe <sub>2</sub> F <sub>17</sub>	1000	0.14
mp-645272	TiV <sub>3</sub> (SeO <sub>6</sub> ) <sub>2</sub>	455.777	0.204
mp-6459	CaMg(CO <sub>3</sub> ) <sub>2</sub>	119.968	0.309
mp-6467	Na <sub>2</sub> CuP <sub>2</sub> O <sub>7</sub>	50.354	102.781
mp-647342	SbP <sub>3</sub> C(NCl <sub>5</sub> ) <sub>3</sub>	751.922	0.221
mp-647385	V <sub>2</sub> Pb <sub>4</sub> O <sub>9</sub>	154.813	0.285
mp-6481	Na <sub>2</sub> ZnSi <sub>3</sub> O <sub>8</sub>	112.155	1.269
mp-648414	V <sub>2</sub> PS <sub>10</sub>	111.788	0.621
mp-648932	Nb <sub>2</sub> PS <sub>10</sub>	80.488	0.037
mp-649253	NbClF <sub>8</sub>	45.933	0.245
mp-649616	Pd(XeF <sub>8</sub> ) <sub>2</sub>	1000	0.082
mp-6500	KRb <sub>2</sub> ScF <sub>6</sub>	35.602	4.966

mp-651786	$\text{Ca}_5\text{MnSi}_4(\text{Pb}_3\text{O}_{11})_3$	37.442	0.225
mp-652776	$\text{Rb}_2\text{V}(\text{PO}_4)_2$	350.147	0.364
mp-653633	$\text{K}_2\text{ZnCl}_4$	87.449	0.098
mp-653973	$\text{KZnPO}_4$	134.445	0.194
mp-654447	$\text{Ni}(\text{XeF}_8)_2$	41.006	0.147
mp-6648	$\text{KLiB}_4\text{O}_7$	36.928	0.518
mp-6651	$\text{K}_2\text{Ta}_2(\text{OF}_2)_3$	475.867	0.356
mp-667283	$\text{Sr}_3\text{Re}_3\text{ClO}_{15}$	37.373	0.158
mp-667292	$\text{K}_2\text{MgSi}_5\text{O}_{12}$	206.73	0.298
mp-667305	$\text{ReN}(\text{OF}_2)_3$	391.443	0.587
mp-667326	$\text{K}_5\text{InO}_4$	184.588	10.983
mp-667360	$\text{CsSbOF}_4$	629.926	0.162
mp-667379	$\text{Ba}_7\text{Al}_{64}\text{O}_{103}$	109.608	0.203
mp-6675	$\text{Na}_2\text{Zn}(\text{SiO}_3)_2$	96.215	0.326
mp-669455	$\text{Ga}_4\text{Hg}_{11}(\text{AsBr}_4)_4$	102.079	0.099
mp-669508	$\text{TaP}_2\text{NCl}_{12}$	75.83	0.182
mp-6698	$\text{Th}_2\text{Cu}(\text{PO}_4)_3$	1000	2.524
mp-672212	$\text{NaNb}_{13}\text{O}_{33}$	1000	0.405
mp-672248	$\text{TaAsP}_{13}\text{Cl}_{13}$	48.458	0.049
mp-6748	$\text{Cs}_2\text{Ti}(\text{Si}_2\text{O}_5)_3$	82.248	3.768
mp-6759	$\text{BaGa}_2(\text{SiO}_4)_2$	56.289	2.6
mp-676130	$\text{TlSnF}_3$	144.508	7.066
mp-676501	$\text{K}_3\text{Sn}_2\text{S}_3\text{BrO}_{12}$	295.104	1.289
mp-676801	$\text{K}_7\text{Th}_6\text{F}_{31}$	698.275	0.254
mp-677192	$\text{K}_4\text{PH}_5\text{S}_3\text{O}_{16}$	815.19	0.795
mp-677248	$\text{Ca}_2\text{AlH}_{10}\text{IO}_8$	53.719	16.91
mp-677416	$\text{Na}_5\text{Mg}_5\text{In}_3(\text{SO}_4)_{12}$	1000	0.702
mp-677520	$\text{KBa}_6\text{Zn}_4(\text{GaO}_3)_7$	52.738	0.308
mp-677638	$\text{Na}_{27}\text{Ca}_3\text{Al}_4(\text{P}_2\text{O}_7)_{12}$	1000	8.195
mp-679989	$\text{Bi}(\text{Mo}_2\text{Cl}_5)_3$	218.163	0.062
mp-679997	$\text{CsAg}_2(\text{B}_5\text{O}_8)_3$	356.693	0.33
mp-680198	$\text{Cs}_4\text{Th}_2\text{P}_5\text{Se}_{17}$	82.617	0.143
mp-680240	$\text{Sb}_2\text{Cl}_5\text{F}_4$	33.179	0.219
mp-680284	$\text{Rb}_6\text{Ta}_4\text{S}_{25}$	186.505	0.261
mp-680374	$\text{KAlSiO}_4$	138.265	0.203
mp-680410	$\text{K}_3\text{Nb}_2\text{S}_{11}$	61.395	0.332
mp-680498	$\text{RbTaPS}_6$	80.361	2.623
mp-680683	$\text{CsB}_9\text{O}_{14}$	34.013	0.282
mp-683918	$\text{RbC}_2\text{N}_3$	177.231	0.553
mp-683925	$\text{CsSb}_3\text{F}_{16}$	1000	0.107
mp-683949	$\text{AlP}_3(\text{NCl}_3)_3$	69.515	0.152
mp-683955	$\text{KTaPS}_6$	52.34	0.226

mp-684010	$K_8Ti_3P_2(O_4F_{11})_2$	1000	1.179
mp-684018	$SrBa_8O_{13}$	263.004	0.967
mp-6841	$Ba_4NaCu(CO_5)_2$	1000	0.264
mp-685352	$Ca_2NF$	1000	0.344
mp-685478	$Na_2PdO_3$	98.993	0.155
mp-685810	$AsN_2F_7$	162.828	0.393
mp-686464	$Ca_{10}P_8SO_{24}$	43.127	0.311
mp-6867	$KCaCO_3F$	1000	0.07
mp-6870	$KBe_2BO_3F_2$	109.536	0.207
mp-6903	$Na_2Ca_4ZrNbSi_4O_{17}F$	36.766	8.604
mp-693620	$KCa_2Be_2Al(Si_2O_5)_6$	100.95	0.435
mp-693753	$BaNa_5Ca_7P_4(O_8F)_3$	1000	1.963
mp-695043	$K_4PH_5Se_3O_{16}$	478.105	0.747
mp-695963	$K_2NaH_{10}IO_{10}$	48.679	0.261
mp-696078	$K_3ZrH_2S(OF)_5$	439.921	2.645
mp-696189	$TiH_4(NO_4)_3$	99.081	0.152
mp-696379	$BH_3OF_4$	37.357	3.303
mp-696396	$NaHCO_3$	31.92	2.498
mp-696497	$Mg_3Si_4(HO_6)_2$	58.268	0.557
mp-696528	$KPH_3NO_3$	44.836	4.123
mp-696656	$BH_4O_2F_3$	37.681	0.218
mp-696683	$K_3SnHF_8$	752.93	0.156
mp-696940	$TiH_{12}C_2(NF)_6$	137.98	0.26
mp-697078	$Cs_2SiP_4(HO_7)_2$	401.69	20.004
mp-697253	$SiH_{12}C_2(NF)_6$	263.583	0.386
mp-698063	$Na_2P_2H_2O_7$	106.778	0.494
mp-698479	$RbTeHOF_4$	939.074	0.462
mp-699453	$RbAs_2H_8O_8$	36.257	0.152
mp-7012	$KRb_2YF_6$	31.408	21.638
mp-703476	$P_2H_{16}N_4O_7$	132.497	0.194
mp-704408	$K_8V_2(S_2O_9)_3$	1000	0.212
mp-7049	$ZrTiCuS_3$	35.098	0.119
mp-705134	$In_2(MoO_4)_3$	42.359	0.916
mp-705514	$SbHC_3(NCl_3)_3$	44.952	0.879
mp-705900	$Hf_3Ti_{10}Mo_{12}PbO_{48}$	39.2	0.133
mp-706239	$NaCa_2Mg_2V_3O_{12}$	42.547	0.262
mp-706243	$Al_2Si_3H_4(NO_5)_2$	1000	0.359
mp-706386	$ZrH_6O_3F_4$	63.275	0.796
mp-706631	$Na_2B_3HO_6$	63.635	0.59
mp-706976	$PH_4N(OF)_2$	66.979	0.313
mp-706986	$PH_4NO_3$	44.736	0.167
mp-706995	$ZnCoH_{18}N_6Cl_5$	361.971	0.28

mp-707195	$\text{KSiHO}_3$	65.447	0.264
mp-707219	$\text{K}_2\text{Zr}_2\text{ZnH}_{12}(\text{OF}_2)_6$	1000	0.892
mp-707343	$\text{ZrH}_{12}\text{C}_2(\text{NF})_6$	73.812	1.041
mp-707443	$\text{Na}_7\text{AlH}_2\text{C}_4(\text{O}_3\text{F})_4$	131.212	0.387
mp-707453	$\text{K}_5\text{NaP}_3(\text{HO}_4)_3$	1000	0.157
mp-707536	$\text{KHSeO}_4$	132.704	0.192
mp-707782	$\text{K}_6\text{Zr}_3\text{H}_8(\text{OF})_{12}$	1000	0.193
mp-707960	$\text{ZnH}_{12}\text{C}_2(\text{N}_3\text{Cl}_2)_2$	112.254	0.046
mp-7089	$\text{KMgSb}$	36.129	0.033
mp-708961	$\text{BeH}_8\text{SeO}_8$	33.064	0.274
mp-709350	$\text{Sr}_5\text{As}_8\text{HO}_{18}$	1000	0.253
mp-720104	$\text{Na}_4\text{Al}_3\text{Ge}_3\text{NO}_{14}$	53.887	0.331
mp-720294	$\text{AsH}_{18}\text{N}_3\text{O}_7$	337.227	0.666
mp-720583	$\text{Na}_3\text{B}_3\text{H}_2\text{O}_7$	145.069	0.527
mp-720586	$\text{CaH}_4\text{NClO}_5$	34.626	0.206
mp-720642	$\text{NaB}_3\text{H}_4\text{O}_7$	49.166	1.45
mp-721182	$\text{PH}_{11}(\text{NO}_2)_2$	44.086	0.182
mp-721471	$\text{CuPH}_4\text{OF}$	269.346	34.574
mp-722246	$\text{SiH}_{10}(\text{O}_2\text{F}_3)_2$	38.043	2.323
mp-722272	$\text{Li}_2\text{H}_{12}\text{C}_3\text{SN}_6\text{O}_7$	115.551	0.586
mp-722832	$\text{PH}_3\text{NF}_5$	64.284	0.278
mp-722900	$\text{CaH}_3\text{NO}_5$	32.128	0.104
mp-723109	$\text{BeH}_{14}(\text{I}_2\text{O}_9)_2$	1000	0.369
mp-730154	$\text{NaAs}_3\text{H}_2\text{O}_9$	35.605	5.748
mp-730460	$\text{Na}_5\text{H}_3(\text{CO}_3)_4$	195.525	0.056
mp-7323	$\text{RbBe}_2\text{BO}_3\text{F}_2$	117.107	0.206
mp-733468	$\text{K}_2\text{PHO}_4$	739.107	0.15
mp-733637	$\text{NaH}_8\text{O}_5$	67.917	1.355
mp-733655	$\text{KH}_3(\text{SO}_4)_2$	151.232	12.43
mp-734042	$\text{MgH}_{12}(\text{NO}_6)_2$	108.906	0.289
mp-735541	$\text{NiSn}_2\text{H}_{12}(\text{OF})_6$	212.651	0.901
mp-7404	$\text{Na}_3\text{SbO}_4$	55.058	15.818
mp-740714	$\text{LiB}_5\text{H}_2\text{O}_9$	44.43	0.343
mp-741045	$\text{Na}_4\text{AlP}_2\text{HO}_9$	186.599	0.606
mp-743538	$\text{CrH}_{18}(\text{O}_3\text{F})_3$	48.72	0.118
mp-744205	$\text{K}_2\text{Cr}_2\text{AsHO}_{10}$	1000	0.299
mp-744625	$\text{ZnCrH}_{15}\text{N}_4\text{Cl}_4\text{F}$	271.211	0.273
mp-744751	$\text{NaMn}_6\text{Al}_3\text{H}_{42}(\text{SO}_{19})_2$	1000	0.155
mp-745159	$\text{MoPH}_3\text{O}_7$	87.865	0.928
mp-745166	$\text{Sr}_2\text{Fe}_2\text{H}_2\text{OF}_{10}$	38.365	0.295
mp-7470	$\text{RbCuO}$	57.385	0.057
mp-752709	$\text{InBP}_2\text{H}_5\text{NO}_9$	31.437	0.513



mp-753353	$\text{Sr}_4\text{LiCu}(\text{CO}_5)_2$	1000	0.306
mp-753798	$\text{Rb}_2\text{SnO}_3$	33.412	0.183
mp-753854	$\text{Rb}_2\text{PH}_3\text{SeO}_8$	39.743	5.369
mp-754370	$\text{Ba}_3\text{GeO}_5$	52.945	0.209
mp-755428	$\text{Rb}_3\text{ClO}$	55.311	0.053
mp-755663	$\text{Ta}_2\text{Pb}_2\text{O}_7$	99.902	0.396
mp-756748	$\text{ScH}_3(\text{ClO}_5)_2$	835.572	4.337
mp-756769	$\text{Na}_2\text{TlPCO}_7$	83.096	0.272
mp-756981	$\text{K}_2\text{SbPCO}_7$	551.023	0.353
mp-757218	$\text{K}_4\text{Na}_2\text{H}_{18}\text{Pd}(\text{IO}_{10})_2$	1000	0.481
mp-757594	$\text{Os}(\text{OF}_2)_2$	112.018	0.01
mp-757723	$\text{SrH}_4(\text{SO}_4)_3$	140.54	0.49
mp-757840	$\text{Ba}_4(\text{PtO}_3)_3$	31.053	3.692
mp-757850	$\text{K}_4\text{Sb}_2\text{O}_5$	57.992	0.039
mp-757878	$\text{Na}_4\text{Cu}(\text{HO}_2)_2$	75.359	0.175
mp-757963	$\text{K}_2\text{MgH}_4(\text{CO}_5)_2$	36.138	0.647
mp-757981	$\text{Na}_2\text{SnGe}_2(\text{HO}_4)_2$	32.916	0.647
mp-758007	$\text{Ba}_2\text{CaP}_4(\text{H}_3\text{O}_8)_2$	50.442	1.053
mp-758103	$\text{YH}_2(\text{CO}_3)_2$	146.8	0.238
mp-758337	$\text{Ca}_2\text{P}_6\text{O}_{17}$	50.269	1.052
mp-758814	$\text{CaAs}_2\text{H}_6\text{F}_{18}$	128.146	0.415
mp-758948	$\text{Cs}_2\text{H}_6\text{CO}_6$	64.982	0.166
mp-758957	$\text{As}_2\text{HPbF}_{13}$	77.247	0.128
mp-759223	$\text{Sn}(\text{SO}_4)_2$	31.634	0.326
mp-759344	$\text{P}_3\text{H}_{30}\text{N}_4\text{O}_{12}$	617.373	1.643
mp-7594	$\text{CsLiF}_2$	69.014	0.23
mp-759651	$\text{ScH}_6\text{Br}_3\text{N}_2$	71.267	2.943
mp-759900	$\text{K}_2\text{LiNbO}_4$	150.376	0.332
mp-760046	$\text{LiPH}_{21}\text{S}_3\text{N}_7$	54.395	0.713
mp-760417	$\text{Rb}_4\text{I}_2\text{O}$	266.004	0.017
mp-760678	$\text{Sb}_2\text{H}_4\text{AuF}_{16}$	155.061	0.163
mp-760762	$\text{NbOF}_3$	92.699	0.374
mp-761252	$\text{RbPH}_3\text{O}_4\text{F}$	48.893	0.73
mp-762082	$\text{ThH}_{10}\text{N}_4\text{O}_{17}$	78.29	0.097
mp-762295	$\text{K}_2\text{Mn}_3\text{V}_2(\text{HO}_5)_2$	147.196	0.871
mp-764233	$\text{Na}_8\text{CoO}_6$	154.44	0.084
mp-765136	$\text{LiMn}_8\text{F}_{33}$	385.197	0.256
mp-765597	$\text{HS}_2\text{IO}_8$	48.891	0.774
mp-766175	$\text{RbInBP}_2\text{HO}_9$	32.36	0.629
mp-767430	$\text{Na}_3\text{CdPCO}_7$	36.525	0.397
mp-767521	$\text{Na}_2\text{InPCO}_7$	84.543	0.284
mp-767722	$\text{VFe}(\text{P}_2\text{O}_7)_2$	36.389	0.319

mp-768144	Na <sub>2</sub> SbPCO <sub>7</sub>	115.289	0.367
mp-768368	K <sub>4</sub> I <sub>2</sub> O	119.281	0.02
mp-768670	K <sub>3</sub> MgPCO <sub>7</sub>	64.208	0.387
mp-769604	K <sub>2</sub> MnPCO <sub>7</sub>	1000	0.249
mp-769616	Na <sub>2</sub> CrPCO <sub>7</sub>	97.502	0.324
mp-769971	BaGa <sub>4</sub> O <sub>7</sub>	226.992	0.688
mp-770773	Rb <sub>2</sub> S <sub>2</sub> O <sub>7</sub>	119.558	3.982
mp-770839	LiCr(CO <sub>3</sub> ) <sub>2</sub>	76.429	0.182
mp-770968	Na <sub>3</sub> NiPCO <sub>7</sub>	314.864	0.702
mp-771127	Rb <sub>4</sub> TiO <sub>4</sub>	63.485	0.462
mp-771139	Cs <sub>4</sub> HfO <sub>4</sub>	46.969	1.76
mp-771185	K <sub>2</sub> Ge <sub>2</sub> O <sub>5</sub>	55.224	2.356
mp-771255	Cs <sub>4</sub> SiO <sub>4</sub>	76.117	2.087
mp-772228	CdP <sub>4</sub> O <sub>11</sub>	102.459	3.327
mp-772808	K <sub>2</sub> BiPCO <sub>7</sub>	77.839	0.276
mp-773432	KMnPCO <sub>7</sub>	98.931	0.32
mp-774848	H <sub>10</sub> SeO <sub>8</sub>	72.129	0.19
mp-775198	Ti <sub>3</sub> P <sub>6</sub> WO <sub>24</sub>	171.429	0.204
mp-775430	LiBi <sub>3</sub> (IO <sub>2</sub> ) <sub>2</sub>	44.344	0.196
mp-775466	K <sub>2</sub> InSi <sub>4</sub> HO <sub>11</sub>	69.994	0.366
mp-778977	CaAs <sub>2</sub> HF <sub>13</sub>	231.203	0.229
mp-8065	K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub>	33.153	6.088
mp-8201	Rb <sub>3</sub> PdF <sub>5</sub>	66.954	0.283
mp-8226	ThNF	1000	0.224
mp-8333	RbNaSnF <sub>6</sub>	165.123	0.156
mp-8416	BaCaGaF <sub>7</sub>	139.816	0.425
mp-8449	Rb <sub>2</sub> Li <sub>2</sub> SiO <sub>4</sub>	34.593	0.643
mp-8450	Rb <sub>2</sub> Li <sub>2</sub> GeO <sub>4</sub>	41.311	0.822
mp-849311	MgSb <sub>2</sub> H <sub>2</sub> F <sub>14</sub>	34.571	0.166
mp-849433	SrTiH <sub>4</sub> (OF <sub>3</sub> ) <sub>2</sub>	307.592	1.802
mp-849805	B <sub>12</sub> H <sub>21</sub> C <sub>4</sub> S <sub>2</sub> I	163.805	0.749
mp-8570	Ba <sub>3</sub> Zr <sub>2</sub> S <sub>7</sub>	46.359	0.059
mp-8603	RbAgO	116.333	0.048
mp-863420	Rb <sub>4</sub> H <sub>4</sub> C <sub>3</sub> O <sub>10</sub>	274.258	0.339
mp-865427	KSrCO <sub>3</sub> F	1000	0.06
mp-865500	Na <sub>2</sub> Hf <sub>2</sub> O <sub>5</sub>	1000	0.164
mp-866311	Bi <sub>3</sub> BrO <sub>4</sub>	950.861	0.386
mp-866620	Cs <sub>2</sub> MgP <sub>4</sub> (HO <sub>2</sub> ) <sub>8</sub>	78.205	0.036
mp-866638	KSc(BH <sub>4</sub> ) <sub>4</sub>	44.707	0.141
mp-867261	RbSrCO <sub>3</sub> F	1000	0.057
mp-867300	Rb <sub>2</sub> Hf <sub>2</sub> O <sub>5</sub>	449.153	0.141
mp-867975	CsB <sub>2</sub> H <sub>5</sub> O <sub>6</sub>	43.616	0.124

mp-8708	Mg(AuF <sub>4</sub> ) <sub>2</sub>	49.625	0.241
mp-8796	Sr <sub>2</sub> LiSc(B <sub>2</sub> O <sub>5</sub> ) <sub>2</sub>	1000	1.371
mp-8810	SrZn <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub>	36.547	0.439
mp-8892	LiInF <sub>4</sub>	46.764	0.275
mp-8962	Rb <sub>2</sub> HgF <sub>4</sub>	1000	0.036
mp-8963	Cs <sub>2</sub> HgF <sub>4</sub>	841.758	0.027
mp-8985	Ba <sub>2</sub> YC <sub>2</sub> (O <sub>2</sub> F) <sub>3</sub>	120.528	0.116
mp-8989	Na <sub>2</sub> P <sub>2</sub> PdO <sub>7</sub>	378.386	66.238
mp-9029	Ca <sub>3</sub> VN <sub>3</sub>	128.975	0.155
mp-9068	K <sub>2</sub> NaAlP <sub>2</sub>	55.037	0.04
mp-9069	K <sub>2</sub> NaAlAs <sub>2</sub>	41.286	0.038
mp-9107	NaZrCuS <sub>3</sub>	32.33	0.137
mp-9195	BaCuSeF	118.965	0.376
mp-9306	Sr <sub>2</sub> ZnN <sub>2</sub>	86.26	0.108
mp-9396	HfTiCuS <sub>3</sub>	78.058	0.121
mp-9486	K <sub>2</sub> AlF <sub>5</sub>	76.328	0.136
mp-9511	K <sub>2</sub> AsAuS <sub>4</sub>	50.963	0.102
mp-9583	K <sub>2</sub> ZnF <sub>4</sub>	978.704	0.042
mp-96	S	74.632	0.205
mp-9640	SrCu(SeO <sub>3</sub> ) <sub>2</sub>	46.448	0.196
mp-9672	K <sub>2</sub> NiP <sub>2</sub>	188.085	0.136
mp-9726	SrBeF <sub>4</sub>	45.242	1.029
mp-9986	CsAuO	383.093	0.044

The Python code for automatically creating the slab structures is made available on Github at the following address ([https://github.com/bmd-lab/mss\\_auto](https://github.com/bmd-lab/mss_auto)) and

is also included below as plain text to facilitate long-term reproducibility.

```
from pymatgen.core import Structure
import numpy as np
from os.path import isfile, join, isdir
from os import listdir, remove, rename, mkdir, getcwd, rmdir
import re
from shutil import copy
import sys
import getopt
pattern_id = r'[m][p][-]\d+'
opts, args =
getopt.getopt(sys.argv[1:], 'hl:d:n:', ["help", "length=", "direction=", '
name='])

def make_supercell(path_unit_cell, path_super_cell, direction):
    """
    Function:
    Make supercell according to the length
    of unit cell along with z direction, and
    the length of final supercell is at least
    15 anstrom.

    Parameters:
    path_poscar_cart: string
    The path of unit cell structure
    super_cell_dir: string
    The path of supercell structure
    """
    dic_line={'x':2, 'y':3, 'z':4}

dic_supercell={'x':[[1,1,1],[2,1,1],[3,1,1],[4,1,1],[5,1,1],[6,1,1]],
'y':[[1,1,1],[1,2,1],[1,3,1],[1,4,1],[1,5,1],[1,6,1]],
'z':[[1,1,1],[1,1,2],[1,1,3],[1,1,4],[1,1,5],[1,1,6]]}
    files = [f for f in listdir(path_unit_cell)
              if isfile(join(path_unit_cell, f))]
    # print("There have {} files of unit cell
files".format(len(files)))
    for i in range(len(files)):
        file_read = open(path_unit_cell + '\\\ ' + files[i], 'r')
        lines = file_read.readlines()
        l = np.array([float(lines[dic_line[direction]].split()[0]),
```

```

float(lines[dic_line[direction]].split()[1]),
float(lines[dic_line[direction]].split()[2]))
l1 = l * l
L = np.sqrt(l1[0] + l1[1] + l1[2])
if L >= 15:
    id = re.search(pattern_id, files[i]).group()
    struc = Structure.from_file(path_unit_cell
                               + '\\' + files[i])
    struc.make_supercell(dic_supercell[direction][0])
    struc.to(filename=path_super_cell + '\\' + id +
str("POSCAR"))
    print(id, ' has make supercell
',dic_supercell[direction][0])
    elif 7.5 <= L < 15:
        id = re.search(pattern_id, files[i]).group()
        struc = Structure.from_file(path_unit_cell + '\\'
                                   + files[i])
        struc.make_supercell(dic_supercell[direction][1])
        struc.to(filename=path_super_cell + '\\' + id +
str("POSCAR"))
        print(id, ' has make supercell
',dic_supercell[direction][1])
        elif 5 <= L < 7.5:
            id = re.search(pattern_id, files[i]).group()
            struc = Structure.from_file(path_unit_cell + '\\'
                                       + files[i])
            struc.make_supercell(dic_supercell[direction][2])
            struc.to(filename=path_super_cell + '\\' + id +
str("POSCAR"))
            print(id, ' has make supercell
',dic_supercell[direction][2])
            elif 3.75 <= L < 5:
                id = re.search(pattern_id, files[i]).group()
                # print(id)
                struc = Structure.from_file(path_unit_cell + '\\'
                                           + files[i])
                struc.make_supercell(dic_supercell[direction][3])
                struc.to(filename=path_super_cell + '\\' + id +
str("POSCAR"))
                print(id, ' has make supercell
',dic_supercell[direction][3])
                elif 3 <= L < 3.75:
                    id = re.search(pattern_id, files[i]).group()
                    struc = Structure.from_file(path_unit_cell + '\\'

```

```

        + files[i])
        struc.make_supercell(dic_supercell[direction][4])
        struc.to(filename=path_super_cell + '\\' + id +
str("POSCAR"))
        print(id, ' has make supercell
',dic_supercell[direction][4])
        elif 2.5 <= L < 3:
            id = re.search(pattern_id, files[i]).group()
            struc = Structure.from_file(path_unit_cell + '\\'
+ files[i])
            struc.make_supercell(dic_supercell[direction][5])
            struc.to(filename=path_super_cell + '\\' + id +
str("POSCAR"))
            print(id, ' has make supercell
',dic_supercell[direction][5])

def add_atom(path_1, path_2,direction):
    """
    Function:
    Produce 1600 different supercell files that the fake
atom in different position of box for every supercell

    Parameters:
    path_1: string
    The path of POSCAR(super cell),and it must be direction
coordinate
    path_2: string
    The path of POSCAR files that contain a fake atom,
and it will include 1600 different cases.

    """
    for i in range(100): # i is the z coordinate of fake atom
        with open(path_1, 'r') as f:
            lines = f.readlines()
            lines[6] = (lines[6].strip('\n')) + ' 1' + '\n' # add
one for atom number
            lines[5] = (lines[5].strip('\n')) + ' X' + '\n' #
suppose the fake atom is X
            for m in np.arange(0.05, 0.95, 0.25): # m is the x
coordinate of fake atom
                for n in np.arange(0.05, 0.95, 0.25): # m is the y
coordinate of fake atom
                    with open(path_2 + '/' + 'POSCAR'
+ '_' + str(m) + '_'

```

```

        + str(n) + '_' + str(i), 'w+') as l:
    for j in range(len(lines)):
        l.write(lines[j])
    if direction == 'x':
        l.write(str(i * 0.01 + 0.005) + ' ' +
                str(m) + ' ' +
                str(n) + ' X')
    elif direction == 'y':
        l.write(str(m) + ' ' +
                str(i * 0.01 + 0.005) + ' ' +
                str(n) + ' X')
    elif direction == 'z':
        l.write(str(m) + ' ' +
                str(n) + ' ' +
                str(i * 0.01 + 0.005) + ' X')

def delet_file(Dir, File):
    # delet files in Dir except File
    files = [f for f in listdir(Dir) if isfile(join(Dir, f))]
    for i in files:
        if i == File:
            pass
        else:
            remove(Dir + '/' + i)

def get_nearest_distance(path):
    """
    Return the list of minimum distance to fake atom of all
    supercells
    and the corresponding structures.

    Parameters
    path: string
    The path to the folder containing supercells files, and the
    supercell
    must be already added with fake atom.
    """
    files = [f for f in listdir(path) if isfile(join(path, f))]
    distance, structure = [], []
    for i in range(len(files)):
        s = Structure.from_file(path + '/' + files[i])
        d = s.distance_matrix
        t = d[:, -1]
        tt = np.delete(t, [-1])

```





```

        y_cartesian.append(
            float(line[k].split()[0]) * b1
            + float(line[k].split()[1]) * b2
            + float(line[k].split()[2]) * b3)
        z_cartesian.append(
            float(line[k].split()[0]) * c1
            + float(line[k].split()[1]) * c2
            + float(line[k].split()[2]) * c3)
    with open(cart_path + "\\\" + onlyfiles[i], "w",
encoding="utf-8") as f:
        for j in range(7):
            f.write(line[j])
        f.write("Cartesian\n")
        for l in range(num_atoms):
            string = str(x_cartesian[l]) \
                + " " + str(y_cartesian[l]) \
                + " " + str(z_cartesian[l]) + "\n"
            f.write(string)
    except:
        print(onlyfiles[i])

```

```

def Get_num_of_atom(path, file):
    # get the number of atoms in POSCAR
    # return a data of int type
    with open(path + '/' + file, 'r') as f:
        line = f.readlines()
        num_atoms = sum([int(x) for x in line[6].split()])
    return num_atoms

```

```

def insert_empty(dir1, dir2, distance, file,direction):
    """
    Function:
    Introduce an empty layer in the end of POSCAR
    along with z direction

    Parameters:
    dir1: string
    The path of origin POSCAR files and the coordinate of POSCAR
    can be direction or cartesian
    dir_2: string
    The path of POSCAR files that have introduced empty layer
    space
    distance: int
    The length of empty layer
    """

```

```

file: string
Name of structure, such as :POSCAR,id+POSCAR
"""
dic_line = {'x': 2, 'y': 3, 'z': 4}
with open(dir1 + '/' + file, 'r') as f:
    lines = f.readlines()
    # print(len(lines))
    a, b, c = float(lines[dic_line[direction]].split()[0]), \
              float(lines[dic_line[direction]].split()[1]), \
              float(lines[dic_line[direction]].split()[2])
    # print(a,b,c)
    vector = np.array([a, b, c])
    length = np.sum(np.square(vector)) ** 0.5
    L = length + distance
    ratio = L / length
    new_vector = vector * ratio
    with open(dir2 + '/' + file, 'w') as f:
        lines[dic_line[direction]] = str(new_vector[0]) \
            + ' ' + str(new_vector[1]) \
            + ' ' + str(new_vector[2]) + '\n'
    for i in lines:
        f.write(i)

def move_atom(dir1, atom_num, dir2, file, length, direction):
    """
    Function:
    Move atoms that higher than fake atom,
    equivalent to the effect of moving the
    vacuum layer.

    Parameters:
    dir1: string
    The path of supercell files that
    contain vacuum layer, and the atoms haven't
    moved
    atom_num: int
    The number of atoms in POSCAR file
    dir2: string
    The path of supercell files that
    contain vacuum layer, and the atoms have
    moved according to the position of atoms
    file: string
    Name of structure, such as :POSCAR,id+POSCAR
    length: int

```

The distance of atom need to be moved,  
it should stay the same with the  
length of vacuum layer

"""

```
dic_num={'x':0, 'y':1,'z':2}
with open(dir1 + '//'+ file, 'r') as f:
    lines = f.readlines()
    high = float(lines[-1].split()[dic_num[direction]])
    #         print(z_fake)
    for i in range(atom_num - 1):
        x, y, z = float(lines[8 + i].split()[0]), \
                  float(lines[8 + i].split()[1]), \
                  float(lines[8 + i].split()[2])
        if direction == 'x':
            if high < 0 and x < high:
                x_new = x - length
                lines[8 + i] = str(x_new) + ' ' \
                               + str(y) + ' ' \
                               + str(z) + '\n'
            elif high > 0 and x > high:
                x_new = x + length
                lines[8 + i] = str(x_new) + ' ' \
                               + str(y) + ' ' \
                               + str(z) + '\n'
        elif direction == 'y':
            if high < 0 and y < high:
                y_new = y - length
                lines[8 + i] = str(x) + ' ' \
                               + str(y_new) + ' ' \
                               + str(z) + '\n'
            elif high > 0 and y > high:
                y_new = y + length
                lines[8 + i] = str(x) + ' ' \
                               + str(y_new) + ' ' \
                               + str(z) + '\n'
        elif direction == 'z':
            if high < 0 and z < high:
                z_new = z - length
                lines[8 + i] = str(x) + ' ' \
                               + str(y) + ' ' \
                               + str(z_new) + '\n'
            elif high > 0 and z > high:
                z_new = z + length
                lines[8 + i] = str(x) + ' ' \
```

```

        + str(y) + ' ' \
        + str(z_new) + '\n'
    with open(dir2 + '//'+ file, 'w+') as f:
        for i in lines:
            f.write(i)

def delet_fake_atom(dir1, dir2, file):
    """
    Function:
    Delet the fake atom of slab structure

    Parameters:
    dir1: string
    The path of slab structure contained
    with fake atom
    dir2: string
    The path of slab structure that
    have deleted fake atom
    file: string
    Name of structure,such as :POSCAR,id+POSCAR
    """
    with open(dir1 + '//'+ file, 'r') as f:
        lines = f.readlines()
        s = lines[5].split()
        s2 = lines[6].split()
        n_s, n_s2 = s[:-1], s2[:-1]
        line5, line6 = '', ''
        for i in range(len(n_s)):
            line5 += n_s[i] + ' '
            line6 += n_s2[i] + ' '
        new_line5 = line5 + '\n'
        new_line6 = line6 + '\n'
        #         print(new_line5,new_line6)
        lines[5], lines[6] = new_line5, new_line6
        with open(dir2 + '//'+ file, 'w+') as f:
            for i in lines:
                f.write(i)

def main(length,direction,unit_cell_dir):
    name=unit_cell_dir.split('//')[-1]
    supercell_dir=unit_cell_dir[:-len(name)]+'super'
    slab_dir=unit_cell_dir[:-len(name)]+'slab'
    mkdir(supercell_dir)
    mkdir(slab_dir)

```

```

make_supercell(unit_cell_dir, supercell_dir,direction)
files=[f for f in listdir(supercell_dir) if isfile
(join(supercell_dir,f))]
mkdir(slab_dir+'//Final_slab')
for file in files:
    mkdir(slab_dir + '/' + file)
    mkdir(slab_dir + '/' + file + '/add')
    mkdir(slab_dir + '/' + file + '/cartesian')
    mkdir(slab_dir + '/' + file + '/add_empty')
    mkdir(slab_dir + '/' + file + '/move_atom')
    mkdir(slab_dir + '/' + file + '/final_slab')

poscar_dir= slab_dir+'//'+file+"/add"
cart_dir = slab_dir+'//'+file+"/cartesian"
insert_empty_dir = slab_dir+'//'+file+'/add_empty'
move_atom_dir = slab_dir+'//'+file+'/move_atom'
final_slab_dir = slab_dir+'//'+file+'/final_slab'

s = Structure.from_file(supercell_dir + '/' + file)
s.to(filename=slab_dir + '/' + file + '/' + 'POSCAR')
path_1 = slab_dir + '/' + file + '/' + 'POSCAR'
path_2 = slab_dir + '/' + file + '/' + 'add'
try:
    max_dis=[]
    add_atom(path_1, path_2, direction)
    d, stru = get_nearest_distance(path_2)
    max_dis.append(max(d))
    delet_file(path_2, stru[d.index(max(d))])
    rename(path_2 + '/' + stru[d.index(max(d))], path_2 +
'/' + file)
    print(file, 'is OK!!!')
except:
    print(file, 'Happen something wrong')
dir_trans_cart(poscar_dir, cart_dir)
num = Get_num_of_atom(cart_dir, file)
insert_empty(cart_dir, insert_empty_dir, length, file, direction)
move_atom(insert_empty_dir, num, move_atom_dir,
file, length, direction)
delet_fake_atom(move_atom_dir, final_slab_dir, file)
copy(final_slab_dir+'//'+file,slab_dir+'//Final_slab//'+file)
dir=getcwd()
unit_name='unit_cell'
length,direction='', ''

```

```

try:
    for k, v in opts:
        if k in ('-n', '--name'):
            unit_name = v
        elif k in ('-l', '--length'):
            length = int(v)
        elif k in ('-d', '--direction'):
            direction = v
        elif k in ('-h', '--help'):
            print('Hello!! ', '\n',
                  'Before running this script' \
                  ' you are expect to creat a new folder named', '\n',
                  'unit_cell for storing the unit cell files' \
                  ' and fill the following three options', '\n',
                  'with right information', '\n'
                  'Options:', '\n',
                  '-n, --name    the name of '\
                  'unit cell folder', '\n',
                  '-l, --length  the length of '\
                  'empty layer', '\n',
                  '-d, --direction  the direction of ' \
                  'makeing supercell', '\n'
                  )
            unit_dir=dir+'\\'+ unit_name
            main(length,direction,unit_dir)
except:
    rmdir(dir+'\\'+slab')
    rmdir(dir+'\\'+super')

```