

Supplementary Information

Ultraviolet Plasmon Resonance in Transition-Metal Doped Aluminum Nanoparticle Array

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Atomic coordinates

Fe@Al nanoparticle

43

Al	1.607437e+01	1.202479e+01	1.000000e+01
Al	1.607437e+01	1.000000e+01	1.202479e+01
Al	1.809916e+01	1.202479e+01	1.202479e+01
Al	1.202479e+01	1.202479e+01	1.000000e+01
Al	1.404958e+01	1.404958e+01	1.000000e+01
Al	1.607437e+01	1.607437e+01	1.000000e+01
Al	1.202479e+01	1.000000e+01	1.202479e+01
Al	1.404958e+01	1.202479e+01	1.202479e+01
Al	1.607437e+01	1.404958e+01	1.202479e+01
Al	1.809916e+01	1.607437e+01	1.202479e+01
Al	1.404958e+01	1.000000e+01	1.404958e+01
Al	1.607437e+01	1.202479e+01	1.404958e+01
Al	1.809916e+01	1.404958e+01	1.404958e+01
Al	1.607437e+01	1.000000e+01	1.607437e+01
Al	1.809916e+01	1.202479e+01	1.607437e+01
Al	1.202479e+01	1.607437e+01	1.000000e+01
Al	1.000000e+01	1.202479e+01	1.202479e+01
Al	1.202479e+01	1.404958e+01	1.202479e+01
Al	1.404958e+01	1.607437e+01	1.202479e+01
Al	1.607437e+01	1.809916e+01	1.202479e+01
Al	1.202479e+01	1.202479e+01	1.404958e+01
Fe	1.404958e+01	1.404958e+01	1.404958e+01
Al	1.607437e+01	1.607437e+01	1.404958e+01
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Al	1.000000e+01	1.202479e+01	1.607437e+01
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Al	1.607437e+01	1.607437e+01	1.809916e+01
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Fe@Al: d = 1nm

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Al	1.607437e+01	1.202479e+01	2.809916e+01
Al	1.607437e+01	1.202479e+01	4.619832e+01
Al	1.607437e+01	3.012395e+01	1.000000e+01
Al	1.607437e+01	3.012395e+01	2.809916e+01
Al	1.607437e+01	3.012395e+01	4.619832e+01
Al	1.607437e+01	4.822311e+01	1.000000e+01
Al	1.607437e+01	4.822311e+01	2.809916e+01
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Fe	1.404958e+01	3.214874e+01	5.024790e+01
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Al 1.000000e+01 5.227269e+01 1.202479e+01

Al	1.000000e+01	5.227269e+01	3.012395e+01
Al	1.000000e+01	5.227269e+01	4.822311e+01
Al	1.202479e+01	1.809916e+01	1.202479e+01
Al	1.202479e+01	1.809916e+01	3.012395e+01
Al	1.202479e+01	1.809916e+01	4.822311e+01
Al	1.202479e+01	3.619832e+01	1.202479e+01
Al	1.202479e+01	3.619832e+01	3.012395e+01
Al	1.202479e+01	3.619832e+01	4.822311e+01
Al	1.202479e+01	5.429748e+01	1.202479e+01
Al	1.202479e+01	5.429748e+01	3.012395e+01
Al	1.202479e+01	5.429748e+01	4.822311e+01
Al	1.000000e+01	1.404958e+01	1.404958e+01
Al	1.000000e+01	1.404958e+01	3.214874e+01
Al	1.000000e+01	1.404958e+01	5.024790e+01
Al	1.000000e+01	3.214874e+01	1.404958e+01
Al	1.000000e+01	3.214874e+01	3.214874e+01
Al	1.000000e+01	3.214874e+01	5.024790e+01
Al	1.000000e+01	5.024790e+01	1.404958e+01
Al	1.000000e+01	5.024790e+01	3.214874e+01
Al	1.000000e+01	5.024790e+01	5.024790e+01
Al	1.202479e+01	1.607437e+01	1.404958e+01
Al	1.202479e+01	1.607437e+01	3.214874e+01
Al	1.202479e+01	1.607437e+01	5.024790e+01
Al	1.202479e+01	3.417353e+01	1.404958e+01
Al	1.202479e+01	3.417353e+01	3.214874e+01
Al	1.202479e+01	3.417353e+01	5.024790e+01
Al	1.202479e+01	5.227269e+01	1.404958e+01
Al	1.202479e+01	5.227269e+01	3.214874e+01
Al	1.202479e+01	5.227269e+01	5.024790e+01
Al	1.404958e+01	1.809916e+01	1.404958e+01
Al	1.404958e+01	1.809916e+01	3.214874e+01
Al	1.404958e+01	1.809916e+01	5.024790e+01
Al	1.404958e+01	3.619832e+01	1.404958e+01
Al	1.404958e+01	3.619832e+01	3.214874e+01
Al	1.404958e+01	3.619832e+01	5.024790e+01

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Al 1.000000e+01 3.417353e+01 1.607437e+01

Al	1.000000e+01	3.417353e+01	3.417353e+01
Al	1.000000e+01	3.417353e+01	5.227269e+01
Al	1.000000e+01	5.227269e+01	1.607437e+01
Al	1.000000e+01	5.227269e+01	3.417353e+01
Al	1.000000e+01	5.227269e+01	5.227269e+01
Al	1.202479e+01	1.809916e+01	1.607437e+01
Al	1.202479e+01	1.809916e+01	3.417353e+01
Al	1.202479e+01	1.809916e+01	5.227269e+01
Al	1.202479e+01	3.619832e+01	1.607437e+01
Al	1.202479e+01	3.619832e+01	3.417353e+01
Al	1.202479e+01	3.619832e+01	5.227269e+01
Al	1.202479e+01	5.429748e+01	1.607437e+01
Al	1.202479e+01	5.429748e+01	3.417353e+01
Al	1.202479e+01	5.429748e+01	5.227269e+01
Al	1.202479e+01	1.607437e+01	1.809916e+01
Al	1.202479e+01	1.607437e+01	3.619832e+01
Al	1.202479e+01	1.607437e+01	5.429748e+01
Al	1.202479e+01	3.417353e+01	1.809916e+01
Al	1.202479e+01	3.417353e+01	3.619832e+01
Al	1.202479e+01	3.417353e+01	5.429748e+01
Al	1.202479e+01	5.227269e+01	1.809916e+01
Al	1.202479e+01	5.227269e+01	3.619832e+01
Al	1.202479e+01	5.227269e+01	5.429748e+01

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Al	1.607437e+01	2.024790e+00	0.000000e+00
Al	1.607437e+01	2.024790e+00	2.809916e+01
Al	1.607437e+01	2.024790e+00	5.619832e+01
Al	1.607437e+01	3.012395e+01	0.000000e+00
Al	1.607437e+01	3.012395e+01	2.809916e+01
Al	1.607437e+01	3.012395e+01	5.619832e+01

Al	1.607437e+01	5.822311e+01	0.000000e+00
Al	1.607437e+01	5.822311e+01	2.809916e+01
Al	1.607437e+01	5.822311e+01	5.619832e+01
Al	1.607437e+01	0.000000e+00	2.024790e+00
Al	1.607437e+01	0.000000e+00	3.012395e+01
Al	1.607437e+01	0.000000e+00	5.822311e+01
Al	1.607437e+01	2.809916e+01	2.024790e+00
Al	1.607437e+01	2.809916e+01	3.012395e+01
Al	1.607437e+01	2.809916e+01	5.822311e+01
Al	1.607437e+01	5.619832e+01	2.024790e+00
Al	1.607437e+01	5.619832e+01	3.012395e+01
Al	1.607437e+01	5.619832e+01	5.822311e+01
Al	1.809916e+01	2.024790e+00	2.024790e+00
Al	1.809916e+01	2.024790e+00	3.012395e+01
Al	1.809916e+01	2.024790e+00	5.822311e+01
Al	1.809916e+01	3.012395e+01	2.024790e+00
Al	1.809916e+01	3.012395e+01	3.012395e+01
Al	1.809916e+01	3.012395e+01	5.822311e+01
Al	1.809916e+01	5.822311e+01	2.024790e+00
Al	1.809916e+01	5.822311e+01	3.012395e+01
Al	1.809916e+01	5.822311e+01	5.822311e+01
Al	1.202479e+01	2.024790e+00	0.000000e+00
Al	1.202479e+01	2.024790e+00	2.809916e+01
Al	1.202479e+01	2.024790e+00	5.619832e+01
Al	1.202479e+01	3.012395e+01	0.000000e+00
Al	1.202479e+01	3.012395e+01	2.809916e+01
Al	1.202479e+01	3.012395e+01	5.619832e+01
Al	1.202479e+01	5.822311e+01	0.000000e+00
Al	1.202479e+01	5.822311e+01	2.809916e+01
Al	1.202479e+01	5.822311e+01	5.619832e+01
Al	1.404958e+01	4.049580e+00	0.000000e+00
Al	1.404958e+01	4.049580e+00	2.809916e+01
Al	1.404958e+01	4.049580e+00	5.619832e+01
Al	1.404958e+01	3.214874e+01	0.000000e+00
Al	1.404958e+01	3.214874e+01	2.809916e+01

Al	1.404958e+01	3.214874e+01	5.619832e+01
Al	1.404958e+01	6.024790e+01	0.000000e+00
Al	1.404958e+01	6.024790e+01	2.809916e+01
Al	1.404958e+01	6.024790e+01	5.619832e+01
Al	1.607437e+01	6.074370e+00	0.000000e+00
Al	1.607437e+01	6.074370e+00	2.809916e+01
Al	1.607437e+01	6.074370e+00	5.619832e+01
Al	1.607437e+01	3.417353e+01	0.000000e+00
Al	1.607437e+01	3.417353e+01	2.809916e+01
Al	1.607437e+01	3.417353e+01	5.619832e+01
Al	1.607437e+01	6.227269e+01	0.000000e+00
Al	1.607437e+01	6.227269e+01	2.809916e+01
Al	1.607437e+01	6.227269e+01	5.619832e+01
Al	1.202479e+01	0.000000e+00	2.024790e+00
Al	1.202479e+01	0.000000e+00	3.012395e+01
Al	1.202479e+01	0.000000e+00	5.822311e+01
Al	1.202479e+01	2.809916e+01	2.024790e+00
Al	1.202479e+01	2.809916e+01	3.012395e+01
Al	1.202479e+01	2.809916e+01	5.822311e+01
Al	1.202479e+01	5.619832e+01	2.024790e+00
Al	1.202479e+01	5.619832e+01	3.012395e+01
Al	1.202479e+01	5.619832e+01	5.822311e+01
Al	1.404958e+01	2.024790e+00	2.024790e+00
Al	1.404958e+01	2.024790e+00	3.012395e+01
Al	1.404958e+01	2.024790e+00	5.822311e+01
Al	1.404958e+01	3.012395e+01	2.024790e+00
Al	1.404958e+01	3.012395e+01	3.012395e+01
Al	1.404958e+01	3.012395e+01	5.822311e+01
Al	1.404958e+01	5.822311e+01	2.024790e+00
Al	1.404958e+01	5.822311e+01	3.012395e+01
Al	1.404958e+01	5.822311e+01	5.822311e+01
Al	1.607437e+01	4.049580e+00	2.024790e+00
Al	1.607437e+01	4.049580e+00	3.012395e+01
Al	1.607437e+01	4.049580e+00	5.822311e+01
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Al	1.809916e+01	3.214874e+01	3.214874e+01
Al	1.809916e+01	3.214874e+01	6.024790e+01
Al	1.809916e+01	6.024790e+01	4.049580e+00
Al	1.809916e+01	6.024790e+01	3.214874e+01
Al	1.809916e+01	6.024790e+01	6.024790e+01
Al	1.607437e+01	0.000000e+00	6.074370e+00
Al	1.607437e+01	0.000000e+00	3.417353e+01
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Al	1.607437e+01	2.809916e+01	6.227269e+01
Al	1.607437e+01	5.619832e+01	6.074370e+00
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Al	1.202479e+01	3.417353e+01	0.000000e+00
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Al	1.202479e+01	3.417353e+01	5.619832e+01
Al	1.202479e+01	6.227269e+01	0.000000e+00
Al	1.202479e+01	6.227269e+01	2.809916e+01
Al	1.202479e+01	6.227269e+01	5.619832e+01
Al	1.000000e+01	2.024790e+00	2.024790e+00
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Fe	1.404958e+01	4.049580e+00	3.214874e+01
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Al	1.202479e+01	1.202479e+01	1.404958e+01
Co	1.404958e+01	1.404958e+01	1.404958e+01
Al	1.607437e+01	1.607437e+01	1.404958e+01
Al	1.202479e+01	1.000000e+01	1.607437e+01
Al	1.404958e+01	1.202479e+01	1.607437e+01
Al	1.607437e+01	1.404958e+01	1.607437e+01
Al	1.809916e+01	1.607437e+01	1.607437e+01
Al	1.607437e+01	1.202479e+01	1.809916e+01
Al	1.000000e+01	1.607437e+01	1.202479e+01
Al	1.202479e+01	1.809916e+01	1.202479e+01
Al	1.000000e+01	1.404958e+01	1.404958e+01
Al	1.202479e+01	1.607437e+01	1.404958e+01
Al	1.404958e+01	1.809916e+01	1.404958e+01
Al	1.000000e+01	1.202479e+01	1.607437e+01
Al	1.202479e+01	1.404958e+01	1.607437e+01
Al	1.404958e+01	1.607437e+01	1.607437e+01
Al	1.607437e+01	1.809916e+01	1.607437e+01
Al	1.202479e+01	1.202479e+01	1.809916e+01
Al	1.404958e+01	1.404958e+01	1.809916e+01
Al	1.607437e+01	1.607437e+01	1.809916e+01
Al	1.000000e+01	1.607437e+01	1.607437e+01
Al	1.202479e+01	1.809916e+01	1.607437e+01
Al	1.202479e+01	1.607437e+01	1.809916e+01

Co@Al: d = 1nm

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Al	1.607437e+01	1.202479e+01	1.000000e+01
Al	1.607437e+01	1.202479e+01	2.809916e+01
Al	1.607437e+01	1.202479e+01	4.619832e+01
Al	1.607437e+01	3.012395e+01	1.000000e+01
Al	1.607437e+01	3.012395e+01	2.809916e+01
Al	1.607437e+01	3.012395e+01	4.619832e+01
Al	1.607437e+01	4.822311e+01	1.000000e+01
Al	1.607437e+01	4.822311e+01	2.809916e+01
Al	1.607437e+01	4.822311e+01	4.619832e+01
Al	1.607437e+01	1.000000e+01	1.202479e+01
Al	1.607437e+01	1.000000e+01	3.012395e+01
Al	1.607437e+01	1.000000e+01	4.822311e+01
Al	1.607437e+01	2.809916e+01	1.202479e+01
Al	1.607437e+01	2.809916e+01	3.012395e+01
Al	1.607437e+01	2.809916e+01	4.822311e+01
Al	1.607437e+01	4.619832e+01	1.202479e+01
Al	1.607437e+01	4.619832e+01	3.012395e+01
Al	1.607437e+01	4.619832e+01	4.822311e+01
Al	1.809916e+01	1.202479e+01	1.202479e+01
Al	1.809916e+01	1.202479e+01	3.012395e+01
Al	1.809916e+01	1.202479e+01	4.822311e+01
Al	1.809916e+01	3.012395e+01	1.202479e+01
Al	1.809916e+01	3.012395e+01	3.012395e+01
Al	1.809916e+01	3.012395e+01	4.822311e+01
Al	1.809916e+01	4.822311e+01	1.202479e+01
Al	1.809916e+01	4.822311e+01	3.012395e+01
Al	1.809916e+01	4.822311e+01	4.822311e+01
Al	1.202479e+01	1.202479e+01	1.000000e+01
Al	1.202479e+01	1.202479e+01	2.809916e+01
Al	1.202479e+01	1.202479e+01	4.619832e+01
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Al	1.607437e+01	1.809916e+01	3.012395e+01
Al	1.607437e+01	1.809916e+01	4.822311e+01
Al	1.607437e+01	3.619832e+01	1.202479e+01
Al	1.607437e+01	3.619832e+01	3.012395e+01
Al	1.607437e+01	3.619832e+01	4.822311e+01
Al	1.607437e+01	5.429748e+01	1.202479e+01
Al	1.607437e+01	5.429748e+01	3.012395e+01
Al	1.607437e+01	5.429748e+01	4.822311e+01
Al	1.202479e+01	1.202479e+01	1.404958e+01
Al	1.202479e+01	1.202479e+01	3.214874e+01
Al	1.202479e+01	1.202479e+01	5.024790e+01
Al	1.202479e+01	3.012395e+01	1.404958e+01
Al	1.202479e+01	3.012395e+01	3.214874e+01
Al	1.202479e+01	3.012395e+01	5.024790e+01
Al	1.202479e+01	4.822311e+01	1.404958e+01
Al	1.202479e+01	4.822311e+01	3.214874e+01
Al	1.202479e+01	4.822311e+01	5.024790e+01
Co	1.404958e+01	1.404958e+01	1.404958e+01
Co	1.404958e+01	1.404958e+01	3.214874e+01
Co	1.404958e+01	1.404958e+01	5.024790e+01
Co	1.404958e+01	3.214874e+01	1.404958e+01
Co	1.404958e+01	3.214874e+01	3.214874e+01
Co	1.404958e+01	3.214874e+01	5.024790e+01
Co	1.404958e+01	5.024790e+01	1.404958e+01
Co	1.404958e+01	5.024790e+01	3.214874e+01
Co	1.404958e+01	5.024790e+01	5.024790e+01
Al	1.607437e+01	1.607437e+01	1.404958e+01
Al	1.607437e+01	1.607437e+01	3.214874e+01
Al	1.607437e+01	1.607437e+01	5.024790e+01
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Al	1.607437e+01	5.227269e+01	1.404958e+01
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Al	1.202479e+01	2.809916e+01	1.607437e+01
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Al	1.404958e+01	1.202479e+01	1.607437e+01
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Al	1.202479e+01	3.417353e+01	3.619832e+01
Al	1.202479e+01	3.417353e+01	5.429748e+01
Al	1.202479e+01	5.227269e+01	1.809916e+01
Al	1.202479e+01	5.227269e+01	3.619832e+01
Al	1.202479e+01	5.227269e+01	5.429748e+01

Co@Al: d = 2nm

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Al	1.607437e+01	2.024790e+00	0.000000e+00
Al	1.607437e+01	2.024790e+00	2.809916e+01
Al	1.607437e+01	2.024790e+00	5.619832e+01
Al	1.607437e+01	3.012395e+01	0.000000e+00
Al	1.607437e+01	3.012395e+01	2.809916e+01
Al	1.607437e+01	3.012395e+01	5.619832e+01
Al	1.607437e+01	5.822311e+01	0.000000e+00
Al	1.607437e+01	5.822311e+01	2.809916e+01
Al	1.607437e+01	5.822311e+01	5.619832e+01
Al	1.607437e+01	0.000000e+00	2.024790e+00
Al	1.607437e+01	0.000000e+00	3.012395e+01
Al	1.607437e+01	0.000000e+00	5.822311e+01
Al	1.607437e+01	2.809916e+01	2.024790e+00
Al	1.607437e+01	2.809916e+01	3.012395e+01
Al	1.607437e+01	2.809916e+01	5.822311e+01
Al	1.607437e+01	5.619832e+01	2.024790e+00
Al	1.607437e+01	5.619832e+01	3.012395e+01
Al	1.607437e+01	5.619832e+01	5.822311e+01
Al	1.809916e+01	2.024790e+00	2.024790e+00
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Al	1.809916e+01	3.012395e+01	2.024790e+00
Al	1.809916e+01	3.012395e+01	3.012395e+01
Al	1.809916e+01	3.012395e+01	5.822311e+01

Al	1.809916e+01	5.822311e+01	2.024790e+00
Al	1.809916e+01	5.822311e+01	3.012395e+01
Al	1.809916e+01	5.822311e+01	5.822311e+01
Al	1.202479e+01	2.024790e+00	0.000000e+00
Al	1.202479e+01	2.024790e+00	2.809916e+01
Al	1.202479e+01	2.024790e+00	5.619832e+01
Al	1.202479e+01	3.012395e+01	0.000000e+00
Al	1.202479e+01	3.012395e+01	2.809916e+01
Al	1.202479e+01	3.012395e+01	5.619832e+01
Al	1.202479e+01	5.822311e+01	0.000000e+00
Al	1.202479e+01	5.822311e+01	2.809916e+01
Al	1.202479e+01	5.822311e+01	5.619832e+01
Al	1.404958e+01	4.049580e+00	0.000000e+00
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Al	1.404958e+01	3.214874e+01	5.619832e+01
Al	1.404958e+01	6.024790e+01	0.000000e+00
Al	1.404958e+01	6.024790e+01	2.809916e+01
Al	1.404958e+01	6.024790e+01	5.619832e+01
Al	1.607437e+01	6.074370e+00	0.000000e+00
Al	1.607437e+01	6.074370e+00	2.809916e+01
Al	1.607437e+01	6.074370e+00	5.619832e+01
Al	1.607437e+01	3.417353e+01	0.000000e+00
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Al	1.607437e+01	3.417353e+01	5.619832e+01
Al	1.607437e+01	6.227269e+01	0.000000e+00
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Al	1.202479e+01	0.000000e+00	2.024790e+00
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Al	1.404958e+01	2.809916e+01	3.214874e+01
Al	1.404958e+01	2.809916e+01	6.024790e+01
Al	1.404958e+01	5.619832e+01	4.049580e+00
Al	1.404958e+01	5.619832e+01	3.214874e+01
Al	1.404958e+01	5.619832e+01	6.024790e+01
Al	1.607437e+01	2.024790e+00	4.049580e+00
Al	1.607437e+01	2.024790e+00	3.214874e+01
Al	1.607437e+01	2.024790e+00	6.024790e+01
Al	1.607437e+01	3.012395e+01	4.049580e+00
Al	1.607437e+01	3.012395e+01	3.214874e+01
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Al	1.607437e+01	5.822311e+01	6.024790e+01
Al	1.809916e+01	4.049580e+00	4.049580e+00
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Al	1.809916e+01	3.214874e+01	4.049580e+00
Al	1.809916e+01	3.214874e+01	3.214874e+01
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Al	1.809916e+01	6.024790e+01	4.049580e+00
Al	1.809916e+01	6.024790e+01	3.214874e+01
Al	1.809916e+01	6.024790e+01	6.024790e+01
Al	1.607437e+01	0.000000e+00	6.074370e+00
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Al	1.607437e+01	2.809916e+01	6.074370e+00
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Al	1.809916e+01	3.012395e+01	6.074370e+00
Al	1.809916e+01	3.012395e+01	3.417353e+01
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Al	1.202479e+01	6.074370e+00	0.000000e+00
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Ni@Al nanoparticle

43

Al	1.607437e+01	1.202479e+01	1.000000e+01
Al	1.607437e+01	1.000000e+01	1.202479e+01
Al	1.809916e+01	1.202479e+01	1.202479e+01
Al	1.202479e+01	1.202479e+01	1.000000e+01
Al	1.404958e+01	1.404958e+01	1.000000e+01
Al	1.607437e+01	1.607437e+01	1.000000e+01
Al	1.202479e+01	1.000000e+01	1.202479e+01
Al	1.404958e+01	1.202479e+01	1.202479e+01
Al	1.607437e+01	1.404958e+01	1.202479e+01
Al	1.809916e+01	1.607437e+01	1.202479e+01
Al	1.404958e+01	1.000000e+01	1.404958e+01
Al	1.607437e+01	1.202479e+01	1.404958e+01
Al	1.809916e+01	1.404958e+01	1.404958e+01
Al	1.607437e+01	1.000000e+01	1.607437e+01
Al	1.809916e+01	1.202479e+01	1.607437e+01
Al	1.202479e+01	1.607437e+01	1.000000e+01
Al	1.000000e+01	1.202479e+01	1.202479e+01
Al	1.202479e+01	1.404958e+01	1.202479e+01
Al	1.404958e+01	1.607437e+01	1.202479e+01
Al	1.607437e+01	1.809916e+01	1.202479e+01
Al	1.202479e+01	1.202479e+01	1.404958e+01
Ni	1.404958e+01	1.404958e+01	1.404958e+01
Al	1.607437e+01	1.607437e+01	1.404958e+01
Al	1.202479e+01	1.000000e+01	1.607437e+01
Al	1.404958e+01	1.202479e+01	1.607437e+01
Al	1.607437e+01	1.404958e+01	1.607437e+01
Al	1.809916e+01	1.607437e+01	1.607437e+01
Al	1.607437e+01	1.202479e+01	1.809916e+01
Al	1.000000e+01	1.607437e+01	1.202479e+01

Al	1.202479e+01	1.809916e+01	1.202479e+01
Al	1.000000e+01	1.404958e+01	1.404958e+01
Al	1.202479e+01	1.607437e+01	1.404958e+01
Al	1.404958e+01	1.809916e+01	1.404958e+01
Al	1.000000e+01	1.202479e+01	1.607437e+01
Al	1.202479e+01	1.404958e+01	1.607437e+01
Al	1.404958e+01	1.607437e+01	1.607437e+01
Al	1.607437e+01	1.809916e+01	1.607437e+01
Al	1.202479e+01	1.202479e+01	1.809916e+01
Al	1.404958e+01	1.404958e+01	1.809916e+01
Al	1.607437e+01	1.607437e+01	1.809916e+01
Al	1.000000e+01	1.607437e+01	1.607437e+01
Al	1.202479e+01	1.809916e+01	1.607437e+01
Al	1.202479e+01	1.607437e+01	1.809916e+01

Ni@Al: d = 1nm

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Al	1.607437e+01	1.202479e+01	1.000000e+01
Al	1.607437e+01	1.202479e+01	2.809916e+01
Al	1.607437e+01	1.202479e+01	4.619832e+01
Al	1.607437e+01	3.012395e+01	1.000000e+01
Al	1.607437e+01	3.012395e+01	2.809916e+01
Al	1.607437e+01	3.012395e+01	4.619832e+01
Al	1.607437e+01	4.822311e+01	1.000000e+01
Al	1.607437e+01	4.822311e+01	2.809916e+01
Al	1.607437e+01	4.822311e+01	4.619832e+01
Al	1.607437e+01	1.000000e+01	1.202479e+01
Al	1.607437e+01	1.000000e+01	3.012395e+01
Al	1.607437e+01	1.000000e+01	4.822311e+01
Al	1.607437e+01	2.809916e+01	1.202479e+01
Al	1.607437e+01	2.809916e+01	3.012395e+01
Al	1.607437e+01	2.809916e+01	4.822311e+01

Al	1.607437e+01	4.619832e+01	1.202479e+01
Al	1.607437e+01	4.619832e+01	3.012395e+01
Al	1.607437e+01	4.619832e+01	4.822311e+01
Al	1.809916e+01	1.202479e+01	1.202479e+01
Al	1.809916e+01	1.202479e+01	3.012395e+01
Al	1.809916e+01	1.202479e+01	4.822311e+01
Al	1.809916e+01	3.012395e+01	1.202479e+01
Al	1.809916e+01	3.012395e+01	3.012395e+01
Al	1.809916e+01	3.012395e+01	4.822311e+01
Al	1.809916e+01	4.822311e+01	1.202479e+01
Al	1.809916e+01	4.822311e+01	3.012395e+01
Al	1.809916e+01	4.822311e+01	4.822311e+01
Al	1.202479e+01	1.202479e+01	1.000000e+01
Al	1.202479e+01	1.202479e+01	2.809916e+01
Al	1.202479e+01	1.202479e+01	4.619832e+01
Al	1.202479e+01	3.012395e+01	1.000000e+01
Al	1.202479e+01	3.012395e+01	2.809916e+01
Al	1.202479e+01	3.012395e+01	4.619832e+01
Al	1.202479e+01	4.822311e+01	1.000000e+01
Al	1.202479e+01	4.822311e+01	2.809916e+01
Al	1.202479e+01	4.822311e+01	4.619832e+01
Al	1.404958e+01	1.404958e+01	1.000000e+01
Al	1.404958e+01	1.404958e+01	2.809916e+01
Al	1.404958e+01	1.404958e+01	4.619832e+01
Al	1.404958e+01	3.214874e+01	1.000000e+01
Al	1.404958e+01	3.214874e+01	2.809916e+01
Al	1.404958e+01	3.214874e+01	4.619832e+01
Al	1.404958e+01	5.024790e+01	1.000000e+01
Al	1.404958e+01	5.024790e+01	2.809916e+01
Al	1.404958e+01	5.024790e+01	4.619832e+01
Al	1.607437e+01	1.607437e+01	1.000000e+01
Al	1.607437e+01	1.607437e+01	2.809916e+01
Al	1.607437e+01	1.607437e+01	4.619832e+01
Al	1.607437e+01	3.417353e+01	1.000000e+01
Al	1.607437e+01	3.417353e+01	2.809916e+01

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Al 1.809916e+01 3.417353e+01 1.202479e+01

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Al	1.809916e+01	3.417353e+01	4.822311e+01
Al	1.809916e+01	5.227269e+01	1.202479e+01
Al	1.809916e+01	5.227269e+01	3.012395e+01
Al	1.809916e+01	5.227269e+01	4.822311e+01
Al	1.404958e+01	1.000000e+01	1.404958e+01
Al	1.404958e+01	1.000000e+01	3.214874e+01
Al	1.404958e+01	1.000000e+01	5.024790e+01
Al	1.404958e+01	2.809916e+01	1.404958e+01
Al	1.404958e+01	2.809916e+01	3.214874e+01
Al	1.404958e+01	2.809916e+01	5.024790e+01
Al	1.404958e+01	4.619832e+01	1.404958e+01
Al	1.404958e+01	4.619832e+01	3.214874e+01
Al	1.404958e+01	4.619832e+01	5.024790e+01
Al	1.607437e+01	1.202479e+01	1.404958e+01
Al	1.607437e+01	1.202479e+01	3.214874e+01
Al	1.607437e+01	1.202479e+01	5.024790e+01
Al	1.607437e+01	3.012395e+01	1.404958e+01
Al	1.607437e+01	3.012395e+01	3.214874e+01
Al	1.607437e+01	3.012395e+01	5.024790e+01
Al	1.607437e+01	4.822311e+01	1.404958e+01
Al	1.607437e+01	4.822311e+01	3.214874e+01
Al	1.607437e+01	4.822311e+01	5.024790e+01
Al	1.809916e+01	1.404958e+01	1.404958e+01
Al	1.809916e+01	1.404958e+01	3.214874e+01
Al	1.809916e+01	1.404958e+01	5.024790e+01
Al	1.809916e+01	3.214874e+01	1.404958e+01
Al	1.809916e+01	3.214874e+01	3.214874e+01
Al	1.809916e+01	3.214874e+01	5.024790e+01
Al	1.809916e+01	5.024790e+01	1.404958e+01
Al	1.809916e+01	5.024790e+01	3.214874e+01
Al	1.809916e+01	5.024790e+01	5.024790e+01
Al	1.607437e+01	1.000000e+01	1.607437e+01
Al	1.607437e+01	1.000000e+01	3.417353e+01
Al	1.607437e+01	1.000000e+01	5.227269e+01

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Al	1.202479e+01	1.404958e+01	4.822311e+01
Al	1.202479e+01	3.214874e+01	1.202479e+01
Al	1.202479e+01	3.214874e+01	3.012395e+01
Al	1.202479e+01	3.214874e+01	4.822311e+01
Al	1.202479e+01	5.024790e+01	1.202479e+01
Al	1.202479e+01	5.024790e+01	3.012395e+01
Al	1.202479e+01	5.024790e+01	4.822311e+01
Al	1.404958e+01	1.607437e+01	1.202479e+01
Al	1.404958e+01	1.607437e+01	3.012395e+01
Al	1.404958e+01	1.607437e+01	4.822311e+01
Al	1.404958e+01	3.417353e+01	1.202479e+01
Al	1.404958e+01	3.417353e+01	3.012395e+01
Al	1.404958e+01	3.417353e+01	4.822311e+01
Al	1.404958e+01	5.227269e+01	1.202479e+01
Al	1.404958e+01	5.227269e+01	3.012395e+01
Al	1.404958e+01	5.227269e+01	4.822311e+01
Al	1.607437e+01	1.809916e+01	1.202479e+01
Al	1.607437e+01	1.809916e+01	3.012395e+01
Al	1.607437e+01	1.809916e+01	4.822311e+01
Al	1.607437e+01	3.619832e+01	1.202479e+01
Al	1.607437e+01	3.619832e+01	3.012395e+01
Al	1.607437e+01	3.619832e+01	4.822311e+01
Al	1.607437e+01	5.429748e+01	1.202479e+01
Al	1.607437e+01	5.429748e+01	3.012395e+01
Al	1.607437e+01	5.429748e+01	4.822311e+01
Al	1.202479e+01	1.202479e+01	1.404958e+01
Al	1.202479e+01	1.202479e+01	3.214874e+01
Al	1.202479e+01	1.202479e+01	5.024790e+01
Al	1.202479e+01	3.012395e+01	1.404958e+01
Al	1.202479e+01	3.012395e+01	3.214874e+01
Al	1.202479e+01	3.012395e+01	5.024790e+01
Al	1.202479e+01	4.822311e+01	1.404958e+01
Al	1.202479e+01	4.822311e+01	3.214874e+01
Al	1.202479e+01	4.822311e+01	5.024790e+01
Ni	1.404958e+01	1.404958e+01	1.404958e+01

Ni	1.404958e+01	1.404958e+01	3.214874e+01
Ni	1.404958e+01	1.404958e+01	5.024790e+01
Ni	1.404958e+01	3.214874e+01	1.404958e+01
Ni	1.404958e+01	3.214874e+01	3.214874e+01
Ni	1.404958e+01	3.214874e+01	5.024790e+01
Ni	1.404958e+01	5.024790e+01	1.404958e+01
Ni	1.404958e+01	5.024790e+01	3.214874e+01
Ni	1.404958e+01	5.024790e+01	5.024790e+01
Al	1.607437e+01	1.607437e+01	1.404958e+01
Al	1.607437e+01	1.607437e+01	3.214874e+01
Al	1.607437e+01	1.607437e+01	5.024790e+01
Al	1.607437e+01	3.417353e+01	1.404958e+01
Al	1.607437e+01	3.417353e+01	3.214874e+01
Al	1.607437e+01	3.417353e+01	5.024790e+01
Al	1.607437e+01	5.227269e+01	1.404958e+01
Al	1.607437e+01	5.227269e+01	3.214874e+01
Al	1.607437e+01	5.227269e+01	5.024790e+01
Al	1.202479e+01	1.000000e+01	1.607437e+01
Al	1.202479e+01	1.000000e+01	3.417353e+01
Al	1.202479e+01	1.000000e+01	5.227269e+01
Al	1.202479e+01	2.809916e+01	1.607437e+01
Al	1.202479e+01	2.809916e+01	3.417353e+01
Al	1.202479e+01	2.809916e+01	5.227269e+01
Al	1.202479e+01	4.619832e+01	1.607437e+01
Al	1.202479e+01	4.619832e+01	3.417353e+01
Al	1.202479e+01	4.619832e+01	5.227269e+01
Al	1.404958e+01	1.202479e+01	1.607437e+01
Al	1.404958e+01	1.202479e+01	3.417353e+01
Al	1.404958e+01	1.202479e+01	5.227269e+01
Al	1.404958e+01	3.012395e+01	1.607437e+01
Al	1.404958e+01	3.012395e+01	3.417353e+01
Al	1.404958e+01	3.012395e+01	5.227269e+01
Al	1.404958e+01	4.822311e+01	1.607437e+01
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Al	1.202479e+01	1.809916e+01	1.202479e+01
Al	1.202479e+01	1.809916e+01	3.012395e+01
Al	1.202479e+01	1.809916e+01	4.822311e+01
Al	1.202479e+01	3.619832e+01	1.202479e+01
Al	1.202479e+01	3.619832e+01	3.012395e+01
Al	1.202479e+01	3.619832e+01	4.822311e+01
Al	1.202479e+01	5.429748e+01	1.202479e+01
Al	1.202479e+01	5.429748e+01	3.012395e+01
Al	1.202479e+01	5.429748e+01	4.822311e+01
Al	1.000000e+01	1.404958e+01	1.404958e+01
Al	1.000000e+01	1.404958e+01	3.214874e+01
Al	1.000000e+01	1.404958e+01	5.024790e+01
Al	1.000000e+01	3.214874e+01	1.404958e+01
Al	1.000000e+01	3.214874e+01	3.214874e+01
Al	1.000000e+01	3.214874e+01	5.024790e+01
Al	1.000000e+01	5.024790e+01	1.404958e+01
Al	1.000000e+01	5.024790e+01	3.214874e+01
Al	1.000000e+01	5.024790e+01	5.024790e+01
Al	1.202479e+01	1.607437e+01	1.404958e+01
Al	1.202479e+01	1.607437e+01	3.214874e+01
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Al	1.202479e+01	3.417353e+01	3.214874e+01
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Al	1.404958e+01	1.809916e+01	1.404958e+01
Al	1.404958e+01	1.809916e+01	3.214874e+01
Al	1.404958e+01	1.809916e+01	5.024790e+01
Al	1.404958e+01	3.619832e+01	1.404958e+01
Al	1.404958e+01	3.619832e+01	3.214874e+01
Al	1.404958e+01	3.619832e+01	5.024790e+01
Al	1.404958e+01	5.429748e+01	1.404958e+01

Al	1.404958e+01	5.429748e+01	3.214874e+01
Al	1.404958e+01	5.429748e+01	5.024790e+01
Al	1.000000e+01	1.202479e+01	1.607437e+01
Al	1.000000e+01	1.202479e+01	3.417353e+01
Al	1.000000e+01	1.202479e+01	5.227269e+01
Al	1.000000e+01	3.012395e+01	1.607437e+01
Al	1.000000e+01	3.012395e+01	3.417353e+01
Al	1.000000e+01	3.012395e+01	5.227269e+01
Al	1.000000e+01	4.822311e+01	1.607437e+01
Al	1.000000e+01	4.822311e+01	3.417353e+01
Al	1.000000e+01	4.822311e+01	5.227269e+01
Al	1.202479e+01	1.404958e+01	1.607437e+01
Al	1.202479e+01	1.404958e+01	3.417353e+01
Al	1.202479e+01	1.404958e+01	5.227269e+01
Al	1.202479e+01	3.214874e+01	1.607437e+01
Al	1.202479e+01	3.214874e+01	3.417353e+01
Al	1.202479e+01	3.214874e+01	5.227269e+01
Al	1.202479e+01	5.024790e+01	1.607437e+01
Al	1.202479e+01	5.024790e+01	3.417353e+01
Al	1.202479e+01	5.024790e+01	5.227269e+01
Al	1.404958e+01	1.607437e+01	1.607437e+01
Al	1.404958e+01	1.607437e+01	3.417353e+01
Al	1.404958e+01	1.607437e+01	5.227269e+01
Al	1.404958e+01	3.417353e+01	1.607437e+01
Al	1.404958e+01	3.417353e+01	3.417353e+01
Al	1.404958e+01	3.417353e+01	5.227269e+01
Al	1.404958e+01	5.227269e+01	1.607437e+01
Al	1.404958e+01	5.227269e+01	3.417353e+01
Al	1.404958e+01	5.227269e+01	5.227269e+01
Al	1.607437e+01	1.809916e+01	1.607437e+01
Al	1.607437e+01	1.809916e+01	3.417353e+01
Al	1.607437e+01	1.809916e+01	5.227269e+01
Al	1.607437e+01	3.619832e+01	1.607437e+01
Al	1.607437e+01	3.619832e+01	3.417353e+01
Al	1.607437e+01	3.619832e+01	5.227269e+01

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Al 1.000000e+01 1.607437e+01 5.227269e+01
Al 1.000000e+01 3.417353e+01 1.607437e+01
Al 1.000000e+01 3.417353e+01 3.417353e+01

Al	1.000000e+01	3.417353e+01	5.227269e+01
Al	1.000000e+01	5.227269e+01	1.607437e+01
Al	1.000000e+01	5.227269e+01	3.417353e+01
Al	1.000000e+01	5.227269e+01	5.227269e+01
Al	1.202479e+01	1.809916e+01	1.607437e+01
Al	1.202479e+01	1.809916e+01	3.417353e+01
Al	1.202479e+01	1.809916e+01	5.227269e+01
Al	1.202479e+01	3.619832e+01	1.607437e+01
Al	1.202479e+01	3.619832e+01	3.417353e+01
Al	1.202479e+01	3.619832e+01	5.227269e+01
Al	1.202479e+01	5.429748e+01	1.607437e+01
Al	1.202479e+01	5.429748e+01	3.417353e+01
Al	1.202479e+01	5.429748e+01	5.227269e+01
Al	1.202479e+01	1.607437e+01	1.809916e+01
Al	1.202479e+01	1.607437e+01	3.619832e+01
Al	1.202479e+01	1.607437e+01	5.429748e+01
Al	1.202479e+01	3.417353e+01	1.809916e+01
Al	1.202479e+01	3.417353e+01	3.619832e+01
Al	1.202479e+01	3.417353e+01	5.429748e+01
Al	1.202479e+01	5.227269e+01	1.809916e+01
Al	1.202479e+01	5.227269e+01	3.619832e+01
Al	1.202479e+01	5.227269e+01	5.429748e+01

Ni@Al: d = 2nm

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Al	1.607437e+01	2.024790e+00	0.000000e+00
Al	1.607437e+01	2.024790e+00	2.809916e+01
Al	1.607437e+01	2.024790e+00	5.619832e+01
Al	1.607437e+01	3.012395e+01	0.000000e+00
Al	1.607437e+01	3.012395e+01	2.809916e+01
Al	1.607437e+01	3.012395e+01	5.619832e+01
Al	1.607437e+01	5.822311e+01	0.000000e+00

Al 1.607437e+01 5.822311e+01 2.809916e+01
Al 1.607437e+01 5.822311e+01 5.619832e+01
Al 1.607437e+01 0.000000e+00 2.024790e+00
Al 1.607437e+01 0.000000e+00 3.012395e+01
Al 1.607437e+01 0.000000e+00 5.822311e+01
Al 1.607437e+01 2.809916e+01 2.024790e+00
Al 1.607437e+01 2.809916e+01 3.012395e+01
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Al 1.607437e+01 5.619832e+01 2.024790e+00
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Al 1.202479e+01 5.822311e+01 5.619832e+01
Al 1.404958e+01 4.049580e+00 0.000000e+00
Al 1.404958e+01 4.049580e+00 2.809916e+01
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Al 1.404958e+01 3.214874e+01 0.000000e+00
Al 1.404958e+01 3.214874e+01 2.809916e+01
Al 1.404958e+01 3.214874e+01 5.619832e+01

Al	1.404958e+01	6.024790e+01	0.000000e+00
Al	1.404958e+01	6.024790e+01	2.809916e+01
Al	1.404958e+01	6.024790e+01	5.619832e+01
Al	1.607437e+01	6.074370e+00	0.000000e+00
Al	1.607437e+01	6.074370e+00	2.809916e+01
Al	1.607437e+01	6.074370e+00	5.619832e+01
Al	1.607437e+01	3.417353e+01	0.000000e+00
Al	1.607437e+01	3.417353e+01	2.809916e+01
Al	1.607437e+01	3.417353e+01	5.619832e+01
Al	1.607437e+01	6.227269e+01	0.000000e+00
Al	1.607437e+01	6.227269e+01	2.809916e+01
Al	1.607437e+01	6.227269e+01	5.619832e+01
Al	1.202479e+01	0.000000e+00	2.024790e+00
Al	1.202479e+01	0.000000e+00	3.012395e+01
Al	1.202479e+01	0.000000e+00	5.822311e+01
Al	1.202479e+01	2.809916e+01	2.024790e+00
Al	1.202479e+01	2.809916e+01	3.012395e+01
Al	1.202479e+01	2.809916e+01	5.822311e+01
Al	1.202479e+01	5.619832e+01	2.024790e+00
Al	1.202479e+01	5.619832e+01	3.012395e+01
Al	1.202479e+01	5.619832e+01	5.822311e+01
Al	1.404958e+01	2.024790e+00	2.024790e+00
Al	1.404958e+01	2.024790e+00	3.012395e+01
Al	1.404958e+01	2.024790e+00	5.822311e+01
Al	1.404958e+01	3.012395e+01	2.024790e+00
Al	1.404958e+01	3.012395e+01	3.012395e+01
Al	1.404958e+01	3.012395e+01	5.822311e+01
Al	1.404958e+01	5.822311e+01	2.024790e+00
Al	1.404958e+01	5.822311e+01	3.012395e+01
Al	1.404958e+01	5.822311e+01	5.822311e+01
Al	1.607437e+01	4.049580e+00	2.024790e+00
Al	1.607437e+01	4.049580e+00	3.012395e+01
Al	1.607437e+01	4.049580e+00	5.822311e+01
Al	1.607437e+01	3.214874e+01	2.024790e+00
Al	1.607437e+01	3.214874e+01	3.012395e+01

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Al 1.809916e+01 3.214874e+01 4.049580e+00

Al	1.809916e+01	3.214874e+01	3.214874e+01
Al	1.809916e+01	3.214874e+01	6.024790e+01
Al	1.809916e+01	6.024790e+01	4.049580e+00
Al	1.809916e+01	6.024790e+01	3.214874e+01
Al	1.809916e+01	6.024790e+01	6.024790e+01
Al	1.607437e+01	0.000000e+00	6.074370e+00
Al	1.607437e+01	0.000000e+00	3.417353e+01
Al	1.607437e+01	0.000000e+00	6.227269e+01
Al	1.607437e+01	2.809916e+01	6.074370e+00
Al	1.607437e+01	2.809916e+01	3.417353e+01
Al	1.607437e+01	2.809916e+01	6.227269e+01
Al	1.607437e+01	5.619832e+01	6.074370e+00
Al	1.607437e+01	5.619832e+01	3.417353e+01
Al	1.607437e+01	5.619832e+01	6.227269e+01
Al	1.809916e+01	2.024790e+00	6.074370e+00
Al	1.809916e+01	2.024790e+00	3.417353e+01
Al	1.809916e+01	2.024790e+00	6.227269e+01
Al	1.809916e+01	3.012395e+01	6.074370e+00
Al	1.809916e+01	3.012395e+01	3.417353e+01
Al	1.809916e+01	3.012395e+01	6.227269e+01
Al	1.809916e+01	5.822311e+01	6.074370e+00
Al	1.809916e+01	5.822311e+01	3.417353e+01
Al	1.809916e+01	5.822311e+01	6.227269e+01
Al	1.202479e+01	6.074370e+00	0.000000e+00
Al	1.202479e+01	6.074370e+00	2.809916e+01
Al	1.202479e+01	6.074370e+00	5.619832e+01
Al	1.202479e+01	3.417353e+01	0.000000e+00
Al	1.202479e+01	3.417353e+01	2.809916e+01
Al	1.202479e+01	3.417353e+01	5.619832e+01
Al	1.202479e+01	6.227269e+01	0.000000e+00
Al	1.202479e+01	6.227269e+01	2.809916e+01
Al	1.202479e+01	6.227269e+01	5.619832e+01
Al	1.000000e+01	2.024790e+00	2.024790e+00
Al	1.000000e+01	2.024790e+00	3.012395e+01
Al	1.000000e+01	2.024790e+00	5.822311e+01

Al	1.000000e+01	3.012395e+01	2.024790e+00
Al	1.000000e+01	3.012395e+01	3.012395e+01
Al	1.000000e+01	3.012395e+01	5.822311e+01
Al	1.000000e+01	5.822311e+01	2.024790e+00
Al	1.000000e+01	5.822311e+01	3.012395e+01
Al	1.000000e+01	5.822311e+01	5.822311e+01
Al	1.202479e+01	4.049580e+00	2.024790e+00
Al	1.202479e+01	4.049580e+00	3.012395e+01
Al	1.202479e+01	4.049580e+00	5.822311e+01
Al	1.202479e+01	3.214874e+01	2.024790e+00
Al	1.202479e+01	3.214874e+01	3.012395e+01
Al	1.202479e+01	3.214874e+01	5.822311e+01
Al	1.202479e+01	6.024790e+01	2.024790e+00
Al	1.202479e+01	6.024790e+01	3.012395e+01
Al	1.202479e+01	6.024790e+01	5.822311e+01
Al	1.404958e+01	6.074370e+00	2.024790e+00
Al	1.404958e+01	6.074370e+00	3.012395e+01
Al	1.404958e+01	6.074370e+00	5.822311e+01
Al	1.404958e+01	3.417353e+01	2.024790e+00
Al	1.404958e+01	3.417353e+01	3.012395e+01
Al	1.404958e+01	3.417353e+01	5.822311e+01
Al	1.404958e+01	6.227269e+01	2.024790e+00
Al	1.404958e+01	6.227269e+01	3.012395e+01
Al	1.404958e+01	6.227269e+01	5.822311e+01
Al	1.607437e+01	8.099160e+00	2.024790e+00
Al	1.607437e+01	8.099160e+00	3.012395e+01
Al	1.607437e+01	8.099160e+00	5.822311e+01
Al	1.607437e+01	3.619832e+01	2.024790e+00
Al	1.607437e+01	3.619832e+01	3.012395e+01
Al	1.607437e+01	3.619832e+01	5.822311e+01
Al	1.607437e+01	6.429748e+01	2.024790e+00
Al	1.607437e+01	6.429748e+01	3.012395e+01
Al	1.607437e+01	6.429748e+01	5.822311e+01
Al	1.202479e+01	2.024790e+00	4.049580e+00
Al	1.202479e+01	2.024790e+00	3.214874e+01

Al	1.202479e+01	2.024790e+00	6.024790e+01
Al	1.202479e+01	3.012395e+01	4.049580e+00
Al	1.202479e+01	3.012395e+01	3.214874e+01
Al	1.202479e+01	3.012395e+01	6.024790e+01
Al	1.202479e+01	5.822311e+01	4.049580e+00
Al	1.202479e+01	5.822311e+01	3.214874e+01
Al	1.202479e+01	5.822311e+01	6.024790e+01
Ni	1.404958e+01	4.049580e+00	4.049580e+00
Ni	1.404958e+01	4.049580e+00	3.214874e+01
Ni	1.404958e+01	4.049580e+00	6.024790e+01
Ni	1.404958e+01	3.214874e+01	4.049580e+00
Ni	1.404958e+01	3.214874e+01	3.214874e+01
Ni	1.404958e+01	3.214874e+01	6.024790e+01
Ni	1.404958e+01	6.024790e+01	4.049580e+00
Ni	1.404958e+01	6.024790e+01	3.214874e+01
Ni	1.404958e+01	6.024790e+01	6.024790e+01
Al	1.607437e+01	6.074370e+00	4.049580e+00
Al	1.607437e+01	6.074370e+00	3.214874e+01
Al	1.607437e+01	6.074370e+00	6.024790e+01
Al	1.607437e+01	3.417353e+01	4.049580e+00
Al	1.607437e+01	3.417353e+01	3.214874e+01
Al	1.607437e+01	3.417353e+01	6.024790e+01
Al	1.607437e+01	6.227269e+01	4.049580e+00
Al	1.607437e+01	6.227269e+01	3.214874e+01
Al	1.607437e+01	6.227269e+01	6.024790e+01
Al	1.202479e+01	0.000000e+00	6.074370e+00
Al	1.202479e+01	0.000000e+00	3.417353e+01
Al	1.202479e+01	0.000000e+00	6.227269e+01
Al	1.202479e+01	2.809916e+01	6.074370e+00
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