

# Rong Yu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148  
papers

6,594  
citations

38  
h-index

79  
g-index

151  
ext. papers

7,677  
ext. citations

6.7  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
148	Stabilization of the (1 1 1) surface of NiO and CoO by segregation of point defects. <i>Applied Surface Science</i> , <b>2022</b> , 582, 152473	6.7	0
147	Displacement separation analysis from atomic-resolution images. <i>Ultramicroscopy</i> , <b>2022</b> , 232, 113404	3.1	0
146	Two-band superconductivity through structural and electronic reconstruction on interface: YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /LaAlO <sub>3</sub> (001). <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 125303	2.5	0
145	Unveiling the charge transfer dynamics steered by built-in electric fields in BiOBr photocatalysts.. <i>Nature Communications</i> , <b>2022</b> , 13, 2230	17.4	8
144	Deep sub-angstrom resolution imaging by electron ptychography with misorientation correction.. <i>Science Advances</i> , <b>2022</b> , 8, eabn2275	14.3	2
143	Atomic structures of twin boundaries in CoO. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 25590-25596	6.6	1
142	Metastable Ce-terminated (1 1 1) surface of ceria. <i>Applied Surface Science</i> , <b>2021</b> , 546, 148972	6.7	1
141	Properties of stress-induced super tetragonal phase in epitaxial BiFeO <sub>3</sub> thin film. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 242903	3.4	0
140	Surface Structures of MnO and the Partition of Oxidation States of Mn. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5675-5681	6.4	2
139	Atomic Structure of the Cu <sub>2</sub> O(111) Surface: A Transmission Electron Microscopy and DFT + U Study. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2100185	1.3	0
138	Twin Boundary and Fivefold Twins in Nickel Oxide. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2000377	1.3	1
137	Polyhedron and Charge Ordering in Interfacial Reconstruction of a Hexagonal Ferrite/Sapphire Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11489-11496	9.5	2
136	Controlling Strain Relaxation by Interface Design in Highly Lattice-Mismatched Heterostructure. <i>Nano Letters</i> , <b>2021</b> , 21, 6867-6874	11.5	2
135	Rare-Earth Single Erbium Atoms for Enhanced Photocatalytic CO <sub>2</sub> Reduction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 10738-10744	3.6	31
134	Rare-Earth Single Erbium Atoms for Enhanced Photocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 10651-10657	16.4	148
133	Structure and Stability of the (001) Surface of Co <sub>3</sub> O <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25790-25795	9.5	8
132	Structural and spin state transition in the polar NiO(1 1 1) surface. <i>Applied Surface Science</i> , <b>2020</b> , 532, 147427	6.7	6

131	Atomic Structure and Properties of SnO <sub>2</sub> (100) and (101) Surfaces and (301) Steps in the (100) Surface. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27631-27636	3.8	2
130	Structural distortion and collinear-to-helical magnetism transition in rutile-type FeO <sub>2</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
129	Surface termination and stoichiometry of LaAlO(001) surface studied by HRTEM. <i>Micron</i> , <b>2020</b> , 137, 102919	2.1	8
128	Flexible Cation Distribution for Stabilizing a Spinel Surface. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16431-16438	3.8	7
127	Atomic structure and properties of a perovskite/spinel (111) interface. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
126	Atomic structures of high Miller index surfaces of NiO. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 14164-14171	1.1	3
125	Prediction of stable high-pressure structures of tantalum nitride TaN <sub>2</sub> . <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2297-2304	9.1	5
124	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , <b>2019</b> , 2, 495-503	36.5	258
123	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. <i>Chemical Science</i> , <b>2019</b> , 10, 5345-5352	9.4	39
122	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , <b>2019</b> , 10, 4875	17.4	119
121	PdAg bimetallic electrocatalyst for highly selective reduction of CO <sub>2</sub> with low COOH* formation energy and facile CO desorption. <i>Nano Research</i> , <b>2019</b> , 12, 2866-2871	10	38
120	Visualization of Dopant Oxygen Atoms in a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ Superconductor. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903843	15.6	13
119	Hardening tungsten carbide by alloying elements with high work function. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2019</b> , 75, 994-1002	1.8	2
118	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. <i>Physical Review Letters</i> , <b>2019</b> , 123, 247601	7.4	5
117	Coherent Topotactic Interface between Corundum and Rutile Structures. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 534-540	3.8	2
116	Tuning defects in oxides at room temperature by lithium reduction. <i>Nature Communications</i> , <b>2018</b> , 9, 1302	17.4	225
115	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. <i>Nature Materials</i> , <b>2018</b> , 17, 221-225	27	42
114	Atomic Heterointerfaces and Electrical Transportation Properties in Self-Assembled LaNiO <sub>3</sub> /NiO Heteroepitaxy. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701202	4.6	5

113	Oxygen adatoms and vacancies on the (110) surface of CeO <sub>2</sub> . <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 135-139	3.5	12
112	Roles of Oxygen Vacancy in Improper Ferroelectrics. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 74-75	0.5	
111	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , <b>2018</b> , 9, 2353	17.4	162
110	Structure stabilization effect of configuration entropy in cubic WN. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29243-29248	3.6	1
109	Bilayer MoS <sub>2</sub> quantum dots with tunable magnetism and spin. <i>AIP Advances</i> , <b>2018</b> , 8, 115103	1.5	2
108	Single-atomic cobalt sites embedded in hierarchically ordered porous nitrogen-doped carbon as a superior bifunctional electrocatalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12692-12697	11.5	222
107	Atomic-scale structure characteristics of antiferroelectric silver niobate. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 242901	3.4	6
106	Subsurface reconstruction and saturation of surface bonds. <i>Science Bulletin</i> , <b>2018</b> , 63, 1570-1575	10.6	12
105	Strengthening materials by changing the number of valence electrons. <i>Computational Materials Science</i> , <b>2017</b> , 129, 252-258	3.2	6
104	Prediction on technetium triboride from first-principles calculations. <i>Solid State Communications</i> , <b>2017</b> , 252, 40-45	1.6	12
103	Strain Concentration at the Boundaries in 5-Fold Twins of Diamond and Silicon. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4253-4258	9.5	11
102	Isolated Single-Atom Pd Sites in Intermetallic Nanostructures: High Catalytic Selectivity for Semihydrogenation of Alkynes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7294-7301	16.4	238
101	Formation of Hexagonal-Close Packed (HCP) Rhodium as a Size Effect. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 575-578	16.4	42
100	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , <b>2017</b> , 3, e1603231	14.3	18
99	Atomic Mechanism of Hybridization-Dependent Surface Reconstruction with Tailored Functionality in Hexagonal Multiferroics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27322-27331	9.5	10
98	Structural stability and the alloying effect of TiB polymorphs in TiAl alloys. <i>Intermetallics</i> , <b>2017</b> , 90, 97-102	3.5	26
97	Crystal structure of and displacive phase transition in tungsten nitride WN. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 722, 517-524	5.7	8
96	Atomic layer reversal on CeO <sub>2</sub> (100) surface. <i>Science China Materials</i> , <b>2017</b> , 60, 903-908	7.1	15

95	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. <i>Science</i> , <b>2016</b> , 354, 1414-1419	33.3	986
94	Engineering the surface of rutile TiO <sub>2</sub> nanoparticles with quantum pits towards excellent lithium storage. <i>RSC Advances</i> , <b>2016</b> , 6, 66197-66203	3.7	10
93	A new type of vanadium carbide V <sub>5</sub> C <sub>3</sub> and its hardening by tuning Fermi energy. <i>Scientific Reports</i> , <b>2016</b> , 6, 21794	4.9	16
92	Competing Interfacial Reconstruction Mechanisms in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24192-7	9.5	18
91	Atomic structure and polarity compensation of BaTiO <sub>3</sub> (1 1 1) surface. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 095901	1.8	2
90	Enhanced stability of the strengthening phase Ni <sub>2</sub> (Cr,Mo) in NiCrMo alloys by adjacent instability. <i>Computational Materials Science</i> , <b>2015</b> , 109, 111-114	3.2	1
89	Ultrathin CuO nanorods: controllable synthesis and superior catalytic properties in styrene epoxidation. <i>Chemical Communications</i> , <b>2015</b> , 51, 8817-20	5.8	26
88	Platinum-nickel frame within metal-organic framework fabricated in situ for hydrogen enrichment and molecular sieving. <i>Nature Communications</i> , <b>2015</b> , 6, 8248	17.4	152
87	Determination of the incommensurate modulated structure of Bi <sub>2</sub> Sr <sub>1.6</sub> La <sub>0.4</sub> CuO <sub>6+δ</sub> by aberration-corrected transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2015</b> , 159 Pt 1, 67-72	3.1	5
86	Core structures of {110} edge dislocations in BaTiO <sub>3</sub> . <i>AIP Advances</i> , <b>2015</b> , 5, 077172	1.5	
85	Spontaneous orientation-tuning driven by the strain variation in self-assembled ZnO-SrRuO <sub>3</sub> heteroepitaxy. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 191902	3.4	4
84	Direct Observation of Thickness Dependence of Ferroelectricity in Freestanding BaTiO <sub>3</sub> Thin Film. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2710-2712	3.8	12
83	Deuterium ion irradiation induced precipitation in FeCr alloy: Characterization and effects on irradiation behavior. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 459, 81-89	3.3	3
82	Softest elastic mode governs materials hardness. <i>Science Bulletin</i> , <b>2014</b> , 59, 1747-1754		13
81	Experimental measurements and theoretical calculations of the atomic structure of materials with subangstrom resolution and picometer precision. <i>Science Bulletin</i> , <b>2014</b> , 59, 1719-1724		5
80	Orientation-tuning in self-assembled heterostructures induced by a buffer layer. <i>Nanoscale</i> , <b>2014</b> , 6, 5126-31	7.7	17
79	Early precipitation of Ni <sub>2</sub> (Cr,Mo) phase. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 615, 1-6	5.3	5
78	Sophisticated construction of Au islands on Pt-Ni: an ideal trimetallic nanoframe catalyst. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11594-7	16.4	206

77	Ultrathin rhodium nanosheets. <i>Nature Communications</i> , <b>2014</b> , 5, 3093	17.4	350
76	Evaluation of stacking faults and associated partial dislocations in AlSb/GaAs (001) interface by aberration-corrected high-resolution transmission electron microscopy. <i>AIP Advances</i> , <b>2014</b> , 4, 117135	1.5	5
75	Kinetic faceting of the low index W surfaces under electrical current. <i>Surface Science</i> , <b>2014</b> , 625, 10-15	1.8	6
74	Defect-dominated shape recovery of nanocrystals: a new strategy for trimetallic catalysts. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12220-3	16.4	88
73	Self-assembled perovskite-spinel heterostructure on a highly distorted substrate. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 111903	3.4	11
72	Atomic steps on the MgO(100) surface. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	11
71	Quantitative experimental determination of site-specific magnetic structures by transmitted electrons. <i>Nature Communications</i> , <b>2013</b> , 4, 1395	17.4	61
70	Atomic-scale study of topological vortex-like domain pattern in multiferroic hexagonal manganites. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 032901	3.4	18
69	One-pot protocol for bimetallic Pt/Cu hexapod concave nanocrystals with enhanced electrocatalytic activity. <i>Scientific Reports</i> , <b>2013</b> , 3, 1404	4.9	64
68	Effective transference numbers and water incorporation in glass-ceramic La(PO <sub>3</sub> ) <sub>3</sub> /Ca(PO <sub>3</sub> ) <sub>2</sub> in oxidizing atmospheres. <i>Solid State Ionics</i> , <b>2012</b> , 217, 34-39	3.3	
67	Effective object planes for aberration-corrected transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2012</b> , 112, 15-21	3.1	9
66	Palladium/tin bimetallic single-crystalline hollow nanospheres. <i>Chemical Communications</i> , <b>2012</b> , 48, 1683-5	3.5	19
65	Highly branched Pt/Ni nanocrystals enclosed by stepped surface for methanol oxidation. <i>Chemical Science</i> , <b>2012</b> , 3, 1925	9.4	136
64	Lattice Strain Distributions in Individual Dealloyed Pt-Fe Catalyst Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 934-8	6.4	104
63	Subangstrom profile imaging of relaxed ZnO(10 10) surfaces. <i>Nano Letters</i> , <b>2012</b> , 12, 704-8	11.5	24
62	Effect of oxygen stoichiometry in LuFe <sub>2</sub> O <sub>4</sub> and its microstructure observed by aberration-corrected transmission electron microscopy. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 435901	1.8	9
61	Static and dynamic polar nanoregions in relaxor ferroelectric Ba(Ti <sub>1-x</sub> Snx)O <sub>3</sub> system at high temperature. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	62
60	Reversible Wurtzite-tetragonal Reconstruction in ZnO(10 $\bar{1}$ 0) Surfaces. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 7864-7867	3.6	15

59	Reversible wurtzite-tetragonal reconstruction in ZnO(1010) surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 7744-7	16.4	35
58	Ultrathin Au-Ag bimetallic nanowires with Coulomb blockade effects. <i>Chemical Communications</i> , <b>2011</b> , 47, 5160-2	5.8	67
57	Influence of Stress and Orientation on Magnetoelectric Coupling of Pb(Zr,Ti)O <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> Bilayer Films. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1060-1066	3.8	38
56	Microscopic model for the ferroelectric field effect in oxide heterostructures. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	48
55	Dynamic microscopic structures and dielectric response in the cubic-to-tetragonal phase transition for BaTiO <sub>3</sub> studied by first-principles molecular dynamics simulation. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 054101	2.5	5
54	Undulating slip in Laves phase and implications for deformation in brittle materials. <i>Physical Review Letters</i> , <b>2011</b> , 106, 165505	7.4	32
53	Direct subangstrom measurement of surfaces of oxide particles. <i>Physical Review Letters</i> , <b>2010</b> , 105, 226104	10.1	53
52	Ferroelectric polarization and domain walls in orthorhombic (K <sub>1-x</sub> Nax)NbO <sub>3</sub> lead-free ferroelectric ceramics. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 221905	3.4	10
51	Multishell intermetallic onions by symmetrical configuration of ordered domains. <i>Physical Review Letters</i> , <b>2010</b> , 105, 225501	7.4	3
50	A Seed-Based Diffusion Route to Monodisperse Intermetallic CuAu Nanocrystals. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 2979-2983	3.6	35
49	A seed-based diffusion route to monodisperse intermetallic CuAu nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2917-21	16.4	147
48	Addition of ferromagnetic CoFe <sub>2</sub> O <sub>4</sub> to YBCO thin films for enhanced flux pinning. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S223-S224	1.3	17
47	Calculations of single-crystal elastic constants made simple. <i>Computer Physics Communications</i> , <b>2010</b> , 181, 671-675	4.2	145
46	Superconductor/ferromagnet nanocomposites created by co-deposition of niobium and dysprosium. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 075001	3.1	3
45	A novel controllable synthesis of silica nanotube arrays with ultraviolet photoluminescence. <i>Solid State Sciences</i> , <b>2009</b> , 11, 1252-1257	3.4	2
44	Large-area silica nanotubes with controllable geometry on silicon substrates. <i>Applied Surface Science</i> , <b>2009</b> , 255, 3563-3566	6.7	9
43	Icosahedral face-centered cubic Fe nanoparticles: facile synthesis and characterization with aberration-corrected TEM. <i>Nano Letters</i> , <b>2009</b> , 9, 1572-6	11.5	75
42	Practical Magnetic Pinning in YBCO. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 3148-3151	1.8	23

41	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. <i>Nature Materials</i> , <b>2008</b> , 7, 314-20	27	297
40	Impact of carbon structure and morphology on the electrochemical performance of LiFePO <sub>4</sub> /C composites. <i>Journal of Solid State Electrochemistry</i> , <b>2008</b> , 12, 995-1001	2.6	78
39	Epitaxial growth of Fe <sub>3</sub> O <sub>4</sub> (1 1 1) on SrTiO <sub>3</sub> (0 0 1) substrates. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 5282-5286	17	
38	Proton conduction and characterization of an La(PO <sub>3</sub> ) <sub>3</sub> Ta(PO <sub>3</sub> ) <sub>2</sub> glass-ceramic. <i>Solid State Ionics</i> , <b>2008</b> , 178, 1811-1816	3.3	17
37	Proton-Transfer Mechanism in LaPO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 11003-11007	3.8	64
36	Crystal Structures of and Displacive Transitions in OsN <sub>2</sub> , IrN <sub>2</sub> , RuN <sub>2</sub> , and RhN <sub>2</sub> . <i>Angewandte Chemie</i> , <b>2007</b> , 119, 1154-1158	3.6	18
35	Proton transport paths in lanthanum phosphate electrolytes. <i>Solid State Ionics</i> , <b>2007</b> , 178, 769-773	3.3	24
34	Synthesis and characterization of mixed-morphology CePO <sub>4</sub> nanoparticles. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 840-846	3.3	29
33	Crystal structures of and displacive transitions in OsN <sub>2</sub> , IrN <sub>2</sub> , RuN <sub>2</sub> , and RhN <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 1136-40	16.4	108
32	Elastic constants and tensile properties of Al <sub>2</sub> O <sub>3</sub> by density functional calculations. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	13
31	First-principles calculations of the effect of Pt on NiAl surface energy and the site preference of Pt. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 011907	3.4	19
30	Elastic stability and electronic structure of pyrite type PtN <sub>2</sub> : A hard semiconductor. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 051913	3.4	111
29	A Power-aware and Range-free Localization Algorithm for Sensor Networks <b>2006</b> ,		2
28	Robust Power-Aware Routing in Wireless Sensor Networks with Special Concern about Localization Error <b>2006</b> ,		3
27	Structure and interface chemistry of perovskite-spinel nanocomposite thin films. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 172902	3.4	118
26	Interstitial oxygen-related defects and current leakage in trench metal-oxide-semiconductor field-effect transistor on epiAs <sub>2</sub> S <sub>3</sub> structure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2006</b> , 24, 1238-1242	2.9	1
25	High temperature nitrogen annealing induced interstitial oxygen precipitation in silicon epitaxial layer on heavily arsenic-doped silicon wafer. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 242112	3.4	7
24	Thermal wetting of platinum nanocrystals on silica surface. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 6940-3	3.4	72



23	Platinum nitride with fluorite structure. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 121913	3.4	86
22	Thermally driven interfacial dynamics of metal/oxide bilayer nanoribbons. <i>Small</i> , <b>2005</b> , 1, 858-65	11	22
21	Family of noble metal nitrides: First principles calculations of the elastic stability. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	74
20	Topology of charge density and elastic anisotropy of Ti <sub>3</sub> SiC <sub>2</sub> polymorphs. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 1180-1185	2.5	27
19	Impacts of Back Surface Conditions on the Behavior of Oxygen in Heavily Arsenic Doped Czochralski Silicon Wafers. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 864, 9181		3
18	Effects of Si and Al on twin boundary energy of TiC. <i>Acta Materialia</i> , <b>2003</b> , 51, 2477-2484	8.4	72
17	Microstructural study on multilayer [FeTaN/TaN] <sub>5</sub> films. <i>Materials Letters</i> , <b>2003</b> , 57, 3904-3909	3.3	6
16	Stacking faults and grain boundaries of Ti <sub>3</sub> SiC <sub>2</sub> . <i>Philosophical Magazine Letters</i> , <b>2003</b> , 83, 325-331	1	21
15	Si-induced twinning of TiC and formation of Ti <sub>3</sub> SiC <sub>2</sub> platelets. <i>Acta Materialia</i> , <b>2002</b> , 50, 4127-4135	8.4	66
14	Microstructural characterization of FeN thin films. <i>Thin Solid Films</i> , <b>2002</b> , 411, 225-228	2.2	14
13	Reversible structural transition in epitaxial manganite film. <i>Physical Review Letters</i> , <b>2002</b> , 88, 196104	7.4	15
12	Effect of W on structural stability of TiAl intermetallics and the site preference of W. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	39
11	The effect of doping Ag on the microstructure of La <sub>2</sub> /3Sr <sub>1</sub> /3MnO <sub>3</sub> films. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 2712-2719	2.5	5
10	Polymorphism of Ti <sub>3</sub> SiC <sub>2</sub> . <i>Journal of Materials Research</i> , <b>2002</b> , 17, 948-950	2.5	32
9	B2 precipitates and distribution of W in a Ti <sub>70</sub> Al <sub>20</sub> W <sub>0.5</sub> Si alloy. <i>Intermetallics</i> , <b>2002</b> , 10, 661-665	3.5	26
8	On the orientation relationship between Ti <sub>5</sub> Si <sub>3</sub> precipitates and B2 phase in a Ti-47Al-2W-0.5Si alloy. <i>Scripta Materialia</i> , <b>2001</b> , 44, 911-916	5.6	22
7	Metal/ceramic interface in an in situ synthesized Ti/TiCP composite coating by laser processing. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 9-12	2.5	5
6	On the orientation relationship between a <sub>2</sub> precipitates and the B2 phase in a Ti-47at.%Al-2at.%W-0.5at.%Si alloy. <i>Philosophical Magazine Letters</i> , <b>2001</b> , 81, 71-76	1	4

5	Orientation relationships and interfaces between NiAl and G-phase Ni <sub>16</sub> Hf <sub>6</sub> Si <sub>7</sub> . <i>Materials Letters</i> , <b>2001</b> , 49, 25-28	3.3	3
4	Orientation relationship and interfacial structure between $\beta$ -Ti <sub>5</sub> Si <sub>3</sub> precipitates and $\beta$ -TiAl intermetallics. <i>Acta Materialia</i> , <b>2000</b> , 48, 3701-3710	8.4	38
3	Comparative first-principles study of elastic constants of covalent and ionic materials with LDA, GGA, and meta-GGA functionals and the prediction of mechanical hardness. <i>Science China Technological Sciences</i> , 1	3.5	0
2	Defect structures of the Cr <sub>2</sub> O <sub>3</sub> (110) surface: effect of electron beam irradiation. <i>Journal of Materials Chemistry C</i> ,	7.1	4
1	Half-Metallic CoO <sub>2</sub> and Semiconducting NiO <sub>2</sub> at High Pressures. <i>Physica Status Solidi (B): Basic Research</i> , 2100233	1.3	