Ping Peng

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#	Paper	IF	Citations
196	Research progress in LiBH4 for hydrogen storage: A review. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14512-14526	6.7	130
195	Novel LoseLGO/MoS2 composites membranes with enhanced permeability for effective salts and dyes rejection at low pressure. <i>Journal of Membrane Science</i> , 2019 , 574, 112-123	9.6	89
194	Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for photocatalytic water splitting. <i>Journal of Chemical Physics</i> , 2014 , 140, 054707	3.9	76
193	Molecular dynamic simulations of nanoindentation in aluminum thin film on silicon substrate. <i>Applied Surface Science</i> , 2010 , 256, 6284-6290	6.7	74
192	Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12972-12979	3.8	71
191	Structural, elastic and electronic properties of [[Al2Cu] and S (Al2CuMg) strengthening precipitates in AlfuMg series alloys: First-principles calculations. <i>Solid State Communications</i> , 2012 , 152, 2100-2104	1.6	70
190	Single-layer Group-IVB nitride halides as promising photocatalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6755	13	69
189	Thermal stability and elastic properties of Mg2X (X = Si, Ge, Sn, Pb) phases from first-principle calculations. <i>Computational Materials Science</i> , 2012 , 51, 409-414	3.2	66
188	Molecular dynamics simulation for cooling rate dependence of solidification microstructures of silver. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 3705-3712	3.9	65
187	Bismuthene from sonoelectrochemistry as a superior anode for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 453-460	13	62
186	Antimony Removal from Aqueous Solution Using Novel MnO2 Nanofibers: Equilibrium, Kinetic, and Density Functional Theory Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2255-2264	8.3	60
185	Arsenic adsorption on EMNO2 nanofibers and the significance of (1 0 0) facet as compared with (1 1 0). <i>Chemical Engineering Journal</i> , 2018 , 331, 492-500	14.7	56
184	Origins of high visible light transparency and solar heat-shielding performance in LaB6. <i>Applied Physics Letters</i> , 2012 , 101, 041913	3.4	55
183	Dual role of monolayer MoS2 in enhanced photocatalytic performance of hybrid MoS2/SnO2 nanocomposite. <i>Journal of Applied Physics</i> , 2016 , 119, 205704	2.5	49
182	Thermal stability and elastic properties of Mg3Sb2 and Mg3Bi2 phases from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2010 , 405, 2863-2868	2.8	45
181	Formation and magic number characteristics of clusters formed during solidification processes. Journal of Physics Condensed Matter, 2007 , 19, 196103	1.8	45
180	Electronic structure and stability of MgIle intermetallic compounds from first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2007 , 428, 316-321	5.7	42

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179	A first-principles study on the structural stability of Al2Ca Al4Ca and Mg2Ca phases. <i>Materials Letters</i> , 2008 , 62, 206-210	3.3	41	
178	First-principles investigation of Mg2Ni phase and high/low temperature Mg2NiH4 complex hydrides. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 32-39	3.9	40	
177	Formation and evolution of metastable bcc phase during solidification of liquid Ag: a molecular dynamics simulation study. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12326-36	2.8	40	
176	First-principles study of alloying effect of Re on properties of Ni/Ni3Al interface. <i>Computational Materials Science</i> , 2006 , 38, 354-361	3.2	39	
175	Effects of nitrogen substitutional doping on the electronic transport of carbon nanotube. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 462-466	3	37	
174	Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. <i>Journal of Alloys and Compounds</i> , 2014 , 597, 269-274	5.7	35	
173	Synergistic effect of Ti and F co-doping on dehydrogenation properties of MgH2 from first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2012 , 538, 205-211	5.7	34	
172	First-principles calculation of dehydrogenating properties of MgH2-V systems. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 129-136		34	
171	Electronic and optical properties of vacancy-doped WS2 monolayers. AIP Advances, 2012, 2, 042141	1.5	33	
170	Mechanical alloying and electronic simulations of 2MgHe mixture powders for hydrogen storage. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 427, 306-315	5.3	33	
169	Band engineering of ZnS by codoping for visible-light photocatalysis. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 741-750	2.6	30	
168	High-temperature corrosion mechanism of YSZ coatings subject to calciumthagnesiumtluminosilicate (CMAS) deposits: First-principles calculations. <i>Corrosion Science</i> , 2017 , 126, 286-294	6.8	30	
167	Freezing structures of free silver nanodroplets: A molecular dynamics simulation study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1667-1671	2.3	30	
166	Enhanced permeability of rGO/S-GO layered membranes with tunable inter-structure for effective rejection of salts and dyes. <i>Separation and Purification Technology</i> , 2019 , 220, 309-319	8.3	29	
165	Electronic Structures and Photocatalytic Responses of SrTiO3(100) Surface Interfaced with Graphene, Reduced Graphene Oxide, and Graphane: Surface Termination Effect. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19095-19104	3.8	29	
164	Molecular dynamics study on microstructural evolution during crystallization of rapidly supercooled zirconium melts. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 654-665	5.7	29	
163	First-principles investigation of the binary intermetallics in MgAlBr alloy: Stability, elastic properties and electronic structure. <i>Computational Materials Science</i> , 2014 , 86, 24-29	3.2	29	
162	Strain effect on structural and dehydrogenation properties of MgH2 hydride from first-principles calculations. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 3661-3669	6.7	28	

161	A comparative study on local atomic configurations characterized by cluster-type-index method and Voronoi polyhedron method. <i>Computational Materials Science</i> , 2016 , 123, 214-223	3.2	28
160	Interfacial bonding mechanism and adhesive transfer of brazed diamond with Ni-based filler alloy: First-principles and experimental perspective. <i>Carbon</i> , 2019 , 153, 104-115	10.4	27
159	First-principles study of the properties of Ni/Ni3Al interface doped with B or P. <i>Materials Science</i> & <i>amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 416, 169-175	5.3	27
158	Dehydrogenation thermodynamics of magnesium hydride doped with transition metals: Experimental and theoretical studies. <i>Computational Materials Science</i> , 2015 , 98, 211-219	3.2	26
157	Electronic properties and photoactivity of monolayer MoS2/fullerene van der Waals heterostructures. <i>RSC Advances</i> , 2016 , 6, 43228-43236	3.7	26
156	Band structure engineering of monolayer MoS2: a charge compensated codoping strategy. <i>RSC Advances</i> , 2015 , 5, 7944-7952	3.7	24
155	On the heredity and evolution of icosahedral clusters during the rapid solidification of liquid Cu50Zr50 alloys. <i>Journal of Non-Crystalline Solids</i> , 2013 , 378, 61-70	3.9	23
154	Electronic structures and optical properties of two-dimensional ScN and YN nanosheets. <i>Journal of Applied Physics</i> , 2014 , 115, 093504	2.5	23
153	Structural stability of intermetallic compounds of Mg-Al-Ca alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2007 , 17, 250-256	3.3	23
152	Enhanced photocatalytic performance of an Ag3PO4 photocatalyst via fullerene modification: first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2878-86	3.6	22
151	Nb solution influencing on phase transformation temperature of Ni47Ti44Nb9 alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 609, 156-161	5.7	22
150	Theoretical analyses of organic acids assisted surface-catalyzed reduction of CrVI on TiO2 nanowire arrays. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 508-515	21.8	21
149	First-principles study on the dehydrogenation properties and mechanism of Al-doped Mg2NiH4. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 5375-5382	6.7	21
148	Enhanced hydrogen storage properties and mechanisms of magnesium hydride modified by transition metal dissolved magnesium oxides. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 21864	1-2:787	3 ²¹
147	Microcosmic mechanism of carbon influencing on NiTiNb9 alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 542, 170-176	5.7	20
146	Effects of nitrogen in Stone-Wales defect on the electronic transport of carbon nanotube. <i>Applied Physics Letters</i> , 2007 , 91, 092121	3.4	20
145	Non-covalent functionalization of WS2 monolayer with small fullerenes: tuning electronic properties and photoactivity. <i>Dalton Transactions</i> , 2016 , 45, 13383-91	4.3	20
144	Stabilization of low-valence transition metal towards advanced catalytic effects on the hydrogen storage performance of magnesium hydride. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 647-657	8.8	20

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143	Tuning near-gap electronic structure, interface charge transfer and visible light response of hybrid doped graphene and Ag3PO4 composite: Dopant effects. <i>Scientific Reports</i> , 2016 , 6, 22267	4.9	19
142	Noncovalent Functionalization of Monolayer MoS2 with Carbon Nanotubes: Tuning Electronic Structure and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21921-21929	3.8	19
141	The short-range order in liquid and A15 crystal of zirconium. <i>Journal of Non-Crystalline Solids</i> , 2019 , 513, 111-119	3.9	18
140	Adsorption and diffusion behaviors of Ni-based filler elements on diamond surface. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153652	5.7	18
139	Hybrid TiO2/graphene derivatives nanocomposites: is functionalized graphene better than pristine graphene for enhanced photocatalytic activity?. <i>Catalysis Science and Technology</i> , 2017 , 7, 1423-1432	5.5	17
138	Correlation of the heredity of icosahedral clusters with the glass forming ability of rapidly solidified CuxZr100 ß alloys. <i>Journal of Non-Crystalline Solids</i> , 2015 , 427, 199-207	3.9	17
137	Magnetic properties of NI-doped ZnS: First-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 377, 239-242	2.8	17
136	Research on the removal mechanism of antimony on <code>BMnO</code> nanorod in aqueous solution: DFT + U method. <i>Journal of Hazardous Materials</i> , 2018 , 354, 8-16	12.8	17
135	First principles study of effect of lattice misfit on the bonding strength of Ni/Ni3Al interface. Journal of Materials Science, 2004 , 39, 3957-3963	4.3	17
134	Near-infrared radiation absorption properties of covellite (CuS) using first-principles calculations. <i>AIP Advances</i> , 2016 , 6, 085122	1.5	17
133	Theory-Driven Heterojunction Photocatalyst Design with Continuously Adjustable Band Gap Materials. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28065-28074	3.8	17
132	Dramatically Enhanced Visible Light Response of Monolayer ZrS via Non-covalent Modification by Double-Ring Tubular B Cluster. <i>Nanoscale Research Letters</i> , 2016 , 11, 495	5	16
131	An interplay of sulfur and phosphorus at the ENi/E-Ni3Al interface. <i>Journal of Alloys and Compounds</i> , 2014 , 597, 243-248	5.7	16
130	Ab initio calculations on energetics and electronic structures of cubic Mg3MNi2 (MI=IAl, Ti, Mn) hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14477-14483	6.7	16
129	Phase stability, elastic properties and electronic structures of MgM intermetallics from first-principles calculations. <i>Journal of Magnesium and Alloys</i> , 2015 , 3, 127-133	8.8	15
128	Formation and evolution of nano-clusters in a large-scale system of Cu Z r alloy during rapid solidification process. <i>Computational Materials Science</i> , 2015 , 98, 1-9	3.2	15
127	Effect of high pressure on the formation and evolution of clusters during the rapid solidification of zirconium melts. <i>Computational Materials Science</i> , 2017 , 140, 275-283	3.2	15
126	Mechanism of surface effect and selective catalytic performance of MnO 2 nanorod: DFT+U study. <i>Applied Surface Science</i> , 2017 , 420, 205-213	6.7	15

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107	The mechanism of enhanced photocatalytic activity of SnO2 through fullerene modification. <i>Current Applied Physics</i> , 2017 , 17, 1547-1556	2.6	11
106	Native vacancy defects in bismuth sulfide. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450150	1.1	10
105	A DFT study on the heredity-induced coalescence of icosahedral basic clusters in the rapid solidification. <i>Computational Materials Science</i> , 2015 , 99, 156-163	3.2	10
104	A first-principles study on electronic structure and elastic properties of Al4Sr, Mg2Sr and Mg23Sr6 phases. <i>Transactions of Nonferrous Metals Society of China</i> , 2011 , 21, 2677-2683	3.3	10
103	The preference of synthesis modes and routes of stable Aln+m (n+m🗓3) clusters. <i>Computational Materials Science</i> , 2009 , 44, 881-887	3.2	10
102	Solar radiation shielding material for windows TiN studied from first-principles theory. <i>Applied Physics Letters</i> , 2011 , 99, 061906	3.4	10
101	Curvature effects on electronic properties of small radius nanotube. <i>Applied Physics Letters</i> , 2007 , 91, 033102	3.4	10
100	First-principles prediction of solar radiation shielding performance for transparent windows of GdB6. <i>Journal of Applied Physics</i> , 2016 , 119, 164903	2.5	10
99	In Situ Tuning of Catalytic Activity by Thermoelectric Effect for Ethylene Oxidation. <i>ACS Catalysis</i> , 2018 , 8, 10164-10172	13.1	10
98	Alkali metal silanides EMSiH3: A family of complex hydrides for solid-state hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12405-12413	6.7	9
97	Impact of correlative defects induced by double Re-addition on the ideal shear strength of PNi3Al phases. <i>Computational Materials Science</i> , 2018 , 152, 408-416	3.2	9
96	Simulation study on non-linear effects of initial melt temperatures on microstructures during solidification process of liquid Mg7Zn3 alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 1052-1060	3.3	9
95	Study on the electronic structure and the optical performance of YB6 by the first-principles calculations. <i>AIP Advances</i> , 2011 , 1, 022140	1.5	9
94	Site preference of Re in NiAl and valence band structure of NiAl containing Re: First-principles study and photoelectron spectrum. <i>Applied Physics Letters</i> , 2009 , 94, 233104	3.4	9
93	Band-Gap Widening of Nitrogen-Doped Cu2O: New Insights from First-Principles Calculations. <i>Science of Advanced Materials</i> , 2014 , 6, 1221-1227	2.3	9
92	FIRSTPRINCIPLES CALCULATIONS OF STRUCTURAL STABILITIES AND ELASTIC PROPERTIES OF AB2 TYPE INTERMETALLICS IN ZA62 MAGNESIUM ALLOY. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2010 , 2010, 97-103		9
91	Structural evolutions and hereditary characteristics of icosahedral nano-clusters formed in MgZn alloys during rapid solidification processes. <i>Scientific Reports</i> , 2017 , 7, 43111	4.9	8
90	Enhancement of the hole-induced d0-ferromagnetism in ZnO through compensated donor complexes: a first-principles study. <i>Semiconductor Science and Technology</i> , 2013 , 28, 035017	1.8	8

89	Optical Characteristics of La-Doped ZnS Thin Films Prepared by Chemical Bath Deposition. <i>Chinese Physics Letters</i> , 2011 , 28, 027806	1.8	8
88	First-principles calculation on the electronic structure and optical properties of laB₆. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2011 , 41, 58-65	1.5	8
87	First-principles investigation on solar radiation shielding performance of rutile VO2 filters for smart windows. <i>Applied Physics Letters</i> , 2016 , 109, 193906	3.4	8
86	Investigation on the electronic structures and optical performances of SiB codoped anatase TiO 2 by first-principles calculation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 1462-1468	2.3	8
85	Infiltration mechanism of Ca-Mg-Al-silicate (CMAS) melt on Yttria stabilized zirconia (YSZ) columnar crystal at high temperature: First-principles research. <i>Applied Surface Science</i> , 2020 , 513, 145712	6.7	7
84	Interfacial Interaction between Boron Cluster and Metal Oxide Surface and Its Effects: A Case Study of B20/Ag3PO4 van der Waals Heterostructure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6151-6158	3.8	7
83	Origin of photocatalytic activity of nitrogen-doped germanium dioxide under visible light from first principles. <i>Materials Science in Semiconductor Processing</i> , 2015 , 31, 517-524	4.3	7
82	Microstructural evolution and martensitic transformation mechanisms during solidification processes of liquid metal Pb. <i>Philosophical Magazine</i> , 2012 , 92, 571-585	1.6	7
81	TUNING THE "d0" FERROMAGNETISM IN In2O3 QUANTUM DOTS BY DANGLING BONDS AND VACANCY BASED ON THE FIRST-PRINCIPLE CALCULATION. <i>Modern Physics Letters B</i> , 2013 , 27, 1350068	3 1.6	7
80	High-temperature oxidation resistance of the Ni60Ti alloy: An experimental and first-principles study. <i>Journal of Alloys and Compounds</i> , 2017 , 706, 297-304	5:7	6
79	Effects of pressure on microstructure evolution and mechanical properties of liquid Ni64Zr36 alloy during rapid solidification: A molecular dynamics simulation study. <i>Computational Materials Science</i> , 2017 , 137, 30-38	3.2	6
78	Derivative effect of laser cladding on interface stability of YSZ@Ni coating on GH4169 alloy: An experimental and theoretical study. <i>Applied Surface Science</i> , 2018 , 427, 1105-1113	6.7	6
77	Effect of cooling rates on clustering towards icosahedra in rapidly solidified Cu56Zr44 alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 533-543	3.3	6
76	Structure stability and configuration evolution of Aln (n=3, 4, 6, 13, 19) clusters. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 385-392		6
75	First-principle investigation of bismuth segregation at B (012) grain-boundaries in nickel. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s813-s819	3.3	6
74	Hydrogen storage properties and mechanisms of as-cast, homogenized and ECAP processed Mg98.5Y1Zn0.5 alloys containing LPSO phase. <i>Energy</i> , 2021 , 217, 119315	7.9	6
73	Cs0.33WO3 as a high-performance transparent solar radiation shielding material for windows. <i>Journal of Applied Physics</i> , 2018 , 124, 193102	2.5	6
72	Dual functions of 2D WS2and MoS2 W S2monolayers coupled with a Ag3PO4photocatalyst. <i>Semiconductor Science and Technology</i> , 2016 , 31, 095013	1.8	5

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71	Strain tuned dehydrogenation thermodynamics of magnesium based hydride: A first principle study. <i>Computational Materials Science</i> , 2015 , 105, 71-74	3.2	5	
70	THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450031	1.1	5	
69	Comparison of valence-band structures of NiAl alloy containing Cr and Ti: Photoelectron spectrum and first-principles calculations. <i>Intermetallics</i> , 2010 , 18, 1062-1066	3.5	5	
68	Configuration evolution of Aln(n=3,4,6,13,19) clusters studied using linear synchronous transit method. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s808-s812	3.3	5	
67	Tuning the near-gap electronic structure of Cu2O by anionEation co-doping for enhanced solar energy conversion. <i>Modern Physics Letters B</i> , 2017 , 31, 1650429	1.6	4	
66	A DFT study on the competition and evolution characteristics between icosahedra and FCC clusters in rapid solidification of liquid Ag. <i>Journal of Molecular Liquids</i> , 2017 , 230, 271-279	6	4	
65	Non-linear effects of initial melt temperatures on microstructures and mechanical properties during quenching process of liquid Cu46Zr54 alloy. <i>Physica B: Condensed Matter</i> , 2015 , 465, 81-88	2.8	4	
64	Structural stability of characteristic interface for NiTi/Nb Nanowire: First-Principle study. <i>Metals and Materials International</i> , 2016 , 22, 69-74	2.4	4	
63	Cohesive mechanism of the FeCr/Ni Interface: A first-principles study. <i>Metals and Materials International</i> , 2016 , 22, 75-80	2.4	4	
62	Local atomic structures of amorphous Pd80Si20 alloys and their configuration heredity in the rapid solidification. <i>Philosophical Magazine</i> , 2018 , 98, 2861-2877	1.6	4	
61	Electronic and optical properties of the H2O adsorbed the B-N-C nanotubes. <i>European Physical Journal B</i> , 2011 , 81, 133-136	1.2	4	
60	Site preference of Ru in NiAl and valence band structure of NiAl containing Ru: First-principles study and photoelectron spectrum. <i>Philosophical Magazine Letters</i> , 2010 , 90, 225-232	1	4	
59	Quantum transport properties of carbon nanotube with topologic defects. <i>EPJ Applied Physics</i> , 2008 , 43, 19-22	1.1	4	
58	Size distributions and magic number characteristics of cluster configurations formed during solidification processes of liquid metal Al. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 172-187		4	
57	Different structural transitions of rapidly supercooled tantalum melt under pressure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18078-18090	3.6	4	
56	Effects of Ce and La elements on interfacial bonding, thermal damage and mechanical performance of brazed diamonds with Ni Cr filler alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 98, 105571	4.1	4	
55	Optical transportation and controllable positioning of nanospheres using a microfiber. <i>AIP Advances</i> , 2015 , 5, 037126	1.5	3	
54	Effects of high pressure on microstructure evolution and crystallization mechanisms during solidification of nickel. <i>Materials Research Express</i> , 2018 , 5, 036507	1.7	3	

53	Evolution Mechanism of Metallic Dioxide MO2 (M = Mn, Ti) from Nanorods to Bulk Crystal: First-Principles Research. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-14	3.2	3
52	Correlation between the chemical short-range order and binding energy of Cu-centred CunZr13日(n = 6,7,8,9) icosahedral clusters in metallic glass. <i>Molecular Simulation</i> , 2018 , 44, 1183-1190	2	3
51	Monolayer Phosphorene-Carbon Nanotube Heterostructures for Photocatalysis: Analysis by Density Functional Theory. <i>Nanoscale Research Letters</i> , 2019 , 14, 233	5	3
50	Band gap engineering by lanthanide doping in the photocatalyst LaOF: First-principles study. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450069	1.1	3
49	First-principles study of electronic, mechanical and optical properties of mixed valence SmB6. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 207, 012084	0.4	3
48	Micromechanism of Cu and Fe alloying process on the martensitic phase transformation of NiTi-based alloys: First-principles calculation. <i>Journal of Structural Chemistry</i> , 2015 , 56, 1051-1057	0.9	3
47	Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. <i>Modern Physics Letters B</i> , 2014 , 28, 1450229	1.6	3
46	Impact of Re-clustering on resistances to dislocation slip mediated plastic deformations in Imatrix phases. <i>Computational Materials Science</i> , 2020 , 172, 109314	3.2	3
45	Cyclic oxidation behavior of NiCoCrAlY/YSZ@Ni composite coatings fabricated by laser cladding. <i>Journal of Iron and Steel Research International</i> , 2020 , 27, 1226-1235	1.2	2
44	Correlation between the chemical order and nature property of Cu-centered Cu-Zr icosahedral clusters. <i>Materials Research Express</i> , 2018 , 5, 046302	1.7	2
43	Predictions of solar radiation shielding properties of KB6 from first principles. <i>Computational Condensed Matter</i> , 2016 , 9, 1-5	1.7	2
42	First-principles investigation of H2O adsorption on a BN co-doped nanotube. <i>Physica Status Solidi</i> (B): Basic Research, 2012 , 249, 69-73	1.3	2
41	A calculation study on the configuration of Al12C clusters. <i>Computational Materials Science</i> , 2009 , 47, 302-307	3.2	2
40	THE EFFECTS OF CO-DOPING OF B AND N ON THE ELECTRONIC TRANSPORT OF SINGLE-WALLED CARBON NANOTUBES. <i>Modern Physics Letters B</i> , 2011 , 25, 1211-1218	1.6	2
39	Competition between TCP and crystalline clusters during phase transition of rapidly super-cooled aluminum. <i>Journal of Non-Crystalline Solids</i> , 2022 , 576, 121271	3.9	2
38	A TS Search for Stable Configurations of Double Icosahedral Agn(n=19, 23, 24, 25) Clusters Linked by Sharing Atoms. <i>Acta Chimica Sinica</i> , 2013 , 71, 1429	3.3	2
37	Identification and tracking of different types of crystalline nucleiduring isothermal crystallization of amorphous Ag. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 076401	0.6	2
36	Electronic structures and optical properties of Ce-doped anatase TiO2 with oxygen vacancy. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 037101	0.6	2

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