Ping Peng

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7362333/ping-peng-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

 196
 3,098
 30
 44

 papers
 citations
 h-index
 g-index

 203
 3,636
 3.8
 5.34

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
196	First-principles investigations of the fracture toughness of NbCr2 alloyed by X (V, Mo, Ti, Fe). <i>Solid State Communications</i> , 2022 , 344, 114664	1.6	
195	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
194	Spinodal limits of supercooled liquid Al deduced from configuration heredity of crystal clusters. <i>Computational Materials Science</i> , 2022 , 207, 111316	3.2	O
193	Cu-induced enhancement of interfacial bonding for brazed diamond grits with Ni Cr filler alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022 , 106, 105874	4.1	O
192	Effect of intrinsic point-defect complex on elastic properties of P-Ni3Al phases. <i>Materials Research Express</i> , 2021 , 8, 066517	1.7	
191	Nanometer effect promoting arsenic removal on \(\text{H}\)MnO nano-surface in aqueous solution: DFT+U research. \(\textit{Environmental Science and Pollution Research, \textbf{2021}, 28, 65899-65910}\)	5.1	
190	Impact of replacement of Re by W on dislocation slip mediated creeps of P-Ni3Al phases. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 2013-2023	3.3	O
189	Theory-guided construction of electron-deficient sites via removal of lattice oxygen for the boosted electrocatalytic synthesis of ammonia. <i>Nano Research</i> , 2021 , 14, 1457-1464	10	2
188	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
187	Micromechanism in fracture toughness of NbCr2 laves phase improved by nickel alloying: first-principles calculation. <i>Journal of Alloys and Compounds</i> , 2021 , 857, 158040	5.7	1
186	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
185	Hydrogen-substituted graphdiyne/graphene as an sp/sp hybridized carbon interlayer for lithium-sulfur batteries. <i>Nanoscale</i> , 2021 , 13, 3817-3826	7.7	12
184	Insight into the surface activity of defect structure in EMnO nanorod: first-principles research. <i>Scientific Reports</i> , 2021 , 11, 4751	4.9	
183	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
182	Doped effect of Gd and Y elements on corrosion resistance of ZrO2 in CMAS melt: First-principles and experimental study. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 7893-7893	6	O
181	Effect of Er dopant on the corrosion resistance of YSZ in CMAS melt: experimental and first-principles study. <i>Journal of Materials Science</i> , 2021 , 56, 17542-17555	4.3	1
180	Effect of Fe doping on structural, elastic and electronic properties of B2\(\mathbb{Z}\)rCu phase under hydrostatic pressure: A first-principles study. <i>Materials Chemistry and Physics</i> , 2021 , 272, 124978	4.4	

(2019-2021)

179	Lowest-energy structural and electronic properties of Cu Zr13[n⊞B10) clusters in metallic glasses via CALYPSO search and density functional theory calculations. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117603	6	О	
178	Cyclic oxidation behavior of NiCoCrAlY/YSZ@Ni composite coatings fabricated by laser cladding. Journal of Iron and Steel Research International, 2020 , 27, 1226-1235	1.2	2	
177	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	
176	Nearly golden-ratio order in Ta metallic glass. <i>Chinese Physics B</i> , 2020 , 29, 046105	1.2	1	
175	First-principles investigation on electronic structure and solar radiation shielding performance of Tl0.33WO3. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 047102	0.6		
174	Bismuthene from sonoelectrochemistry as a superior anode for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 453-460	13	62	
173	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	
172	Different structural transitions of rapidly supercooled tantalum melt under pressure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18078-18090	3.6	4	
171	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	
170	Atomic structure insight into crystallization of undercooled liquid metal Zr during isothermal relaxation processes. <i>Philosophical Magazine</i> , 2019 , 99, 2904-2919	1.6	1	
169	A synergistic reinforcement of Re and W for ideal shear strengths of E-Ni3Al phases. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 131, 34-43	3.9	11	
168	Wetting mechanism of CMAS melt on YSZ surface at high temperature: First-principles calculation. <i>Applied Surface Science</i> , 2019 , 483, 811-818	6.7	13	
167	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	
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	Copper-Catalyzed Oxidative C(sp3)时/N时 Cross-Coupling of Hydrocarbons with P(O)时H Compounds: the Accelerating Effect Induced by Carboxylic Acid Coproduct. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 1689-1696	5.6	1	
164	Monolayer Phosphorene-Carbon Nanotube Heterostructures for Photocatalysis: Analysis by Density Functional Theory. <i>Nanoscale Research Letters</i> , 2019 , 14, 233	5	3	
163	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	
162	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	

161	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
160	Predictions of electronic structures and optical performance of potential near infrared absorber Sn0.33WO3. <i>AIP Advances</i> , 2019 , 9, 115014	1.5	O
159	Study on the surface activity of t-YSZ nanomaterials by first-principles calculation. <i>Applied Surface Science</i> , 2019 , 471, 1072-1082	6.7	2
158	Novel LiboseLGO/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
157	Reduced Graphene Oxide B efined Cu Matrix Composites: An Experimental and First-Principles Study. <i>Crystal Research and Technology</i> , 2019 , 54, 1800191	1.3	О
156	Insights Into Interfacial Interaction and Its Influence on the Electronic and Optical Properties of Two-Dimensional WS2/TX2CO2 (TX = Ti, Zr) van der Waals Heterostructures. <i>Physica Status Solidi</i> (B): Basic Research, 2019 , 256, 1800377	1.3	1
155	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
154	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
153	Research on the removal mechanism of antimony on \(\frac{1}{2}\)MnO nanorod in aqueous solution: DFT + U method. \(Journal of Hazardous Materials, \)2018, 354, 8-16	12.8	17
152	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
151	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
150	Arsenic adsorption on EMnO2 nanofibers and the significance of (1 0 0) facet as compared with (1 1 0). Chemical Engineering Journal, 2018, 331, 492-500	14.7	56
149	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
148	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
147	Mechanism of crack nucleation and growth in YSZ thermal barrier coatings corroded by CMAS at high temperatures: First-principles calculation. <i>Corrosion Science</i> , 2018 , 142, 258-265	6.8	14
146	Simultaneous dispersive and covalent monolayer MoS2/TiO2 cluster heterostructures: Insights into their enhanced photocatalytic activity. <i>Superlattices and Microstructures</i> , 2018 , 121, 64-74	2.8	
145	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
144	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

143	Interfacial Interactions in Monolayer and Few-Layer SnS/CH NH PbI Perovskite van der Waals Heterostructures and Their Effects on Electronic and Optical Properties. <i>ChemPhysChem</i> , 2018 , 19, 291	-299	12
142	Effect of P-Doping on the Rupture Strength of ENi/@Ni3Al Interfaces. <i>IOP Conference Series:</i> Materials Science and Engineering, 2018 , 381, 012161	0.4	2
141	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
140	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
139	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	4- 2 787	3 ²¹
138	Study of Processability of Cu/Ni Bilayers Using Molecular Dynamics Simulations. <i>Journal of Nano Research</i> , 2018 , 52, 43-53	1	1
137	Evolution of local atomic structures during rapid solidification of liquid metal W. <i>Modern Physics Letters B</i> , 2018 , 32, 1850368	1.6	2
136	In Situ Tuning of Catalytic Activity by Thermoelectric Effect for Ethylene Oxidation. <i>ACS Catalysis</i> , 2018 , 8, 10164-10172	13.1	10
135	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
134	Electronic and optical properties of Cr-, B-doped, and (Cr, B)-codoped SrTiO3. <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750064	1.1	1
133	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
132	Simultaneous covalent and noncovalent carbon nanotube/AgPO hybrids: new insights into the origin of enhanced visible light photocatalytic performance. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7955-7963	3.6	11
131	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
130	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
129	Antimony Removal from Aqueous Solution Using Novel HMnO2 Nanofibers: Equilibrium, Kinetic, and Density Functional Theory Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2255-2264	8.3	60
128	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
127	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
126	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

125	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
124	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
123	High-temperature corrosion mechanism of YSZ coatings subject to calciumhagnesiumBluminosilicate (CMAS) deposits: First-principles calculations. <i>Corrosion Science</i> , 2017 , 126, 286-294	6.8	30
122	The mechanism of enhanced photocatalytic activity of SnO2 through fullerene modification. <i>Current Applied Physics</i> , 2017 , 17, 1547-1556	2.6	11
121	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
120	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
119	Enhanced hydrogen diffusion in magnesium based hydride induced by strain and doping from first principle study. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 687-693	5.7	14
118	Dual functions of 2D WS2and MoS2WS2monolayers coupled with a Ag3PO4photocatalyst. <i>Semiconductor Science and Technology</i> , 2016 , 31, 095013	1.8	5
117	Predictions of solar radiation shielding properties of KB6 from first principles. <i>Computational Condensed Matter</i> , 2016 , 9, 1-5	1.7	2
116	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
115	Effective interactions and atomic ordering in Ni-rich Ni-Re alloys. <i>Physical Review B</i> , 2016 , 94,	3.3	13
114	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
113	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
112	Crystallization characteristics in supercooled liquid zinc during isothermal relaxation: A molecular dynamics simulation study. <i>Scientific Reports</i> , 2016 , 6, 31653	4.9	13
111	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
110	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
109	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
108	Cohesive mechanism of the FeCr/Ni Interface: A first-principles study. <i>Metals and Materials International</i> , 2016 , 22, 75-80	2.4	4

(2015-2016)

107	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	
106	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	
105	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	
104	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	
103	Near-infrared radiation absorption properties of covellite (CuS) using first-principles calculations. <i>AIP Advances</i> , 2016 , 6, 085122	1.5	17	
102	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	
101	Solar radiation shielding properties of transparent LaB6 filters through experimental and first-principles calculation methods. <i>Ceramics International</i> , 2016 , 42, 14278-14281	5.1	13	
100	Electronic properties and photoactivity of monolayer MoS2/fullerene van der Waals heterostructures. <i>RSC Advances</i> , 2016 , 6, 43228-43236	3.7	26	
99	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	
98	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	
97	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	
96	Enhancement of transport properties introduced complex defect in (6, 3) carbon nanotubes. <i>Modern Physics Letters B</i> , 2015 , 29, 1550031	1.6		
95	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	
94	Optical transportation and controllable positioning of nanospheres using a microfiber. <i>AIP Advances</i> , 2015 , 5, 037126	1.5	3	
93	Correlation of the heredity of icosahedral clusters with the glass forming ability of rapidly solidified CuxZr100 Ik alloys. <i>Journal of Non-Crystalline Solids</i> , 2015 , 427, 199-207	3.9	17	
92	Band structure engineering of monolayer MoS2: a charge compensated codoping strategy. <i>RSC Advances</i> , 2015 , 5, 7944-7952	3.7	24	
91	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	
90	Magnetic properties of NI-doped ZnS: First-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 377, 239-242	2.8	17	

Formation and evolution of nano-clusters in a large-scale system of Culir alloy during rapid solidification process. Computational Materials Science, 2015, 98, 1-9 Strain tuned dehydrogenation thermodynamics of magnesium based hydride: A first principle study. Computational Materials Science, 2015, 105, 71-74 Micromechanism of Cu and Fe alloying process on the martensitic phase transformation of NITi-based alloys: First-principles calculation. Journal of Structural Chemistry, 2015, 56, 1051-1057				
study. Computational Materials Science, 2015, 105, 71-74 Micromechanism of Cu and Fe alloying process on the martensitic phase transformation of NITi-based alloys: First-principles calculation. Journal of Structural Chemistry, 2015, 56, 1051-1057 Beffects of S/Ce-codoping on electronic structures and optical properties of anatase TiO2 from density functional theory calculations. Modern Physics Letters 8, 2015, 29, 1550249 Beffect of cooling rates on clustering towards icosahedra in rapidly solidified Cu56Zr44 alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 533-543 A DFT study on the heredity-induced coalescence of icosahedral basic clusters in the rapid solidification. Computational Materials Science, 2015, 99, 156-163 ADFT study on the heredity-induced coalescence of icosahedral basic clusters in the rapid solidification. Computational Materials Science, 2015, 99, 156-163 Band engineering of Zn5 by codoping for visible-light photocatalysis. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750 Band agap engineering by lanthanide doping in the photocatalysts. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750 Band gap engineering by lanthanide doping in the photocatalysts. Journal of Materials Chemistry A. 2014, 2, 6755 Mative vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 11 Mative vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 11 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3P04/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3P04/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3P04/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 Mech	89		3.2	15
86 Effects of S/Ce-codoping on electronic structures and optical properties of anatase TiO2 from density functional theory calculations. <i>Modern Physics Letters B</i> , 2015, 29, 1550249 86 Effect of cooling rates on clustering towards icosahedra in rapidly solidified Cu56Zr44 alloy. 87 Transactions of Nonferrous Metals Society of China, 2015, 25, 533-533 88 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 89 ADET study on the heredity-induced coalescence of icosahedral basic clusters in the rapid solidification. <i>Computational Materials Science</i> , 2015, 99, 156-163 80 Band engineering of ZnS by codoping for visible-light photocatalysis. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 741-750 81 Band gap engineering by lanthanide doping in the photocatalysts. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 741-750 82 Single-layer Group-IVB nitride halides as promising photocatalysts. <i>Journal of Materials Chemistry A</i> , 13 69 83 Single-layer Group-IVB nitride halides as promising photocatalysts. <i>Journal of Materials Chemistry A</i> , 13 69 84 Native vacancy defects in bismuth sulfide. <i>International Journal of Modern Physics B</i> , 2014, 28, 1450150 85 An interplay of sulfur and phosphorus at the BN/B-NI3Al interface. <i>Journal of Alloys and Compounds</i> , 2014, 597, 243-248 86 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 87 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 88 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 89 Mechanism of Superior Visible-Light Photocatalytic Act	88		3.2	5
Effect of cooling rates on clustering towards icosahedra in rapidly solidified Cu56Zr44 alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 533-543 84 Origin of photocatalytic activity of nitrogen-doped germanium dioxide under visible light from first principles. Materials Science in Semiconductor Processing, 2015, 31, 517-524 85 A DFT study on the heredity-induced coalescence of icosahedral basic clusters in the rapid solidification. Computational Materials Science, 2015, 99, 156-163 86 Band engineering of ZnS by codoping for visible-light photocatalysis. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750 87 Band gap engineering by lanthanide doping in the photocatalyst. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750 88 Single-layer Group-IVB nitride halides as promising photocatalysts. Journal of Materials Chemistry A, 2014, 2, 6755 89 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 70 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 71 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 71 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 72 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 73 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Modern Physics B, 2014, 28, 1450031 74 FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 75 Megative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Le	87		0.9	3
77 Transactions of Nonferrous Metals Society of China, 2015, 25, 533-543 33 6 84 Origin of photocatalytic activity of nitrogen-doped germanium dioxide under visible light from first principles. Materials Science in Semiconductor Processing, 2015, 31, 517-524 85 A DFT study on the heredity-induced coalescence of icosahedral basic clusters in the rapid solidification. Computational Materials Science, 2015, 99, 156-163 86 Band engineering of ZnS by codoping for visible-light photocatalysis. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750 87 Band gap engineering by lanthanide doping in the photocatalyst LaOF: First-principles study. International Journal of Modern Physics B, 2014, 28, 1450069 88 Single-layer Group-IVB nitride halides as promising photocatalysts. Journal of Materials Chemistry A, 2014, 2, 6755 89 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 1.1 10 70 An interplay of sulfur and phosphorus at the ENI/B-Ni3Al interface. Journal of Alloys and Compounds, 2014, 597, 243-248 71 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 30 13 71 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid AgaPo4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 31 31 32 37 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39	86		1.6	1
ADFT study on the heredity-induced coalescence of icosahedral basic clusters in the rapid solidification. Computational Materials Science, 2015, 99, 156-163 Band engineering of ZnS by codoping for visible-light photocatalysis. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750 Band gap engineering by lanthanide doping in the photocatalyst LaOF: First-principles study. International Journal of Modern Physics B, 2014, 28, 1450069 Single-layer Group-IVB nitride halides as promising photocatalysts. Journal of Materials Chemistry A, 2014, 2, 6755 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 1.1 10 An interplay of sulfur and phosphorus at the INI/E-Ni3Al interface. Journal of Alloys and Compounds, 2014, 597, 243-248 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450029 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	85		3.3	6
83 solidification. Computation of Materials Science, 2015, 99, 156-163 84 Band engineering of ZnS by codoping for visible-light photocatalysis. Applied Physics A: Materials Science and Processing, 2014, 116, 741-750 85 Band gap engineering by lanthanide doping in the photocatalyst LaOF: First-principles study. International Journal of Modern Physics B, 2014, 28, 1450069 86 Single-layer Group-IVB nitride halides as promising photocatalysts. Journal of Materials Chemistry A, 2014, 2, 6755 87 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 88 An interplay of sulfur and phosphorus at the BNi/E-Ni3Al interface. Journal of Alloys and Compounds, 2014, 597, 243-248 89 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 80 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 81 Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 82 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 83 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450029 84 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	84		4.3	7
Band gap engineering by lanthanide doping in the photocatalyst LaOF: First-principles study. International Journal of Modern Physics B, 2014, 28, 1450069 Single-layer Group-IVB nitride halides as promising photocatalysts. Journal of Materials Chemistry A, 2014, 2, 6755 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 An interplay of sulfur and phosphorus at the thi/the Ni3Al interface. Journal of Alloys and Compounds, 2014, 597, 243-248 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 Methanism of Superior Of Physical Chemistry C, 2014, 118, 12972-12979 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTIO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 The Segative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	83		3.2	10
80 Single-layer Group-IVB nitride halides as promising photocatalysts. Journal of Materials Chemistry A, 2014, 2, 6755 79 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 1.1 10 78 An interplay of sulfur and phosphorus at the ENI/E-Ni3Al interface. Journal of Alloys and Compounds, 2014, 597, 243-248 77 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 78 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 78 Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 78 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 79 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450029 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	82		2.6	30
Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 1.1 10 Native vacancy defects in bismuth sulfide. International Journal of Modern Physics B, 2014, 28, 1450150 1.1 10 An interplay of sulfur and phosphorus at the ENi/E-Ni3Al interface. Journal of Alloys and Compounds, 2014, 597, 243-248 5.7 16 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 3.9 13 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 3.8 71 Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 5.7 35 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 1.1 5 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 1.6 3 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	81		1.1	3
An interplay of sulfur and phosphorus at the ENi/E-Ni3Al interface. Journal of Alloys and Compounds, 2014, 597, 243-248 The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 3.9 13 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 3.8 71 Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	80		13	69
The effect of cooling rates on hereditary characteristics of icosahedral clusters in rapid solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	79	Native vacancy defects in bismuth sulfide. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450150	1.1	10
solidification of liquid Cu56Zr44 alloys. Journal of Non-Crystalline Solids, 2014, 388, 75-85 Mechanism of Superior Visible-Light Photocatalytic Activity and Stability of Hybrid Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	78		5.7	16
Ag3PO4/Graphene Nanocomposite. Journal of Physical Chemistry C, 2014, 118, 12972-12979 3.8 71 Influence of icosahedral order on the second peak splitting of pair distribution function for Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 5.7 35 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	77		3.9	13
75 Mg70Zn30 metallic glass. Journal of Alloys and Compounds, 2014, 597, 269-274 THE ELECTRONIC AND OPTICAL PROPERTIES OF X-DOPED SrTiO3 (X = Rh, Pd, Ag): A FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	76		3.8	71
74 FIRST-PRINCIPLES CALCULATIONS. International Journal of Modern Physics B, 2014, 28, 1450031 Negative differential resistance induced by SiNx co-dopant in armchair graphene nanoribbon. Modern Physics Letters B, 2014, 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	75		5.7	35
Modern Physics Letters B, 2014 , 28, 1450229 Diverse and tunable electronic structures of single-layer metal phosphorus trichalcogenides for	74		1.1	5
	73		1.6	3
	72		3.9	76
	/2	photocatalytic water splitting. <i>Journal of Chemical Physics</i> , 2014 , 140, 054707	3.9	70

71	Electronic structures and optical properties of two-dimensional ScN and YN nanosheets. <i>Journal of Applied Physics</i> , 2014 , 115, 093504	2.5	23	
70	Influence of Pre-Deformation Temperature on Mechanics Performance of NiTiNb Shape Memory Alloy: First-Principles Calculation. <i>Advanced Materials Research</i> , 2014 , 1004-1005, 163-167	0.5		
69	Nb solution influencing on phase transformation temperature of Ni47Ti44Nb9 alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 609, 156-161	5.7	22	
68	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	
67	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	
66	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	
65	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	
64	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	
63	Enhancement of the hole-induced d0-ferromagnetism in ZnO through compensated donor acceptor complexes: a first-principles study. <i>Semiconductor Science and Technology</i> , 2013 , 28, 035017	1.8	8	
62	Rectifying behaviors introduced by nitrogen-vacancy complex in spiral chirality single walled carbon nanotube device. <i>Journal of Applied Physics</i> , 2013 , 114, 083711	2.5	1	
61	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	
60	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	
59	Kinetic details of crystallization in supercooled liquid Pb during the isothermal relaxation. <i>Physica B: Condensed Matter</i> , 2012 , 407, 240-245	2.8	12	
58	Microcosmic mechanism of carbon influencing on NiTiNb9 alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 542, 170-176	5.7	20	
57	Origins of high visible light transparency and solar heat-shielding performance in LaB6. <i>Applied Physics Letters</i> , 2012 , 101, 041913	3.4	55	
56	Microstructural evolution and martensitic transformation mechanisms during solidification processes of liquid metal Pb. <i>Philosophical Magazine</i> , 2012 , 92, 571-585	1.6	7	
55	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	
54	The correlation between Re and P and their synergetic effect on the rupture strength of the ENi/B-Ni3Al interface. <i>Computational Materials Science</i> , 2012 , 63, 292-302	3.2	15	

Site preference of Ru in NiAl and valence band structure of NiAl containing Ru: First-principles

Valence band structure of the NiAlMo alloy from the photoelectron spectrum. Philosophical

study and photoelectron spectrum. Philosophical Magazine Letters, 2010, 90, 225-232

1

4

Magazine Letters, **2010**, 90, 299-311

37

36

(2007-2010)

35	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	
34	Molecular dynamic simulations of nanoindentation in aluminum thin film on silicon substrate. <i>Applied Surface Science</i> , 2010 , 256, 6284-6290	6.7	74	
33	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	
32	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	
31	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	
30	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	
29	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	
28	The preference of synthesis modes and routes of stable Aln+m (n+m113) clusters. <i>Computational Materials Science</i> , 2009 , 44, 881-887	3.2	10	
27	A calculation study on the configuration of Al12C clusters. <i>Computational Materials Science</i> , 2009 , 47, 302-307	3.2	2	
26	Simulation study of size distributions and magic number sequences of clusters during the solidification process in liquid metal Na. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 541-547	3.9	12	
25	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	
24	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	
23	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	
22	Quantum transport properties of carbon nanotube with topologic defects. <i>EPJ Applied Physics</i> , 2008 , 43, 19-22	1.1	4	
21	Study on H atoms diffusion and adsorption properties of MgH2-V systems. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 979-988		1	
20	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	
19	First-principles investigation of Mg2THy (T=Ni, Co, Fe) complex hydrides. <i>Physica B: Condensed Matter</i> , 2008 , 403, 4217-4223	2.8	13	
18	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	

17	Curvature effects on electronic properties of small radius nanotube. <i>Applied Physics Letters</i> , 2007 , 91, 033102	3.4	10
16	Formation and magic number characteristics of clusters formed during solidification processes. Journal of Physics Condensed Matter, 2007, 19, 196103	1.8	45
15	Electronic structure and stability of Mgte intermetallic compounds from first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2007 , 428, 316-321	5.7	42
14	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
13	First-principles calculation of dehydrogenating properties of MgH2-V systems. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 129-136		34
12	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
11	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
10	First-principles study on structural stability of 3d transition metal alloying magnesium hydride. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, 23-32	3.3	12
9	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
8	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
7	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
6	First-principles study of the properties of Ni/Ni3Al interface doped with B or P. <i>Materials Science</i> & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 416, 169-175	5.3	27
5	Mechanical alloying and electronic simulations of 2MgHe mixture powders for hydrogen storage. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 427, 306-315	5.3	33
4	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
3	The high-temperature properties of microstructure transitions in liquid metal Al. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999 , 57, 214-217	3.1	12
2	A method for estimating total effective conducting electron numbers of amorphous TM-M alloys with high metalloid content. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1996 , 41, 258-260	3.1	1
1	Filings Morphology-Dependent Hydrogen Storage Properties of Magnesium-Rich MgMan Alloy. Transactions of the Indian Institute of Metals,1	1.2	1