

Bin Wen

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146
papers

5,162
citations

34
h-index

67
g-index

150
ext. papers

6,018
ext. citations

5.7
avg, IF

5.62
L-index

#	Paper	IF	Citations
146	A promising new class of high-temperature alloys: eutectic high-entropy alloys. <i>Scientific Reports</i> , 2014 , 4, 6200	4.9	604
145	Ultrahard nanotwinned cubic boron nitride. <i>Nature</i> , 2013 , 493, 385-8	50.4	519
144	Nanotwinned diamond with unprecedented hardness and stability. <i>Nature</i> , 2014 , 510, 250-3	50.4	440
143	Novel superhard carbon: C-centered orthorhombic C8. <i>Physical Review Letters</i> , 2011 , 107, 215502	7.4	198
142	Comparative study of hydrogen adsorption on carbon and BN nanotubes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13363-9	3.4	149
141	Novel Bimorphological Anisotropic Bulk Nanocomposite Materials with High Energy Products. <i>Advanced Materials</i> , 2017 , 29, 1606430	24	141
140	Controllably Manipulating Three-Dimensional Hybrid Nanostructures for Bulk Nanocomposites with Large Energy Products. <i>Nano Letters</i> , 2017 , 17, 2985-2993	11.5	126
139	First-principles studies of AlNi intermetallic compounds. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2664-2669	3.3	118
138	Relative importance of grain boundaries and size effects in thermal conductivity of nanocrystalline materials. <i>Scientific Reports</i> , 2014 , 4, 7037	4.9	109
137	Temperature dependent elastic constants and ultimate strength of graphene and graphyne. <i>Journal of Chemical Physics</i> , 2012 , 137, 194901	3.9	76
136	All-in-one improvement toward Li6PS5Br-Based solid electrolytes triggered by compositional tune. <i>Journal of Power Sources</i> , 2019 , 410-411, 162-170	8.9	76
135	Topological Dirac nodal-net fermions in AlB2-type TiB2 and ZrB2. <i>Physical Review Materials</i> , 2018 , 2,	3.2	74
134	Compressed carbon nanotubes: a family of new multifunctional carbon allotropes. <i>Scientific Reports</i> , 2013 , 3, 1331	4.9	73
133	Body-centered tetragonal B2N2: a novel sp3 bonding boron nitride polymorph. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14565-70	3.6	65
132	Engineering Bulk, Layered, Multicomponent Nanostructures with High Energy Density. <i>Small</i> , 2018 , 14, e1800619	11	64
131	High-pressure synthesis of phonon-glass electron-crystal featured thermoelectric Li _x Co ₄ Sb ₁₂ . <i>Acta Materialia</i> , 2012 , 60, 1246-1251	8.4	61
130	Ternary BiVO ₄ /NiS/Au nanocomposites with efficient charge separations for enhanced visible light photocatalytic performance. <i>Chemical Engineering Journal</i> , 2019 , 375, 122093	14.7	59

129	Phase stability, elastic and electronic properties of CuZr binary system intermetallic compounds: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 96-102	5.7	55
128	First-principles studies on structural, mechanical, thermodynamic and electronic properties of NiZr intermetallic compounds. <i>Intermetallics</i> , 2014 , 54, 110-119	3.5	55
127	Potential high-Tc superconductivity in CaYH ₁₂ under pressure. <i>Physical Review B</i> , 2019 , 99,	3.3	53
126	First-principles studies of diamond polytypes. <i>Diamond and Related Materials</i> , 2008 , 17, 356-364	3.5	53
125	Body-Centered Tetragonal C : A Novel Topological Node-Line Semimetallic Carbon Composed of Tetrarings. <i>Small</i> , 2017 , 13, 1602894	11	49
124	First-principle studies of CaX (X=Si,Ge,Sn,Pb) intermetallic compounds. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 136-143	3.3	47
123	Stability and dissolution of helium-vacancy complexes in vanadium solid. <i>Journal of Nuclear Materials</i> , 2011 , 419, 1-8	3.3	45
122	Nanoarchitected materials composed of fullerene-like spheroids and disordered graphene layers with tunable mechanical properties. <i>Nature Communications</i> , 2015 , 6, 6212	17.4	43
121	Synthesis of cubic Na ₃ SbS ₄ solid electrolyte with enhanced ion transport for all-solid-state sodium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 259, 100-109	6.7	42
120	First principles molecular dynamics study of CdS nanostructure temperature-dependent phase stability. <i>Applied Physics Letters</i> , 2008 , 92, 261911	3.4	41
119	An analytical model for stress-induced grain growth in the presence of both second-phase particles and solute segregation at grain boundaries. <i>Acta Materialia</i> , 2015 , 82, 304-315	8.4	40
118	First-principle studies of AlRu intermetallic compounds. <i>Intermetallics</i> , 2008 , 16, 333-339	3.5	40
117	Ultrahigh hardness on a face-centered cubic metal. <i>Applied Surface Science</i> , 2017 , 416, 891-900	6.7	38
116	Two-photon fluorescent microporous bithiophene polymer via Suzuki cross-coupling. <i>Chemical Communications</i> , 2012 , 48, 9519-21	5.8	38
115	Temperature dependent elastic constants for crystals with arbitrary symmetry: Combined first principles and continuum elasticity theory. <i>Journal of Applied Physics</i> , 2012 , 111, 083525	2.5	37
114	Ab initio molecular dynamics simulation of binary Cu ₆₄ Zr ₃₆ bulk metallic glass: Validation of the cluster-plus-glass-atom model. <i>Journal of Applied Physics</i> , 2011 , 109, 123520	2.5	37
113	Stability and migration property of helium and self defects in vanadium and V-Cr-Ti alloy by first-principles. <i>Journal of Nuclear Materials</i> , 2011 , 413, 90-94	3.3	34
112	Geometry and temperature dependent thermal conductivity of diamond nanowires: A non-equilibrium molecular dynamics study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 43, 155-160	3	34

111	Trapping of multiple hydrogen atoms in a vanadium monovacancy: A first-principles study. <i>Journal of Nuclear Materials</i> , 2012 , 429, 216-220	3.3	32
110	First-principle study of the structural, electronic, and magnetic properties of amorphous FeB alloys. <i>Physica B: Condensed Matter</i> , 2012 , 407, 250-257	2.8	31
109	Effect of doping MnO ₂ on magnetic properties for M-type barium ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 507-511	2.8	31
108	Reduced Li diffusion barriers in composite BC ₃ nanotubes. <i>Chemical Physics Letters</i> , 2005 , 415, 323-326	2.5	31
107	A Discrete Slab Absorber: Absorption Efficiency and Theory Analysis. <i>Journal of Composite Materials</i> , 2006 , 40, 1841-1851	2.7	30
106	Polymorph-Dependent Electrogenerated Chemiluminescence of Low-Dimensional Organic Semiconductor Structures for Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8891-8899	9.5	29
105	Novel three dimensional topological nodal line semimetallic carbon. <i>Carbon</i> , 2016 , 98, 468-473	10.4	29
104	Molecular dynamics study on diamond nanowires mechanical properties: Strain rate, temperature and size dependent effects. <i>Diamond and Related Materials</i> , 2011 , 20, 551-555	3.5	29
103	A novel approach to fabricating a nanotwinned surface on a ternary nickel alloy. <i>Materials and Design</i> , 2016 , 106, 313-320	8.1	29
102	Three Dimensional Metallic Carbon from Distorting sp ³ -Bond. <i>Crystal Growth and Design</i> , 2016 , 16, 1360-1365	3.65	28
101	Regulating Polymerization in Graphitic Carbon Nitride To Improve Photocatalytic Activity. <i>Chemistry of Materials</i> , 2019 , 31, 9188-9199	9.6	28
100	Determining characteristic principal clusters in the "cluster-plus-glue-atom" model. <i>Acta Materialia</i> , 2014 , 75, 113-121	8.4	28
99	Preparation and electrochemical properties of nitrogen-doped multi-walled carbon nanotubes. <i>Materials Letters</i> , 2011 , 65, 49-52	3.3	28
98	Monoclinic C16: sp-sp hybridized nodal-line semimetal protected by PT-symmetry. <i>Carbon</i> , 2018 , 127, 527-532	10.4	28
97	Temperature-dependent mechanical properties of alpha-/beta-Nb ₅ Si ₃ phases from first-principles calculations. <i>Intermetallics</i> , 2014 , 46, 72-79	3.5	26
96	Retention and diffusion of H, He, O, C impurities in Be. <i>Journal of Nuclear Materials</i> , 2012 , 423, 164-169	3.3	26
95	Composition-structure-property correlations of complex metallic alloys described by the "cluster-plus-glue-atom" model. <i>Applied Materials Today</i> , 2017 , 7, 13-46	6.6	24
94	Dislocation behaviors in nanotwinned diamond. <i>Science Advances</i> , 2018 , 4, eaat8195	14.3	24

93	Solvent engineering for high conversion yields of layered raw materials into large-scale freestanding hybrid perovskite nanowires. <i>Nanoscale</i> , 2018 , 10, 17722-17729	7.7	23
92	First-principles studies of NiTiAl intermetallic compounds. <i>Journal of Solid State Chemistry</i> , 2012 , 187, 211-218	3.3	23
91	Theoretical exploration of laser-parameter effects on the generation of an isolated attosecond pulse from two-color high-order harmonic generation. <i>Physical Review A</i> , 2010 , 82,	2.6	23
90	Electromagnetic wave absorption properties of carbon powder from catalysed carbon black in X and Ku bands. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 1960-1962	3	23
89	Ab initio molecular dynamics simulation of binary Ni _{62.5} Nb _{37.5} bulk metallic glass: validation of the cluster-plus-glass-atom model. <i>Journal of Materials Science</i> , 2012 , 47, 7628-7634	4.3	22
88	Relative stability of nanosized wurtzite and graphitic ZnO from density functional theory. <i>Chemical Physics Letters</i> , 2008 , 466, 84-87	2.5	22
87	First-principles study of hydrogen behavior in VCrTi alloys. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 1735-1739	1.2	21
86	Relative stability of hydrogenated nanodiamond and nanographite from density function theory. <i>Chemical Physics Letters</i> , 2007 , 441, 318-321	2.5	21
85	In situ synthesis of 2D ultrathin cobalt doped g-C ₃ N ₄ nanosheets enhances photocatalytic performance by accelerating charge transfer. <i>Journal of Alloys and Compounds</i> , 2021 , 859, 157754	5.7	21
84	Epitaxial growth of dual-color-emitting organic heterostructures via binary solvent synergism driven sequential crystallization. <i>Nanoscale</i> , 2019 , 11, 7111-7116	7.7	20
83	n-diamond: an intermediate state between rhombohedral graphite and diamond?. <i>New Journal of Physics</i> , 2006 , 8, 62-62	2.9	20
82	Weak phonon scattering effect of twin boundaries on thermal transmission. <i>Scientific Reports</i> , 2016 , 6, 19575	4.9	20
81	Cluster characteristics and physical properties of binary Al ₂ Zr intermetallic compounds from first principles studies. <i>Computational Materials Science</i> , 2015 , 103, 170-178	3.2	19
80	Stress-Induced Grain Growth in an Ultra-Fine Grained Al Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2673-2688	2.3	19
79	Role of plastic deformation in tailoring ultrafine microstructure in nanotwinned diamond for enhanced hardness. <i>Science China Materials</i> , 2017 , 60, 178-185	7.1	18
78	Phase transformation of cadmium sulfide under high temperature and high pressure conditions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14899-904	3.6	17
77	Temperature and pressure dependent geometry optimization and elastic constant calculations for arbitrary symmetry crystals: Applications to MgSiO ₃ perovskites. <i>Journal of Applied Physics</i> , 2013 , 113, 103501	2.5	17
76	Continuous strengthening in nanotwinned diamond. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	17

75	Synthesis and photocatalytic activity of N-doped TiO ₂ produced in a solid phase reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 286-290	3.9	16
74	Lowest-energy endohedral fullerene structure of Si ₆₀ from a genetic algorithm and density-functional theory. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 226208	1.8	16
73	Preparation of diamond nanocrystals from catalysed carbon black in a high magnetic field. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 8049-8054	1.8	16
72	Discovery of carbon-based strongest and hardest amorphous material.. <i>National Science Review</i> , 2022 , 9, nwab140	10.8	16
71	Stress-Induced Grain Growth in an Ultra-Fine Grained Al Alloy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 795-810	2.5	15
70	Mechanical and electronic properties of ultrathin nanodiamonds under uniaxial compressions. <i>Diamond and Related Materials</i> , 2010 , 19, 21-25	3.5	15
69	Geometry dependent current-voltage characteristics of ZnO nanostructures: A combined nonequilibrium Green's function and density functional theory study. <i>Applied Physics Letters</i> , 2009 , 95, 192101	3.4	15
68	First principles studies on the structural, elastic, electronic properties and heats of formation of Mg _{1-x} A _x (A = Ca, Sr, Ba) intermetallics. <i>Intermetallics</i> , 2013 , 32, 156-161	3.5	14
67	Electrogenerated chemiluminescence logic gate operations based on molecule-responsive organic microwires. <i>Nanoscale</i> , 2017 , 9, 10397-10403	7.7	14
66	Mechanism of hydrogen production via water splitting on 3C-SiC's different surfaces: A first-principles study. <i>Computational Materials Science</i> , 2014 , 95, 451-455	3.2	13
65	Study of the stability of n-diamond. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 2991-2994	1.8	13
64	Homoleptic cyclometalated iridium(III) complex nanowires electrogenerated chemiluminescence sensors for high-performance discrimination of proline enantiomers based on the difference of electron-transfer capability. <i>Talanta</i> , 2019 , 194, 98-104	6.2	13
63	Mechanical and thermal properties of Mg ₂ SiO ₄ under high temperature and high pressure conditions such as in mantle: A first principles study. <i>Journal of Chemical Physics</i> , 2015 , 143, 104503	3.9	12
62	{111}-specific twinning structures in nonstoichiometric ZrC _{0.6} with ordered carbon vacancies. <i>Journal of Applied Crystallography</i> , 2013 , 46, 43-47	3.8	12
61	Vacancy trapping mechanism for multiple hydrogen and helium in beryllium: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 095004	1.8	12
60	Strengthening-softening transition in yield strength of nanotwinned Cu. <i>Scripta Materialia</i> , 2019 , 162, 372-376	5.6	12
59	Hierarchical self-assembly flower-like ammonium nickel phosphate as high-rate performance electrode material for asymmetric supercapacitors with enhanced energy density. <i>Nanotechnology</i> , 2018 , 29, 425401	3.4	11
58	Synergetic effect of H and He with vacancy in vanadium solid from first-principles simulations. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 303, 75-80	1.2	11

57	Hydrogen-doped cubic diamond and the crystal structure of n-diamond. <i>Chemical Physics Letters</i> , 2011 , 516, 230-232	2.5	11
56	Numerical simulation of the combined effects of plasma heating and neutron heating loads on the ITER first wall. <i>Fusion Engineering and Design</i> , 2011 , 86, 45-50	1.7	11
55	Formation mechanism of diamond nanocrystal from catalysed carbon black. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 6891-6895	1.8	11
54	Tian et al. reply. <i>Nature</i> , 2013 , 502, E2-3	50.4	10
53	A first-principle study of the structural and electronic properties of amorphous Cu-Zr alloys. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011 , 54, 249-255	3.6	10
52	n-diamond from catalysed carbon nanotubes: synthesis and crystal structure. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L513-L519	1.8	10
51	Small onion-like BN leads to ultrafine-twinned cubic BN. <i>Science China Materials</i> , 2019 , 62, 1169-1176	7.1	9
50	Electrochemical Potential Derived from Atomic Cluster Structures. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 567-71	6.4	9
49	Instabilities in cubic diamond under non-hydrostatic compressive stress. <i>Diamond and Related Materials</i> , 2008 , 17, 1353-1355	3.5	9
48	Hidden electronic rule in the "cluster-plus-glue-atom" model. <i>Scientific Reports</i> , 2016 , 6, 33672	4.9	9
47	Rice Husk-Based 3D Porous Silicon/Carbon Nanocomposites as Anode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1800787	3.5	9
46	Low thermal conductivity in Si/Ge hetero-twinned superlattices. <i>RSC Advances</i> , 2017 , 7, 29959-29965	3.7	8
45	One-pot hydrothermal synthesis of TiO ₂ /RCN heterojunction photocatalyst for production of hydrogen and rhodamine B degradation. <i>Applied Surface Science</i> , 2019 , 493, 202-211	6.7	8
44	Thermal Conductivity of Diamond/SiC Nano-Polycrystalline Composites and Phonon Scattering at Interfaces. <i>ACS Omega</i> , 2017 , 2, 2344-2350	3.9	8
43	Structural, elastic, electronic properties and heats of formation of Ca ₂ Zn intermetallics from first principles calculations. <i>Journal of Alloys and Compounds</i> , 2012 , 524, 53-58	5.7	8
42	First-principles study of the binary Ni ₆₀ Ta ₄₀ metallic glass: The atomic structure and elastic properties. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1730-1734	3.9	8
41	Infrared spectra of hydrogenated nanodiamonds by first-principles simulations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1427-1432	3	8
40	Effect of a coupling agent on the electromagnetic and mechanical properties of carbon black/acrylonitrile-butadiene-styrene composites. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 1839-1843	2.9	8

39	Intersectional nanotwinned diamond-the hardest polycrystalline diamond by design. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	8
38	A promising new class of plasticine: Metallic plasticine. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 344-348	9.1	7
37	Homogeneous and heterogeneous dislocation nucleation in diamond. <i>Diamond and Related Materials</i> , 2018 , 88, 110-117	3.5	7
36	Organic nanoparticle of 9,10-bis(phenylethynyl)anthracene: a novel electrochemiluminescence emitter for sensory detection of amines. <i>New Journal of Chemistry</i> , 2014 , 38, 902	3.6	7
35	Phase stability limit of c-BN under hydrostatic and non-hydrostatic pressure conditions. <i>Journal of Chemical Physics</i> , 2014 , 140, 164704	3.9	7
34	Relative stability of nanosized β -C ₃ N ₄ and graphitic C ₃ N ₄ from first principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 45, 190-193	3	7
33	Influence of growth temperature on the structure, composition and bonding character of nitrogen-doped multiwalled carbon nanotubes. <i>Journal of Materials Research</i> , 2011 , 26, 443-448	2.5	7
32	Pressure dependent phase stability transformations of GaS: A first principles study. <i>Materials Science in Semiconductor Processing</i> , 2010 , 13, 295-297	4.3	7
31	Carbon-doped K4 nitrogen: A novel high energy density material. <i>Chemical Physics Letters</i> , 2011 , 506, 175-178	2.5	6
30	Pressure-dependent mechanical stability of simple cubic carbon. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2654-2657	2.8	6
29	Numerical simulation of the temperature field in laser-driven flyer plates by high power nanosecond laser-material interactions. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 225302	3	5
28	Transformation mechanism from carbon nanotubes to n-diamond. <i>Journal of Materials Research</i> , 2005 , 20, 1485-1489	2.5	5
27	Ultrafast formation of a transient two-dimensional diamondlike structure in twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 102,	3.3	5
26	Fabrication of alveolate g-C ₃ N ₄ with nitrogen vacancies via cobalt introduction for efficient photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 24792-24806	6.7	5
25	Time-evolutional X-ray diffraction of n-diamond: An intermediate state between fcc and diamond structure. <i>Diamond and Related Materials</i> , 2006 , 15, 1323-1328	3.5	4
24	Novel Carbon Nanotube Peapods Encapsulating Au ₃₂ Golden Fullerene. <i>Journal of Computational and Theoretical Nanoscience</i> , 2006 , 3, 459-462	0.3	4
23	Structure and Stability of the Stoichiometric Al ₃ Fe Phase. <i>Metals</i> , 2019 , 9, 1322	2.3	4
22	Co ₄ N/Co ₂ C@rGO with Abundant Co \square and N \square Bonds as Highly Efficient Electrocatalyst for N ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1373-1382	8.3	4

21	High bond difference parameter-induced low thermal transmission in carbon allotropes with sp and sp hybridization. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 12611-12619	3.6	3
20	Isoglytter. <i>Journal of Mathematical Chemistry</i> , 2012 , 50, 2281-2290	2.1	3
19	Mechanical stabilities of K4 carbon and K4-like NaC2. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1264-1267	3.9	3
18	Molecular Dynamics Study on ZnO Nanowires Mechanical Properties: Strain Rate, Temperature and Size Dependent Effects. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012 , 9, 2138-2143	0.3	3
17	Temperature-dependent hardness of zinc-blende structured covalent materials. <i>Science China Materials</i> , 2021 , 64, 2280-2288	7.1	3
16	Electron back-scattering diffraction preliminary analysis of heterogeneous nuclei in magnesium alloy during solidification process under GPa high pressure. <i>Journal of Rare Earths</i> , 2018 , 36, 184-189	3.7	2
15	Preparing LaMnO3 nanocrystals on surface graphitized micro-diamond for efficient oxygen reduction. <i>Journal of Alloys and Compounds</i> , 2019 , 807, 151684	5.7	2
14	Can twins enhance the elastic stiffness of face-centered-cubic metals?. <i>Computational Materials Science</i> , 2014 , 89, 24-29	3.2	2
13	Enhancement of photocatalysis for H2 evolution on annealed Nano-Titania. <i>Materials Science in Semiconductor Processing</i> , 2014 , 25, 153-158	4.3	2
12	Synthesis, Thermal Properties and Application of Nanodiamond 2017 , 85-112		2
11	Strain Effects and Temperature-Dependent Phase Stability of II-VI Semiconductor Nanostructures 2010 ,		2
10	Trigohexagonite. <i>Journal of Mathematical Chemistry</i> , 2010 , 48, 816-826	2.1	2
9	Plastic Deformation and Strengthening Mechanisms of Nanopolycrystalline Diamond. <i>ACS Nano</i> , 2021 , 15, 8283-8294	16.7	2
8	Influence of High-pressure Quenching on the Microstructure, Martensite Transformation, and Mechanical Properties of 0.2 Mass% C Steel. <i>ISIJ International</i> , 2021 , 61, 2292-2298	1.7	2
7	Carrier envelope phase retrieval of a multi-cycle pulse by heterodyne mixing of a pulse containing a few cycles. <i>Laser Physics</i> , 2013 , 23, 025301	1.2	1
6	Temperature-dependent elastic and plastic properties of β -Ti3Al. <i>Intermetallics</i> , 2021 , 139, 107368	3.5	1
5	Structural property-induced different phonon-twin-boundary scattering in diamond. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3874-3882	3.6	1
4	Is hardness constant in covalent materials?. <i>Journal of Materials Science and Technology</i> , 2022 , 114, 215-221	0	0

- 3 Topological Dirac Nodal-Line Structure in Orthorhombic-Ti₃N₂. *Advanced Theory and Simulations*, **2018**, 1, 1700018 3.5
- 2 Photo-induced ultrafast phase transition in twisted bilayer graphene. *Microscopy and Microanalysis*, **2021**, 27, 2954-2956 0.5
- 1 Order in metallic glass: Maximum uniformity distribution of cluster electrochemical potential. *Materials Chemistry and Physics*, **2018**, 215, 305-309 4.4