Bo Xu

List of Publications by Citations

216 papers	6,471 citations	37 h-index	71 g-index
219 ext. papers	7,500 ext. citations	5.9 avg, IF	5.71 L-index

#	Paper	IF	Citations
216	Microscopic theory of hardness and design of novel superhard crystals. *International Journal of Refractory Metals and Hard Materials*, **2012**, 33, 93-106	4.1	563
215	Ultrahard nanotwinned cubic boron nitride. *Nature*, **2013**, 493, 385-8	50.4	519
214	Nanotwinned diamond with unprecedented hardness and stability. *Nature*, **2014**, 510, 250-3	50.4	440
213	Flexible All-Solid-State Supercapacitors based on Liquid-Exfoliated Black-Phosphorus Nanoflakes. *Advanced Materials*, **2016**, 28, 3194-201	24	249
212	Novel superhard carbon: C-centered orthorhombic C8. *Physical Review Letters*, **2011**, 107, 215502	7.4	198
211	Te-Doped Black Phosphorus Field-Effect Transistors. *Advanced Materials*, **2016**, 28, 9408-9415	24	195
210	Tetragonal allotrope of group 14 elements. *Journal of the American Chemical Society*, **2012**, 134, 12362-5	16.4	146
209	Hardness of covalent compounds: Roles of metallic component and d valence electrons. *Journal of Applied Physics*, **2008**, 104, 023503	2.5	140
208	Direct band gap silicon allotropes. *Journal of the American Chemical Society*, **2014**, 136, 9826-9	16.4	120
207	Vacancy-Contained Tetragonal NaSbS Superionic Conductor. *Advanced Science*, **2016**, 3, 1600089	13.6	115
206	Three dimensional carbon-nanotube polymers. *ACS Nano*, **2011**, 5, 7226-34	16.7	94
205	Characterization of the native Cr2O3 oxide surface of CrO2. *Applied Physics Letters*, **2001**, 79, 3122-3124	3.4	88
204	Recent Advances in Superhard Materials. *Annual Review of Materials Research*, **2016**, 46, 383-406	12.8	80
203	Superior Blends Solid Polymer Electrolyte with Integrated Hierarchical Architectures for All-Solid-State Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 36886-36896	9.5	78
202	Compressed glassy carbon: An ultrastrong and elastic interpenetrating graphene network. *Science Advances*, **2017**, 3, e1603213	14.3	77
201	Compressed carbon nanotubes: a family of new multifunctional carbon allotropes. *Scientific Reports* , **2013**, 3, 1331	4.9	73
200	Flexible Black-Phosphorus Nanoflake/Carbon Nanotube Composite Paper for High-Performance All-Solid-State Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 44478-44484	9.5	69

199	Enhanced thermoelectric figure of merit in nanocrystalline Bi2Te3 bulk. *Journal of Applied Physics*, **2009**, 105, 094303	2.5	62
198	High-pressure synthesis of phonon-glass electron-crystal featured thermoelectric LixCo4Sb12. *Acta Materialia*, **2012**, 60, 1246-1251	8.4	61
197	Coverage dependent supramolecular structures: C60:ACA monolayers on Ag(111). *Journal of the American Chemical Society*, **2006**, 128, 8493-9	16.4	60
196	Hierarchically structured diamond composite with exceptional toughness. *Nature*, **2020**, 582, 370-374	50.4	59
195	Influence of nitrogen growth pressure on the ferromagnetic properties of Cr-doped AlN thin films. *Applied Physics Letters*, **2005**, 86, 212504	3.4	58
194	Chiral symmetry breaking in two-dimensional C60-ACA intermixed systems. *Nano Letters*, **2005**, 5, 2207-11	11.5	52
193	Dual-buffered SnSe@CNFs as negative electrode with outstanding lithium storage performance. *Electrochimica Acta*, **2016**, 209, 423-429	6.7	51
192	Synthesis and characterization of argyrodite solid electrolytes for all-solid-state Li-ion batteries. *Journal of Alloys and Compounds*, **2018**, 747, 227-235	5.7	48
191	Exotic Cubic Carbon Allotropes. *Journal of Physical Chemistry C*, **2012**, 116, 24233-24238	3.8	48
190	Mechanical properties of nanocrystalline TiC–ZrC solid solutions fabricated by spark plasma sintering. *Ceramics International*, **2014**, 40, 10517-10522	5.1	44
189	Great thermoelectric power factor enhancement of CoSb3 through the lightest metal element filling. *Applied Physics Letters*, **2011**, 98, 072109	3.4	43
188	Superhard materials: recent research progress and prospects. *Science China Materials*, **2015**, 58, 132-142	7.1	42
187	Interface-Engineered Li La Zr O -Based Garnet Solid Electrolytes with Suppressed Li-Dendrite Formation and Enhanced Electrochemical Performance. *ChemSusChem*, **2018**, 11, 3774-3782	8.3	42
186	Argyrodite Solid Electrolyte with a Stable Interface and Superior Dendrite Suppression Capability Realized by ZnO Co-Doping. *ACS Applied Materials & Interfaces*, **2019**, 11, 40808-40816	9.5	40
185	Bulk Re2C: Crystal Structure, Hardness, and Ultra-incompressibility. *Crystal Growth and Design*, **2010**, 10, 5024-5026	3.5	40
184	Mechanochemically activated synthesis of zirconium carbide nanoparticles at room temperature: A simple route to prepare nanoparticles of transition metal carbides. *Journal of the European Ceramic Society*, **2011**, 31, 1491-1496	6	40
183	First-principles study of wurtzite BC2N. *Physical Review B*, **2007**, 76,	3.3	40
182	Oxidation of metals at the chromium oxide interface. *Applied Physics Letters*, **2002**, 81, 2109-2111	3.4	39

181	Compressive Strength of Diamond from First-Principles Calculation. *Journal of Physical Chemistry C*, **2010**, 114, 17851-17853	3.8	38
180	Crystal structure and stability of magnesium borohydride from first principles. *Physical Review B*, **2009**, 79,	3.3	37
179	The surface phases of the La0.65Pb0.35MnO3 manganese perovskite surface. *Surface Science*, **2002** , 512, L346-L352	1.8	37
178	Band filling and depletion through the doping of polyaniline thin films. *Applied Physics Letters*, **2002** , 80, 4342-4344	3.4	37
177	High pressure synthesized Ca-filled CoSb3 skutterudites with enhanced thermoelectric properties. *Journal of Alloys and Compounds*, **2016**, 677, 61-65	5.7	37
176	Structure and mechanical properties of osmium carbide: First-principles calculations. *Applied Physics Letters*, **2008**, 93, 041904	3.4	36
175	Fermi level alignment in self-assembled molecular layers: the effect of coupling chemistry. *Journal of Physical Chemistry B*, **2006**, 110, 17138-44	3.4	36
174	Phase transformation of melamine at high pressure and temperature. *Journal of Materials Science*, **2008**, 43, 689-695	4.3	35
173	Comparison of Adsorbed Orthocarborane and Metacarborane on Metal Surfaces. *Journal of Physical Chemistry B*, **2003**, 107, 9620-9623	3.4	34
172	Investigation of skutterudite MgyCo4Sb12: High pressure synthesis and thermoelectric properties. *Journal of Applied Physics*, **2013**, 113, 113703	2.5	32
171	Refined Crystal Structure and Mechanical Properties of Superhard BC4N Crystal: First-Principles Calculations. *Journal of Physical Chemistry C*, **2008**, 112, 9516-9519	3.8	32
170	Ultrahardness: Measurement and Enhancement. *Journal of Physical Chemistry C*, **2015**, 119, 5633-5638	3.8	31
169	Sodium doped polycrystalline SnSe: High pressure synthesis and thermoelectric properties. *Journal of Alloys and Compounds*, **2017**, 727, 1014-1019	5.7	31
168	Prediction of a Three-Dimensional Conductive Superhard Material: Diamond-like BC2. *Journal of Physical Chemistry C*, **2010**, 114, 22688-22690	3.8	31
167	Improvement in ion transport in Na3PSe4Na3SbSe4 by Sb substitution. *Journal of Materials Science*, **2018**, 53, 1987-1994	4.3	30
166	Comparison of the conjugated ring orientations in polyaniline and polypyrrole. *Chemical Physics Letters*, **2001**, 343, 193-200	2.5	30
165	A superhard sp3 microporous carbon with direct bandgap. *Chemical Physics Letters*, **2017**, 689, 68-73	2.5	29
164	Three dimensional graphdiyne polymers with tunable band gaps. *Carbon*, **2015**, 91, 518-526	10.4	29

163	Surface photovoltage effects on the isomeric semiconductors of boron-carbide. *Applied Physics Letters*, **2004**, 84, 1302-1304	3.4	29
162	Bulk modulus for polar covalent crystals. *Scientific Reports*, **2013**, 3, 3068	4.9	28
161	Body-centered superhard BC2N phases from first principles. *Physical Review B*, **2007**, 76,	3.3	28
160	Chemical Vapor Synthesized WS2-Embedded Polystyrene-derived Porous Carbon as Superior Long-term Cycling Life Anode Material for Li-ion Batteries. *Electrochimica Acta*, **2015**, 153, 49-54	6.7	27
159	Heterojunction diode fabrication from polyaniline and a ferroelectric polymer. *Applied Physics Letters*, **2002**, 81, 4281-4283	3.4	27
158	Direct Observation of Room-Temperature Dislocation Plasticity in Diamond. *Matter*, **2020**, 2, 1222-1232	12.7	26
157	Synthesis of severe lattice distorted MoS2 coupled with hetero-bonds as anode for superior lithium-ion batteries. *Electrochimica Acta*, **2018**, 262, 162-172	6.7	26
156	High pressure synthesis and thermoelectric properties of polycrystalline Bi2Se3. *Journal of Alloys and Compounds*, **2017**, 700, 223-227	5.7	24
155	Synthesis of iodine filled CoSb 3 with extremely low thermal conductivity. *Journal of Alloys and Compounds*, **2014**, 615, 177-180	5.7	24
154	Structure and thermoelectric properties of Se- and Se/Te-doped CoSb3 skutterudites synthesized by high-pressure technique. *Journal of Alloys and Compounds*, **2015**, 647, 295-302	5.7	23
153	Is orthorhombic iron tetraboride superhard?. *Journal of Materiomics*, **2015**, 1, 45-51	6.7	23
152	Superstructural nanodomains of ordered carbon vacancies in nonstoichiometric ZrC0.61. *Journal of Materials Research*, **2012**, 27, 1230-1236	2.5	23
151	Superhard superstrong carbon clathrate. *Carbon*, **2016**, 105, 151-155	10.4	23
150	High-pressure behaviors of carbon nanotubes. *Journal of Superhard Materials*, **2012**, 34, 371-385	0.9	22
149	Spark plasma sintering of the nonstoichiometric ultrafine-grained titanium carbides with nano superstructural domains of the ordered carbon vacancies. *Materials Chemistry and Physics*, **2011**, 130, 352-360	4.4	22
148	Enhanced cycling performance of Se-doped SnS carbon nanofibers as negative electrode for lithium-ion batteries. *Journal of Alloys and Compounds*, **2017**, 695, 1294-1300	5.7	21
147	Antiferromagnetic interlayer coupling in Pt/Co multilayers with perpendicular anisotropy. *Physical Review B*, **2009**, 79,	3.3	21
146	Magnetic frustration effect in polycrystalline Ga2□FexO3. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 3595-3600	2.8	21

145	Lithium halide coating as an effective intergrain engineering for garnet-type solid electrolytes avoiding high temperature sintering. *Electrochimica Acta*, **2018**, 289, 254-263	6.7	21
144	Enhanced thermoelectric performance of Na-doped PbTe synthesized under high pressure. *Science China Materials*, **2018**, 61, 1218-1224	7.1	20
143	Prediction of a superconductive superhard material: Diamond-like BC7. *Journal of Applied Physics*, **2011**, 110, 013501	2.5	20
142	First-principles study of atomic oxygen adsorption on boron-substituted graphite. *Surface Science*, **2008**, 602, 37-45	1.8	20
141	Hard three-dimensional BN framework with one-dimensional metallicity. *Journal of Alloys and Compounds*, **2018**, 731, 364-368	5.7	19
140	Role of plastic deformation in tailoring ultrafine microstructure in nanotwinned diamond for enhanced hardness. *Science China Materials*, **2017**, 60, 178-185	7.1	18
139	Enhanced thermoelectric performance of lanthanum filled CoSb 3 synthesized under high pressure. *Journal of Alloys and Compounds*, **2017**, 699, 751-755	5.7	18
138	Prediction of novel hard phases of Si3N4: First-principles calculations. *Journal of Solid State Chemistry*, **2015**, 228, 20-26	3.3	18
137	Structural and thermoelectric characterizations of high pressure sintered nanocrystalline Bi2Te3 bulks. *Materials Research Bulletin*, **2012**, 47, 1432-1437	5.1	18
136	Intensive suppression of thermal conductivity in Nd0.6Fe2Co2Sb12-xGex through spontaneous precipitates. *Journal of Applied Physics*, **2013**, 114, 083715	2.5	18
135	Unbinding force of chemical bonds and tensile strength in strong crystals. *Journal of Physics Condensed Matter*, **2009**, 21, 485405	1.8	18
134	Zero-bias anomaly in CrO 2 junctions. *Europhysics Letters*, **2002**, 58, 448-454	1.6	18
133	One-step solution process toward formation of Li6PS5Cl argyrodite solid electrolyte for all-solid-state lithium-ion batteries. *Journal of Alloys and Compounds*, **2020**, 812, 152103	5.7	18
132	Metastable phases, phase transformation and properties of AlAs based on first-principle study. *Computational Materials Science*, **2017**, 128, 337-342	3.2	17
131	Novel three-dimensional boron nitride allotropes from compressed nanotube bundles. *Journal of Materials Chemistry C*, **2014**, 2, 7022	7.1	17
130	Gadolinium filled CoSb3: High pressure synthesis and thermoelectric properties. *Materials Letters*, **2013**, 98, 171-173	3.3	17
129	Formation, structure, and electric property of CaB4 single crystal synthesized under high pressure. *Applied Physics Letters*, **2010**, 96, 031903	3.4	17
128	Continuous strengthening in nanotwinned diamond. *Npj Computational Materials*, **2019**, 5,	10.9	17

127	Carbon coated face-centered cubic Ru-C nanoalloys. *Nanoscale*, **2014**, 6, 10370-6	7.7	16
126	Synthesis of Semimetallic BC3.3N with Orthorhombic Structure at High Pressure and Temperature. *Crystal Growth and Design*, **2008**, 8, 2096-2100	3.5	16
125	Electronic-structure modifications induced by surface segregation in La 0.65 Pb 0.35 MnO 3 thin films. *Europhysics Letters*, **2001**, 56, 722-728	1.6	16
124	Discovery of carbon-based strongest and hardest amorphous material.. *National Science Review*, **2022**, 9, nwab140	10.8	16
123	Mechanical properties of boron arsenide single crystal. *Applied Physics Letters*, **2019**, 114, 131903	3.4	15
122	Enhanced Stability of Black Phosphorus Field-Effect Transistors via Hydrogen Treatment. *Advanced Electronic Materials*, **2018**, 4, 1700455	6.4	15
121	Theoretical two-atom thick semiconducting carbon sheet. *Physical Chemistry Chemical Physics*, **2014** , 16, 18118-23	3.6	15
120	Prediction of Novel SiCN Compounds: First-Principles Calculations. *Journal of Physical Chemistry C*, **2013**, 117, 21943-21948	3.8	15
119	The adsorption of orthocarborane on cobalt. *Thin Solid Films*, **2003**, 428, 253-256	2.2	15
118	FABRICATION OF 2- AND 3-DIMENSIONAL NANOSTRUCTURES. *International Journal of Modern Physics B*, **2001**, 15, 3207-3213	1.1	15
117	Superhard three-dimensional B3N4 with two-dimensional metallicity. *Journal of Materials Chemistry C*, **2017**, 5, 5897-5901	7.1	14
116	Photoluminescence and Raman Spectra Oscillations Induced by Laser Interference in Annealing-Created Monolayer WS2 Bubbles. *Advanced Optical Materials*, **2019**, 7, 1801373	8.1	14
115	Thermoelectric properties of Sn substituted p-type Nd filled skutterudites. *Journal of Alloys and Compounds*, **2015**, 639, 68-73	5.7	14
114	Iodine-filled FexCo4□Sb12 polycrystals: Synthesis, structure, and thermoelectric properties. *Materials Letters*, **2015**, 139, 249-251	3.3	14
113	Superhard and high-strength yne-diamond semimetals. *Diamond and Related Materials*, **2014**, 46, 15-20	3.5	14
112	Structural and thermoelectric characterizations of samarium filled CoSb3 skutterudites. *Materials Letters*, **2015**, 143, 41-43	3.3	14
111	C60 on Nanostructured Nb-Doped SrTiO3(001) Surfaces. *Journal of Physical Chemistry C*, **2010**, 114, 3416-3421	3.3	14
110	Hardness of □and □Si3□CnN4 (n=0, 1, 2, 3) crystals. *Diamond and Related Materials*, **2009**, 18, 72-75	3.5	14

109	Different approaches to adjusting band offsets at intermolecular interfaces. *Applied Surface Science* , **2008**, 254, 4238-4244	6.7	14
108	Morphology selected molecular architecture: acridine carboxylic acid monolayers on Ag (111). *Journal of Physical Chemistry B*, **2006**, 110, 1271-6	3.4	14
107	Si10: A sp3 Silicon Allotrope with Spirally Connected Si5 Tetrahedrons. *Chemistry of Materials*, **2016**, 28, 6441-6445	9.6	14
106	Multithreaded conductive carbon: 1D conduction in 3D carbon. *Carbon*, **2017**, 115, 584-588	10.4	13
105	High pressure synthesis of Te-doped CoSb3 with enhanced thermoelectric performance. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 385-391	2.1	13
104	Enhanced thermoelectric performance of high pressure synthesized Sb-doped Mg2Si. *Journal of Alloys and Compounds*, **2018**, 741, 1148-1152	5.7	13
103	A semiconductive superhard FeB phase from first-principles calculations. *Physical Chemistry Chemical Physics*, **2014**, 16, 22008-13	3.6	13
102	Thermoelectric properties of n-type Bi2Te2.7Se0.3with addition of nano-ZnO:Al particles. *Materials Research Express*, **2014**, 1, 035901	1.7	13
101	Strain Release Induced Novel Fluorescence Variation in CVD-Grown Monolayer WS Crystals. *ACS Applied Materials & Interfaces*, **2017**, 9, 34071-34077	9.5	13
100	Oscillatory antiferromagnetic interlayer coupling in Co(4)Pt(tPt)Co(4)Pt(6)Co(4)NiO(20) multilayers with perpendicular anisotropy. *Physical Review B*, **2008**, 77,	3.3	13
99	Isonicotinic Acid Molecular Films on Ag(111): I. XPS and STM Studies of Orientational Domains. *Journal of Physical Chemistry C*, **2007**, 111, 2102-2106	3.8	13
98	Aluminum doping of poly(vinylidene fluoride with trifluoroethylene) copolymer. *Journal of Chemical Physics*, **2001**, 114, 1866-1869	3.9	13
97	Three-dimensional sp(2)-hybridized carbons consisting of orthogonal nanoribbons of graphene and net C. *Physical Chemistry Chemical Physics*, **2015**, 17, 13028-33	3.6	12
96	Covalent-bonded graphyne polymers with high hardness. *Journal of Superhard Materials*, **2014**, 36, 257-269	0.9	12
95	{111}-specific twinning structures in nonstoichiometric ZrC0.6with ordered carbon vacancies. *Journal of Applied Crystallography*, **2013**, 46, 43-47	3.8	12
94	Low-temperature diffusion of oxygen through ordered carbon vacancies in Zr2C(x): the formation of ordered Zr2C(x)O(y). *Inorganic Chemistry*, **2012**, 51, 5164-72	5.1	12
93	Superconducting ultraincompressible hard cubic Re4C. *Computational Materials Science*, **2011**, 50, 1592-1596	3.2	12
92	High Pressure Synthesis of p-Type CeFeCoSb Skutterudites. *Materials*, **2016**, 9,	3.5	12

91	Coexistence of multiple metastable polytypes in rhombohedral bismuth. *Scientific Reports*, **2016**, 6, 20337	4.9	12
90	Strengthening-softening transition in yield strength of nanotwinned Cu. *Scripta Materialia*, **2019**, 162, 372-376	5.6	12
89	High pressure synthesis and thermoelectric properties of Ba-filled CoSb3 skutterudites. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 8771-8776	2.1	11
88	High-pressure phases of boron arsenide with potential high thermal conductivity. *Physical Review B*, **2019**, 99,	3.3	11
87	Annealing-Induced {011}-Specific Cyclic Twins in Tetragonal Zirconia Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 21052-21058	3.8	11
86	Universal phase transitions of B1-structured stoichiometric transition metal carbides. *Inorganic Chemistry*, **2011**, 50, 9266-72	5.1	11
85	CaB6 single crystals grown under high pressure and hightemperature. *Journal of Crystal Growth*, **2010**, 313, 47-50	1.6	11
84	Thermal behavior of the interlayer coupling in a spin-valve Co/Pt multilayer with perpendicular anisotropy. *Journal of Applied Physics*, **2008**, 104, 113903	2.5	11
83	First-Principles Investigation of Dense B4C3. *Journal of Physical Chemistry C*, **2007**, 111, 13679-13683	3.8	11
82	Comparison of aluminum and sodium doped poly(vinylidene fluoride-trifluoroethylene) copolymers by x-ray photoemission spectroscopy. *Applied Physics Letters*, **2001**, 78, 448-450	3.4	11
81	New hexagonal boron nitride polytypes with triple-layer periodicity. *Journal of Applied Physics*, **2017**, 121, 165102	2.5	10
80	Tian et al. reply. *Nature*, **2013**, 502, E2-3	50.4	10
79	Distinct C60 growth modes on anthracene carboxylic acid templates. *Applied Physics Letters*, **2010**, 96, 143115	3.4	10
78	Optimization on the crystal growth of fullerenes. *Journal of Crystal Growth*, **1997**, 182, 375-378	1.6	10
77	Deep melting reveals liquid structural memory and anomalous ferromagnetism in bismuth. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3375-3380	11.5	9
76	Small onion-like BN leads to ultrafine-twinned cubic BN. *Science China Materials*, **2019**, 62, 1169-1176	7.1	9
75	Enhanced thermoelectric performance of bismuth-doped magnesium silicide synthesized under high pressure. *Journal of Materials Science*, **2018**, 53, 9091-9098	4.3	9
74	Metastable adaptive orthorhombic martensite in zirconia nanoparticles. *Journal of Applied Crystallography*, **2014**, 47, 684-691	3.8	9

73	Thermoelectric Performance of Yb-Doped Ba8Ni0.1Zn0.54Ga13.8Ge31.56 Type-I Clathrate Synthesized by High-Pressure Technique. *Journal of Electronic Materials*, **2017**, 46, 2860-2866	1.9	9
72	Formation and properties of SrB6 single crystals synthesized under high pressure and temperature. *Journal of Alloys and Compounds*, **2011**, 509, 7927-7930	5.7	9
71	Drastic time-dependent decrease in the saturation magnetization observed in Pd/Co/Pd trilayers with perpendicular anisotropy. *Journal of Applied Physics*, **2010**, 107, 123912	2.5	9
70	Thermally induced antiferromagnetic interlayer coupling and its oscillatory dependence on repetition number in spin-valve Co/Pt multilayers. *Journal Physics D: Applied Physics*, **2009**, 42, 035010	3	9
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68	High pressure synthesis of nanotwinned ultrahard materials. *Wuli Xuebao/Acta Physica Sinica*, **2017**, 66, 036201	0.6	9
67	Pressure Impact on the Crystal Structure, Optical, and Transport Properties in Layered Oxychalcogenides BiCuChO (Ch = S, Se). *Journal of Physical Chemistry C*, **2018**, 122, 15929-15936	3.8	9
66	Grain wall boundaries in centimeter-scale continuous monolayer WS film grown by chemical vapor deposition. *Nanotechnology*, **2018**, 29, 255705	3.4	8
65	A metallic carbon consisting of helical carbon triangle chains. *Journal of Physics Condensed Matter*, **2014**, 26, 235402	1.8	8
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63	Effect of magnetic field on domain-wall structures in two antiferromagnetically coupled CoPt multilayers. *Applied Physics Letters*, **2008**, 93, 032502	3.4	8
62	Band structure and orientation of molecular adsorbates on surfaces by angle-resolved electron spectroscopies **2002**, 61-114		8
61	Spin blockade effects in chromium oxide intergrain magnetoresistance. *Journal of Applied Physics*, **2002**, 91, 8801	2.5	8
60	Intersectional nanotwinned diamond-the hardest polycrystalline diamond by design. *Npj Computational Materials*, **2020**, 6,	10.9	8
59	Porous bismuth antimony telluride alloys with excellent thermoelectric and mechanical properties. *Journal of Materials Chemistry A*, **2021**, 9, 4990-4999	13	8
58	Preparation of dense B4C ceramics by spark plasma sintering of high-purity nanoparticles. *Journal of the European Ceramic Society*, **2021**, 41, 3929-3936	6	8
57	Effect of layer and stacking sequence in simultaneously grown 2H and 3R WS atomic layers. *Nanotechnology*, **2019**, 30, 345203	3.4	7
56	Enhancement of thermoelectric performance of Al doped PbTe-PbSe due to carrier concentration optimization and alloying. *Journal of Alloys and Compounds*, **2019**, 791, 786-791	5.7	7

55	Novel superhard boron-rich nitrides under pressure. *Science China Materials*, **2020**, 63, 2358-2364	7.1	7
54	High pressure synthesis of p-type Fe-substituted CoSb3 skutterudites. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 6433-6437	2.1	7
53	Thermoelectric properties of n-type CoSb3 fabricated with high pressure sintering. *Journal of Alloys and Compounds*, **2010**, 503, 490-493	5.7	7
52	Prediction of graphitelike BC4N from first-principles calculations. *Journal of Applied Physics*, **2009**, 105, 043509	2.5	7
51	Structural and magnetic characterization of rhombohedral Ga1.2Fe0.8O3 ceramics prepared by high-pressure synthesis. *Solid State Communications*, **2011**, 151, 33-36	1.6	7
50	Investigations on the interlayer coupling in Co/Pt multilayers with perpendicular anisotropy via the extraordinary Hall effect. *Thin Solid Films*, **2011**, 519, 1980-1984	2.2	7
49	Polymorphism in self-assembled structures of 9-anthracene carboxylic acid on Ag(111). *International Journal of Molecular Sciences*, **2012**, 13, 6836-48	6.3	7
48	Narrow-gap, semiconducting, superhard amorphous carbon with high toughness, derived from C60 fullerene. *Cell Reports Physical Science*, **2021**, 2, 100575	6.1	7
47	Properties of CaB6 single crystals synthesized under high pressure and temperature. *Science China: Physics, Mechanics and Astronomy*, **2011**, 54, 1791-1795	3.6	6
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45	Thermoelectric performance of single elemental doped n-type PbTe regulated by carrier concentration. *Journal of Alloys and Compounds*, **2019**, 787, 180-185	5.7	5
44	Two-dimensional boron on Pb (1 1 0) surface. *FlatChem*, **2018**, 7, 34-41	5.1	5
43	Strengthening in high-pressure quenched Zr. *High Pressure Research*, **2017**, 37, 278-286	1.6	5
42	Strengthening mechanism of Zr. *Computational Materials Science*, **2017**, 135, 134-140	3.2	4
41	Prediction of superconductivity in pressure-induced new silicon boride phases. *Physical Review B*, **2020**, 101,	3.3	4
40	Time dependence of interlayer coupling in Pd(50)/Co(tCo)/Pd(54)/Co(tCo)/Pd(50) multilayer with perpendicular anisotropy. *Journal of Applied Physics*, **2011**, 110, 043918	2.5	4
39	Synthesis and oxidation behavior of boron-substituted carbon powders by hot filament chemical vapor deposition. *Science in China Series D: Earth Sciences*, **2008**, 51, 1464-1469		4
38	First-principles prediction of two-dimensional copper borides. *Physical Review Materials*, **2020**, 4,	3.2	4

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36	Thermoelectric properties of high pressure synthesized lithium and calcium double-filled CoSb3. *AIP Advances*, **2017**, 7, 015204	1.5	3
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