

Zhongyuan Liu

List of Publications by Year in descending order

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152
papers

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9586
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllable growth of multilayered XSe_2 ($X = W$ and Mo) for nonlinear optical and optoelectronic applications. <i>2D Materials</i> , 2022, 9, 015012.	4.4	2
2	Broadband light absorption and photoresponse enhancement in monolayer WSe_2 crystal coupled to Sb_2O_3 microresonators. <i>Nano Research</i> , 2022, 15, 4653-4660.	10.4	5
3	Scalable Van der Waals Encapsulation by Inorganic Molecular Crystals. <i>Advanced Materials</i> , 2022, 34, e2106041.	21.0	18
4	Scalable Van der Waals Encapsulation by Inorganic Molecular Crystals (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	0
5	Well-controlled Core-shell structures based on Fe_3O_4 nanospheres coated by polyaniline for highly efficient microwave absorption. <i>Applied Surface Science</i> , 2022, 591, 153176.	6.1	35
6	Silicon-Phosphorus Nanosheets Integrated 3D-Printable Hydrogel as a Bioactive and Biodegradable Scaffold for Vascularized Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101911.	7.6	23
7	Magnetic Anisotropy Control with Curie Temperature above 400 K in a van der Waals Ferromagnet for Spintronic Device. <i>Advanced Materials</i> , 2022, 34, e2201209.	21.0	19
8	The rise of plastic deformation in boron nitride ceramics. <i>Science China Materials</i> , 2021, 64, 46-51.	6.3	11
9	High-performance flexible all-solid-state micro-supercapacitors based on two-dimensional $InSe$ nanosheets. <i>Journal of Power Sources</i> , 2021, 482, 228987.	7.8	10
10	Porous bismuth antimony telluride alloys with excellent thermoelectric and mechanical properties. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4990-4999.	10.3	32
11	Synergistic Additive-Assisted Growth of 2D Ternary In_2SnS_4 with Giant Gate-Tunable Polarization-Sensitive Photoresponse. <i>Small</i> , 2021, 17, e2008078.	10.0	18
12	Proximity Enhanced Hydrogen Evolution Reactivity of Substitutional Doped Monolayer WS_2 . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19406-19413.	8.0	24
13	Grain-boundary-rich polycrystalline monolayer WS_2 film for attomolar-level Hg^{2+} sensors. <i>Nature Communications</i> , 2021, 12, 3870.	12.8	42
14	Magnetism and microwave absorption properties of two-dimensional layered ferromagnetic metal Fe_3GeTe_2 . <i>Journal of Materials Science</i> , 2021, 56, 16524-16532.	3.7	3
15	Two-Dimensional Germanium Phosphide-Reinforced Conductive and Biodegradable Hydrogel Scaffolds Enhance Spinal Cord Injury Repair. <i>Advanced Functional Materials</i> , 2021, 31, 2104440.	14.9	65
16	Photoemission oscillation in epitaxially grown van der Waals $In_2Se_3WS_2$ heterobilayer bubbles*. <i>Chinese Physics B</i> , 2021, 30, 117901.	1.4	0
17	In Situ Grown Ultrafine RuO_2 Nanoparticles on GeP_5 Nanosheets as the Electrode Material for Flexible Planar Micro-Supercapacitors with High Specific Capacitance and Cyclability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47560-47571.	8.0	11
18	High-sensitivity and versatile plasmonic biosensor based on grain boundaries in polycrystalline 1L WS_2 films. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113596.	10.1	13

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19	Nonlinear optical response of a monolayer WS ₂ and the application of a hundred-MHz nanosecond laser. Optics Express, 2021, 29, 36634.	3.4	4
20	Ambipolar Photoresponsivity in an Ultrasensitive Photodetector Based on a WSe ₂ /InSe Heterostructure by a Photogating Effect. ACS Applied Materials & Interfaces, 2021, 13, 50213-50219.	8.0	26
21	Extreme mechanical anisotropy in diamond with preferentially oriented nanotwin bundles. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
22	Two-dimensional layered materials InSe nanoflakes/carbon nanotubes composite for flexible all-solid-state supercapacitors. Journal of Materials Science, 2020, 55, 2947-2957.	3.7	7
23	Direct one-step synthesis of CoFex@Co@C hybrids derived from a metal organic framework for a lightweight and high-performance microwave absorber. Nanotechnology, 2020, 31, 095703.	2.6	4
24	Mechanical Robustness Two-Dimensional Silicon Phosphide Flake Anodes for Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 17597-17605.	6.7	15
25	Black Phosphorus Incorporated Hydrogel as a Conductive and Biodegradable Platform for Enhancement of the Neural Differentiation of Mesenchymal Stem Cells. Advanced Functional Materials, 2020, 30, 2000177.	14.9	100
26	Current-induced torques in black phosphorus/permalloy bilayers due to crystal symmetry. Applied Physics Letters, 2020, 117, 062403.	3.3	2
27	Pressure Effect on Order-Disorder Ferroelectric Transition in a Hydrogen-Bonded Metal-Organic Framework. Journal of Physical Chemistry Letters, 2020, 11, 9566-9571.	4.6	11
28	Peculiar spectra and photocurrent oscillation caused by laser interference in WX ₂ (X=S, Se) bubbles. Journal of Materials Science, 2020, 55, 15857-15866.	3.7	4
29	Application of hard ceramic materials B ₄ C in energy storage: Design B ₄ C@C core-shell nanoparticles as electrodes for flexible all-solid-state micro-supercapacitors with ultrahigh cyclability. Nano Energy, 2020, 75, 104947.	16.0	47
30	Orthogonal Electric Control of the Out-of-Plane Field Effect in 2D Ferroelectric In ₂ Se ₃ . Advanced Electronic Materials, 2020, 6, 2000061.	5.1	56
31	Direct Observation of Room-Temperature Dislocation Plasticity in Diamond. Matter, 2020, 2, 1222-1232.	10.0	48
32	Narrowing Working Voltage Window to Improve Layered GeP Anode Cycling Performance for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 17466-17473.	8.0	33
33	Hydrogen Bond Tuning of Magnetoelectric Coupling in Metal-Organic Frameworks. Journal of Physical Chemistry C, 2020, 124, 16111-16115.	3.1	5
34	Photodetection application of one-step synthesized wafer-scale monolayer MoS ₂ by chemical vapor deposition. 2D Materials, 2020, 7, 025020.	4.4	13
35	Influence of van der Waals epitaxy on phase transformation behaviors in 2D heterostructure. Applied Physics Letters, 2020, 116, .	3.3	7
36	2D Hybrid Superlattice-Based On-Chip Electrocatalytic Microdevice for <i>in Situ</i> Revealing Enhanced Catalytic Activity. ACS Nano, 2020, 14, 1635-1644.	14.6	36

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37	High-Performance Broadband Photodetectors of Heterogeneous 2D Inorganic Molecular $\text{Sb}_2\text{O}_3/\text{Monolayer MoS}_2$ Crystals Grown via Chemical Vapor Deposition. <i>Advanced Optical Materials</i> , 2020, 8, 2000168.	7.3	17
38	Carbonaceous photonic crystals prepared by high-temperature/hydrothermal carbonization as high-performance microwave absorbers. <i>Journal of Materials Science</i> , 2019, 54, 14343-14353.	3.7	6
39	Layered porous materials indium triphosphide InP_3 for high-performance flexible all-solid-state supercapacitors. <i>Journal of Power Sources</i> , 2019, 438, 227010.	7.8	17
40	Lateral Bilayer MoS_2 "WS ₂ " Heterostructure Photodetectors with High Responsivity and Detectivity. <i>Advanced Optical Materials</i> , 2019, 7, 1900815.	7.3	65
41	Microwave absorption properties of heterostructure composites of two dimensional layered magnetic materials and graphene nanosheets. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	23
42	Simple preparation and excellent microwave attenuation property of Fe_3O_4 - and FeS_2 -decorated graphene nanosheets by liquid-phase exfoliation. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151881.	5.5	13
43	One-step growth of wafer-scale monolayer tungsten disulfide via hydrogen sulfide assisted chemical vapor deposition. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	13
44	Photoluminescence and Raman Spectra Oscillations Induced by Laser Interference in Annealing-Created Monolayer WS_2 Bubbles. <i>Advanced Optical Materials</i> , 2019, 7, 1801373.	7.3	21
45	Atomic-Scale Observation of Reversible Thermally Driven Phase Transformation in 2D In_2Se_3 . <i>ACS Nano</i> , 2019, 13, 8004-8011.	14.6	57
46	Multifunctional Photodetectors Based on Nanolayered Black Phosphorus/ $\text{SnS}_{0.5}\text{Se}_{1.5}$ Heterostructures. <i>ACS Applied Nano Materials</i> , 2019, 2, 3548-3555.	5.0	10
47	One-Step Growth of Spatially Graded $\text{Mo}_x\text{W}_x\text{S}_2$ Monolayers with a Wide Span in Composition (from $x = 0$ to 1) at a Large Scale. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20979-20986.	8.0	12
48	Ferroelectrics: Nonvolatile Ferroelectric Memory Effect in Ultrathin In_2Se_3 (Adv. Funct. Mater.) Tj ETQq0 0 0 rrgBT /Overlock 10 Tf	14.9	4
49	Direct large-scale fabrication of C-encapsulated B_4C nanoparticles with tunable dielectric properties as excellent microwave absorbers. <i>Carbon</i> , 2019, 148, 504-511.	10.3	30
50	Pressure effect on spin-driven multiferroicity in a Y-type hexaferrite. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4173-4177.	5.5	3
51	Accelerated Degradation of CrCl_3 Nanoflakes Induced by Metal Electrodes: Implications for Remediation in Nanodevice Fabrication. <i>ACS Applied Nano Materials</i> , 2019, 2, 1597-1603.	5.0	9
52	Nonvolatile Ferroelectric Memory Effect in Ultrathin In_2Se_3 . <i>Advanced Functional Materials</i> , 2019, 29, 1808606.	14.9	137
53	Two-dimensional black phosphorous induced exciton dissociation efficiency enhancement for high-performance all-inorganic CsPbI_3 perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22539-22549.	10.3	35
54	Atomically Resolving Polymorphs and Crystal Structures of In_2Se_3 . <i>Chemistry of Materials</i> , 2019, 31, 10143-10149.	6.7	71

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55	Approaching diamond's theoretical elasticity and strength limits. Nature Communications, 2019, 10, 5533.	12.8	73
56	Microwave absorbing properties of two dimensional materials GeP ₅ enhanced after annealing treatment. Applied Physics Letters, 2019, 114, .	3.3	24
57	Liquid-exfoliation of S-doped black phosphorus nanosheets for enhanced oxygen evolution catalysis. Nanotechnology, 2019, 30, 035701.	2.6	32
58	Enhanced electromagnetic wave absorption properties of NiCo ₂ nanoparticles interspersed with carbon nanotubes. Journal of Magnetism and Magnetic Materials, 2019, 471, 185-191.	2.3	18
59	Multistate Logic Inverter Based on Black Phosphorus/SnSeS Heterostructure. Advanced Electronic Materials, 2019, 5, 1800416.	5.1	24
60	Sulfur-Doped Black Phosphorus Field-Effect Transistors with Enhanced Stability. ACS Applied Materials & Interfaces, 2018, 10, 9663-9668.	8.0	93
61	Grain wall boundaries in centimeter-scale continuous monolayer WS ₂ film grown by chemical vapor deposition. Nanotechnology, 2018, 29, 255705.	2.6	14
62	Facile-synthesized carbonaceous photonic crystals/magnetic particle nano hybrids with heterostructure as an excellent microwave absorber. Journal of Alloys and Compounds, 2018, 741, 814-820.	5.5	25
63	Weak antilocalization effect in exfoliated black phosphorus revealed by temperature- and angle-dependent magnetoconductivity. Journal of Physics Condensed Matter, 2018, 30, 085703.	1.8	5
64	Enhanced Stability of Black Phosphorus Field-Effect Transistors via Hydrogen Treatment. Advanced Electronic Materials, 2018, 4, 1700455.	5.1	19
65	Enhanced thermoelectric performance of Na-doped PbTe synthesized under high pressure. Science China Materials, 2018, 61, 1218-1224.	6.3	29
66	Superior microwave absorption properties of ultralight reduced graphene oxide/black phosphorus aerogel. Nanotechnology, 2018, 29, 235604.	2.6	41
67	Two-dimensional materials and one-dimensional carbon nanotube composites for microwave absorption. Nanotechnology, 2018, 29, 025704.	2.6	71
68	Facile Synthesis of Carbon-Encapsulated Ni Nanoparticles Embedded into Porous Graphite Sheets as High-Performance Microwave Absorber. ACS Sustainable Chemistry and Engineering, 2018, 6, 16179-16185.	6.7	15
69	Metallic layered germanium phosphide GeP ₅ for high rate flexible all-solid-state supercapacitors. Journal of Materials Chemistry A, 2018, 6, 19409-19416.	10.3	31
70	Metal-organic framework derived cobalt phosphosulfide with ultrahigh microwave absorption properties. Nanotechnology, 2018, 29, 405703.	2.6	30
71	SnS ₂ Nanoflakes Anchored Graphene obtained by Liquid Phase Exfoliation and MoS ₂ Nanosheet Composites as Lithium and Sodium Battery Anodes. Electrochimica Acta, 2017, 227, 203-209.	5.2	57
72	Sodium-Induced Reordering of Atomic Stacks in Black Phosphorus. Chemistry of Materials, 2017, 29, 1350-1356.	6.7	55

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73	Role of plastic deformation in tailoring ultrafine microstructure in nanotwinned diamond for enhanced hardness. <i>Science China Materials</i> , 2017, 60, 178-185.	6.3	21
74	Large topological Hall effect in nonchiral hexagonal MnNiGa films. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	21
75	New hexagonal boron nitride polytypes with triple-layer periodicity. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	13
76	Compressed glassy carbon: An ultrastrong and elastic interpenetrating graphene network. <i>Science Advances</i> , 2017, 3, e1603213.	10.3	110
77	Fabrication of NiCo ₂ -Anchored Graphene Nanosheets by Liquid-Phase Exfoliation for Excellent Microwave Absorbers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12673-12679.	8.0	111
78	Deep melting reveals liquid structural memory and anomalous ferromagnetism in bismuth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3375-3380.	7.1	12
79	Highly sensitive and fast monolayer WS ₂ phototransistors realized by SnS nanosheet decoration. <i>Nanoscale</i> , 2017, 9, 1916-1924.	5.6	39
80	Photodetectors based on sensitized two-dimensional transition metal dichalcogenides—A review. <i>Journal of Materials Research</i> , 2017, 32, 4115-4131.	2.6	46
81	Facile synthesis and excellent electrochemical performance of CoP nanowire on carbon cloth as bifunctional electrode for hydrogen evolution reaction and supercapacitor. <i>Science China Materials</i> , 2017, 60, 1179-1186.	6.3	42
82	Strain Release Induced Novel Fluorescence Variation in CVD-Grown Monolayer WS ₂ Crystals. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34071-34077.	8.0	17
83	Strengthening in high-pressure quenched Zr. <i>High Pressure Research</i> , 2017, 37, 278-286.	1.2	8
84	Microwave absorption characteristics of CH ₃ NH ₃ PbI ₃ perovskite/carbon nanotube composites. <i>Journal of Materials Science</i> , 2017, 52, 13023-13032.	3.7	31
85	Microwave Absorption Properties of CoS ₂ Nanocrystals Embedded into Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28868-28875.	8.0	215
86	Flexible Black-Phosphorus Nanoflake/Carbon Nanotube Composite Paper for High-Performance All-Solid-State Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44478-44484.	8.0	89
87	Ultrahigh-Gain and Fast Photodetectors Built on Atomically Thin Bilayer Tungsten Disulfide Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42001-42010.	8.0	26
88	Fabrication of multifunctional carbon encapsulated Ni@NiO nanocomposites for oxygen reduction, oxygen evolution and lithium-ion battery anode materials. <i>Science China Materials</i> , 2017, 60, 947-954.	6.3	29
89	Improved photoresponse and stable photoswitching of tungsten disulfide single-layer phototransistor decorated with black phosphorus nanosheets. <i>Journal of Materials Science</i> , 2017, 52, 11506-11512.	3.7	15
90	Magnetoresistance and Anomalous Hall Effect with Pt Spacer Thickness in the Spin-Valve Co/Pt/[Co/Pt] ₂ Multilayers. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 533-538.	1.8	9

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91	Flexible All-Solid-State Supercapacitors based on Liquid-Exfoliated Black Phosphorus Nanoflakes. <i>Advanced Materials</i> , 2016, 28, 3194-3201.	21.0	290
92	Microwave Synthesized Three-dimensional Hierarchical Nanostructure CoS ₂ /MoS ₂ Growth on Carbon Fiber Cloth: A Bifunctional Electrode for Hydrogen Evolution Reaction and Supercapacitor. <i>Electrochimica Acta</i> , 2016, 212, 941-949.	5.2	93
93	Coexistence of multiple metastable polytypes in rhombohedral bismuth. <i>Scientific Reports</i> , 2016, 6, 20337.	3.3	16
94	Te-Doped Black Phosphorus Field-Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 9408-9415.	21.0	241
95	Si ₁₀ : A sp ³ Silicon Allotrope with Spirally Connected Si ₅ Tetrahedrons. <i>Chemistry of Materials</i> , 2016, 28, 6441-6445.	6.7	16
96	Large and Anisotropic Linear Magnetoresistance in Single Crystals of Black Phosphorus Arising From Mobility Fluctuations. <i>Scientific Reports</i> , 2016, 6, 23807.	3.3	26
97	Degradation of black phosphorus: a real-time ³¹ P NMR study. <i>2D Materials</i> , 2016, 3, 035025.	4.4	53
98	Carbon-Encapsulated Co ₃ O ₄ @CoO@Co Nanocomposites for Multifunctional Applications in Enhanced Long-life Lithium Storage, Supercapacitor and Oxygen Evolution Reaction. <i>Electrochimica Acta</i> , 2016, 220, 322-330.	5.2	68
99	Liquid-Exfoliated Black Phosphorous Nanosheet Thin Films for Flexible Resistive Random Access Memory Applications. <i>Advanced Functional Materials</i> , 2016, 26, 2016-2024.	14.9	161
100	Enhanced Photoresponse of SnSe-Nanocrystals-Decorated WS ₂ Monolayer Phototransistor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4781-4788.	8.0	91
101	Gate tunable WSe ₂ -BP van der Waals heterojunction devices. <i>Nanoscale</i> , 2016, 8, 3254-3258.	5.6	60
102	Microwave synthesis of SnS ₂ nanoflakes anchored graphene foam for flexible lithium-ion battery anodes with long cycling life. <i>Materials Letters</i> , 2016, 174, 24-27.	2.6	31
103	Passively Q-switched ytterbium-doped ScBO ₃ laser with black phosphorus saturable absorber. <i>Optical Engineering</i> , 2016, 55, 081312.	1.0	21
104	Microwave synthesized self-standing electrode of MoS ₂ nanosheets assembled on graphene foam for high-performance Li-Ion and Na-Ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 660, 11-16.	5.5	64
105	Enhanced stability of black phosphorus field-effect transistors with SiO ₂ passivation. <i>Nanotechnology</i> , 2015, 26, 435702.	2.6	102
106	Broadband Black Phosphorus Optical Modulator in the Spectral Range from Visible to Mid-Infrared. <i>Advanced Optical Materials</i> , 2015, 3, 1787-1792.	7.3	115
107	Fabrication of carbon encapsulated Co ₃ O ₄ nanoparticles embedded in porous graphitic carbon nanosheets for microwave absorber. <i>Carbon</i> , 2015, 89, 372-377.	10.3	114
108	Carbonaceous photonic crystals as ultralong cycling anodes for lithium and sodium batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13786-13793.	10.3	19

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109	Gate tunable MoS ₂ "black phosphorus heterojunction devices. 2D Materials, 2015, 2, 034009.	4.4	61
110	n-Dependent variations of coercivity with temperature in [Co/Pt] n multilayers. Applied Surface Science, 2015, 345, 182-186.	6.1	0
111	Chemical Vapor Synthesized WS ₂ -Embedded Polystyrene-derived Porous Carbon as Superior Long-term Cycling Life Anode Material for Li-ion Batteries. Electrochimica Acta, 2015, 153, 49-54.	5.2	33
112	High pressure synthesis of Te-doped CoSb ₃ with enhanced thermoelectric performance. Journal of Materials Science: Materials in Electronics, 2015, 26, 385-391.	2.2	17
113	Metastable adaptive orthorhombic martensite in zirconia nanoparticles. Journal of Applied Crystallography, 2014, 47, 684-691.	4.5	11
114	Novel three-dimensional boron nitride allotropes from compressed nanotube bundles. Journal of Materials Chemistry C, 2014, 2, 7022.	5.5	20
115	Controlled Incorporation of Ni(OH) ₂ Nanoplates Into Flowerlike MoS ₂ Nanosheets for Flexible All-Solid-State Supercapacitors. Advanced Functional Materials, 2014, 24, 6700-6707.	14.9	145
116	Mechanical properties of nanocrystalline TiC-ZrC solid solutions fabricated by spark plasma sintering. Ceramics International, 2014, 40, 10517-10522.	4.8	57
117	Enhanced laser scribed flexible graphene-based micro-supercapacitor performance with reduction of carbon nanotubes diameter. Carbon, 2014, 75, 236-243.	10.3	139
118	Nanotwinned diamond with unprecedented hardness and stability. Nature, 2014, 510, 250-253.	27.8	611
119	Chemical synthesis and characterization of manganese oxide coated Ni particles. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1508-1513.	5.1	0
120	Ultra-hard nanotwinned cubic boron nitride. Nature, 2013, 493, 385-388.	27.8	662
121	Recent advances in exchange bias of layered magnetic FM/AFM systems. Science China: Physics, Mechanics and Astronomy, 2013, 56, 61-69.	5.1	5
122	{111}-specific twinning structures in nonstoichiometric ZrC _{0.6} with ordered carbon vacancies. Journal of Applied Crystallography, 2013, 46, 43-47.	4.5	15
123	Microwave absorption properties of multiwalled carbon nanotube/FeNi nanopowders as light-weight microwave absorbers. Journal of Magnetism and Magnetic Materials, 2013, 343, 281-285.	2.3	74
124	Interlayer exchange coupling and magnetic reversal in Co/Pt multilayers. Journal of Magnetism and Magnetic Materials, 2013, 325, 117-121.	2.3	14
125	Tian et al. reply. Nature, 2013, 502, E2-E3.	27.8	10
126	Intensive suppression of thermal conductivity in Nd _{0.6} Fe ₂ Co ₂ Sb _{12-x} Gex through spontaneous precipitates. Journal of Applied Physics, 2013, 114, 083715.	2.5	20

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127	Carbon Vacancy Ordered Non-Stoichiometric ZrC _{0.6} , 2013, , 478-508.		1
128	Superstructural nanodomains of ordered carbon vacancies in nonstoichiometric ZrC _{>0.61</sub>. Journal of Materials Research, 2012, 27, 1230-1236.}	2.6	28
129	Heat Treatment Effect on the Magnetic Properties of Cu-Nb Micro-Composites. IEEE Transactions on Applied Superconductivity, 2012, 22, 6002004-6002004.	1.7	1
130	Low-Temperature Diffusion of Oxygen through Ordered Carbon Vacancies in Zr ₂ C _x : The Formation of Ordered Zr ₂ C _x O _y . Inorganic Chemistry, 2012, 51, 5164-5172.	4.0	15
131	Annealing-Induced {011}-Specific Cyclic Twins in Tetragonal Zirconia Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 21052-21058.	3.1	14
132	Investigation on Microwave Absorption Properties for Multiwalled Carbon Nanotubes/Fe/Co/Ni Nanopowders as Lightweight Absorbers. Journal of Physical Chemistry C, 2011, 115, 14025-14030.	3.1	448
133	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.	4.0	28
134	Great thermoelectric power factor enhancement of CoSb ₃ through the lightest metal element filling. Applied Physics Letters, 2011, 98, .	3.3	47
135	Prediction of a conducting hard ductile cubic IrC. Physica Status Solidi - Rapid Research Letters, 2010, 4, 230-232.	2.4	8
136	Chemical synthesis and characterization of MnO _{>2</sub>-coated Co nanoparticles. Journal of Materials Research, 2010, 25, 1748-1754.}	2.6	0
137	Distinct C ₆₀ growth modes on anthracene carboxylic acid templates. Applied Physics Letters, 2010, 96, 143115.	3.3	10
138	Compressive Strength of Diamond from First-Principles Calculation. Journal of Physical Chemistry C, 2010, 114, 17851-17853.	3.1	46
139	C _{>60</sub> on Nanostructured Nb-Doped SrTiO_{>3</sub>(001) Surfaces. Journal of Physical Chemistry C, 2010, 114, 3416-3421.}}	3.1	15
140	Formation, structure, and electric property of CaB ₄ single crystal synthesized under high pressure. Applied Physics Letters, 2010, 96, .	3.3	17
141	Bulk Re _{>2</sub>C: Crystal Structure, Hardness, and Ultra-incompressibility. Crystal Growth and Design, 2010, 10, 5024-5026.}	3.0	46
142	A tetragonal phase of superhard BC ₂ N. Journal of Applied Physics, 2009, 105, .	2.5	32
143	Enhanced thermoelectric figure of merit in nanocrystalline Bi ₂ Te ₃ bulk. Journal of Applied Physics, 2009, 105, .	2.5	71
144	Hardness of covalent compounds: Roles of metallic component and d valence electrons. Journal of Applied Physics, 2008, 104, .	2.5	166

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145	Structure and mechanical properties of osmium carbide: First-principles calculations. Applied Physics Letters, 2008, 93, .	3.3	38
146	First-Principles Investigation of Dense B ₄ C ₃ . Journal of Physical Chemistry C, 2007, 111, 13679-13683.	3.1	11
147	First-principles studies of structural and electronic properties of hexagonal BC ₅ . Physical Review B, 2006, 73, .	3.2	75
148	Prediction of a sandwichlike conducting superhard boron carbide: First-principles calculations. Physical Review B, 2006, 73, .	3.2	48
149	Synthesis of Bâ€“Câ€“N nanocrystalline particle by mechanical alloying and spark plasma sintering. Journal of Materials Science, 2006, 41, 8352-8355.	3.7	12
150	Chalcopyrite polymorph for superhard BC ₂ N. Applied Physics Letters, 2006, 89, 151911.	3.3	41
151	Carbon Vacancy Ordered Non-Stoichiometric ZrC _{0.6} . , 0, , 667-689.		0
152	Pressure Control of the Structure and Multiferroicity in a Hydrogen-Bonded Metalâ€“Organic Framework. Inorganic Chemistry, 0, , .	4.0	4