

# Xiao-lin Wang

## List of Publications by Year in descending order

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254  
papers

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256  
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256  
docs citations

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times ranked

12967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced thermoelectric performance and mechanical strength of n-type BiTeSe materials produced via a composite strategy. <i>Chemical Engineering Journal</i> , 2022, 428, 131205.	6.6	26
2	Ultra-small cobalt particles embedded in titania by ion beam synthesis: Additional datasets including electron microscopy, neutron reflectometry, modelling outputs and particle size analysis. <i>Data in Brief</i> , 2022, 40, 107674.	0.5	1
3	Improving Superconducting Performance of Fe(Se, Te) with In Situ Formed Grain-Boundary Strengthening and Flux Pinning Centers. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2246-2254.	4.0	7
4	Regulating Na Occupation to Introduce Non-Fermi-Liquid States of $\text{Na}_x\text{CoO}_2$ for Enhanced Water Oxidation Activity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 784-791.	2.1	3
5	The positive exchange bias property with hopping switching behavior in van der Waals magnet FeGeTe. <i>2D Materials</i> , 2022, 9, 015037.	2.0	1
6	Noncontact rotation, levitation, and acceleration of flowing liquid metal wires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
7	Optimizing topological switching in confined 2D-Xene nanoribbons via finite-size effects. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	7
8	Experimental Confirmation of the Universal Law for the Vibrational Density of States of Liquids. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3105-3111.	2.1	13
9	Possible permanent Dirac- to Weyl-semimetal phase transition by ion implantation. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	4
10	Lamellae preparation for atomic-resolution STEM imaging from ion-beam-sensitive topological insulator crystals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 033203.	0.9	0
11	Beneficial Effect of $\text{Na}_2\text{CO}_3$ Additions on the Thermoelectric Performance of $\text{MnTe}$ $\text{Cu}_2\text{Se}$ . <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	4
12	Berry phase in quantum oscillations of topological materials. <i>Advances in Physics: X</i> , 2022, 7, .	1.5	2
13	Tunable artificial topological Hall effects in van der Waals heterointerfaces. <i>Physical Review B</i> , 2022, 105, .	1.1	7
14	Superior carrier tuning in ultrathin superconducting materials by electric-field gating. <i>Nature Reviews Physics</i> , 2022, 4, 336-352.	11.9	12
15	Tuning Phase Transition and Thermo-chromic Properties of Vanadium Dioxide Thin Films via Cobalt Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 19736-19746.	4.0	16
16	Magnetotransport and Berry phase tuning in Gd-doped $\text{Bi}_2\text{Te}_3$ topological insulator single crystals. <i>Physical Review Materials</i> , 2022, 6, .	2.9	18
17	Majorana zero modes in iron-based superconductors. <i>Matter</i> , 2022, 5, 1734-1759.	5.0	7
18	Topological insulator $\text{VxBi}_{1.08}\text{-Sn}_{0.02}\text{Sb}_{0.9}\text{Te}_2\text{S}$ as a promising n-type thermoelectric material. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165550.	2.8	3

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19	Synergic optimization of elastic modulus and superconducting properties in graphene@Fe(Se,Te) hybrid materials. Scripta Materialia, 2022, 220, 114922.	2.6	0
20	Atomically Thin Superconductors. Small, 2021, 17, 1904788.	5.2	7
21	Nodal ring spin gapless semiconductor: New member of spintronic materials. Journal of Advanced Research, 2021, 28, 43-49.	4.4	23
22	Crystal face dependent intrinsic wettability of metal oxide surfaces. National Science Review, 2021, 8, nwaal66.	4.6	33
23	Cross-over from weak localization to anti-localization in rare earth doped TRS protected topological insulators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 385, 126953.	0.9	6
24	Understanding the Mechanism of the Oxygen Evolution Reaction with Consideration of Spin. Electrochemical Energy Reviews, 2021, 4, 136-145.	13.1	110
25	Magneto-transport and electronic structures in MoSi <sub>2</sub> bulks and thin films with different orientations. Journal of Alloys and Compounds, 2021, 858, 157670.	2.8	4
26	Chemical Solution Route for High-Quality Multiferroic BiFeO <sub>3</sub> Thin Films. Small, 2021, 17, e1903663.	5.2	38
27	Observation of itinerant ferromagnetism and coupled magnetoresistance in a spinel CuCo <sub>2</sub> S <sub>4</sub> . Journal of Materials Chemistry C, 2021, 9, 8874-8881.	2.7	3
28	Theranostic two-dimensional superparamagnetic maghemite quantum structures for ROS-mediated cancer therapy. Journal of Materials Chemistry B, 2021, 9, 5805-5817.	2.9	3
29	Significant Enhancement of Thermoelectric Figure of Merit in BiSbTe-Based Composites by Incorporating Carbon Microfiber. Advanced Functional Materials, 2021, 31, 2008851.	7.8	57
30	Overcoming Boltzmann's Tyranny in a Transistor via the Topological Quantum Field Effect. Nano Letters, 2021, 21, 3155-3161.	4.5	36
31	From Fundamental Research to Applications: The Success Story of the Institute for Superconducting and Electronic Materials. Small, 2021, 17, e2007636.	5.2	1
32	Significant Reduction in Thermal Conductivity and Improved Thermopower of Electron-Doped Ba <sub>1-x</sub> La <sub>x</sub> TiO <sub>3</sub> with Nanostructured Rectangular Pores. Advanced Electronic Materials, 2021, 7, 2001044.	2.6	1
33	High-Electrification Performance and Mechanism of a Water-Solid Mode Triboelectric Nanogenerator. ACS Nano, 2021, 15, 8706-8714.	7.3	43
34	Giant linear magnetoresistance in half-metallic Sr <sub>2</sub> CrMoO <sub>6</sub> thin films. Npj Quantum Materials, 2021, 6, .	1.8	15
35	Defect-Rich La <sub>2</sub> O <sub>3</sub> Nanoparticles with Antioxidant Activity for Human Keratinocytes. ACS Applied Nano Materials, 2021, 4, 6345-6356.	2.4	5
36	Skyrmion battery effect via inhomogeneous magnetic anisotropy. Applied Physics Reviews, 2021, 8, .	5.5	6

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37	Gate-Controlled Magnetic Phase Transition in a van der Waals Magnet $\text{Fe}_5\text{GeTe}_2$ . Nano Letters, 2021, 21, 5599-5605.	4.5	45
38	Massive Dirac fermions and strong Shubnikov-de Haas oscillations in single crystals of the topological insulator $\text{Bi}_2\text{Te}_3$ doped with Sm and Fe. Physical Review B, 2021, 104, .	11.6	6
39	Copper diffusion rates and hopping pathways in superionic $\text{Cu}_2\text{Se}$ . Acta Materialia, 2021, 215, 117026.	3.8	15
40	Competitive Wetting: A New Approach to Prevent Liquid Penetration through Porous Materials with Superior Synergistic Effect. Small, 2021, 17, e2103695.	5.2	2
41	Significant enhancement of electrical conductivity by incorporating carbon fiber into $\text{CoSb}_3$ thermoelectric skutterudite fabricated by spark plasma sintering method. Journal of Materials Science, 2021, 56, 20138-20153.	1.7	1
42	Colossal Magnetoresistance in Ti Lightly Doped $\text{Cr}_2\text{Se}_3$ Single Crystals with a Layered Structure. ACS Applied Materials & Interfaces, 2021, 13, 58949-58955.	4.0	7
43	Boosting the superconducting properties of $\text{Fe}(\text{Se}, \text{Te})$ through hexagonal phase manipulation. Journal of Alloys and Compounds, 2020, 816, 152683.	2.8	7
44	Understanding the structural and chemical evolution of layered potassium titanates for sodium ion batteries. Energy Storage Materials, 2020, 25, 502-509.	9.5	17
45	Voltage-induced penetration effect in liquid metals at room temperature. National Science Review, 2020, 7, 366-372.	4.6	31
46	Laser/argon-arc strengthening of titanium alloy surface with Deloro matrix composites. Optics and Laser Technology, 2020, 123, 105911.	2.2	12
47	Rapid production of few layer graphene for energy storage via dry exfoliation of expansible graphite. Composites Science and Technology, 2020, 185, 107895.	3.8	16
48	Development and Investigation of a NASICON-type High-Voltage Cathode Material for High-Power Sodium-Ion Batteries. Angewandte Chemie, 2020, 132, 2470-2477.	1.6	26
49	Development and Investigation of a NASICON-type High-Voltage Cathode Material for High-Power Sodium-Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 2449-2456.	7.2	101
50	High-speed heterojunction photodiodes made of single- or multiple-layer $\text{MoS}_2$ directly-grown on Si quantum dots. Journal of Alloys and Compounds, 2020, 820, 153074.	2.8	14
51	Novel topological nodal lines and exotic drum-head-like surface states in synthesized CsCl-type binary alloy TiOs. Journal of Advanced Research, 2020, 22, 137-144.	4.4	44
52	Surface reinforcements of TA15 titanium alloy with laser induced Co base multiphase composites. Optics and Laser Technology, 2020, 132, 106480.	2.2	17
53	Spin-gapless semiconductors for future spintronics and electronics. Physics Reports, 2020, 888, 1-57.	10.3	64
54	High Oxygen Evolution Activity of Tungsten Bronze Oxides Boosted by Anchoring of $\text{Co}^{2+}$ at $\text{Nb}^{5+}$ Sites Accompanied by Substantial Oxygen Vacancy. Advanced Science, 2020, 7, 2002242.	5.6	18

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55	Magnetic plasmon resonances in nanostructured topological insulators for strongly enhanced light-MoS <sub>2</sub> interactions. <i>Light: Science and Applications</i> , 2020, 9, 191.	7.7	52
56	Magnetic interplay of Mn and Yb sites in YbMn <sub>2</sub> Si <sub>2</sub> - Crystal field splitting. <i>Journal of Alloys and Compounds</i> , 2020, 845, 155316.	2.8	1
57	Unique topological nodal line states and associated exceptional thermoelectric power factor platform in Nb <sub>3</sub> GeTe <sub>6</sub> monolayer and bulk. <i>Nanoscale</i> , 2020, 12, 16910-16916.	2.8	22
58	Grape juice: an effective liquid additive for significant enhancement of thermoelectric performance of Cu <sub>2</sub> Se. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16913-16919.	5.2	14
59	Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures. <i>Advanced Energy Materials</i> , 2020, 10, 2000757.	10.2	67
60	Quantum Anomalous Hall Effect in Magnetic Doped Topological Insulators and Ferromagnetic Spin-Gapless Semiconductors - A Perspective Review. <i>Small</i> , 2020, 16, e1904322.	5.2	33
61	Nonvolatile Multistates Memories for High-Density Data Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42449-42471.	4.0	101
62	Thermoelectrics: Ultra-High Thermoelectric Performance in Bulk BiSbTe/Amorphous Boron Composites with Nano-Defect Architectures (Adv. Energy Mater. 41/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070171.	10.2	3
63	Significant Improvement in Electrical Conductivity and Figure of Merit of Nanoarchitected Porous SrTiO <sub>3</sub> by La Doping Optimization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28057-28064.	4.0	23
64	Creating thin magnetic layers at the surface of Sb <sub>2</sub> Te <sub>3</sub> topological insulators using a low-energy chromium ion beam. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	6
65	Effects of doping and biaxial strain on the electronic properties of GaN/graphene/WS <sub>2</sub> trilayer vdW heterostructure. <i>Journal of Materials Science</i> , 2020, 55, 11999-12007.	1.7	12
66	Graphene inclusion induced ultralow thermal conductivity and improved figure of merit in <i>i</i> -type SnSe. <i>Nanoscale</i> , 2020, 12, 12760-12766.	2.8	16
67	Strain tuning of closed topological nodal lines and opposite pockets in quasi-two-dimensional $\Gamma_{\pm}$ -phase FeSi <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13650-13658.	1.3	16
68	Spin-Gapless Semiconductors. <i>Small</i> , 2020, 16, e1905155.	5.2	41
69	Intersecting nodal rings in orthorhombic-type BaLi <sub>2</sub> Sn compound. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5461-5466.	2.7	16
70	Rich novel zero-dimensional (0D), 1D, and 2D topological elements predicted in the P6 <sub>3</sub> /m type ternary boride HfIr <sub>3</sub> B <sub>4</sub> . <i>Nanoscale</i> , 2020, 12, 8314-8319.	2.8	21
71	Enhancing the Thermoelectric Performance of Polycrystalline SnSe by Decoupling Electrical and Thermal Transport through Carbon Fiber Incorporation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12910-12918.	4.0	22
72	Rich topological nodal line bulk states together with drum-head-like surface states in NaAlGe with anti-PbFCI type structure. <i>Journal of Advanced Research</i> , 2020, 23, 95-100.	4.4	39

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73	Effect of Al substitution for Ga on magnetostriction enhancement by annealing of as-cast Fe <sub>1-x</sub> Ga <sub>x</sub> Al alloys under low magnetic fields. International Journal of Materials Research, 2020, 111, 332-338.	0.1	0
74	Interactions in stanene centred van der Waals trilayers structures of boron-nitride and graphene: effect of mirror symmetry on electronic interactions. Journal of Physics Condensed Matter, 2020, 32, 265001.	0.7	1
75	Effect of Al substitution for Ga on magnetostriction enhancement by annealing of as-cast Fe <sub>1-x</sub> Ga <sub>x</sub> Al alloys under low magnetic fields. International Journal of Materials Research, 2020, 111, 332-338.	0.1	0
76	High thermoelectric performance of Ag doped SnTe polycrystalline bulks via the synergistic manipulation of electrical and thermal transport. Physical Chemistry Chemical Physics, 2019, 21, 17978-17984.	1.3	35
77	Possible Excitonic Insulating Phase in Quantum-Confined Sb Nanoflakes. Nano Letters, 2019, 19, 4960-4964.	4.5	20
78	In-situ hydrostatic pressure induced significant suppression of magnetic relaxation and enhancement of flux pinning in Fe <sub>1-x</sub> Co <sub>x</sub> Se <sub>0.5</sub> Te <sub>0.5</sub> single crystals. Scripta Materialia, 2019, 171, 57-61.	2.6	5
79	Modulation of Crystal and Electronic Structures in Topological Insulators by Rare-Earth Doping. ACS Applied Electronic Materials, 2019, 1, 1929-1936.	2.0	7
80	Optimized Electronic Configuration to Improve the Surface Absorption and Bulk Conductivity for Enhanced Oxygen Evolution Reaction. Journal of the American Chemical Society, 2019, 141, 3121-3128.	6.6	68
81	Experimental realization of ultra-broadband and extremely low reflectance in surface modified glasses. Nano Energy, 2019, 62, 588-593.	8.2	3
82	Laser nanocomposites-reinforcing/manufacturing of SLM 18Ni300 alloy under aging treatment. Materials Characterization, 2019, 153, 69-78.	1.9	23
83	Excess conductivity in nano-carbon doped MgB <sub>2</sub> superconductor. European Physical Journal B, 2019, 92, 1.	0.6	2
84	Laser reinforcement of light industrial part surface with synthetic amorphous/nanocrystalline composites. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	2
85	Enhancement of superconducting properties in polycrystalline Fe(Se, Te) via a dual coordination effect. Scripta Materialia, 2019, 169, 19-22.	2.6	8
86	Effect on Schottky Barrier of Graphene/WS <sub>2</sub> Heterostructure With Vertical Electric Field and Biaxial Strain. Physica Status Solidi (B): Basic Research, 2019, 256, 1900161.	0.7	14
87	Ultrahigh figure of merit of Cu <sub>2</sub> Se incorporated with carbon coated boron nanoparticles. Informa Materally, 2019, 1, 108-115.	8.5	47
88	Laser deposition-additive manufacturing of ceramics/nanocrystalline intermetallics reinforced microlaminates. Optics and Laser Technology, 2019, 117, 158-164.	2.2	18
89	Quantum confinements in non-doped single crystals of the topological insulator Sb <sub>2</sub> Te <sub>3</sub>	1.1	26
90	Boosting Superconducting Properties of Fe(Se, Te) via Dual-Oscillation Phenomena Induced by Fluorine Doping. ACS Applied Materials & Interfaces, 2019, 11, 18825-18832.	4.0	11

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91	Annealing effects on the structural and dielectric properties of (Nb + In) co-doped rutile TiO <sub>2</sub> ceramics. RSC Advances, 2019, 9, 8364-8368.	1.7	12
92	Enhancing oxygen evolution efficiency of multiferroic oxides by spintronic and ferroelectric polarization regulation. Nature Communications, 2019, 10, 1409.	5.8	76
93	NASICON-type air-stable and all-climate cathode for sodium-ion batteries with low cost and high-power density. Nature Communications, 2019, 10, 1480.	5.8	260
94	Novel three-dimensional polyaniline nanothorns vertically grown on buckypaper as high-performance supercapacitor electrode. Nanotechnology, 2019, 30, 325401.	1.3	17
95	Laser deposition-additive manufacturing of Ti-B/TiC ceramics reinforced microlaminates. International Journal of Applied Ceramic Technology, 2019, 16, 1314-1320.	1.1	2
96	Spin-wave propagation in $\text{Fe}_2\text{O}_3$ nanorods: the effect of confinement and disorder. Journal of Physics Condensed Matter, 2019, 31, 184003.	0.7	2
97	Enhanced superconductivity induced by several-unit-cells diffusion in an FeTe/FeSe bilayer heterostructure. Physical Review B, 2019, 99, .	1.1	15
98	Quantum oscillations of robust topological surface states up to 50%K in thick bulk-insulating topological insulator. Npj Quantum Materials, 2019, 4, .	1.8	20
99	Enhancement of thermoelectric properties of La-doped SrTiO <sub>3</sub> bulk by introducing nanoscale porosity. Royal Society Open Science, 2019, 6, 190870.	1.1	24
100	<i>R</i> -type LnNiO <sub>3</sub> (Ln = La, Ce, Nd, Pm, Gd, Tb, Dy, Ho, Er, Lu) half-metals with multiple Dirac cones: a potential class of advanced spintronic materials. IUCrJ, 2019, 6, 990-995.	1.0	13
101	Evolution of the composition, structure, and piezoelectric performance of (K <sub>1-x</sub> Nax)NbO <sub>3</sub> nanorod arrays with hydrothermal reaction time. Applied Physics Letters, 2018, 112, .	1.5	7
102	Hydrostatic pressure-induced huge enhancement of critical current density and flux pinning in Fe <sub>1-x</sub> Co <sub>x</sub> Se <sub>0.5</sub> Te <sub>0.5</sub> single crystals. Superconductor Science and Technology, 2018, 31, 025009.	1.8	9
103	Active-Site-Enriched Iron-Doped Nickel/Cobalt Hydroxide Nanosheets for Enhanced Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 5382-5390.	5.5	311
104	Electrochemically Inert $\text{g-C}_3\text{N}_4$ Promotes Water Oxidation Catalysis. Advanced Functional Materials, 2018, 28, 1705583.	7.8	84
105	A novel liquid metal patterning technique: voltage induced non-contact electrochemical lithography at room temperature. Materials Horizons, 2018, 5, 36-40.	6.4	32
106	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. Science Advances, 2018, 4, eaau4511.	4.7	131
107	Long range intrinsic ferromagnetism in two dimensional materials and dissipationless future technologies. Applied Physics Reviews, 2018, 5, .	5.5	119
108	Enzyme-catalysed room temperature and atmospheric pressure synthesis of metal carbonate hydroxides for energy storage. Nano Energy, 2018, 54, 200-208.	8.2	24

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109	Recent advances in Dirac spin-gapless semiconductors. Applied Physics Reviews, 2018, 5, 041103.	5.5	85
110	Nanograting-assisted generation of surface plasmon polaritons in Weyl semimetal WTe <sub>2</sub> . Optical Materials, 2018, 86, 421-423.	1.7	25
111	NiFe <sub>2</sub> O <sub>4</sub> nanoparticles coated on 3D graphene capsule as electrode for advanced energy storage applications. Dalton Transactions, 2018, 47, 14052-14059.	1.6	21
112	Ultra-high thermoelectric performance in graphene incorporated Cu <sub>2</sub> Se: Role of mismatching phonon modes. Nano Energy, 2018, 53, 993-1002.	8.2	145
113	A Novel Graphene Oxide Wrapped Na <sub>2</sub> Fe(SO <sub>4</sub> ) <sub>3</sub> /C Cathode Composite for Long Life and High Energy Density Sodium-ion Batteries. Advanced Energy Materials, 2018, 8, 1800944.	10.2	101
114	Significantly enhanced figure-of-merit in graphene nanoplate incorporated Cu <sub>2</sub> Se fabricated by spark plasma sintering. Journal of Alloys and Compounds, 2018, 769, 59-64.	2.8	21
115	Discovery of a Voltage-Stimulated Heartbeat Effect in Droplets of Liquid Gallium. Physical Review Letters, 2018, 121, 024302.	2.9	54
116	Thickness-dependent electronic structure in WTe <sub>2</sub> thin films. Physical Review B, 2018, 98, .	1.1	24
117	Dirac Signature in Germanene on Semiconducting Substrate. Advanced Science, 2018, 5, 1800207.	5.6	59
118	Giant enhancement of the figure-of-merit over a broad temperature range in nano-boron incorporated Cu <sub>2</sub> Se. Journal of Materials Chemistry A, 2018, 6, 18409-18416.	5.2	49
119	<i>In situ</i> hydrostatic pressure induced improvement of critical current density and suppression of magnetic relaxation in Y(Dy <sub>0.5</sub> )Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> coated conductors. Superconductor Science and Technology, 2018, 31, 075003.	1.8	0
120	High areal capacitance and rate capability using filled Ni foam current collector. Electrochimica Acta, 2018, 281, 761-768.	2.6	10
121	Strain Control of Giant Magnetic Anisotropy in Metallic Perovskite SrCoO <sub>3</sub> Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 22348-22355.	4.0	19
122	Improvement of thermoelectric properties and their correlations with electron effective mass in Cu <sub>1.98</sub> SxSe <sub>1-x</sub> . Scientific Reports, 2017, 7, 40436.	1.6	31
123	Enhancing s, p-d exchange interactions at room temperature by carrier doping in single crystalline Co <sub>0.4</sub> Zn <sub>0.6</sub> O epitaxial films. Applied Physics Letters, 2017, 110, 092402.	1.5	4
124	A novel reusable superhydrophilic NiO/Ni mesh produced by a facile fabrication method for superior oil/water separation. Journal of Materials Chemistry A, 2017, 5, 10821-10826.	5.2	103
125	Facile Synthesis of Three-Dimensional Sandwiched MnO <sub>2</sub> @GCs@MnO <sub>2</sub> Hybrid Nanostructured Electrode for Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 18872-18882.	4.0	52
126	Phase boundary and annealing dependent piezoelectricity in lead-free (K,Na)NbO <sub>3</sub> nanorod arrays. Applied Physics Letters, 2017, 110, .	1.5	14



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127	High area-specific capacitance of Co(OH) <sub>2</sub> /hierarchical nickel/nickel foam supercapacitors and its increase with cycling. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7968-7978.	5.2	80
128	Growth-Controlled Engineering of Magnetic Exchange Interactions in Single Crystalline GaCoZnO <sub>1-v</sub> Epitaxial Films with High Co Concentration. <i>Chemistry of Materials</i> , 2017, 29, 2717-2723.	3.2	6
129	Dirac spin-gapless semiconductors: promising platforms for massless and dissipationless spintronics and new (quantum) anomalous spin Hall effects. <i>National Science Review</i> , 2017, 4, 252-257.	4.6	83
130	Defect introduced paramagnetism and weak localization in two-dimensional metal VSe <sub>2</sub> . <i>Nanotechnology</i> , 2017, 28, 475703.	1.3	35
131	The Interface Structure of FeSe Thin Film on CaF <sub>2</sub> Substrate and its Influence on the Superconducting Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37446-37453.	4.0	22
132	Atomic-scale engineering of oxide interfaces yields a new family of synthetic magnetic structures. <i>Science Bulletin</i> , 2017, 62, 1169-1170.	4.3	0
133	C/SiO <sub>2</sub> meta-composite: Overcoming the $\hat{\epsilon}/\alpha$ relationship limitation in metamaterials. <i>Carbon</i> , 2017, 125, 1-8.	5.4	90
134	Significant enhancement of figure-of-merit in carbon-reinforced Cu <sub>2</sub> Se nanocrystalline solids. <i>Nano Energy</i> , 2017, 41, 164-171.	8.2	103
135	Functionalized few-layer black phosphorus with super-wettability towards enhanced reaction kinetics for rechargeable batteries. <i>Nano Energy</i> , 2017, 40, 576-586.	8.2	95
136	Desert Beetle-Inspired Superwetable Patterned Surfaces for Water Harvesting. <i>Small</i> , 2017, 13, 1701403.	5.2	173
137	Photo-oxidation-modulated refractive index in Bi <sub>2</sub> Te <sub>3</sub> thin films. <i>Materials Research Express</i> , 2017, 4, 126403.	0.8	7
138	Processing of coal fly ash magnetic spheres for clay water flocculation. <i>International Journal of Mineral Processing</i> , 2017, 169, 162-167.	2.6	16
139	Point defect induced giant enhancement of flux pinning in Co-doped FeSe <sub>0.5</sub> Te <sub>0.5</sub> superconducting single crystals. <i>AIP Advances</i> , 2017, 7, .	0.6	10
140	Kinetics of Domain Switching by Mechanical and Electrical Stimulation in Relaxor-Based Ferroelectrics. <i>Physical Review Applied</i> , 2017, 8, .	1.5	11
141	Rattle-type magnetic mesoporous hollow carbon as a high-performance and reusable adsorbent for water treatment. <i>Chemosphere</i> , 2017, 166, 109-117.	4.2	24
142	Evidence for superior current carrying capability of iron pnictide tapes under hydrostatic pressure. <i>Physical Review Materials</i> , 2017, 1, .	0.9	23
143	Grand Design of Novel Spintronic and Electronic Materials for Next Generation Spintronics and Electronics. , 2016, , .		0
144	Synthesis and excellent field emission properties of three-dimensional branched GaN nanowire homostructures. <i>Applied Physics Letters</i> , 2016, 109, 153112.	1.5	6

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145	Study of flux pinning mechanism under hydrostatic pressure in optimally doped (Ba,K)Fe <sub>2</sub> As <sub>2</sub> single crystals. Scientific Reports, 2016, 6, 23044.	1.6	22
146	Preface to Special Topic: 2D Spintronics. APL Materials, 2016, 4, 032201.	2.2	7
147	Collapse and reappearance of magnetic orderings in spin frustrated TbMnO <sub>3</sub> induced by Fe substitution. Applied Physics Letters, 2016, 109, 102401.	1.5	3
148	Rectification magnetoresistance device: Experimental realization and theoretical simulation. Applied Physics Letters, 2016, 109, .	1.5	3
149	Robust ferromagnetism of single crystalline Co <sub>x</sub> Zn <sub>1-x</sub> O (0.3 ≤ x ≤ 0.45) epitaxial films with high Co <sub>3</sub> concentration. Applied Physics Letters, 2016, 109, 052404.	1.5	3
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