

# Biao Wang

## List of Publications by Year in descending order

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406  
papers

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117625  
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412  
docs citations

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times ranked

5680  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-catalyst-free large ZnO single crystal for high-efficiency piezocatalytic hydrogen evolution from pure water. Journal of Energy Chemistry, 2022, 65, 304-311.	12.9	26
2	Dynamics and stability of skyrmions in a bent nano-beam. New Journal of Physics, 2022, 24, 033019.	2.9	0
3	Mechano-electrochemical phase field modeling for formation and modulation of dendritic Pattern: Application to uranium recovery from spent nuclear fuel. Materials and Design, 2022, 213, 110322.	7.0	10
4	First-principles calculation of twin boundary energy and strength/embrittlement in hexagonal close-packed titanium. Materials and Design, 2022, 213, 110331.	7.0	19
5	Optimization of persistent luminescence via dopant concentration in LiNbO <sub>3</sub> . Journal of Luminescence, 2022, 244, 118753.	3.1	2
6	Global nonequilibrium energy criterion for predicting strength of 316L stainless steel under complex loadings: Theoretical modeling and experimental validation. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	5
7	Topological properties and optical conductivities tuned by spin-orbit coupling and strain in kagome lattices. Results in Physics, 2022, 35, 105360.	4.1	6
8	Simultaneous enhancement of strength and ductility in friction stir processed 2205 duplex stainless steel with a bimodal structure: experiments and crystal plasticity modeling. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	3
9	Bifunctional RbBiNb <sub>2</sub> O <sub>7</sub> /poly(tetrafluoroethylene) for high-efficiency piezocatalytic hydrogen and hydrogen peroxide production from pure water. Chemical Engineering Journal, 2022, 446, 136958.	12.7	16
10	On the effectiveness of local vortex identification criteria in the vortex representation of wall-bounded turbulence. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	2
11	Dynamic recrystallization, Laves phase evolution and mechanical performance of nuclear-grade Nb containing FeCrAl alloy joints fabricated by friction stir welding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 857, 143575.	5.6	10
12	Intelligent Generation of Evolutionary Series in a Time-varying Physical System via Series Pattern Recognition. Advanced Intelligent Systems, 2021, 3, 2000172.	6.1	1
13	Effect of initial coating crack on the mechanical performance of surface-coated zircaloy cladding. Nuclear Engineering and Technology, 2021, 53, 1250-1258.	2.3	7
14	Spectroscopic properties and thermally stable orange-red luminescence of Sm:Zr:LiNbO <sub>3</sub> and Sm:Hf:LiNbO <sub>3</sub> for white LED applications. Ceramics International, 2021, 47, 1970-1975.	4.8	9
15	Structure-Directing Roles of Organic Molecules in the Formation of Aluminosilicate and Aluminophosphate Molecular Sieves Revealed by 2D <sup>1</sup> H DQ-MAS NMR Spectroscopy. Chemistry - A European Journal, 2021, 27, 1955-1960.	3.3	0
16	Numerical Studying the Dynamic Stall of Reverse Flow Past a Wing. Lecture Notes in Mechanical Engineering, 2021, , 199-204.	0.4	0
17	Effects of applied mechanical strain on vacancy clustering in FCC Ni. Journal of Nuclear Materials, 2021, 544, 152659.	2.7	2
18	Thermodynamics of magnetic emergent crystals under coupled magnetoelastic fields. New Journal of Physics, 2021, 23, 023016.	2.9	4

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19	A Rapid and Robust Light-and-Solution-Triggered In Situ Crafting of Organic Passivating Membrane over Metal Halide Perovskites for Markedly Improved Stability and Photocatalysis. Nano Letters, 2021, 21, 1643-1650.	9.1	40
20	Exotic Quad-Domain Textures and Transport Characteristics of Self-Assembled BiFeO <sub>3</sub> Nanolands on Nb-Doped SrTiO <sub>3</sub> . ACS Applied Materials & Interfaces, 2021, 13, 12331-12340.	8.0	8
21	Mechanical and electronic properties of CeO <sub>2</sub> under uniaxial tensile loading: A DFT study. Materialia, 2021, 15, 101050.	2.7	14
22	Benefit or harm of accident tolerant coatings on the low-cycle fatigue properties of Zr-4 cladding alloy: in-situ studies at 400°C. Journal of Nuclear Materials, 2021, 545, 152651.	2.7	16
23	Comparative study on the tensile cracking behavior of CrN and Cr coatings for accident-tolerant fuel claddings. Surface and Coatings Technology, 2021, 409, 126812.	4.8	31
24	Prediction of theoretical strength of diamond under complex loadings. Extreme Mechanics Letters, 2021, 44, 101233.	4.1	11
25	High-strength joint of nuclear-grade FeCrAl alloys achieved by friction stir welding and its strengthening mechanism. Journal of Manufacturing Processes, 2021, 65, 1-11.	5.9	9
26	Optical thermometry based on thermolabile intrinsic polarons in Tm <sup>3+</sup> and Yb <sup>3+</sup> co-doped congruent lithium niobate single crystal. Journal of Alloys and Compounds, 2021, 867, 158986.	5.5	16
27	Pinning Effects of Exchange and Magnetocrystalline Anisotropies on Skyrmion Lattice. Frontiers in Physics, 2021, 9, .	2.1	0
28	Vortex-to-velocity reconstruction for wall-bounded turbulence via the field-based linear stochastic estimation. Journal of Fluid Mechanics, 2021, 922, .	3.4	6
29	Comparative study on the strain-dependent mechanical and electronic properties of Nb <sub>3</sub> Al and Nb <sub>3</sub> Sn. Materials Research Express, 2021, 8, 086001.	1.6	4
30	Flexible Piezoelectricity of Two-Dimensional Materials Governed by Effective Berry Curvature. Journal of Physical Chemistry Letters, 2021, 12, 8220-8228.	4.6	3
31	Donor–Acceptor Competition via Halide Vacancy Filling for Oxygen Detection of High Sensitivity and Stability by All-Inorganic Perovskite Films. Small, 2021, 17, 2102733.	10.0	3
32	A general thermodynamic theory for predicting the failure property of material structures with complex loadings. Engineering Fracture Mechanics, 2021, 254, 107936.	4.3	6
33	Prediction on the theoretical strength of diamond, c-BN, Cu, and CeO <sub>2</sub> . AIP Advances, 2021, 11, .	1.3	6
34	Positive or negative role of preoxidation in the crack arresting of Cr coating for accident tolerant fuel cladding. Corrosion Science, 2021, 193, 109870.	6.6	17
35	Plasmon enhanced upconversion emission in Tm <sup>3+</sup> /Yb <sup>3+</sup> /lithium niobate single crystal. Applied Surface Science, 2021, 566, 150660.	6.1	5
36	The dendrite growth, morphology control and deposition properties of uranium electrorefining. Journal of Nuclear Materials, 2021, 555, 153110.	2.7	14

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37	The effect of oblique crack on stability and fracture properties of Cr-coated Zircaloy cladding. Annals of Nuclear Energy, 2021, 163, 108560.	1.8	4
38	Effect of Weibull parameters and crack distribution on the failure probability of multi-layered SiC cladding. Journal of Nuclear Materials, 2021, 557, 153215.	2.7	2
39	Vacancy engineering in nanostructured semiconductors for enhancing photocatalysis. Journal of Materials Chemistry A, 2021, 9, 17143-17172.	10.3	66
40	Material Strength: A Rational Nonequilibrium Energy Model for Complex Loadings. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	17
41	Temperature-dependent deformation and cracking behavior in Cr coating for accident tolerant fuel cladding: An in situ SEM study. Surface and Coatings Technology, 2021, 427, 127815.	4.8	17
42	Effects of oxidation and inter-diffusion on the fracture mechanisms of Cr-coated Zry-4 alloys: An in situ three-point bending study. Materials and Design, 2021, 212, 110168.	7.0	23
43	Up-conversion luminescence of LiTaO <sub>3</sub> :Er <sup>3+</sup> phosphors for optical thermometry. Ceramics International, 2020, 46, 1178-1182.	4.8	22
44	Stress analysis of the thermal barrier coating system near a cooling hole considering the free-edge effect. Ceramics International, 2020, 46, 331-342.	4.8	20
45	Fracture behavior of TBCs with cooling hole structure under cyclic thermal loadings. Ceramics International, 2020, 46, 3644-3654.	4.8	19
46	Ti <sub>3</sub> C <sub>2</sub> : An Ideal Co-catalyst?. Angewandte Chemie - International Edition, 2020, 59, 1914-1918.	13.8	104
47	Ti <sub>3</sub> C <sub>2</sub> : An Ideal Co-catalyst?. Angewandte Chemie, 2020, 132, 1930-1934.	2.0	21
48	Simulation and optimization design of fuel rod in pressurized water fuel assemblies. Nuclear Engineering and Design, 2020, 370, 110856.	1.7	4
49	Theoretical study of the effects of alloying elements on Cu nanotwins. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	15
50	A novel versatile instrument for combined studies of persistent luminescence, thermoluminescence, and mechanoluminescence in micro-scale. Review of Scientific Instruments, 2020, 91, 113103.	1.3	1
51	Synergistic effects of applied strain and cascade overlap on irradiation damage in BCC iron. Journal of Nuclear Materials, 2020, 542, 152422.	2.7	9
52	The intrinsic nature of materials failure and the global non-equilibrium energy criterion. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	14
53	Data-driven computational prediction and experimental realization of exotic perovskite-related polar magnets. Npj Quantum Materials, 2020, 5, .	5.2	14
54	Determination of diffusion coefficients of uranium in liquid gallium by GITT. Journal of Electroanalytical Chemistry, 2020, 879, 114711.	3.8	4

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55	First and second order rotational transitions of skyrmion crystal in multiferroic Cu <sub>2</sub> OSeO <sub>3</sub> under electric field. Applied Physics Letters, 2020, 116, 182403.	3.3	2
56	Quasi-gradient variation of microstructures and properties of Cu–Sn alloy along the thickness direction under cold spinning. Journal of Alloys and Compounds, 2020, 831, 154701.	5.5	8
57	Facile visualization of the initial nucleation and growth of an active metal electrodeposited in a high temperature molten salt using a detachable disk electrode. Electrochemistry Communications, 2020, 117, 106780.	4.7	3
58	Effects of alloy compositions on hydrogen behaviors at a nickel grain boundary and a coherent twin boundary. International Journal of Hydrogen Energy, 2020, 45, 10951-10961.	7.1	14
59	Probing energy transfer mechanism via the upconversion spectra of Tm <sup>3+</sup> /Yb <sup>3+</sup> :LiNbO <sub>3</sub> by tri-doping with Ba <sup>2+</sup> in different site occupations. Journal of Alloys and Compounds, 2020, 825, 153990.	5.5	3
60	Numerical studies of undulation control on dynamic stall for reverse flows. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 290-305.	3.4	5
61	In-situ study on the tensile behavior of Cr-coated zircaloy for accident tolerant fuel claddings. Surface and Coatings Technology, 2020, 394, 125747.	4.8	33
62	Mechanical writing of in-plane ferroelectric vortices by tip-force and their coupled chirality. Journal of Physics Condensed Matter, 2020, 32, 035402.	1.8	3
63	Effects of applied strain on defect production and clustering in FCC Ni. Journal of Nuclear Materials, 2020, 537, 152191.	2.7	7
64	Electrochemical Properties and Nucleation Morphology of Yttrium on Tungsten Substrate in Molten Salt. Journal of the Electrochemical Society, 2020, 167, 112508.	2.9	4
65	All-fiber mode-locked ytterbium-doped fiber laser with a saturable absorber based on the nonlinear Kerr beam cleanup effect. Optics Letters, 2020, 45, 6050.	3.3	7
66	Thermometry strategy developed based on fluorescence contrast driven by varying excitations in codoped LiNbO <sub>3</sub> . Photonics Research, 2020, 8, 135.	7.0	7
67	Recent advances in exfoliation techniques of layered and non-layered materials for energy conversion and storage. Journal of Materials Chemistry A, 2019, 7, 23512-23536.	10.3	89
68	Experimental study on dominant vortex structures in near-wall region of turbulent boundary layer based on tomographic particle image velocimetry. Journal of Fluid Mechanics, 2019, 874, 426-454.	3.4	28
69	The Application of Low-Melting LiCl-KCl-CsCl Eutectic to Electrodeposit Uranium Metal. Journal of the Electrochemical Society, 2019, 166, D606-D616.	2.9	17
70	Large out-of-plane piezoelectricity of oxygen functionalized MXenes for ultrathin piezoelectric cantilevers and diaphragms. Nano Energy, 2019, 65, 104058.	16.0	49
71	In situ visualization of the quasi-periodic crystal growth interface fluctuation by growth interface electromotive force spectrum in a Czochralski system. CrystEngComm, 2019, 21, 1107-1113.	2.6	9
72	Dislocation spreading and ductile–to-brittle transition in post-irradiated ferritic grains: Investigation of grain size and grain orientation effect by means of 3D dislocation dynamics simulations. Journal of Materials Research, 2019, 34, 1584-1594.	2.6	1

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73	Nonlinear emergent elasticity and structural transitions of a skyrmion crystal under uniaxial distortion. <i>Physical Review B</i> , 2019, 99, .	3.2	9
74	Controlling stability and emergent rotation of the skyrmion crystal in thin films of helimagnets via tilted magnetic field. <i>Physical Review B</i> , 2019, 99, .	3.2	3
75	Influence of bulk free energy density on single void evolution based on the phase-field method. <i>Computational Materials Science</i> , 2019, 163, 100-107.	3.0	9
76	Investigation of the reabsorption effect in an all-fiberized mode-locked thulium-doped fibre laser. <i>Laser Physics</i> , 2019, 29, 045104.	1.2	0
77	Thermal stability of resistive switching effect in ZnO/BiFeO <sub>3</sub> bilayer structure. <i>AIP Advances</i> , 2019, 9, 035121.	1.3	1
78	Existence criteria and validity of plate models for graphene-like materials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	3
79	Luminescent properties of stoichiometric Er:LiTaO <sub>3</sub> submicron particles synthesized by a modified solid-state combustion route. <i>Ceramics International</i> , 2019, 45, 10733-10739.	4.8	3
80	Numerical studies of reverse flows controlled by undulating leading edge. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	5
81	Enabling PIEZOpotential in PIEZOelectric Semiconductors for Enhanced Catalytic Activities. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7526-7536.	13.8	234
82	On the mechanisms of tip-force induced switching in ferroelectric thin films: the crossover of depolarization, shear strain and flexoelectricity. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 145701.	1.8	14
83	Growth and fluorescence characteristics of Er:LuAG laser crystals. <i>Journal of Crystal Growth</i> , 2019, 507, 321-326.	1.5	8
84	Investigation of Radiation Temperature and Straining Temperature Effects on the Screw Dislocation Mobility Evolution in Irradiated Ferritic Grains Using 3D Dislocation Dynamics. <i>Minerals, Metals and Materials Series</i> , 2019, , 1335-1344.	0.4	2
85	Characterization and control of vortex and antivortex domain defects in quadrilateral ferroelectric nanodots. <i>Physical Review Materials</i> , 2019, 3, .	2.4	6
86	Key problems on the mechanical behavior of nuclear materials and structures of pressured water reactors. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2019, 49, 114602.	0.4	2
87	Integrated computational materials engineering simulation studies of nuclear alloys based on crystal plasticity modeling. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2019, 49, 114608.	0.4	0
88	The effect of sweat on the performance of the interface between skin and flexible membrane. <i>Engineering Fracture Mechanics</i> , 2018, 193, 162-171.	4.3	0
89	In-situ detection of convection and rotation striations by growth interface electromotive force spectrum. <i>Journal of Crystal Growth</i> , 2018, 487, 120-125.	1.5	12
90	Defect-mediated vortex multiplication and annihilation in ferroelectrics and the feasibility of vortex switching by stress. <i>Acta Materialia</i> , 2018, 148, 330-343.	7.9	37

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91	Mechanical switching in ferroelectrics by shear stress and its implications on charged domain wall generation and vortex memory devices. RSC Advances, 2018, 8, 4434-4444.	3.6	24
92	High-energy azimuthally polarized laser beam generation from an actively Q-switched Nd:YAG laser with c-cut YVO <sub>4</sub> crystal. Laser Physics Letters, 2018, 15, 055801.	1.4	1
93	Uncooled EuSbTe <sub>3</sub> photodetector highly sensitive from ultraviolet to terahertz frequencies. 2D Materials, 2018, 5, 011008.	4.4	16
94	Hierarchical Cu <sub>2</sub> O foam/g-C <sub>3</sub> N <sub>4</sub> photocathode for photoelectrochemical hydrogen production. Applied Surface Science, 2018, 427, 907-916.	6.1	98
95	Ultra-broadband and highly responsive photodetectors based on a novel EuBiTe <sub>3</sub> flake material at room temperature. Journal of Materials Chemistry C, 2018, 6, 713-716.	5.5	19
96	Study on growth techniques and macro defects of large-size Nd:YAG laser crystal. Journal of Crystal Growth, 2018, 483, 200-205.	1.5	16
97	Amorphous-MgGaO Film Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detector. ACS Applied Materials & Interfaces, 2018, 10, 42681-42687.	8.0	33
98	Exchange-anisotropy-induced intrinsic distortion, structural transition, and rotational transition in skyrmion crystals. Physical Review B, 2018, 98, .	3.2	6
99	Optimization of pyroelectric figures of merit via magnesia doping in lithium tantalate single crystal. Journal Physics D: Applied Physics, 2018, 51, 395101.	2.8	5
100	Torsion-induced vortex switching and skyrmion-like state in ferroelectric nanodisks. Journal of Physics Condensed Matter, 2018, 30, 465304.	1.8	14
101	Comment on "Piezoelectricity in planar boron nitride via a geometric phase". Physical Review B, 2018, 98, .	3.2	1
102	Temperature-Dependent and Threshold Behavior of Sm <sup>3+</sup> Ions on Fluorescence Properties of Lithium Niobate Single Crystals. Materials, 2018, 11, 2058.	2.9	7
103	Tight-binding piezoelectric theory and electromechanical coupling correlations for transition metal dichalcogenide monolayers. Physical Review B, 2018, 98, .	3.2	12
104	Persistent luminescence found in Mg <sup>2+</sup> and Pr <sup>3+</sup> co-doped LiNbO <sub>3</sub> single crystal. Journal of Materials Chemistry C, 2018, 6, 10067-10072.	5.5	28
105	Tunable surface configuration of skyrmion lattices in cubic helimagnets. Journal of Physics Condensed Matter, 2018, 30, 245001.	1.8	4
106	High Current Density and Low Hysteresis Effect of Planar Perovskite Solar Cells via PCBM-doping and Interfacial Improvement. ACS Applied Materials & Interfaces, 2018, 10, 29954-29964.	8.0	35
107	Topological Insulator GMR Straintronics for Low-Power Strain Sensors. ACS Applied Materials & Interfaces, 2018, 10, 28789-28795.	8.0	2
108	Direct electrical switching of ferroelectric vortices by a sweeping biased tip. Acta Materialia, 2018, 158, 23-37.	7.9	23



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109	Effects of light on quantum phases and topological properties of two-dimensional Metal-organic frameworks. Scientific Reports, 2017, 7, 41644.	3.3	19
110	Nal(Tl) scintillator read out with SiPM array for gamma spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 851, 118-124.	1.6	29
111	The dynamic conductance response and mechanics-modulated memristive behavior of the Azurin monolayer under cyclic loads. Physical Chemistry Chemical Physics, 2017, 19, 6757-6767.	2.8	5
112	White-light manipulation in Ho 3+ /Yb 3+ /Tm 3+ -doped LiNbO 3 single crystals through transition metal Mn 2+ ion doping. Journal of Alloys and Compounds, 2017, 714, 1-5.	5.5	15
113	Investigation of reaction conditions on synthesis of UO <sub>2.34</sub> and UO <sub>2</sub> via hydrothermal route. Journal of Radioanalytical and Nuclear Chemistry, 2017, 313, 229-237.	1.5	12
114	In-situ detection of growth striations by crystallization electromotive force measurement during Czochralski crystal growth. Journal of Crystal Growth, 2017, 475, 70-76.	1.5	11
115	A two-dimensional experimental investigation on debris bed formation behavior. Progress in Nuclear Energy, 2017, 96, 118-132.	2.9	19
116	Phase-field study on geometry-dependent migration behavior of voids under temperature gradient in UO <sub>2</sub> crystal matrix. Journal of Applied Physics, 2017, 122, .	2.5	5
117	Transient Simulation on Reactor Core Melt and Lower Support Plate Ablation in In-Vessel Retention. , 2017, , .		0
118	Numerical Simulation of Core Temperature and Melting Process of IVR Core After a Severe Water Loss Accident. , 2017, , .		0
119	An existence criterion for low-dimensional materials. Journal of the Mechanics and Physics of Solids, 2017, 107, 451-468.	4.8	11
120	Numerical investigation on the performance of the combined passive and spray cooling system under nuclear severe accident. Annals of Nuclear Energy, 2017, 105, 329-345.	1.8	7
121	Temperature dependence of white light emission and energy transfer in Dy <sup>3+</sup> and Tm <sup>3+</sup> co-doped LiNbO <sub>3</sub> single crystals. Journal of Luminescence, 2017, 192, 728-733.	3.1	20
122	Diverse polarization bi-stability in ferroelectric tunnel junctions due to the effects of the electrode and strain: an ab initio study. Physical Chemistry Chemical Physics, 2017, 19, 20147-20159.	2.8	2
123	The mechanics-modulated tunneling spectrum and low-pass effect of viscoelastic molecular monolayer. AIP Advances, 2017, 7, 105326.	1.3	0
124	Enhanced visible light photocatalytic H <sub>2</sub> evolution of metal-free g-C <sub>3</sub> N <sub>4</sub> /SiC heterostructured photocatalysts. Applied Surface Science, 2017, 391, 449-456.	6.1	140
125	The homogeneous and Lagrangian tracking approaches of the spray simulation in the containment. Annals of Nuclear Energy, 2017, 101, 203-214.	1.8	12
126	Unified theory of magnetoelastic effects in B20 chiral magnets. New Journal of Physics, 2017, 19, 123002.	2.9	25



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127	Association of elevated reactive oxygen species and hyperthermia induced radiosensitivity in cancer stem-like cells. <i>Oncotarget</i> , 2017, 8, 101560-101571.	1.8	17
128	Tunable, continuous-wave single-resonant optical parametric oscillator with output coupling for resonant wave. <i>Chinese Physics B</i> , 2016, 25, 014208.	1.4	1
129	Community-wide changes in intertaxonomic temporal co-occurrence resulting from phenological shifts. <i>Global Change Biology</i> , 2016, 22, 1746-1754.	9.5	26
130	Reversible $\epsilon$ -triple-Q $\epsilon$ -elastic field structures in a chiral magnet. <i>Scientific Reports</i> , 2016, 6, 30200.	3.3	4
131	Large controllability of domain evolution in ferroelectric nanodot via isotropic surface charge screening. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	3
132	A comprehensive picture in the view of atomic scale on piezoelectricity of ZnO tunnel junctions: The first principles simulation. <i>AIP Advances</i> , 2016, 6, 065217.	1.3	1
133	Bipolar resistive switching and its temperature dependence in the composite structure of BiFeO <sub>3</sub> bilayer. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	4
134	Efficient theoretical model and numerical simulation for optimization of gain-switched thulium-doped fiber lasers. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	7
135	Improvement of pyroelectric figures of merit in zirconia-doped congruent lithium niobate single crystals. <i>Journal of Materials Science</i> , 2016, 51, 3155-3161.	3.7	13
136	Bending influence of the electrocaloric effect in a ferroelectric/paraelectric bilayer system. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 065305.	2.8	2
137	Joint Thermal Effects of VBG and Nonlinear Crystal in a Singly Resonant OPO. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1107-1110.	2.5	3
138	Photoluminescence of rare-earth ion (Eu <sup>3+</sup> , Tm <sup>3+</sup> , and Er <sup>3+</sup> ) Tj ETQqO O rgBT /Overlock 10 087803.	1.4	4
139	Large and Tunable Polar-Toroidal Coupling in Ferroelectric Composite Nanowires toward Superior Electromechanical Responses. <i>Scientific Reports</i> , 2015, 5, 11165.	3.3	22
140	MANIPULATING ELECTRONIC PROPERTIES OF FUNCTIONAL MATERIALS BY MECHANICAL LOADING. , 2015, , 107-108.		0
141	A layered antiferromagnetic semiconductor EuMTe <sub>3</sub> (M = Bi, Sb). <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 735-739.	2.4	10
142	Structure-dependent electrical conductivity of protein: its differences between alpha-domain and beta-domain structures. <i>Nanotechnology</i> , 2015, 26, 125702.	2.6	11
143	Utilizing mechanical loads and flexoelectricity to induce and control complicated evolution of domain patterns in ferroelectric nanofilms. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 79, 108-133.	4.8	52
144	Generalized Hamiltonian for a graphene subjected to arbitrary in-plane strains. <i>Functional Materials Letters</i> , 2015, 08, 1530001.	1.2	6

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145	Compact Efficient 2.1- $\mu\text{m}$ Intracavity MgO:PPLN OPO With a VBG Output Coupler. IEEE Photonics Technology Letters, 2015, 27, 573-576.	2.5	8
146	Efficient second-harmonic generation from polarized thulium-doped fiber laser with periodically poled MgO:LiNbO <sub>3</sub> . Optics and Laser Technology, 2015, 69, 60-64.	4.6	2
147	High average-power 2- $\mu\text{m}$ radiation generated by intracavity KTP OPO. Laser Physics Letters, 2015, 12, 095402.	1.4	1
148	Length-dependent rectification and negative differential resistance in heterometallic n-alkanedithiol junctions. RSC Advances, 2015, 5, 13917-13922.	3.6	4
149	CFD simulations in the nuclear containment using the DES turbulence models. Nuclear Engineering and Design, 2015, 287, 1-10.	1.7	10
150	Environmental aspects of radioactive iodine in the Baltic Sea region. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 403-407.	1.5	0
151	Improved spatiotemporal-multiplexing super-multiview display based on planar aligned OLED microdisplays. Optics Express, 2015, 23, 21549.	3.4	6
152	Generation of 360° three-dimensional display using circular-aligned OLED microdisplays. Optics Express, 2015, 23, 2058.	3.4	6
153	Multiview three-dimensional display with continuous motion parallax through planar aligned OLED microdisplays. Optics Express, 2015, 23, 6007.	3.4	17
154	Efficient Synthesis of Stoichiometric Lithium Tantalate Powder by a Solid-State Combustion Route. Materials and Manufacturing Processes, 2015, 30, 1342-1347.	4.7	6
155	On the intrinsic ripples and negative thermal expansion of graphene. Carbon, 2015, 95, 239-249.	10.3	24
156	Reliable resistive switching and its tunability in La-doped PbTiO <sub>3</sub> /TiO <sub>2</sub> composite bilayer. Functional Materials Letters, 2015, 08, 1550033.	1.2	0
157	All-fiberized polarized mode-locked thulium-doped fibre laser. Laser Physics Letters, 2015, 12, 015102.	1.4	2
158	A method to model the transient performance of high frequency vibration in crystal growth. Crystal Research and Technology, 2014, 49, 850-859.	1.3	0
159	Theoretical Methods of Domain Structures in Ultrathin Ferroelectric Films: A Review. Materials, 2014, 7, 6502-6568.	2.9	17
160	Ultrathin Ferroelectric Films: Growth, Characterization, Physics and Applications. Materials, 2014, 7, 6377-6485.	2.9	56
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