

Biao Wang

List of Publications by Year in descending order

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406
papers

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citations

117453

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all docs

412
docs citations

412
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. <i>Journal of Energy Chemistry</i> , 2022, 65, 304-311.	7.1	26
2	Dynamics and stability of skyrmions in a bent nano-beam. <i>New Journal of Physics</i> , 2022, 24, 033019.	1.2	0
3	Mechano-electrochemical phase field modeling for formation and modulation of dendritic Pattern: Application to uranium recovery from spent nuclear fuel. <i>Materials and Design</i> , 2022, 213, 110322.	3.3	10
4	First-principles calculation of twin boundary energy and strength/embrittlement in hexagonal close-packed titanium. <i>Materials and Design</i> , 2022, 213, 110331.	3.3	19
5	Optimization of persistent luminescence via dopant concentration in LiNbO ₃ . <i>Journal of Luminescence</i> , 2022, 244, 118753.	1.5	2
6	Global nonequilibrium energy criterion for predicting strength of 316L stainless steel under complex loadings: Theoretical modeling and experimental validation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	2.0	5
7	Topological properties and optical conductivities tuned by spin-orbit coupling and strain in kagome lattices. <i>Results in Physics</i> , 2022, 35, 105360.	2.0	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. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	2.0	3
9	Bifunctional RbBiNb ₂ O ₇ /poly(tetrafluoroethylene) for high-efficiency piezocatalytic hydrogen and hydrogen peroxide production from pure water. <i>Chemical Engineering Journal</i> , 2022, 446, 136958.	6.6	16
10	On the effectiveness of local vortex identification criteria in the vortex representation of wall-bounded turbulence. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	1.5	2
11	Dynamic recrystallization, Laves phase evolution and mechanical performance of nuclear-grade Nb containing FeCrAl alloy joints fabricated by friction stir welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 857, 143575.	2.6	10
12	Intelligent Generation of Evolutionary Series in a Time-Variant Physical System via Series Pattern Recognition. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000172.	3.3	1
13	Effect of initial coating crack on the mechanical performance of surface-coated zircaloy cladding. <i>Nuclear Engineering and Technology</i> , 2021, 53, 1250-1258.	1.1	7
14	Spectroscopic properties and thermally stable orange-red luminescence of Sm:Zr:LiNbO ₃ and Sm:Hf:LiNbO ₃ for white LED applications. <i>Ceramics International</i> , 2021, 47, 1970-1975.	2.3	9
15	Structure-Directing Roles of Organic Molecules in the Formation of Aluminosilicate and Aluminophosphate Molecular Sieves Revealed by 2D 1 H DQ-SQ NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2021, 27, 1955-1960.	1.7	0
16	Numerical Studying the Dynamic Stall of Reverse Flow Past a Wing. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 199-204.	0.3	0
17	Effects of applied mechanical strain on vacancy clustering in FCC Ni. <i>Journal of Nuclear Materials</i> , 2021, 544, 152659.	1.3	2
18	Thermodynamics of magnetic emergent crystals under coupled magnetoelastic fields. <i>New Journal of Physics</i> , 2021, 23, 023016.	1.2	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. <i>Nano Letters</i> , 2021, 21, 1643-1650.	4.5	40
20	Exotic Quad-Domain Textures and Transport Characteristics of Self-Assembled BiFeO ₃ Nanoslands on Nb-Doped SrTiO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12331-12340.	4.0	8
21	Mechanical and electronic properties of CeO ₂ under uniaxial tensile loading: A DFT study. <i>Materialia</i> , 2021, 15, 101050.	1.3	14
22	Benefit or harm of accident tolerant coatings on the low-cycle fatigue properties of Zr-4 cladding alloy: in-situ studies at 400Å°C. <i>Journal of Nuclear Materials</i> , 2021, 545, 152651.	1.3	16
23	Comparative study on the tensile cracking behavior of CrN and Cr coatings for accident-tolerant fuel claddings. <i>Surface and Coatings Technology</i> , 2021, 409, 126812.	2.2	31
24	Prediction of theoretical strength of diamond under complex loadings. <i>Extreme Mechanics Letters</i> , 2021, 44, 101233.	2.0	11
25	High-strength joint of nuclear-grade FeCrAl alloys achieved by friction stir welding and its strengthening mechanism. <i>Journal of Manufacturing Processes</i> , 2021, 65, 1-11.	2.8	9
26	Optical thermometry based on thermolabile intrinsic polarons in Tm ³⁺ and Yb ³⁺ co-doped congruent lithium niobate single crystal. <i>Journal of Alloys and Compounds</i> , 2021, 867, 158986.	2.8	16
27	Pinning Effects of Exchange and Magnetocrystalline Anisotropies on Skyrmion Lattice. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	0
28	Vortex-to-velocity reconstruction for wall-bounded turbulence via the field-based linear stochastic estimation. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	1.4	6
29	Comparative study on the strain-dependent mechanical and electronic properties of Nb ₃ Al and Nb ₃ Sn. <i>Materials Research Express</i> , 2021, 8, 086001.	0.8	4
30	Flexible Piezoelectricity of Two-Dimensional Materials Governed by Effective Berry Curvature. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8220-8228.	2.1	3
31	Donor-“Acceptor Competition via Halide Vacancy Filling for Oxygen Detection of High Sensitivity and Stability by All-“Inorganic Perovskite Films. <i>Small</i> , 2021, 17, 2102733.	5.2	3
32	A general thermodynamic theory for predicting the failure property of material structures with complex loadings. <i>Engineering Fracture Mechanics</i> , 2021, 254, 107936.	2.0	6
33	Prediction on the theoretical strength of diamond, c-BN, Cu, and CeO ₂ . <i>AIP Advances</i> , 2021, 11, .	0.6	6
34	Positive or negative role of preoxidation in the crack arresting of Cr coating for accident tolerant fuel cladding. <i>Corrosion Science</i> , 2021, 193, 109870.	3.0	17
35	Plasmon enhanced upconversion emission in Tm ³⁺ /Yb ³⁺ /lithium niobate single crystal. <i>Applied Surface Science</i> , 2021, 566, 150660.	3.1	5
36	The dendrite growth, morphology control and deposition properties of uranium electrorefining. <i>Journal of Nuclear Materials</i> , 2021, 555, 153110.	1.3	14

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37	The effect of oblique crack on stability and fracture properties of Cr-coated Zircaloy cladding. <i>Annals of Nuclear Energy</i> , 2021, 163, 108560.	0.9	4
38	Effect of Weibull parameters and crack distribution on the failure probability of multi-layered SiC cladding. <i>Journal of Nuclear Materials</i> , 2021, 557, 153215.	1.3	2
39	Vacancy engineering in nanostructured semiconductors for enhancing photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17143-17172.	5.2	66
40	Material Strength: A Rational Nonequilibrium Energy Model for Complex Loadings. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	17
41	Temperature-dependent deformation and cracking behavior in Cr coating for accident tolerant fuel cladding: An in situ SEM study. <i>Surface and Coatings Technology</i> , 2021, 427, 127815.	2.2	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. <i>Materials and Design</i> , 2021, 212, 110168.	3.3	23
43	Up-conversion luminescence of LiTaO ₃ :Er ³⁺ phosphors for optical thermometry. <i>Ceramics International</i> , 2020, 46, 1178-1182.	2.3	22
44	Stress analysis of the thermal barrier coating system near a cooling hole considering the free-edge effect. <i>Ceramics International</i> , 2020, 46, 331-342.	2.3	20
45	Fracture behavior of TBCs with cooling hole structure under cyclic thermal loadings. <i>Ceramics International</i> , 2020, 46, 3644-3654.	2.3	19
46	Ti ₃ C ₂ : An Ideal Co-catalyst?. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1914-1918.	7.2	104
47	Ti ₃ C ₂ : An Ideal Co-catalyst?. <i>Angewandte Chemie</i> , 2020, 132, 1930-1934.	1.6	21
48	Simulation and optimization design of fuel rod in pressurized water fuel assemblies. <i>Nuclear Engineering and Design</i> , 2020, 370, 110856.	0.8	4
49	Theoretical study of the effects of alloying elements on Cu nanotwins. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	15
50	A novel versatile instrument for combined studies of persistent luminescence, thermoluminescence, and mechanoluminescence in micro-scale. <i>Review of Scientific Instruments</i> , 2020, 91, 113103.	0.6	1
51	Synergistic effects of applied strain and cascade overlap on irradiation damage in BCC iron. <i>Journal of Nuclear Materials</i> , 2020, 542, 152422.	1.3	9
52	The intrinsic nature of materials failure and the global non-equilibrium energy criterion. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	14
53	Data-driven computational prediction and experimental realization of exotic perovskite-related polar magnets. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	14
54	Determination of diffusion coefficients of uranium in liquid gallium by GITT. <i>Journal of Electroanalytical Chemistry</i> , 2020, 879, 114711.	1.9	4

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55	First and second order rotational transitions of skyrmion crystal in multiferroic Cu ₂ OSeO ₃ under electric field. Applied Physics Letters, 2020, 116, 182403.	1.5	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.	2.8	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.	2.3	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.	3.8	14
59	Probing energy transfer mechanism via the upconversion spectra of Tm ³⁺ /Yb ³⁺ :LiNbO ₃ by tri-doping with Ba ²⁺ in different site occupations. Journal of Alloys and Compounds, 2020, 825, 153990.	2.8	3
60	Numerical studies of undulation control on dynamic stall for reverse flows. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 290-305.	1.5	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.	2.2	33
62	Mechanical writing of in-plane ferroelectric vortices by tip-force and their coupled chirality. Journal of Physics Condensed Matter, 2020, 32, 035402.	0.7	3
63	Effects of applied strain on defect production and clustering in FCC Ni. Journal of Nuclear Materials, 2020, 537, 152191.	1.3	7
64	Electrochemical Properties and Nucleation Morphology of Yttrium on Tungsten Substrate in Molten Salt. Journal of the Electrochemical Society, 2020, 167, 112508.	1.3	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.	1.7	7
66	Thermometry strategy developed based on fluorescence contrast driven by varying excitations in codoped LiNbO ₃ . Photonics Research, 2020, 8, 135.	3.4	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.	5.2	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.	1.4	28
69	The Application of Low-Melting LiCl-KCl-CsCl Eutectic to Electrodeposit Uranium Metal. Journal of the Electrochemical Society, 2019, 166, D606-D616.	1.3	17
70	Large out-of-plane piezoelectricity of oxygen functionalized MXenes for ultrathin piezoelectric cantilevers and diaphragms. Nano Energy, 2019, 65, 104058.	8.2	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.	1.3	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.	1.2	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, .	1.1	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, .	1.1	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.	1.4	9
76	Investigation of the reabsorption effect in an all-fiberized mode-locked thulium-doped fibre laser. <i>Laser Physics</i> , 2019, 29, 045104.	0.6	0
77	Thermal stability of resistive switching effect in ZnO/BiFeO ₃ bilayer structure. <i>AIP Advances</i> , 2019, 9, 035121.	0.6	1
78	Existence criteria and validity of plate models for graphene-like materials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	3
79	Luminescent properties of stoichiometric Er:LiTaO ₃ submicron particles synthesized by a modified solid-state combustion route. <i>Ceramics International</i> , 2019, 45, 10733-10739.	2.3	3
80	Numerical studies of reverse flows controlled by undulating leading edge. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	5
81	Enabling PIEZOpotential in PIEZOElectric Semiconductors for Enhanced Catalytic Activities. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7526-7536.	7.2	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.	0.7	14
83	Growth and fluorescence characteristics of Er:LuAG laser crystals. <i>Journal of Crystal Growth</i> , 2019, 507, 321-326.	0.7	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.	0.3	2
85	Characterization and control of vortex and antivortex domain defects in quadrilateral ferroelectric nanodots. <i>Physical Review Materials</i> , 2019, 3, .	0.9	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.	0.2	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.	0.2	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.	2.0	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.	0.7	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.	3.8	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.	1.7	24
92	High-energy azimuthally polarized laser beam generation from an actively Q-switched Nd:YAG laser with-cut YVO ₄ crystal. Laser Physics Letters, 2018, 15, 055801.	0.6	1
93	Uncooled EuSbTe ₃ photodetector highly sensitive from ultraviolet to terahertz frequencies. 2D Materials, 2018, 5, 011008.	2.0	16
94	Hierarchical Cu ₂ O foam/g-C ₃ N ₄ photocathode for photoelectrochemical hydrogen production. Applied Surface Science, 2018, 427, 907-916.	3.1	98
95	Ultra-broadband and highly responsive photodetectors based on a novel EuBiTe ₃ flake material at room temperature. Journal of Materials Chemistry C, 2018, 6, 713-716.	2.7	19
96	Study on growth techniques and macro defects of large-size Nd:YAG laser crystal. Journal of Crystal Growth, 2018, 483, 200-205.	0.7	16
97	Amorphous-MgGaO Film Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detector. ACS Applied Materials & Interfaces, 2018, 10, 42681-42687.	4.0	33
98	Exchange-anisotropy-induced intrinsic distortion, structural transition, and rotational transition in skyrmion crystals. Physical Review B, 2018, 98, .	1.1	6
99	Optimization of pyroelectric figures of merit via magnesia doping in lithium tantalate single crystal. Journal Physics D: Applied Physics, 2018, 51, 395101.	1.3	5
100	Torsion-induced vortex switching and skyrmion-like state in ferroelectric nanodisks. Journal of Physics Condensed Matter, 2018, 30, 465304.	0.7	14
101	Comment on "Piezoelectricity in planar boron nitride via a geometric phase". Physical Review B, 2018, 98, .	1.1	1
102	Temperature-Dependent and Threshold Behavior of Sm ³⁺ Ions on Fluorescence Properties of Lithium Niobate Single Crystals. Materials, 2018, 11, 2058.	1.3	7
103	Tight-binding piezoelectric theory and electromechanical coupling correlations for transition metal dichalcogenide monolayers. Physical Review B, 2018, 98, .	1.1	12
104	Persistent luminescence found in Mg ²⁺ and Pr ³⁺ co-doped LiNbO ₃ single crystal. Journal of Materials Chemistry C, 2018, 6, 10067-10072.	2.7	28
105	Tunable surface configuration of skyrmion lattices in cubic helimagnets. Journal of Physics Condensed Matter, 2018, 30, 245001.	0.7	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.	4.0	35
107	Topological Insulator GMR Straintronics for Low-Power Strain Sensors. ACS Applied Materials & Interfaces, 2018, 10, 28789-28795.	4.0	2
108	Direct electrical switching of ferroelectric vortices by a sweeping biased tip. Acta Materialia, 2018, 158, 23-37.	3.8	23

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109	Effects of light on quantum phases and topological properties of two-dimensional Metal-organic frameworks. <i>Scientific Reports</i> , 2017, 7, 41644.	1.6	19
110	Nal(Tl) scintillator read out with SiPM array for gamma spectrometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 851, 118-124.	0.7	29
111	The dynamic conductance response and mechanics-modulated memristive behavior of the Azurin monolayer under cyclic loads. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6757-6767.	1.3	5
112	White-light manipulation in Ho ³⁺ /Yb ³⁺ /Tm ³⁺ -doped LiNbO ₃ single crystals through transition metal Mn ²⁺ ion doping. <i>Journal of Alloys and Compounds</i> , 2017, 714, 1-5.	2.8	15
113	Investigation of reaction conditions on synthesis of UO _{2.34} and UO ₂ via hydrothermal route. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 313, 229-237.	0.7	12
114	In-situ detection of growth striations by crystallization electromotive force measurement during Czochralski crystal growth. <i>Journal of Crystal Growth</i> , 2017, 475, 70-76.	0.7	11
115	A two-dimensional experimental investigation on debris bed formation behavior. <i>Progress in Nuclear Energy</i> , 2017, 96, 118-132.	1.3	19
116	Phase-field study on geometry-dependent migration behavior of voids under temperature gradient in UO ₂ crystal matrix. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	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. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 107, 451-468.	2.3	11
120	Numerical investigation on the performance of the combined passive and spray cooling system under nuclear severe accident. <i>Annals of Nuclear Energy</i> , 2017, 105, 329-345.	0.9	7
121	Temperature dependence of white light emission and energy transfer in Dy ³⁺ and Tm ³⁺ co-doped LiNbO ₃ single crystals. <i>Journal of Luminescence</i> , 2017, 192, 728-733.	1.5	20
122	Diverse polarization bi-stability in ferroelectric tunnel junctions due to the effects of the electrode and strain: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20147-20159.	1.3	2
123	The mechanics-modulated tunneling spectrum and low-pass effect of viscoelastic molecular monolayer. <i>AIP Advances</i> , 2017, 7, 105326.	0.6	0
124	Enhanced visible light photocatalytic H ₂ evolution of metal-free g-C ₃ N ₄ /SiC heterostructured photocatalysts. <i>Applied Surface Science</i> , 2017, 391, 449-456.	3.1	140
125	The homogeneous and Lagrangian tracking approaches of the spray simulation in the containment. <i>Annals of Nuclear Energy</i> , 2017, 101, 203-214.	0.9	12
126	Unified theory of magnetoelastic effects in B20 chiral magnets. <i>New Journal of Physics</i> , 2017, 19, 123002.	1.2	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.	0.8	17
128	Tunable, continuous-wave single-resonant optical parametric oscillator with output coupling for resonant wave. <i>Chinese Physics B</i> , 2016, 25, 014208.	0.7	1
129	Community-wide changes in intertaxonomic temporal co-occurrence resulting from phenological shifts. <i>Global Change Biology</i> , 2016, 22, 1746-1754.	4.2	26
130	Reversible ϵ -triple-Q-elastic field structures in a chiral magnet. <i>Scientific Reports</i> , 2016, 6, 30200.	1.6	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.	1.1	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.	0.6	1
133	Bipolar resistive switching and its temperature dependence in the composite structure of BiFeO ₃ bilayer. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	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.	1.1	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.	1.7	13
136	Bending influence of the electrocaloric effect in a ferroelectric/paraelectric bilayer system. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 065305.	1.3	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.	1.3	3
138	Photoluminescence of rare-earth ion (Eu ³⁺ , Tm ³⁺ , and Er ³⁺) Tj ETQqO O O rgBT /Overlock 10 087803.	0.7	4
139	Large and Tunable Polar-Toroidal Coupling in Ferroelectric Composite Nanowires toward Superior Electromechanical Responses. <i>Scientific Reports</i> , 2015, 5, 11165.	1.6	22
140	MANIPULATING ELECTRONIC PROPERTIES OF FUNCTIONAL MATERIALS BY MECHANICAL LOADING. , 2015, , 107-108.		0
141	A layered antiferromagnetic semiconductor EuMTe ₃ (M = Bi, Sb). <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 735-739.	1.2	10
142	Structure-dependent electrical conductivity of protein: its differences between alpha-domain and beta-domain structures. <i>Nanotechnology</i> , 2015, 26, 125702.	1.3	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.	2.3	52
144	Generalized Hamiltonian for a graphene subjected to arbitrary in-plane strains. <i>Functional Materials Letters</i> , 2015, 08, 1530001.	0.7	6

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145	Compact Efficient 2.1- μm Intracavity MgO:PPLN OPO With a VBG Output Coupler. IEEE Photonics Technology Letters, 2015, 27, 573-576.	1.3	8
146	Efficient second-harmonic generation from polarized thulium-doped fiber laser with periodically poled MgO:LiNbO ₃ . Optics and Laser Technology, 2015, 69, 60-64.	2.2	2
147	High average-power 2.1- μm radiation generated by intracavity KTP OPO. Laser Physics Letters, 2015, 12, 095402.	0.6	1
148	Length-dependent rectification and negative differential resistance in heterometallic n-alkanedithiol junctions. RSC Advances, 2015, 5, 13917-13922.	1.7	4
149	CFD simulations in the nuclear containment using the DES turbulence models. Nuclear Engineering and Design, 2015, 287, 1-10.	0.8	10
150	Environmental aspects of radioactive iodine in the Baltic Sea region. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 403-407.	0.7	0
151	Improved spatiotemporal-multiplexing super-multiview display based on planar aligned OLED microdisplays. Optics Express, 2015, 23, 21549.	1.7	6
152	Generation of 360° three-dimensional display using circular-aligned OLED microdisplays. Optics Express, 2015, 23, 2058.	1.7	6
153	Multiview three-dimensional display with continuous motion parallax through planar aligned OLED microdisplays. Optics Express, 2015, 23, 6007.	1.7	17
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155	On the intrinsic ripples and negative thermal expansion of graphene. Carbon, 2015, 95, 239-249.	5.4	24
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