Biao Wang

List of Publications by Year in descending order

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406	6,056	117625	155660
papers	citations	34 h-index	55 g-index

412	412	412	5680
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enabling PIEZOpotential in PIEZOelectric Semiconductors for Enhanced Catalytic Activities. Angewandte Chemie - International Edition, 2019, 58, 7526-7536.	13.8	234
2	Enhanced visible light photocatalytic H 2 evolution of metal-free g-C 3 N 4 /SiC heterostructured photocatalysts. Applied Surface Science, 2017, 391, 449-456.	6.1	140
3	Three-dimensional analysis of a flat elliptical crack in a piezoelectric material. International Journal of Engineering Science, 1992, 30, 781-791.	5.0	121
4	First-principles study of the cubic perovskitesBiMO3(M=Al, Ga, In, and Sc). Physical Review B, 2007, 75, .	3.2	111
5	Ti₃C₂: An Ideal Coâ€catalyst?. Angewandte Chemie - International Edition, 2020, 59, 1914-1918.	13.8	104
6	Nearly 100% internal phosphorescence efficiency in a polymer light-emitting diode using a new iridium complex phosphor. Journal of Materials Chemistry, 2008, 18, 1636.	6.7	98
7	Hierarchical Cu2O foam/g-C3N4 photocathode for photoelectrochemical hydrogen production. Applied Surface Science, 2018, 427, 907-916.	6.1	98
8	Two collinear interface cracks in magneto-electro-elastic composites. International Journal of Engineering Science, 2004, 42, 1155-1167.	5.0	92
9	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
10	Structural and elastic properties of LaAlO3 from first-principles calculations. Journal of Applied Physics, 2008, 104, .	2.5	87
11	The dynamic behavior of two collinear interface cracks in magneto-electro-elastic materials. European Journal of Mechanics, A/Solids, 2005, 24, 253-262.	3.7	74
12	First-principles study of structural, elastic, electronic, and optical properties of hexagonal BiAlO3. Physica B: Condensed Matter, 2008, 403, 539-543.	2.7	73
13	Curie temperature and critical thickness of ferroelectric thin films. Journal of Applied Physics, 2005, 97, 084109.	2.5	70
14	Two parallel symmetry permeable cracks in functionally graded piezoelectric/piezomagnetic materials under anti-plane shear loading. International Journal of Solids and Structures, 2004, 41, 4407-4422.	2.7	67
15	First-principles study on energetics of intrinsic point defects inLaAlO3. Physical Review B, 2009, 80, .	3.2	67
16	Vacancy engineering in nanostructured semiconductors for enhancing photocatalysis. Journal of Materials Chemistry A, 2021, 9, 17143-17172.	10.3	66
17	Vortex Domain Structure in Ferroelectric Nanoplatelets and Control of its Transformation by Mechanical Load. Scientific Reports, 2012, 2, 796.	3.3	64
18	Ultrathin Ferroelectric Films: Growth, Characterization, Physics and Applications. Materials, 2014, 7, 6377-6485.	2.9	56

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19	Phase field simulations of stress controlling the vortex domain structures in ferroelectric nanosheets. Applied Physics Letters, 2012, 100, 062901.	3.3	54
20	Low temperature preparation of nanocrystalline Sr0.5Ba0.5Nb2O6 powders using an aqueous organic gel route. Materials Research Bulletin, 2004, 39, 365-374.	5.2	53
21	Utilizing mechanical loads and flexoelectricity to induce and control complicated evolution of domain patterns in ferroelectric nanofilms. Journal of the Mechanics and Physics of Solids, 2015, 79, 108-133.	4.8	52
22	Ab initio study of structural and electronic properties of BiAlO3 and BiGaO3. Physica B: Condensed Matter, 2007, 390, 96-100.	2.7	51
23	Tunable Tunneling Electroresistance in Ferroelectric Tunnel Junctions by Mechanical Loads. ACS Nano, 2011, 5, 1649-1656.	14.6	50
24	Nonvolatile Resistive Switching in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn> Physical Review X, 2013, 3, .	8.9	49</mml:ms
25	Large out-of-plane piezoelectricity of oxygen functionalized MXenes for ultrathin piezoelectric cantilevers and diaphragms. Nano Energy, 2019, 65, 104058.	16.0	49
26	First-principles study of structural, electronic, and optical properties of. Solid State Communications, 2009, 149, 1849-1852.	1.9	47
27	Mechanics of Advanced Functional Materials. Advanced Topics in Science and Technology in China, 2013, , .	0.1	43
28	Theoretical analysis of electric, magnetic and magnetoelectric properties of nano-structured multiferroic composites. Journal of the Mechanics and Physics of Solids, 2011, 59, 1966-1977.	4.8	42
29	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
30	Simulation of interface dislocations effect on polarization distribution of ferroelectric thin films. Applied Physics Letters, 2006, 88, 092903.	3.3	38
31	First-principles study of structural, elastic, electronic, and optical properties of orthorhombic BiGaO3. Computational Materials Science, 2008, 42, 614-618.	3.0	38
32	Defect-mediated vortex multiplication and annihilation in ferroelectrics and the feasibility of vortex switching by stress. Acta Materialia, 2018, 148, 330-343.	7.9	37
33	First-principles study of the electronic and optical properties in rhombohedral LaAlO3. Journal of Applied Physics, 2008, 104, .	2.5	36
34	First-principles study on the formation energies of intrinsic defects in LiNbO3. Journal of Physics and Chemistry of Solids, 2007, 68, 1336-1340.	4.0	35
35	Surface tension and size effect in ferroelectric nanotubes. Journal of Physics Condensed Matter, 2008, 20, 135216.	1.8	35
36	First-principles study of electronic structure, mechanical and optical properties of V₄AlC₃. Journal Physics D: Applied Physics, 2009, 42, 065407.	2.8	35

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37	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
38	The scattering of harmonic elastic anti-plane shear waves by a Griffith crack in a piezoelectric material plane by using the non-local theory. International Journal of Engineering Science, 2002, 40, 303-317.	5.0	34
39	Investigation of anti-plane shear behavior of two collinear cracks in the piezoelectric materials by using the non-local theory. International Journal of Solids and Structures, 2002, 39, 1731-1742.	2.7	33
40	A theoretical analysis of piezoelectric/composite laminate with larger-amplitude deflection effect, Part II: Hermite differential quadrature method and application. International Journal of Solids and Structures, 2005, 42, 6181-6201.	2.7	33
41	Amorphous-MgGaO Film Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detector. ACS Applied Materials & Interfaces, 2018, 10, 42681-42687.	8.0	33
42	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
43	A screw dislocation interacting with a piezoelectric bimaterial interface. Mechanics Research Communications, 1999, 26, 415-420.	1.8	32
44	Computer simulation study of nanoparticle interaction with a lipid membrane under mechanical stress. Physical Chemistry Chemical Physics, 2013, 15, 270-278.	2.8	32
45	Nonlocal theory solution of two collinear cracks in the functionally graded materials. International Journal of Solids and Structures, 2006, 43, 887-898.	2.7	31
46	Effects of interface dislocations on properties of ferroelectric thin films. Journal of the Mechanics and Physics of Solids, 2007, 55, 1661-1676.	4.8	31
47	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
48	A theoretical analysis of piezoelectric/composite anisotropic laminate with larger-amplitude deflection effect, Part I: Fundamental equations. International Journal of Solids and Structures, 2005, 42, 6166-6180.	2.7	29
49	A highly efficient tris-cyclometalated iridium complex based on phenylphthalazine derivative for organic light-emitting diodes. Organic Electronics, 2009, 10, 618-622.	2.6	29
50	Synthesis, characterization and electroluminescence properties of iridium complexes based on pyridazine and phthalazine derivatives with C^NN structure. Synthetic Metals, 2010, 160, 2231-2238.	3.9	29
51	Coexistence of toroidal and polar domains in ferroelectric systems: A strategy for switching ferroelectric vortex. Journal of Applied Physics, 2014, 115, 214106.	2.5	29
52	NaI(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
53	Investigation of the dynamic behavior of a finite crack in the functionally graded materials by use of the Schmidt method. Wave Motion, 2004, 39, 213-225.	2.0	28
54	Persistent luminescence found in Mg²⁺ and Pr³⁺ co-doped LiNbO₃ single crystal. Journal of Materials Chemistry C, 2018, 6, 10067-10072.	5.5	28

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55	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
56	Novel luminescent lanthanide complexes covalently linked to a terpyridine-functionalized silica network. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 191, 74-79.	3.9	27
57	A geometrically nonlinear finite element model of nanomaterials with consideration of surface effects. Finite Elements in Analysis and Design, 2009, 45, 463-467.	3.2	27
58	Electroelastic modelling of anisotropic piezoelectric materials with an elliptic inclusion. International Journal of Solids and Structures, 1995, 32, 2989-3000.	2.7	26
59	Atomic force microscopy-induced electric field in ferroelectric thin films. Journal of Applied Physics, 2003, 94, 4053-4059.	2.5	26
60	Curie-Weiss law in thin-film ferroelectrics. Journal of Applied Physics, 2006, 100, 044114.	2.5	26
61	Critical thickness for dislocation generation during ferroelectric transition in thin film on a compliant substrate. Applied Physics Letters, 2006, 89, 083115.	3.3	26
62	Communityâ€wide changes in intertaxonomic temporal coâ€occurrence resulting from phenological shifts. Global Change Biology, 2016, 22, 1746-1754.	9.5	26
63	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
64	Coupling interaction in 1-3-type multiferroic composite thin films. Applied Physics Letters, 2007, 90, 133124.	3.3	25
65	Phase field simulation of heterogeneous cubicâ†'tetragonal martensite nucleation. International Journal of Solids and Structures, 2013, 50, 1187-1191.	2.7	25
66	Unified theory of magnetoelastic effects in B20 chiral magnets. New Journal of Physics, 2017, 19, 123002.	2.9	25
67	Line force, charge and dislocation in anisotropic piezoelectric materials with an elliptic hole or a crack. Mechanics Research Communications, 1997, 24, 399-405.	1.8	24
68	Effects of strain gradient on charge offsets and pyroelectric properties of ferroelectric thin films. Applied Physics Letters, 2006, 89, 062904.	3.3	24
69	On the intrinsic ripples and negative thermal expansion of graphene. Carbon, 2015, 95, 239-249.	10.3	24
70	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
71	Investigation of the dynamic behavior of two parallel symmetric cracks in piezoelectric materials use of non-local theory. International Journal of Solids and Structures, 2003, 40, 747-762.	2.7	23
72	Growth and optical property of Mg, Fe co-doped near-stoichiometric LiNbO3 crystal. Materials Chemistry and Physics, 2004, 83, 350-353.	4.0	23

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73	Optical homogeneity and second harmonic generation in Li-rich Mg-doped LiNbO3 crystals. Materials Chemistry and Physics, 2004, 88, 97-101.	4.0	23
74	First-principles study of the structure, electronic, and optical properties of orthorhombic BiInO3. Applied Physics Letters, 2007, 91, 071902.	3.3	23
75	High average power 2 Î¼m generation using an intracavity PPMgLN optical parametric oscillator. Optics Letters, 2012, 37, 64.	3.3	23
76	Effect of Mechanical Loads on Stability of Nanodomains in Ferroelectric Ultrathin Films: Towards Flexible Erasing of the Non-Volatile Memories. Scientific Reports, 2014, 4, 5339.	3.3	23
77	Direct electrical switching of ferroelectric vortices by a sweeping biased tip. Acta Materialia, 2018, 158, 23-37.	7.9	23
78	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
79	The behavior of two parallel symmetry permeable interface cracks in a piezoelectric layer bonded to two half piezoelectric materials planes. International Journal of Solids and Structures, 2002, 39, 4485-4500.	2.7	22
80	Synthesis of a novel tris-cyclometalated iridium(III) complex containing triarylamine unit and its application in OLEDs. Inorganica Chimica Acta, 2009, 362, 4985-4990.	2.4	22
81	Phase diagram of ferroelectric nanowires and its mechanical force controllability. Applied Physics Letters, 2010, 96, 232904.	3.3	22
82	Large and Tunable Polar-Toroidal Coupling in Ferroelectric Composite Nanowires toward Superior Electromechanical Responses. Scientific Reports, 2015, 5, 11165.	3.3	22
83	Up-conversion luminescence of LiTaO3:Er3+ phosphors for optical thermometry. Ceramics International, 2020, 46, 1178-1182.	4.8	22
84	Investigation of the behavior of a crack in a piezoelectric material subjected to a uniform tension loading by use of the non-local theory. International Journal of Engineering Science, 2004, 42, 2041-2063.	5.0	21
85	Effects of X (V, W, Mo, Hf, Ta, Zr) additions on the ideal cleavage fracture of Cr2Nb: First-principles determination. Intermetallics, 2010, 18, 65-69.	3.9	21
86	Finite element analysis of resonant properties of silicon nanowires with consideration of surface effects. Acta Mechanica, 2011, 217, 149-155.	2.1	21
87	Super multi-view three-dimensional display through spatial-spectrum time-multiplexing of planar aligned OLED microdisplays. Optics Express, 2014, 22, 31448.	3.4	21
88	Ti₃C₂: An Ideal Coâ€catalyst?. Angewandte Chemie, 2020, 132, 1930-1934.	2.0	21
89	Title is missing!. International Journal of Fracture, 1998, 91, 13-22.	2.2	20
90	Theoretical prediction on the structural, electronic, and polarization properties of tetragonal Bi2ZnTiO6. Journal of Applied Physics, 2009, 105, .	2.5	20

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91	All-around holographic three-dimensional light field display. Optics Communications, 2012, 285, 4235-4240.	2.1	20
92	Spatiotemporal multiplexing for holographic display with multiple planar aligned spatial-light-modulators. Optics Express, 2014, 22, 15791.	3.4	20
93	Temperature dependence of white light emission and energy transfer in Dy3+ and Tm3+ co-doped LiNbO3 single crystals. Journal of Luminescence, 2017, 192, 728-733.	3.1	20
94	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
95	Near-infrared luminescent lanthanide (Er, Nd) complexes covalently bonded to a terpyridine-functionalized silica matrix. Photochemical and Photobiological Sciences, 2007, 6, 519.	2.9	19
96	Phenomenological theory of 1â€“3 type multiferroic composite thin film: thickness effect. Journal Physics D: Applied Physics, 2009, 42, 015309.	2.8	19
97	A new layer compound Nb₄SiC₃predicted from first-principles theory. Journal Physics D: Applied Physics, 2009, 42, 075404.	2.8	19
98	Evaluation of the structural integrity of the CPR1000 PWR containment under steam explosion accidents. Nuclear Engineering and Design, 2014, 278, 632-643.	1.7	19
99	Effects of light on quantum phases and topological properties of two-dimensional Metal-organic frameworks. Scientific Reports, 2017, 7, 41644.	3.3	19
100	A two-dimensional experimental investigation on debris bed formation behavior. Progress in Nuclear Energy, 2017, 96, 118-132.	2.9	19
101	Ultra-broadband and highly responsive photodetectors based on a novel EuBiTe₃flake material at room temperature. Journal of Materials Chemistry C, 2018, 6, 713-716.	5.5	19
102	Fracture behavior of TBCs with cooling hole structure under cyclic thermal loadings. Ceramics International, 2020, 46, 3644-3654.	4.8	19
103	First-principles calculation of twin boundary energy and strength/embrittlement in hexagonal close-packed titanium. Materials and Design, 2022, 213, 110331.	7.0	19
104	Piezoelectric bending response and switching behavior of ferroelectric/paraelectric bilayers. Acta Materialia, 2008, 56, 479-488.	7.9	18
105	The behavior of two parallel interface cracks in magnetoâ€“electroâ€“elastic materials under an anti-plane shear stress loading. Composite Structures, 2007, 77, 97-103.	5.8	17
106	Finite element simulation of phase field model for nanoscale martensitic transformation. Computational Mechanics, 2013, 52, 949-958.	4.0	17
107	Theoretical Methods of Domain Structures in Ultrathin Ferroelectric Films: A Review. Materials, 2014, 7, 6502-6568.	2.9	17
108	Structural responses of cells to intracellular magnetic force induced by superparamagnetic iron oxide nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 1914-1920.	2.8	17

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109	Multiview three-dimensional display with continuous motion parallax through planar aligned OLED microdisplays. Optics Express, 2015, 23, 6007.	3.4	17
110	Association of elevated reactive oxygen species and hyperthermia induced radiosensitivity in cancer stem-like cells. Oncotarget, 2017, 8, 101560-101571.	1.8	17
111	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
112	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
113	Material Strength: A Rational Nonequilibrium Energy Model for Complex Loadings. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	17
114	Effect of Mn Substitution for Fe in Multiferroic BiFeO₃: A First-Principles Study. Science of Advanced Materials, 2010, 2, 184-189.	0.7	17
115	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
116	Effective Behavior of Piezoelectric Composites. Applied Mechanics Reviews, 1994, 47, S112-S121.	10.1	16
117	Influence of applied electric field on the energy release rate for cracked PZT/elastic laminates. Smart Materials and Structures, 2001, 10, 970-978.	3.5	16
118	Growth and photorefractive properties of Zn, Fe double-doped LiTaO3 crystal. Optical Materials, 2006, 28, 207-211.	3.6	16
119	Dynamic behavior of two collinear interface cracks between two dissimilar functionally graded piezoelectric/piezomagnetic material strips. Applied Mathematics and Mechanics (English Edition), 2007, 28, 615-625.	3.6	16
120	Generation of radially polarized beams based on thermal analysis of a working cavity. Optics Express, 2011, 19, 18302.	3.4	16
121	First-principles calculations of size-dependent giant electroresistance effect in nanoscale asymmetric ferroelectric tunnel junctions. Journal of Applied Physics, 2012, 111, 074102.	2.5	16
122	Uncooled EuSbTe ₃ photodetector highly sensitive from ultraviolet to terahertz frequencies. 2D Materials, 2018, 5, 011008.	4.4	16
123	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
124	Benefit or harm of accident tolerant coatings on the low-cycle fatigue properties of Zr-4 cladding alloy: in-situ studies at 400Â°C. Journal of Nuclear Materials, 2021, 545, 152651.	2.7	16
125	Optical thermometry based on thermolabile intrinsic polarons in Tm3+ and Yb3+ co-doped congruent lithium niobate single crystal. Journal of Alloys and Compounds, 2021, 867, 158986.	5.5	16
126	Bifunctional RbBiNb2O7/poly(tetrafluoroethylene) for high-efficiency piezocatalytic hydrogen and hydrogen peroxide production from pure water. Chemical Engineering Journal, 2022, 446, 136958.	12.7	16

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127	Two collinear anti-plane shear cracks in a piezoelectric layer bonded to dissimilar half spaces. European Journal of Mechanics, A/Solids, 2001, 20, 213-226.	3.7	15
128	Effect of Li/Nb ratio on growth and photorefractive properties of Ce:Fe:LiNbO3 crystals. Optical Materials, 2003, 23, 305-308.	3.6	15
129	First-principles study of the ideal cleavage fracture of Cr2Nb microalloyed by X (Al, Ni, Co, Ti). Intermetallics, 2009, 17, 394-399.	3.9	15
130	Impact of applied strain on the electron transport through ferroelectric tunnel junctions. Applied Physics Letters, 2010, 97, 012905.	3.3	15
131	Strong 1550 nm to visible luminescence in In/Er/Yb:LiNbO3 crystal considered as an upconverter for solar cells. RSC Advances, 2014, 4, 6652.	3.6	15
132	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
133	Theoretical study of the effects of alloying elements on Cu nanotwins. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	15
134	Dynamical modelling of the chain structure formation in electrorheological fluids. International Journal of Engineering Science, 2001, 39, 453-475.	5.0	14
135	The order of transition of a ferroelectric thin film on a compliant substrate. Acta Materialia, 2004, 52, 5639-5644.	7.9	14
136	Dynamic behavior of two parallel symmetry cracks in magneto-electro-elastic composites under harmonic anti-plane waves. Applied Mathematics and Mechanics (English Edition), 2006, 27, 583-591.	3.6	14
137	Giant piezoelectric resistance effect of nanoscale zinc oxide tunnel junctions: first principles simulations. Physical Chemistry Chemical Physics, 2012, 14, 7051.	2.8	14
138	Investigation of optical photorefractive properties of Zr:Fe:LiNbO3 crystals. Optics and Laser Technology, 2012, 44, 337-340.	4.6	14
139	Mechanical characteristics of human red blood cell membrane change due to C60 nanoparticle infiltration. Physical Chemistry Chemical Physics, 2013, 15, 2473.	2.8	14
140	Torsion-induced vortex switching and skyrmion-like state in ferroelectric nanodisks. Journal of Physics Condensed Matter, 2018, 30, 465304.	1.8	14
141	On the mechanisms of tip-force induced switching in ferroelectric thin films: the crossover of depolarization, shear strain and flexoelectricity. Journal of Physics Condensed Matter, 2019, 31, 145701.	1.8	14
142	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
143	Data-driven computational prediction and experimental realization of exotic perovskite-related polar magnets. Npj Quantum Materials, 2020, 5, .	5.2	14
144	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

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145	Mechanical and electronic properties of CeO2 under uniaxial tensile loading: A DFT study. Materialia, 2021, 15, 101050.	2.7	14
146	The dendrite growth, morphology control and deposition properties of uranium electrorefining. Journal of Nuclear Materials, 2021, 555, 153110.	2.7	14
147	Critical thickness for dislocation generation in epitaxial piezoelectric thin films. Philosophical Magazine, 2003, 83, 3753-3764.	1.6	13
148	Investigation of the interaction of two collinear cracks in anisotropic elasticity materials by means of the nonlocal theory. International Journal of Engineering Science, 2005, 43, 1107-1120.	5.0	13
149	Critical phase transition temperatures of 1â€“3 type multiferroic composite thin films. Journal Physics D: Applied Physics, 2007, 40, 1614-1619.	2.8	13
150	High pressure effect on phase transition behavior of lipid bilayers. Physical Chemistry Chemical Physics, 2012, 14, 5744.	2.8	13
151	Improvement of pyroelectric figures of merit in zirconia-doped congruent lithium niobate single crystals. Journal of Materials Science, 2016, 51, 3155-3161.	3.7	13
152	Title is missing!. International Journal of Fracture, 2001, 111, 105-117.	2.2	12
153	An Interface Crack for a Functionally Graded Strip Sandwiched Between Two Homogeneous Layers of Finite Thickness. Meccanica, 2006, 41, 79-99.	2.0	12
154	Estimation of the elasto-plastic properties of metallic materials from micro-hardness measurements. Journal of Materials Science, 2013, 48, 4446-4451.	3.7	12
155	Pinning effects of dislocations on vortex domain structure in ferroelectric nanodots. Applied Physics Letters, 2014, 104, .	3.3	12
156	Investigation of reaction conditions on synthesis of UO2.34 and UO2 via hydrothermal route. Journal of Radioanalytical and Nuclear Chemistry, 2017, 313, 229-237.	1.5	12
157	The homogeneous and Lagrangian tracking approaches of the spray simulation in the containment. Annals of Nuclear Energy, 2017, 101, 203-214.	1.8	12
158	In-situ detection of convection and rotation striations by growth interface electromotive force spectrum. Journal of Crystal Growth, 2018, 487, 120-125.	1.5	12
159	Tight-binding piezoelectric theory and electromechanical coupling correlations for transition metal dichalcogenide monolayers. Physical Review B, 2018, 98, .	3.2	12
160	Stability of 180Â° domain in ferroelectric thin films. Journal of Applied Physics, 2003, 94, 610-617.	2.5	11
161	Effect of UV light on multiplexing holograms in near-stoichiometric LiNbO3:Ce:Fe. Optics Communications, 2004, 241, 293-298.	2.1	11
162	Growth and photorefractive properties of an Fe-doped near-stoichiometric LiNbO3crystal. Journal Physics D: Applied Physics, 2005, 38, 2013-2016.	2.8	11

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163	First-principle study of ferroelectricity in PbTiO3/SrTiO3 superlattices. Solid-State Electronics, 2006, 50, 1756-1760.	1.4	11
164	Non-Local Theory Solution for an Anti-Plane Shear Permeable Crack in Functionally Graded Piezoelectric Materials. Applied Composite Materials, 2006, 13, 345-367.	2.5	11
165	Controlling dielectric and pyroelectric properties of compositionally graded ferroelectric rods by an applied pressure. Journal of Applied Physics, 2007, 101, 116103.	2.5	11
166	First-principles studies on the electronic and optical properties of CeCl3 and CeBr3. Solid State Communications, 2007, 144, 220-224.	1.9	11
167	Simulation of characteristics of phase transitions in ferroelectric thin films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 117-124.	2.1	11
168	Ab initio study on mechanical-bending-induced ferroelectric phase transition in ultrathin perovskite nanobelts. Acta Materialia, 2014, 76, 472-481.	7.9	11
169	Structure-dependent electrical conductivity of protein: its differences between alpha-domain and beta-domain structures. Nanotechnology, 2015, 26, 125702.	2.6	11
170	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
171	An existence criterion for low-dimensional materials. Journal of the Mechanics and Physics of Solids, 2017, 107, 451-468.	4.8	11
172	Prediction of theoretical strength of diamond under complex loadings. Extreme Mechanics Letters, 2021, 44, 101233.	4.1	11
173	Title is missing!. Meccanica, 2000, 35, 443-456.	2.0	10
174	On the dynamic growth of a 180Â° domain in a ferroelectric material. Journal of Applied Physics, 2000, 88, 1464-1472.	2.5	10
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