Zhigao Hu

List of Publications by Year
in descending order

192 papers	3,861 citations	136740 32 h-index	205818 48 g-index
193 all docs	193 docs citations	193 times ranked	5117 citing authors

#	Article	IF	Citations
1	WS2-decorated ZnO nanorods and enhanced ultraviolet emission. Materials Letters, 2022, 306, 130880.	1.3	6
2	A novel composite of SnO nanoparticles and SiO2@N-doped carbon nanofibers with durable lifespan for diffusion-controlled lithium storage. Journal of Alloys and Compounds, 2022, 897, 162703.	2.8	10
3	Embedded Double Oneâ€Dimensional Composites of WO 3 @Nâ€Doped Carbon Nanofibers for Superior and Stabilized Lithium Storage. ChemElectroChem, 2022, 9, .	1.7	2
4	Designing Monoclinic Heterophase Coexistence for the Enhanced Piezoelectric Performance in Ternary Lead-Based Relaxor Ferroelectrics. ACS Applied Materials & Interfaces, 2022, 14, 10535-10545.	4.0	2
5	Applications of Nickelâ€Based Electrocatalysts for Hydrogen Evolution Reaction. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	17
6	Phase change behavior improvement of Sb2Te3 films by Si doping: Raman scattering evidence at elevated temperatures. AIP Advances, 2022, 12, .	0.6	2
7	High Quality P-Type Mg-Doped Î²-Ga₂O_{3â€“Î´} Films for Solar-Blind Photodetectors. IEEE Electron Device Letters, 2022, 43, 580-583.	2.2	13
8	Tunable Multiâ€Bit Nonvolatile Memory Based on Ferroelectric Fieldâ€Effect Transistors. Advanced Electronic Materials, 2022, 8, .	2.6	7
9	Ultrabroadband Tellurium Photoelectric Detector from Visible to Millimeter Wave. Advanced Science, 2022, 9, e2103873.	5.6	25
10	2D Transition Metal Dichalcogenide with Increased Entropy for Piezoelectric Electronics. Advanced Materials, 2022, 34, e2201630.	11.1	15
11	Simultaneously achieving large energy density and high efficiency in NaNbO₃â€“(Sr,Bi)TiO₃â€“Bi(Mg,Zr)O₃ relaxor ferroelectric ceramics for dielectric capacitor applications. Journal of Materials Chemistry A, 2022, 10, 13907-13916.	5.2	23
12	Significantly enhanced lithium storage by in situ grown CoS2@MoS2 coreâ€“shell nanorods anchored on carbon cloth. Chemical Engineering Journal, 2021, 420, 127714.	6.6	33
13	Influence of CsPbBr3/TiO2 interfaces deposited with magnetron sputtering and spin-coating methods on the open voltage deficit and efficiency of all-inorganic CsPbBr3 planar solar cells. Journal of Alloys and Compounds, 2021, 860, 157900.	2.8	9
14	Flux periodic oscillations and phase-coherent transport in GeTe nanowire-based devices. Nature Communications, 2021, 12, 754.	5.8	6
15	Auâ€Decorated ZnO Nanorod Powder and Its Application in Photodegradation of Organic Pollutants in the Visible Region. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000737.	0.8	6
16	Asymmetric Au Electrodes-Induced Self-Powered Organicâ€“Inorganic Perovskite Photodetectors. IEEE Transactions on Electron Devices, 2021, 68, 1149-1154.	1.6	8
17	Blackbody-sensitive room-temperature infrared photodetectors based on low-dimensional tellurium grown by chemical vapor deposition. Science Advances, 2021, 7, .	4.7	121
18	CuO: Synthesis in a Highly Excited Oxygen-Copper Plasma and Decoration of ZnO Nanorods for Enhanced Photocatalysis. Journal of Physical Chemistry C, 2021, 125, 9119-9128.	1.5	11

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19	Passivated Emitter and Rear Cell Silicon Solar Cells with a Front Polysilicon Passivating Contacted Selective Emitter. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100057.	1.2	4
20	Unipolar barrier photodetectors based on van der Waals heterostructures. Nature Electronics, 2021, 4, 357-363.	13.1	292
21	Carrier-capture-assisted optoelectronics based on van der Waals materials to imitate medicine-acting metaplasticity. Npj 2D Materials and Applications, 2021, 5, .	3.9	7
22	ZnS Covering of ZnO Nanorods for Enhancing UV Emission from ZnO. Journal of Physical Chemistry C, 2021, 125, 13732-13740.	1.5	9
23	In situ Raman scattering studies of pressure-temperature phase diagrams in antiferroelectric xCaSnO3-modified NaNbO3 ceramics. Applied Physics Letters, 2021, 119, .	1.5	6
24	Flexible Organic Thin-Film Transistors With High Mechanical Stability on Polyimide Substrate by Chemically Plated Silver Electrodes. IEEE Transactions on Electron Devices, 2021, 68, 5120-5126.	1.6	7
25	Flexo-photoelectronic effect in n-type/p-type two-dimensional semiconductors and a deriving light-stimulated artificial synapse. Materials Horizons, 2021, 8, 1985-1997.	6.4	16
26	Optically Modulated HfS₂-Based Synapses for Artificial Vision Systems. ACS Applied Materials & Interfaces, 2021, 13, 50132-50140.	4.0	17
27	High Conductance Margin for Efficient Neuromorphic Computing Enabled by Stacking Nonvolatile van der Waals Transistors. Physical Review Applied, 2021, 16, .	1.5	8
28	Phase diagram with an antiferroelectric/ferroelectric phase boundary in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>AgNbO</mml:mi><mml:mn>3</mml:mn></mml:mn></r energy-storage ceramics by lattice dynamics and electronic transitions. Physical Review B, 2021, 104, .	1.1	12
29	Strain and electric field tunable electronic and optical properties in antimonene/C3N van der Waals heterostructure. Solid State Sciences, 2021, 122, 106771.	1.5	9
30	Thermal Conductivity of Large-Area Polycrystalline MoSe2 Films Grown by Chemical Vapor Deposition. ACS Omega, 2021, 6, 30526-30533.	1.6	1
31	Structural, Electronic Band Transition and Optoelectronic Properties of p-Type Transparent Conductive CuCr_{1â€“x}Ni_xO₂ Semiconductor Films. Journal of Physical Chemistry C, 2021, 125, 26139-26149.	1.5	3
32	Feasible Way to Achieve Multifunctional (K, Na)NbO₃-Based Ceramics: Controlling Long-Range Ferroelectric Ordering. ACS Applied Materials & Interfaces, 2021, 13, 60227-60240.	4.0	9
33	Enhancement effects of interlayer orbital hybridization in Janus MoSSe and tellurene heterostructures for photovoltaic applications. Physical Review Materials, 2021, 5, .	0.9	9
34	Two-dimensional mesoporous sensing materials. Chinese Chemical Letters, 2020, 31, 521-524.	4.8	15
35	Controllable fabrication of Bi2O3 nanoparticles by atomic layer deposition on TiO2 films and application in photodegradation. Solar Energy Materials and Solar Cells, 2020, 204, 110218.	3.0	11
36	Ferroelectric and dipole control of band alignment in the two dimensional InTe/In₂Se₃ heterostructure. Journal of Physics Condensed Matter, 2020, 32, 055703.	0.7	19

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37	Robust three-dimensional porous rGO aerogel anchored with ultra-fine Î±-Fe2O3 nanoparticles exhibit dominated pseudocapacitance behavior for superior lithium storage. Journal of Alloys and Compounds, 2020, 816, 152627.	2.8	25
38	Effects of composition and temperature on the exciton emission behaviors of Mo(S<sub> x) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2020, 31, 155703.	1.3	7
39	A type-II GaSe/GeS heterobilayer with strain enhanced photovoltaic properties and external electric field effects. Journal of Materials Chemistry C, 2020, 8, 89-97.	2.7	42
40	A novel Sn particles coated composite of SnO /ZnO and N-doped carbon nanofibers as high-capacity and cycle-stable anode for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 819, 153036.	2.8	34
41	Airâ€Stable Lowâ€Symmetry Narrowâ€Bandgap 2D Sulfide Niobium for Polarization Photodetection. Advanced Materials, 2020, 32, e2005037.	11.1	68
42	Phase transition of Bi5Ti3FeO15 ceramics discovered by Raman spectroscopy and in situ synchrotron XRD under stress field. Applied Physics Letters, 2020, 117, .	1.5	6
43	New Pressure Stabilization Structure in Two-Dimensional PtSe₂. Journal of Physical Chemistry Letters, 2020, 11, 7342-7349.	2.1	15
44	Ferroelectric-Modulated MoS₂ Field-Effect Transistors as Multilevel Nonvolatile Memory. ACS Applied Materials & Interfaces, 2020, 12, 44902-44911.	4.0	13
45	Temperature-dependent phonon mode and interband electronic transition evolutions of Îµ-InSe films derived by pulsed laser deposition. Applied Physics Letters, 2020, 117, 102101.	1.5	2
46	Phase transitions and phonon thermodynamics in giant piezoelectric Mn-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi>Na</mml:m crystals studied b. Physical Review B, 2020, 102, .	1.1	23
47	Lattice vibration characteristics in layered InSe films and the electronic behavior of field-effect transistors. Nanotechnology, 2020, 31, 335702.	1.3	3
48	Pâ€“N conversion of charge carrier types and high photoresponsive performance of composition modulated ternary alloy W(SxSe1â^'x)2 field-effect transistors. Nanoscale, 2020, 12, 15304-15317.	2.8	12
49	Efficient carbon-based planar CsPbBr3 perovskite solar cells with Li-doped amorphous Nb2O5 layer. Journal of Alloys and Compounds, 2020, 842, 155984.	2.8	21
50	Mixed-Dimensional Van der Waals Heterostructure Photodetector. ACS Applied Materials & Interfaces, 2020, 12, 18674-18682.	4.0	26
51	Enhanced carrier separation in ferroelectric In₂Se₃/MoS₂ van der Waals heterostructure. Journal of Materials Chemistry C, 2020, 8, 11160-11167.	2.7	44
52	Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>GdFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></m : Evidence from Raman scattering. Physical Review B, 2020, 102, .	1.1	16
53	Proximityâ€Effectâ€Induced Superconductivity in Nb/Sb 2 Te 3 â€Nanoribbon/Nb Junctions. Annalen Der Physik, 2020, 532, 2000273.	0.9	5
54	High Responsivity and External Quantum Efficiency Photodetectors Based on Solution-Processed Ni-Doped CuO Films. ACS Applied Materials & Interfaces, 2020, 12, 11797-11805.	4.0	51

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55	Strong charge-density-wave order of large-area 2D metallic VSe2 nanosheets discovered by temperature-dependent Raman spectra. Applied Physics Letters, 2020, 116, 033102.	1.5	11
56	Enhanced photovoltaic response of lead-free ferroelectric solar cells based on (K,Bi)(Nb,Yb)O₃ films. Physical Chemistry Chemical Physics, 2020, 22, 3691-3701.	1.3	17
57	Large Enhancement and Its Mechanism of Ultraviolet Emission from ZnO Nanorod Arrays at Room and Low Temperatures by Covering with Ti Coatings. Journal of Physical Chemistry C, 2020, 124, 4827-4834.	1.5	6
58	Transition-Metal Substitution-Induced Lattice Strain and Electrical Polarity Reversal in Monolayer WS₂. ACS Applied Materials & Interfaces, 2020, 12, 18650-18659.	4.0	20
59	Sandwiched CdS/Au/ZnO Nanorods with Enhanced Ultraviolet and Visible Photochemical and Photoelectrochemical Properties via Semiconductor and Metal Cosensitizing. Journal of Physical Chemistry C, 2020, 124, 10941-10950.	1.5	13
60	PLD-derived Ge2Sb2Te5 phase-change films with extreme bending stability for flexible device applications. Applied Physics Letters, 2020, 116, .	1.5	7
61	Superior and Reversible Lithium Storage of SnO₂/Graphene Composites by Silicon Doping and Carbon Sealing. ACS Applied Materials & Interfaces, 2020, 12, 20824-20837.	4.0	33
62	Raman scattering measurements of phonon anharmonicity in the delafossite CuGa 1â€•x Cr x O 2 (0 â‰¤ x â‰¤) Tj ETQq0 0 0 rgBT /Over	1.2	6
63	Constructing polymers towards ultrathin nanosheets with dual mesopores and intrinsic photoactivity. Chemical Communications, 2020, 56, 3191-3194.	2.2	7
64	Three-dimensional porous Co₃O₄â€“CoO@GO composite combined with N-doped carbon for superior lithium storage. Nanotechnology, 2019, 30, 425404.	1.3	13
65	Exploring lattice symmetry evolution with discontinuous phase transition by Raman scattering criteria: The single-crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi) Tj ETQq1 1 0.784314 model system. Physical Review B, 2019, 100, .	1.1	9
66	Self-assembly of a lateral quasi-Ohmic CuInSe2/InSe isotype heterojunction for flexible devices by pulsed laser deposition. Applied Physics Letters, 2019, 115, .	1.5	8
67	Probing Effective Outâ€ofâ€Plane Piezoelectricity in van der Waals Layered Materials Induced by Flexoelectricity. Small, 2019, 15, e1903106.	5.2	29
68	Largeâ€Scale Growth and Fieldâ€Effect Transistors Electrical Engineering of Atomicâ€Layer SnS₂. Small, 2019, 15, e1904116.	5.2	58
69	Exploration of a Ca1â^'x(NaCe)x/2Bi4Ti3.98(WNb)0.01O15 ceramic intermediate phase by temperature-dependent spectroscopic ellipsometry and Raman scattering. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 061211.	0.6	0
70	2D Materials: Probing Effective Outâ€ofâ€Plane Piezoelectricity in van der Waals Layered Materials Induced by Flexoelectricity (Small 46/2019). Small, 2019, 15, 1970250.	5.2	0
71	Composition Dependence of Optical Properties and Band Structures in p-Type Ni-Doped CuO Films: Spectroscopic Experiment and First-Principles Calculation. Journal of Physical Chemistry C, 2019, 123, 27165-27171.	1.5	15
72	InN superconducting phase transition. Scientific Reports, 2019, 9, 12309.	1.6	3

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73	Enhanced performance of carbon-based planar CsPbBr3 perovskite solar cells with room-temperature sputtered Nb2O5 electron transport layer. Solar Energy, 2019, 191, 263-271.	2.9	37
74	Electric-Double-Layer Oriented Field-Screening Effect on High-Resolution Electromechanical Imaging in Conductive Solutions. Physical Review Applied, 2019, 12, .	1.5	1
75	Static characteristics of CMOS digital circuit based on transition metal dichalcogenide transistors. AIP Advances, 2019, 9, 085031.	0.6	0
76	Annealing effects on sulfur vacancies and electronic transport of MoS2 films grown by pulsed-laser deposition. Applied Physics Letters, 2019, 115, .	1.5	16
77	Probing Nanoscale Electromechanical Behaviors of Relaxor Ferroelectrics in Highly Conductive Liquid Environments. Physical Review Applied, 2019, 11, .	1.5	1
78	Probing electromechanical behaviors by datacube piezoresponse force microscopy in ambient and aqueous environments. Nanotechnology, 2019, 30, 235701.	1.3	9
79	Efficient and Holeâ€Transportingâ€Layerâ€Free CsPbI 2 Br Planar Heterojunction Perovskite Solar Cells through Rubidium Passivation. ChemSusChem, 2019, 12, 960-960.	3.6	1
80	Annealing time modulated the film microstructures and electrical properties of P-type CuO field effect transistors. Applied Surface Science, 2019, 481, 632-636.	3.1	24
81	Electronic bandgap manipulation of monolayer WS2 by vertically coupled insulated Mg(OH)2 layers. Journal of Alloys and Compounds, 2019, 785, 156-162.	2.8	3
82	Decoding Phases of Matter by Machine-Learning Raman Spectroscopy. Physical Review Applied, 2019, 12, .	1.5	17
83	Efficient and Holeâ€Transportingâ€Layerâ€Free CsPbI₂Br Planar Heterojunction Perovskite Solar Cells through Rubidium Passivation. ChemSusChem, 2019, 12, 983-989.	3.6	79
84	Pseudocapacitive Li-ion storage boosts high-capacity and long-life performance in multi-layer CoFe2O4/rGO/C composite. Nanotechnology, 2019, 30, 045401.	1.3	3
85	Preparation and characterization of narrow bandgap ferroelectric (K,Ba)(Ni,Nb)O_{3â^'Î´} films for mesoporous all-oxide solar cells. New Journal of Physics, 2019, 21, 013011.	1.2	5
86	Precursor solution temperature dependence of the optical constants, band gap and Urbach tail in organicâ€“inorganic hybrid halide perovskite films. Journal Physics D: Applied Physics, 2019, 52, 045103.	1.3	8
87	Electrical characteristics and carrier injection mechanisms of atomic layer deposition synthesized n-SnO₂/p-Si heterojunction. Materials Research Express, 2019, 6, 035909.	0.8	8
88	Free-anchored Nb₂O₅@graphene networks for ultrafast-stable lithium storage. Nanotechnology, 2018, 29, 185401.	1.3	17
89	Cover Picture: Plasma Process. Polym. 1â•2018. Plasma Processes and Polymers, 2018, 15, 1870003.	1.6	0
90	Carbonized polydopamine wrapping layered KNb3O8 nanoflakes based on alkaline hydrothermal for enhanced and discrepant lithium storage. Journal of Alloys and Compounds, 2018, 749, 803-810.	2.8	6

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91	Interface Modification for Planar Perovskite Solar Cell Using Room-Temperature Deposited Nb₂O₅ as Electron Transportation Layer. ACS Applied Energy Materials, 2018, 1, 2000-2006.	2.5	41
92	High-capacity and long-life lithium storage boosted by pseudocapacitance in three-dimensional MnOâ€“Cuâ€“CNT/graphene anodes. Nanoscale, 2018, 10, 2944-2954.	2.8	28
93	Lattice dynamics, phase transition, and tunable fundamental band gap of photovoltaic (K,Ba)(Ni,Nb) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>â^’</mml:mo><mml:mi>Î´</mml:mi></mml:mrow> ceramics from spectral measurements and first-principles calculations. Physical Review B, 2018, 97, .	1.1	8
94	Blue luminescent amorphous carbon nanoparticles synthesized by microplasma processing of folic acid. Plasma Processes and Polymers, 2018, 15, 1700088.	1.6	16
95	In situ carbon encapsulation of vertical MoS₂ arrays with SnO₂ for durable high rate lithium storage: dominant pseudocapacitive behavior. Nanoscale, 2018, 10, 741-751.	2.8	41
96	Interlayer coupling and the phase transition mechanism of stacked MoS₂/TaS₂ heterostructures discovered using temperature dependent Raman and photoluminescence spectroscopy. RSC Advances, 2018, 8, 21968-21974.	1.7	9
97	Temperature Dependence of Phonon Modes, Optical Constants, and Optical Band Gap in Two-Dimensional ReS2 Films. Journal of Physical Chemistry C, 2018, 122, 29464-29469.	1.5	15
98	Difference analysis model for the mismatch effect and substrate-induced lattice deformation in atomically thin materials. Physical Review B, 2018, 98, .	1.1	7
99	Origin of Improved Photoelectrochemical Water Splitting in Mixed Perovskite Oxides. Advanced Energy Materials, 2018, 8, 1801972.	10.2	22
100	Phonon behaviors and dielectric functions in Bi 0.5 Na 0.5 TiO 3 â€based ceramics by Raman scattering and optical ellipsometry. Journal of the American Ceramic Society, 2018, 102, 2791.	1.9	11
101	In situ exploration of the thermodynamic evolution properties in the type II interface from the WSe₂â€“WS₂ lateral heterojunction. Nanotechnology, 2018, 29, 435703.	1.3	7
102	Full three-dimensional morphology evolution of amorphous thin films for atomic layer deposition. AIP Advances, 2018, 8, .	0.6	10
103	Facile fabrication of 3D porous MnO@GS/CNT architecture as advanced anode materials for high-performance lithium-ion battery. Nanotechnology, 2018, 29, 315403.	1.3	11
104	Enhanced exciton emission behavior and tunable band gap of ternary W(S_xSe_{1â^’x})₂ monolayer: temperature dependent optical evidence and first-principles calculations. Nanoscale, 2018, 10, 11553-11563.	2.8	12
105	Controllable interlayer space effects of layered potassium triniobate nanoflakes on enhanced pH dependent adsorption-photocatalysis behaviors. Scientific Reports, 2018, 8, 6616.	1.6	8
106	Manipulating Behaviors from Heavy Tungsten Doping on Interband Electronic Transition and Orbital Structure Variation of Vanadium Dioxide Films. ACS Applied Materials & Interfaces, 2018, 10, 30548-30557.	4.0	20
107	Highly durable and cycle-stable lithium storage based on MnO nanoparticle-decorated 3D interconnected CNT/graphene architecture. Nanoscale, 2018, 10, 13140-13148.	2.8	40
108	10.1063/1.5025008.1. , 2018, , .		0

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109	Direct Observation of Landau Level Resonance and Mass Generation in Dirac Semimetal Cd₃As₂ Thin Films. Nano Letters, 2017, 17, 2211-2219.	4.5	40
110	Superior adsorption and photoinduced carries transfer behaviors of dandelion-shaped Bi2S3@MoS2: experiments and theory. Scientific Reports, 2017, 7, 42484.	1.6	52
111	Lowâ€temperature sintering and electrical properties of Sr₂Nb₂O₇ piezoceramics by CuO addition. Journal of the American Ceramic Society, 2017, 100, 2397-2401.	1.9	16
112	Localized states evolution and nitrides separation before crystallization in nitrogen incorporated GeTe: Evidence from ellipsometric spectra. Applied Physics Letters, 2017, 110, 161906.	1.5	5
113	In Situ Exploration of Thermal-Induced Domain Evolution with Phase Transition in LiNbO₃-Modified K_{0.5}Na_{0.5}NbO₃ Single Crystal. Journal of Physical Chemistry C, 2017, 121, 14322-14329.	1.5	9
114	Tuning Coupling Behavior of Stacked Heterostructures Based on MoS2, WS2, and WSe2. Scientific Reports, 2017, 7, 44712.	1.6	56
115	Electronic transitions of the transparent delafossite-type CuGa_{1â^'x}Cr_xO₂ system: first-principles calculations and temperature-dependent spectral experiments. Journal of Materials Chemistry C, 2017, 5, 183-191.	2.7	14
116	Influence of composition on structure, morphology and dielectric properties of BixAlyOz composite films synthesized by atomic layer deposition. AIP Advances, 2017, 7, 045120.	0.6	0
117	Copper ferrites@reduced graphene oxide anode materials for advanced lithium storage applications. Scientific Reports, 2017, 7, 8903.	1.6	62
118	Vapomechanically Responsive Motion of Microchannelâ€Programmed Actuators. Advanced Materials, 2017, 29, 1702231.	11.1	138
119	Evaluation of lattice dynamics, infrared optical properties and visible emissions of hexagonal GeO₂ films prepared by liquid phase deposition. Journal of Materials Chemistry C, 2017, 5, 12792-12799.	2.7	11
120	Boosted adsorptionâ€“photocatalytic activities and potential lithium intercalation applications of layered potassium hexaniobate nano-family. RSC Advances, 2017, 7, 28105-28113.	1.7	6
121	Effects of deposition methods and processing techniques on band gap, interband electronic transitions, and optical absorption in perovskite CH3NH3PbI3 films. Applied Physics Letters, 2017, 111, .	1.5	10
122	The electro-optic mechanism and infrared switching dynamic of the hybrid multilayer VO2/Al:ZnO heterojunctions. Scientific Reports, 2017, 7, 4425.	1.6	20
123	Structure evolution mechanism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mrow><mml:mn>0.5</mml:mn> mathvariant="normal">W</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mr. Physical Review B, 2017, 96, .	1.1	12
124	Coexistence of Ferroelectric Phases and Phonon Dynamics in Relaxor Ferroelectric Na_{0.5}Bi_{0.5}TiO₃ Based Single Crystals. Journal of the American Ceramic Society, 2016, 99, 2408-2414.	1.9	20
125	Optical evidences for an intermediate phase in relaxor ferroelectric Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3single crystals. AIP Advances, 2016, 6, 025106.	0.6	1
126	Enhanced Crystallization Behaviors of Silicon-Doped Sb2Te Films: Optical Evidences. Scientific Reports, 2016, 6, 33639.	1.6	17

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127	Enhanced Photoelectrochemical Activity of ZnO-Coated TiO2 Nanotubes and Its Dependence on ZnO Coating Thickness. Nanoscale Research Letters, 2016, 11, 104.	3.1	35
128	A novel technique for probing phase transitions in ferroelectric functional materials: Condensed matter spectroscopy. Science China Technological Sciences, 2016, 59, 1537-1548.	2.0	1
129	Lattice Dynamics, Dielectric Constants, and Phase Diagram of Bismuth Layered Ferroelectric Bi₃Ti_{1â^'x}W_xNbO_{9+Î´} Ceramics. Journal of the American Ceramic Society, 2016, 99, 3610-3615.	1.9	9
130	Spin-manipulated phonon dynamics during magnetic phase transitions in triangular lattice antiferromagnet CuCr_{1â^'x}Mg_xO₂ semiconductor films. RSC Advances, 2016, 6, 27136-27142.	1.7	8
131	Relationship between negative thermal expansion and lattice dynamics in a tetragonal PbTiO₃â€“Bi(Mg_{1/2}Ti_{1/2})O₃ perovskite single crystal. RSC Advances, 2016, 6, 3159-3164.	1.7	13
132	Spectral assignments in the infrared absorption region and anomalous thermal hysteresis in the interband electronic transition of vanadium dioxide films. Physical Chemistry Chemical Physics, 2016, 18, 6239-6246.	1.3	13
133	Dramatic influence of Dy3+ doping on strain and domain structure in lead-free piezoelectric 0.935(Na1/2Bi1/2)TiO3â^'0.065BaTiO3 ceramics. AIP Advances, 2015, 5, 127118.	0.6	2
134	Thermotropic phase transitions in Pb1â^'xSrx(Al1/3Nb2/3)0.1(Zr0.52Ti0.48)0.9O3 ceramics: Temperature dependent dielectric permittivity and Raman scattering. AIP Advances, 2015, 5, 067122.	0.6	1
135	Effects of crystal orientation on electronic band structure and anomalous shift of higher critical point in VO₂ thin films during the phase transition process. Journal Physics D: Applied Physics, 2015, 48, 485302.	1.3	4
136	Optoelectronic properties and polar nano-domain behavior of solâ€“gel derived K_{0.5}Na_{0.5}Nb_{1â^'x}Mn_xO_{3â^'Î´}nanocrystalline films with enhanced ferroelectricity. Journal of Materials Chemistry C, 2015, 3, 8225-8234.	2.7	33
137	Titanium-induced structure modification for thermal stability enhancement of a GeTeTi phase change material. RSC Advances, 2015, 5, 24966-24974.	1.7	40
138	Manipulations from oxygen partial pressure on the higher energy electronic transition and dielectric function of VO₂ films during a metalâ€“insulator transition process. Journal of Materials Chemistry C, 2015, 3, 5033-5040.	2.7	33
139	Intrinsic evolutions of dielectric function and electronic transition in tungsten doping Ge2Sb2Te5 phase change films discovered by ellipsometry at elevated temperatures. Applied Physics Letters, 2015, 106, .	1.5	19
140	Temperature-dependent lattice dynamics and electronic transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>0.93</mml:mn><mml:mi mathvariant="normal">P</mml:mi><mml:mtext>b</mml:mtext><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mi>Zn</mml:mi><mml:m Physical Review B, 2015, 91, .	1.1	23
141	Structural distortion, phonon behavior and electronic transition of Aurivillius layered ferroelectric CaBi2Nb2â^'W O9 ceramics. Journal of Alloys and Compounds, 2015, 653, 168-174.	2.8	30
142	The intermediate temperature T* revealed in relaxor polymers. Applied Physics Letters, 2014, 104, .	1.5	5
143	Spin-phonon interactions of multiferroic Bi4Ti3O12-BiFeO3 ceramics: Low-temperature Raman scattering and infrared reflectance spectra investigations. Journal of Applied Physics, 2014, 115, .	1.1	22
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