

Tom Wu

List of Publications by Year in descending order

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papers

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4136

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379
all docs

379
docs citations

379
times ranked

32302
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity at 43 K in SmFeAsO _{1-x} F _x . Nature, 2008, 453, 761-762.	13.7	1,580
2	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. Nature Communications, 2015, 6, 7586.	5.8	1,478
3	All-inorganic perovskite nanocrystal scintillators. Nature, 2018, 561, 88-93.	13.7	1,274
4	High-performance photothermal conversion of narrow-bandgap Ti ₂ O ₃ nanoparticles. Advanced Materials, 2017, 29, 1603730.	11.1	766
5	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. ACS Energy Letters, 2016, 1, 32-37.	8.8	752
6	Neutron-Diffraction Measurements of Magnetic Order and a Structural Transition in the Parent BaFe_2As_2 of FeAs-Based High-Temperature Superconductors. Physical Review Letters, 2008, 101, 257003.	2.9	730
7	CH ₃ NH ₃ PbCl ₃ Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. Journal of Physical Chemistry Letters, 2015, 6, 3781-3786.	2.1	636
8	Ambipolar solution-processed hybrid perovskite phototransistors. Nature Communications, 2015, 6, 8238.	5.8	519
9	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In ₂ Se ₃ . Nano Letters, 2018, 18, 1253-1258.	4.5	509
10	Temperature-dependent excitonic photoluminescence of hybrid organometal halide perovskite films. Physical Chemistry Chemical Physics, 2014, 16, 22476-22481.	1.3	447
11	Ferromagnetism in Dilute Magnetic Semiconductors through Defect Engineering: Li-Doped ZnO. Physical Review Letters, 2010, 104, 137201.	2.9	428
12	Heterostructured WS ₂ /CH ₃ NH ₃ PbI ₃ Photoconductors with Suppressed Dark Current and Enhanced Photodetectivity. Advanced Materials, 2016, 28, 3683-3689.	11.1	396
13	Micro-light-emitting diodes with quantum dots in display technology. Light: Science and Applications, 2020, 9, 83.	7.7	394
14	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. Advanced Optical Materials, 2017, 5, 1600704.	3.6	362
15	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. Nanotechnology, 2009, 20, 085203.	1.3	323
16	Gas chromatography-mass spectrometry analyses of encapsulated stable perovskite solar cells. Science, 2020, 368, .	6.0	306
17	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. Advanced Materials, 2016, 28, 3383-3390.	11.1	298
18	Growing Crystalline Chalcogenidoarsenates in Surfactants: From Zero-Dimensional Cluster to Three-Dimensional Framework. Journal of the American Chemical Society, 2013, 135, 1256-1259.	6.6	273

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19	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , 2016, 28, 8144-8149.	11.1	260
20	Electroresistance and Electronic Phase Separation in Mixed-Valent Manganites. <i>Physical Review Letters</i> , 2001, 86, 5998-6001.	2.9	255
21	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , 2018, 9, 5354.	5.8	255
22	Efficient Electrocatalytic Reduction of CO ₂ by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO ₂ Refinery. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7847-7852.	7.2	252
23	Perovskite Oxide SrTiO ₃ as an Efficient Electron Transporter for Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28494-28501.	1.5	251
24	Simple and rapid synthesis of ultrathin gold nanowires, their self-assembly and application in surface-enhanced Raman scattering. <i>Chemical Communications</i> , 2009, , 1984.	2.2	245
25	Low-Symmetry Monoclinic Phases and Polarization Rotation Path Mediated by Epitaxial Strain in Multiferroic BiFeO ₃ Thin Films. <i>Advanced Functional Materials</i> , 2011, 21, 133-138.	7.8	229
26	Correlated d ferromagnetism and photoluminescence in undoped ZnO nanowires. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	226
27	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. <i>Advanced Materials</i> , 2008, 20, 3521-3527.	11.1	211
28	Hotspot-Induced Transformation of Surface-Enhanced Raman Scattering Fingerprints. <i>ACS Nano</i> , 2010, 4, 3087-3094.	7.3	203
29	Nitrogen-Doped Nanoporous Carbon Membranes with Co/CoP Janus-Type Nanocrystals as Hydrogen Evolution Electrode in Both Acidic and Alkaline Environments. <i>ACS Nano</i> , 2017, 11, 4358-4364.	7.3	199
30	Ultrathin Cu ₂ O as an efficient inorganic hole transporting material for perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6173-6179.	2.8	191
31	Cu-Doped ZnO Nanoneedles and Nanonails: Morphological Evolution and Physical Properties. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9579-9585.	1.5	187
32	Defect-induced magnetism in undoped wide band gap oxides: Zinc vacancies in ZnO as an example. <i>AIP Advances</i> , 2011, 1, .	0.6	179
33	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021, 12, 466.	5.8	176
34	Configurable Resistive Switching between Memory and Threshold Characteristics for Protein-Based Devices. <i>Advanced Functional Materials</i> , 2015, 25, 3825-3831.	7.8	175
35	Electrode dependence of resistive switching in Mn-doped ZnO: Filamentary versus interfacial mechanisms. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	170
36	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , 2016, 7, 13407.	5.8	170

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37	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1704665.	7.8	169
38	Scalable Routes to Janus Au ²⁺ /SiO ₂ and Ternary Ag ⁺ /Au ⁺ /SiO ₂ Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 3826-3828.	3.2	168
39	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12360-12364.	7.2	160
40	Optically controlled electroresistance and electrically controlled photovoltage in ferroelectric tunnel junctions. <i>Nature Communications</i> , 2016, 7, 10808.	5.8	158
41	Robust Room-Temperature Ferromagnetism with Giant Anisotropy in Nd-Doped ZnO Nanowire Arrays. <i>Nano Letters</i> , 2012, 12, 3994-4000.	4.5	157
42	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. <i>Science Advances</i> , 2019, 5, eaav3780.	4.7	157
43	Polymer-Encapsulated Gold-Nanoparticle Dimers: Facile Preparation and Catalytical Application in Guided Growth of Dimeric ZnO-Nanowires. <i>Nano Letters</i> , 2008, 8, 2643-2647.	4.5	155
44	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 1782-1788.	8.8	155
45	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped \ln . <i>Physical Review B</i> , 2009, 79, .	1.1	154
46	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. <i>Nature Communications</i> , 2018, 9, 4299.	5.8	151
47	Universal Ferroelectric Switching Dynamics of Vinylidene Fluoride-trifluoroethylene Copolymer Films. <i>Scientific Reports</i> , 2014, 4, 4772.	1.6	149
48	A Versatile Light-Switchable Nanorod Memory: Wurtzite ZnO on Perovskite SrTiO ₃ . <i>Advanced Functional Materials</i> , 2013, 23, 4977-4984.	7.8	147
49	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602803.	10.2	147
50	Strong Exciton-Photon Coupling and Lasing Behavior in All-Inorganic CsPbBr ₃ Micro/Nanowire Fabry-Pérot Cavity. <i>ACS Photonics</i> , 2018, 5, 2051-2059.	3.2	145
51	Defects-Mediated Energy Transfer in Red-Light-Emitting Eu-Doped ZnO Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22729-22735.	1.5	143
52	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017, 8, 13592.	5.8	142
53	Surfactant Media To Grow New Crystalline Cobalt 1,3,5-Benzenetricarboxylate Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2014, 53, 8529-8537.	1.9	140
54	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , 2021, 33, e2005000.	11.1	138

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55	Realizing a SnO ₂ -based ultraviolet light-emitting diode via breaking the dipole-forbidden rule. <i>NPG Asia Materials</i> , 2012, 4, e30-e30.	3.8	137
56	Tailoring the photoluminescence of ZnO nanowires using Au nanoparticles. <i>Nanotechnology</i> , 2008, 19, 435711.	1.3	135
57	Schottky junctions on perovskite single crystals: light-modulated dielectric constant and self-biased photodetection. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8304-8312.	2.7	134
58	Interfacial spin glass state and exchange bias in manganite bilayers with competing magnetic orders. <i>Physical Review B</i> , 2013, 87, .	1.1	132
59	Multiferroic oxide thin films and heterostructures. <i>Applied Physics Reviews</i> , 2015, 2, .	5.5	131
60	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	126
61	Tuning metal-carboxylate coordination in crystalline metal-organic frameworks through surfactant media. <i>Journal of Solid State Chemistry</i> , 2013, 206, 27-31.	1.4	126
62	Hydrazine-hydrothermal method to synthesize three-dimensional chalcogenide framework for photocatalytic hydrogen generation. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2644-2649.	1.4	125
63	Photoluminescence characteristics of high quality ZnO nanowires and its enhancement by polymer covering. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	125
64	2D Organic-Inorganic Hybrid Thin Films for Flexible UV-Visible Photodetectors. <i>Advanced Functional Materials</i> , 2017, 27, 1605554.	7.8	125
65	Superconductivity at 56 K in samarium-doped SrFeAsF. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 142203.	0.7	122
66	A surfactant-thermal method to prepare four new three-dimensional heterometal-organic frameworks. <i>Dalton Transactions</i> , 2013, 42, 11367.	1.6	119
67	Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , 2021, 9, 2001708.	3.6	118
68	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 6-14.	3.0	117
69	Bound magnetic polarons and p-d exchange interaction in ferromagnetic insulating Cu-doped ZnO. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	116
70	Enhancing the Performance of Quantum Dot Light-Emitting Diodes Using Room-Temperature-Processed Ga-Doped ZnO Nanoparticles as the Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15605-15614.	4.0	113
71	Controlling the Growth Mechanism of ZnO Nanowires by Selecting Catalysts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17500-17505.	1.5	110
72	Deterministic conversion between memory and threshold resistive switching via tuning the strong electron correlation. <i>Scientific Reports</i> , 2012, 2, 442.	1.6	110

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73	General Strategy for Fabricating Thoroughly Mesoporous Nanofibers. <i>Journal of the American Chemical Society</i> , 2014, 136, 16716-16719.	6.6	109
74	High- κ perovskite membranes as insulators for two-dimensional transistors. <i>Nature</i> , 2022, 605, 262-267.	13.7	109
75	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2017, 29, 1602432.	11.1	106
76	UV light emitting transparent conducting tin-doped indium oxide (ITO) nanowires. <i>Nanotechnology</i> , 2011, 22, 195706.	1.3	104
77	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 1487-1497.	8.8	104
78	Symmetrical Negative Differential Resistance Behavior of a Resistive Switching Device. <i>ACS Nano</i> , 2012, 6, 2517-2523.	7.3	103
79	Fast Crystallization and Improved Stability of Perovskite Solar Cells with $Zn_{2}SnO_{4}$ Electron Transporting Layer: Interface Matters. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28404-28411.	4.0	103
80	Nonvolatile Multistates Memories for High-Density Data Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42449-42471.	4.0	101
81	Coexistence of ferroelectric triclinic phases in highly strained $BiFeO_{3}$ films. <i>Physical Review B</i> , 2011, 84, .	1.1	99
82	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. <i>ACS Photonics</i> , 2015, 2, 849-855.	3.2	99
83	Aminosilane Micropatterns on Hydroxyl-Terminated Substrates: Fabrication and Applications. <i>Langmuir</i> , 2010, 26, 5603-5609.	1.6	98
84	P-type electrical, photoconductive, and anomalous ferromagnetic properties of $Cu_{2}O$ nanowires. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	95
85	Emergence of Ferroelectricity in Halide Perovskites. <i>Small Methods</i> , 2020, 4, 2000149.	4.6	95
86	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. <i>Nature Communications</i> , 2019, 10, 243.	5.8	94
87	Observation of magnetoelectric effect in epitaxial ferroelectric film/manganite crystal heterostructures. <i>Physical Review B</i> , 2006, 73, .	1.1	93
88	Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. <i>Advanced Functional Materials</i> , 2020, 30, 2002993.	7.8	92
89	High-Performance Ultraviolet-to-Infrared Broadband Perovskite Photodetectors Achieved via Inter-/Intraband Transitions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37832-37838.	4.0	91
90	Tuning ferromagnetism in $Mg_{x}Zn_{1-x}O$ thin films by band gap and defect engineering. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	90

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91	Ferroelectric Transistors with Nanowire Channel: Toward Nonvolatile Memory Applications. ACS Nano, 2009, 3, 700-706.	7.3	89
92	Tuning the Surface-Passivating Ligand Anchoring Position Enables Phase Robustness in CsPbI ₃ Perovskite Quantum Dot Solar Cells. ACS Energy Letters, 2020, 5, 3322-3329.	8.8	89
93	Giant Optical Anisotropy of Perovskite Nanowire Array Films. Advanced Functional Materials, 2020, 30, 1909275.	7.8	89
94	Bandgap engineering of Cu ₂ Cd _x Zn _{1-x} SnS ₄ alloy for photovoltaic applications: A complementary experimental and first-principles study. Journal of Applied Physics, 2013, 114, .	1.1	88
95	Exciton Localization and Optical Properties Improvement in Nanocrystal-Embedded ZnO Core-Shell Nanowires. Nano Letters, 2013, 13, 734-739.	4.5	85
96	A Photodetector Based on p-Si/n-ZnO Nanotube Heterojunctions with High Ultraviolet Responsivity. ACS Applied Materials & Interfaces, 2017, 9, 37120-37127.	4.0	85
97	Complementary Charge Trapping and Ionic Migration in Resistive Switching of Rare-Earth Manganite TbMnO ₃ . ACS Applied Materials & Interfaces, 2013, 5, 1213-1217.	4.0	84
98	Sb ₂ Te ₃ Nanoparticles with Enhanced Seebeck Coefficient and Low Thermal Conductivity. Chemistry of Materials, 2010, 22, 3086-3092.	3.2	83
99	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. Advanced Materials, 2018, 30, e1801661.	11.1	79
100	Efficient Electrocatalytic Reduction of CO ₂ by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO ₂ Refinery. Angewandte Chemie, 2017, 129, 7955-7960.	1.6	78
101	Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. Advanced Functional Materials, 2020, 30, 2002110.	7.8	78
102	Oxide nanowires for spintronics: materials and devices. Nanoscale, 2012, 4, 1529.	2.8	77
103	Quantum Dots for Photovoltaics: A Tale of Two Materials. Advanced Energy Materials, 2021, 11, 2100354.	10.2	77
104	Effect of pressure on the superconducting and spin-density-wave states of SmFeAsO . Physical Review B, 2008, 78, .	1.1	76
105	Electrostatic Modulation of LaAlO ₃ /SrTiO ₃ Interface Transport in an Electric Double-Layer Transistor. Advanced Materials Interfaces, 2014, 1, 1300001.	1.9	75
106	Characteristics of ultraviolet photoluminescence from high quality tin oxide nanowires. Applied Physics Letters, 2009, 95, 061908.	1.5	73
107	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO ₃ thin films. Applied Physics Letters, 2011, 98, .	1.5	73
108	Device Performance of the Mott Insulator LaVO_3 a Photovoltaic Material. Physical Review Applied, 2015, 3, .	1.5	73

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109	Nonvolatile resistive switching in spinel ZnMn ₂ O ₄ and ilmenite ZnMnO ₃ . Applied Physics Letters, 2009, 95, .	1.5	72
110	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. Nanotechnology, 2010, 21, 255701.	1.3	72
111	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. Applied Physics Letters, 2011, 99, .	1.5	71
112	Mechanism of Polarization Fatigue in BiFeO ₃ . ACS Nano, 2012, 6, 8997-9004.	7.3	71
113	Role of donor-acceptor complexes and impurity band in stabilizing ferromagnetic order in Cu-doped SnO ₂ thin films. Applied Physics Letters, 2012, 100, 172402.	1.5	71
114	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. ACS Applied Materials & Interfaces, 2019, 11, 29821-29829.	4.0	71
115	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. ACS Energy Letters, 2018, 3, 1492-1498.	8.8	70
116	Tunable wettability in surface-modified ZnO-based hierarchical nanostructures. Applied Physics Letters, 2008, 92, .	1.5	69
117	Photocurrent generation in lateral graphene p-n junction created by electron-beam irradiation. Scientific Reports, 2015, 5, 12014.	1.6	69
118	Origin of green emission and charge trapping dynamics in ZnO nanowires. Physical Review B, 2013, 87, .	1.1	68
119	Solution-processed resistive switching memory devices based on hybrid organic-inorganic materials and composites. Physical Chemistry Chemical Physics, 2018, 20, 23837-23846.	1.3	68
120	Highly flexible and robust N-doped SiC nanoneedle field emitters. NPG Asia Materials, 2015, 7, e157-e157.	3.8	66
121	Spin-polarized transport across aLa _{0.7} Sr _{0.3} MnO ₃ /YBa ₂ Cu ₃ O ₇ interface: Role of Andreev bound states. Physical Review B, 2001, 63, .	1.1	65
122	Multiferroic composite ferroelectric-ferromagnetic films. Applied Physics Letters, 2005, 87, 232908.	1.5	64
123	Emergent ferromagnetism in ZnO/Al ₂ O ₃ core-shell nanowires: Towards oxide spinterfaces. Applied Physics Letters, 2013, 103, 022402.	1.5	63
124	Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Acceleration of Charge Recombination and Deterioration of Charge Extraction. ACS Applied Materials & Interfaces, 2017, 9, 35018-35029.	4.0	62
125	Fabry-Pérot Oscillation and Room Temperature Lasing in Perovskite Cube-Corner Pyramid Cavities. Small, 2018, 14, 1703136.	5.2	61
126	High-Performance Near-Infrared Phototransistor Based on n-Type Small-Molecular Organic Semiconductor. Advanced Electronic Materials, 2017, 3, 1600430.	2.6	60

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127	Indigo: A Natural Molecular Passivator for Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	60
128	Enhancing Resistive Switching Performance and Ambient Stability of Hybrid Perovskite Single Crystals via Embedding Colloidal Quantum Dots. <i>Advanced Functional Materials</i> , 2020, 30, 2002948.	7.8	59
129	Magnetization steps in manganite films: Time delay of the metamagnetic transition. <i>Physical Review B</i> , 2004, 69, .	1.1	58
130	Synthesis, characterization and opto-electrical properties of ternary Zn ₂ SnO ₄ nanowires. <i>Nanotechnology</i> , 2010, 21, 465706.	1.3	57
131	Toroidal Micelles of Polystyrene- <i>block</i> -Poly(acrylic acid). <i>Small</i> , 2011, 7, 2721-2726.	5.2	57
132	Investigation of the conversion mechanism of nanosized CoF ₂ . <i>Electrochimica Acta</i> , 2013, 107, 301-312.	2.6	57
133	Tailoring the charge carrier dynamics in ZnO nanowires: the role of surface hole/electron traps. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3075.	1.3	56
134	Self-Assembled Shape- and Orientation-Controlled Synthesis of Nanoscale Cu ₃ Si Triangles, Squares, and Wires. <i>Nano Letters</i> , 2008, 8, 3205-3210.	4.5	55
135	Charge transfer dynamics in Cu-doped ZnO nanowires. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	55
136	Polaronic transport and magnetism in Ag-doped ZnO. <i>Applied Physics Letters</i> , 2011, 99, 222511.	1.5	55
137	Organic intercalation engineering of quasi-2D Dionâ€“Jacobson Î±-CsPb ₃ perovskites. <i>Materials Horizons</i> , 2020, 7, 1042-1050.	6.4	55
138	Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26258-26266.	4.0	55
139	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces. <i>Advanced Materials</i> , 2022, 34, e2108616.	11.1	55
140	Understanding the Role of Vanadium Vacancies in BiVO ₄ for Efficient Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , 2021, 33, 3553-3565.	3.2	54
141	Creation and annihilation of conducting filaments in mesoscopic manganite structures. <i>Physical Review B</i> , 2006, 74, .	1.1	53
142	Ferroelectric BiFeO ₃ as an Oxide Dye in Highly Tunable Mesoporous All-Oxide Photovoltaic Heterojunctions. <i>Small</i> , 2017, 13, 1602355.	5.2	53
143	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , 2020, 73, 104801.	8.2	53
144	Uniaxial Magnetic Anisotropy in La _{0.7} Sr _{0.3} MnO ₃ Thin Films Induced by Multiferroic BiFeO ₃ with Striped Ferroelectric Domains. <i>Advanced Materials</i> , 2010, 22, 4964-4968.	11.1	52

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145	Piezoelectricity in Two-Dimensional Materials. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4432-4434.	7.2	52
146	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. <i>Nature Communications</i> , 2019, 10, 3052.	5.8	51
147	First-Principles Optimization of Out-of-Plane Charge Transport in Dion-Jacobson CsPb ₃ Perovskites with Conjugated Aromatic Spacers. <i>Advanced Functional Materials</i> , 2021, 31, 2102330.	7.8	51
148	Substrate induced strain effects in epitaxial La _{0.67} Pr _x Ca _{0.33} MnO ₃ thin films. <i>Journal of Applied Physics</i> , 2003, 93, 5507-5513.	1.1	50
149	Ultraviolet coherent random lasing in randomly assembled SnO ₂ nanowires. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	49
150	Morphology-controlled synthesis and a comparative study of the physical properties of SnO ₂ nanostructures: from ultrathin nanowires to ultrawide nanobelts. <i>Nanotechnology</i> , 2009, 20, 135605.	1.3	49
151	Electrostatic tuning of Kondo effect in a rare-earth-doped wide-band-gap oxide. <i>Physical Review B</i> , 2013, 87, .	1.1	49
152	Nonvolatile Resistive Switching in Pt/LaAlO ₃ /Pt. <i>Physical Review X</i> , 2013, 3, .	3.8	49
153	Tuning magnetoresistance and exchange coupling in ZnO by doping transition metals. <i>Applied Physics Letters</i> , 2011, 99, 222503.	1.5	48
154	Photoinduced modulation and relaxation characteristics in LaAlO ₃ /SrTiO ₃ heterointerface. <i>Scientific Reports</i> , 2015, 5, 8778.	1.6	48
155	Evidence of cation vacancy induced room temperature ferromagnetism in Li-N codoped ZnO thin films. <i>Applied Physics Letters</i> , 2011, 99, 182503.	1.5	47
156	Dye-sensitized solar cell with a pair of carbon-based electrodes. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 165103.	1.3	47
157	Positive magnetoresistance in ferromagnetic Nd-doped In ₂ O ₃ thin films grown by pulse laser deposition. <i>Applied Physics Letters</i> , 2014, 104, 202411.	1.5	47
158	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. <i>Advanced Optical Materials</i> , 2019, 7, 1900865.	3.6	47
159	Ultraviolet light emission and excitonic fine structures in ultrathin single-crystalline indium oxide nanowires. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	46
160	Rayleigh-instability-driven simultaneous morphological and compositional transformation from Co nanowires to CoO octahedra. <i>Applied Physics Letters</i> , 2010, 97, 203112.	1.5	46
161	Low symmetry monoclinic MC phase in epitaxial BiFeO ₃ thin films on LaSrAlO ₄ substrates. <i>Applied Physics Letters</i> , 2010, 97, 242903.	1.5	46
162	A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	46

#	ARTICLE	IF	CITATIONS
163	Ferromagnetic interaction between Cu ions in the bulk region of Cu-doped ZnO nanowires. <i>Physical Review B</i> , 2011, 84, .	1.1	45
164	P-type SnO Thin Film Phototransistor with Perovskite-Mediated Photogating. <i>Advanced Electronic Materials</i> , 2019, 5, 1800538.	2.6	45
165	Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. <i>Photonics Research</i> , 2020, 8, A56.	3.4	45
166	A Template and Catalyst-Free Metal-Etching-Oxidation Method to Synthesize Aligned Oxide Nanowire Arrays: NiO as an Example. <i>ACS Nano</i> , 2010, 4, 4785-4791.	7.3	44
167	Surfactant-Thermal Syntheses, Structures, and Magnetic Properties of Mn-Ge-Sulfides/Selenides. <i>Inorganic Chemistry</i> , 2014, 53, 10248-10256.	1.9	44
168	Ultrahigh rate capability and ultralong cycling stability of sodium-ion batteries enabled by wrinkled black titania nanosheets with abundant oxygen vacancies. <i>Nano Energy</i> , 2018, 53, 91-96.	8.2	44
169	Stable Bandgap-Tunable Hybrid Perovskites with Alloyed Pb-Ba Cations for High-Performance Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 59-66.	2.1	44
170	Hybrid Perovskite Quantum Dot/Non-Fullerene Molecule Solar Cells with Efficiency Over 15%. <i>Advanced Functional Materials</i> , 2021, 31, 2101272.	7.8	44
171	Sb doping behavior and its effect on crystal structure, conductivity and photoluminescence of ZnO film in depositing and annealing processes. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5426-5430.	2.8	43
172	Observation of superconductivity in structure-selected Ti ₂ O ₃ thin films. <i>NPG Asia Materials</i> , 2018, 10, 522-532.	3.8	43
173	Synergistic effect of electron transport layer and colloidal quantum dot solid enable PbSe quantum dot solar cell achieving over 10 % efficiency. <i>Nano Energy</i> , 2019, 64, 103922.	8.2	43
174	High Coercivity and Magnetization in WSe ₂ by Codoping Co and Nb. <i>Small</i> , 2020, 16, e1903173.	5.2	43
175	Integrating Low-Cost Earth-Abundant Co-Catalysts with Encapsulated Perovskite Solar Cells for Efficient and Stable Overall Solar Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2008245.	7.8	43
176	A new hydrazine-bridged thioantimonate Mn ₂ Sb ₄ S ₈ (N ₂ H ₄) ₂ : Synthesis, structure, optical and magnetic properties. <i>Inorganic Chemistry Communication</i> , 2011, 14, 884-888.	1.8	42
177	Uniaxial tensile strain and exciton-phonon coupling in bent ZnO nanowires. <i>Applied Physics Letters</i> , 2011, 98, 241916.	1.5	42
178	Anomalous exchange bias at collinear/noncollinear spin interface. <i>Scientific Reports</i> , 2013, 3, .	1.6	42
179	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. <i>Chemistry of Materials</i> , 2018, 30, 4383-4392.	3.2	42
180	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2000453.	10.2	42

#	ARTICLE	IF	CITATIONS
181	Epitaxy-Enabled Vapor-Liquid-Solid Growth of Tin-Doped Indium Oxide Nanowires with Controlled Orientations. <i>Nano Letters</i> , 2014, 14, 4342-4351.	4.5	41
182	Shape-Enhanced Photocatalytic Activities of Thoroughly Mesoporous ZnO Nanofibers. <i>Small</i> , 2016, 12, 4007-4017.	5.2	41
183	Formation of D _Y center as n-type limiting defects in octahedral semiconductors: the case of Bi-doped hybrid halide perovskites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4230-4234.	2.7	41
184	Nanoscale resistive switching and filamentary conduction in NiO thin films. <i>Applied Physics Letters</i> , 2010, 97, 132108.	1.5	40
185	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals. , 2020, 2, 1368-1374.		40
186	Optimizing Surface Chemistry of PbS Colloidal Quantum Dot for Highly Efficient and Stable Solar Cells via Chemical Binding. <i>Advanced Science</i> , 2021, 8, 2003138.	5.6	40
187	One-Dimensional Molecular Metal Halide Materials: Structures, Properties, and Applications. <i>Small Structures</i> , 2021, 2, 2000062.	6.9	40
188	Electrical transport and magnetic properties of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ with varying oxygen content. <i>Physical Review B</i> , 2002, 65, .	1.1	39
189	dc leakage behavior and conduction mechanism in $(\text{BiFeO}_3)_m(\text{SrTiO}_3)_m$ superlattices. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	39
190	Manipulation and Microrheology of Carbon Nanotubes with Laser-Induced Cavitation Bubbles. <i>Physical Review Letters</i> , 2010, 104, 014501.	2.9	39
191	Evolution of magnetic bubble domains in manganite films. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	39
192	Polarization enhancement and ferroelectric switching enabled by interacting magnetic structures in DyMnO_3 thin films. <i>Scientific Reports</i> , 2013, 3, 3374.	1.6	39
193	Electro-thermally driven flexible robot arms based on stacking-controlled graphite nanocomposites. <i>Carbon</i> , 2019, 152, 873-881.	5.4	39
194	Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1905578.	11.1	39
195	Bridging NiCo layered double hydroxides and Ni_3S_2 for bifunctional electrocatalysts: The role of vertical graphene. <i>Chemical Engineering Journal</i> , 2021, 415, 129048.	6.6	39
196	Electroluminescent Solar Cells Based on CsPbI_3 Perovskite Quantum Dots. <i>Advanced Functional Materials</i> , 2022, 32, 2108615.	7.8	38
197	Negative differential resistance in mesoscopic manganite structures. <i>Applied Physics Letters</i> , 2005, 86, 252505.	1.5	37
198	Enhanced Electrical Conductivity of Individual Conducting Polymer Nanobelts. <i>Small</i> , 2011, 7, 1949-1953.	5.2	37

#	ARTICLE	IF	CITATIONS
199	Electric field tuning of phase separation in manganite thin films. <i>Physical Review B</i> , 2014, 89, .	1.1	37
200	Concurrent nonvolatile resistance and capacitance switching in LaAlO ₃ . <i>Applied Physics Letters</i> , 2011, 98, .	1.5	36
201	High sensitivity low field magnetically gated resistive switching in CoFe ₂ O ₄ /La _{0.66} Sr _{0.34} MnO ₃ heterostructure. <i>Applied Physics Letters</i> , 2012, 100, 172412.	1.5	36
202	Orthorhombic Ti ₂ O ₃ : A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. <i>Advanced Functional Materials</i> , 2018, 28, 1705657.	7.8	36
203	Tuning Magnetism and Photocurrent in Mn-Doped Organic-Inorganic Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2577-2584.	2.1	36
204	Improving thermal and electrical stability of silver nanowire network electrodes through integrating graphene oxide intermediate layers. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 375-382.	5.0	35
205	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , 2022, 9, e2102258.	5.6	35
206	Ultra-sensitive and wide-dynamic-range sensors based on dense arrays of carbon nanotube tips. <i>Nanoscale</i> , 2011, 3, 4854.	2.8	34
207	Motion of Micrometer Sized Spherical Particles Exposed to a Transient Radial Flow: Attraction, Repulsion, and Rotation. <i>Physical Review Letters</i> , 2011, 107, 074503.	2.9	34
208	Morphology-Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800413.	3.6	34
209	Plasmonic-Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. <i>Solar Rrl</i> , 2019, 3, 1900138.	3.1	34
210	CrSi ₂ Hexagonal Nanowebbs. <i>Journal of the American Chemical Society</i> , 2010, 132, 15875-15877.	6.6	33
211	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High-Performance Humidity Sensing. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11218-11222.	7.2	33
212	Highly UV Resistant Inch-Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , 2020, 7, 1902439.	5.6	33
213	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. <i>ACS Energy Letters</i> , 0, , 1649-1658.	8.8	33
214	Abnormal blueshift of UV emission in single-crystalline ZnO nanowires. <i>Journal of Luminescence</i> , 2009, 129, 996-999.	1.5	32
215	Growth of Doped SrTiO ₃ Ferroelectric Nanoporous Thin Films and Tuning of Photoelectrochemical Properties with Switchable Ferroelectric Polarization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45683-45691.	4.0	32
216	A OD Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. <i>Advanced Functional Materials</i> , 2019, 29, 1809166.	7.8	32

#	ARTICLE	IF	CITATIONS
217	Enhanced Power Conversion Efficiency via Hybrid Ligand Exchange Treatment of p-Type PbS Quantum Dots. ACS Applied Materials & Interfaces, 2020, 12, 22751-22759.	4.0	32
218	Stress relaxation of La _{1/2} Sr _{1/2} MnO ₃ and La _{2/3} Ca _{1/3} MnO ₃ at solid oxide fuel cell interfaces. Thin Solid Films, 2008, 516, 880-884.	0.8	31
219	Influence of thin metal nanolayers on the photodetective properties of ZnO thin films. Journal of Applied Physics, 2009, 106, 083110.	1.1	31
220	The characterization and application of p-type semiconducting mesoporous carbon nanofibers. Carbon, 2009, 47, 1841-1845.	5.4	31
221	Tunable Magnetic Interaction at the Atomic Scale in Oxide Heterostructures. Physical Review Letters, 2010, 105, 167206.	2.9	31
222	Metal-layer-assisted coalescence of Au nanoparticles and its effect on diameter control in vapor-liquid-solid growth of oxide nanowires. Physical Review B, 2011, 83, .	1.1	31
223	Top-illuminated dye-sensitized solar cells with a room-temperature-processed ZnO photoanode on metal substrates and a Pt-coated Ga-doped ZnO counter electrode. Journal Physics D: Applied Physics, 2011, 44, 045102.	1.3	31
224	Ferroelectric Polarization Switching Dynamics and Domain Growth of Triglycine Sulfate and Imidazolium Perchlorate. Advanced Electronic Materials, 2016, 2, 1600038.	2.6	31
225	Are strain-induced effects truly strain induced? A comprehensive study of strained LCMO thin films. Journal of Applied Physics, 2005, 97, 10C102.	1.1	30
226	Seeded growth of two-dimensional dendritic gold nanostructures. Chemical Communications, 2012, 48, 1440-1442.	2.2	30
227	Electron-beam irradiation-hard metal-halide perovskite nanocrystals. Journal of Materials Chemistry A, 2019, 7, 10912-10917.	5.2	30
228	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. ACS Nano, 2020, 14, 3969-3979.	7.3	30
229	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of Ti ₃ C ₂ T _x MXene Contacts. ACS Nano, 2021, 15, 5221-5229.	7.3	30
230	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. Advanced Functional Materials, 2022, 32, 2110975.	7.8	30
231	Manganite thin film/ZnO nanowire (nanosheets) p-n junctions. Applied Physics Letters, 2008, 92, 103113.	1.5	29
232	Fabrication and properties of B ^N codoped p-type ZnO thin films. Journal Physics D: Applied Physics, 2009, 42, 065101.	1.3	29
233	Transport and magnetic properties of La _{0.8} Ce _{0.2} MnO ₃ thin films grown by pulsed laser deposition. Journal of Magnetism and Magnetic Materials, 2000, 220, 161-166.	1.0	28
234	Chlorine-Assisted Size-Controlled Synthesis and Tunable Photoluminescence in Cr-Doped Silica Nanospheres. Journal of Physical Chemistry C, 2009, 113, 7065-7068.	1.5	28

#	ARTICLE	IF	CITATIONS
235	Tunable photovoltaic effect and solar cell performance of self-doped perovskite SrTiO ₃ . AIP Advances, 2012, 2, .	0.6	28
236	Wavelength-Tuned Light Emission via Modifying the Band Edge Symmetry: Doped SnO ₂ as an Example. Journal of Physical Chemistry C, 2014, 118, 6365-6371.	1.5	28
237	Single-Crystal Hybrid Perovskite Platelets on Graphene: A Mixed-Dimensional Van Der Waals Heterostructure with Strong Interface Coupling. Advanced Functional Materials, 2020, 30, 1909672.	7.8	28
238	Investigation of Structured Green-Band Emission and Electron-Phonon Interactions in Vertically Aligned ZnO Nanowires. Journal of Physical Chemistry C, 2010, 114, 17889-17893.	1.5	27
239	Phase Selection Enabled Formation of Abrupt Axial Heterojunctions in Branched Oxide Nanowires. Nano Letters, 2012, 12, 275-280.	4.5	27
240	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. ACS Applied Materials & Interfaces, 2020, 12, 38376-38385.	4.0	27
241	Controlled Manipulation and in Situ Mechanical Measurement of Single Co Nanowire with a Laser-Induced Cavitation Bubble. Nano Letters, 2010, 10, 3846-3851.	4.5	26
242	Optically controlled electroabsorption modulators for unconstrained wavelength conversion. Applied Physics Letters, 2004, 84, 469-471.	1.5	25
243	Random lasing action of randomly assembled ZnO Nanowires with MgO coating. Optics Express, 2010, 18, 13647.	1.7	25
244	Effects of electrode material and configuration on the characteristics of planar resistive switching devices. APL Materials, 2013, 1, .	2.2	25
245	Exchange coupling and coercivity enhancement in cuprate/manganite bilayers. Applied Physics Letters, 2013, 102, .	1.5	25
246	Interfacial magnetic coupling in ultrathin all-manganite La _{0.7} Sr _{0.3} MnO ₃ -TbMnO ₃ superlattices. Applied Physics Letters, 2014, 104, .	1.5	25
247	Colossal positive magnetoresistance in surface-passivated oxygen-deficient strontium titanite. Scientific Reports, 2015, 5, 10255.	1.6	25
248	Nanoscale Chemical and Valence Evolution at the Metal/Oxide Interface: A Case Study of Ti/SrTiO ₃ . Advanced Materials Interfaces, 2016, 3, 1600201.	1.9	25
249	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 2363-2371.	2.1	25
250	Enhanced low field magnetoresistance in nanocrystalline La _{0.7} Sr _{0.3} MnO ₃ synthesized on MgO nanowires. Applied Physics Letters, 2010, 96, 222501.	1.5	24
251	Superconducting gap induced barrier enhancement in a BiFeO ₃ -based heterostructure. Applied Physics Letters, 2010, 97, .	1.5	24
252	Gibbs-Thomson Effect in Planar Nanowires: Orientation and Doping Modulated Growth. Nano Letters, 2016, 16, 4158-4165.	4.5	24

#	ARTICLE	IF	CITATIONS
253	Enhancing the Efficiency and Stability of PbS Quantum Dot Solar Cells through Engineering an Ultrathin NiO Nanocrystalline Interlayer. ACS Applied Materials & Interfaces, 2020, 12, 46239-46246.	4.0	24
254	Evolution of the SrTiO ₃ /MoO ₃ Interface Electronic Structure: An in Situ Photoelectron Spectroscopy Study. ACS Applied Materials & Interfaces, 2015, 7, 11309-11314.	4.0	23
255	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. Optics Letters, 2017, 42, 3618.	1.7	23
256	Oxidation Kinetics of WTe ₂ Surfaces in Different Environments. ACS Applied Electronic Materials, 2020, 2, 2196-2202.	2.0	23
257	Interface Characterization of All-Perovskite Oxide Field Effect Heterostructures. , 2002, 8, 233-241.		22
258	Enhanced magnetoresistance in strain-free manganite network. Applied Physics Letters, 2005, 86, 062502.	1.5	22
259	Interface-dependent rectifying TbMnO ₃ -based heterojunctions. AIP Advances, 2011, 1, .	0.6	22
260	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(ii)-based frameworks. CrystEngComm, 2012, 14, 75-78.	1.3	22
261	Manganite/Cuprate Superlattice as Artificial Reentrant Spin Glass. Advanced Materials Interfaces, 2016, 3, 1500676.	1.9	22
262	Real-Space Mapping of Surface Trap States in CIGSe Nanocrystals Using 4D Electron Microscopy. Nano Letters, 2016, 16, 4417-4423.	4.5	22
263	Colossal Magnetization and Giant Coercivity in Ion-Implanted (Nb and Co) MoS ₂ Crystals. ACS Applied Materials & Interfaces, 2020, 12, 58140-58148.	4.0	22
264	Self-Assembled In-Plane Growth of Mg ₂ SiO ₄ Nanowires on Si Substrates Catalyzed by Au Nanoparticles. Advanced Functional Materials, 2010, 20, 2511-2518.	7.8	21
265	Effect of charge compensation on the photoelectrochemical properties of Ho-doped SrTiO ₃ films. Applied Physics Letters, 2013, 102, .	1.5	21
266	Room Temperature Magnetic Graphene Oxide-Iron Oxide Nanocomposite Based Magnetoresistive Random Access Memory Devices via Spin-Dependent Trapping of Electrons. Small, 2014, 10, 1945-1952.	5.2	21
267	Colossal X-Ray-Induced Persistent Photoconductivity in Current-Perpendicular-Plane Ferroelectric/Semiconductor Junctions. Advanced Functional Materials, 2018, 28, 1704337.	7.8	21
268	Performance degradation and mitigation strategies of silver nanowire networks: a review. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 435-459.	6.8	21
269	A facile approach to tailor electrocatalytic properties of MnO ₂ through tuning phase transition, surface morphology and band structure. Chemical Engineering Journal, 2022, 438, 135561.	6.6	21
270	Nanoscale semiconductor-insulator-metal core/shell heterostructures: facile synthesis and light emission. Nanoscale, 2011, 3, 3170.	2.8	20

#	ARTICLE	IF	CITATIONS
271	Correlating the Composition-Dependent Structural and Electronic Dynamics of Inorganic Mixed Halide Perovskites. <i>Chemistry of Materials</i> , 2020, 32, 2470-2481.	3.2	20
272	Quantum-Dot Tandem Solar Cells Based on a Solution-Processed Nanoparticle Intermediate Layer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2313-2318.	4.0	19
273	Facile Patterning of Silver Nanowires with Controlled Polarities via Inkjet-Assisted Manipulation of Interface Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34086-34094.	4.0	19
274	Shape-Controlled Fabrication of Micro/Nanoscale Triangle, Square, Wire-like, and Hexagon Pits on Silicon Substrates Induced by Anisotropic Diffusion and Silicide Sublimation. <i>ACS Nano</i> , 2010, 4, 2901-2909.	7.3	18
275	Domain-related origin of magnetic relaxation in compressively strained manganite thin films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	18
276	All-inorganic dual-phase halide perovskite nanorings. <i>Nano Research</i> , 2020, 13, 2994-3000.	5.8	18
277	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021, 22, 100954.	2.3	18
278	Buffer-Layer-Assisted Epitaxial Growth of Perfectly Aligned Oxide Nanorod Arrays in Solution. <i>Crystal Growth and Design</i> , 2011, 11, 4885-4891.	1.4	17
279	Dependence of negative differential resistance on electronic phase separation in unpatterned manganite films. <i>Applied Physics Letters</i> , 2012, 100, 062402.	1.5	17
280	Light-Enhanced Spin Diffusion in Hybrid Perovskite Thin Films and Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3205-3213.	4.0	17
281	Topotactic phase transformations by concerted dual-ion migration of B-site cation and oxygen in multivalent cobaltite La ²⁺ Sr ²⁺ Co ⁴⁺ O _x films. <i>Nano Energy</i> , 2020, 78, 105215.	8.2	17
282	High temperature excitonic lasing characteristics of randomly assembled SnO ₂ nanowires. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	16
283	Photoinduced phase transition and relaxation in bare SrTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	16
284	Strain-Enhanced Charge Transfer and Magnetism at a Manganite/Nickelate Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30803-30810.	4.0	16
285	Tuning Phase Transition and Thermo-chromic Properties of Vanadium Dioxide Thin Films via Cobalt Doping. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19736-19746.	4.0	16
286	Anisotropic surface strain in single crystalline cobalt nanowires and its impact on the diameter-dependent Young's modulus. <i>Nanoscale</i> , 2013, 5, 11643.	2.8	15
287	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. <i>ACS Energy Letters</i> , 2018, 3, 476-481.	8.8	15
288	Manipulation of planar oxygen defect arrangements in multifunctional magn ²⁺ li titanium oxide hybrid systems: from energy conversion to water treatment. <i>Energy and Environmental Science</i> , 2020, 13, 5080-5096.	15.6	15

#	ARTICLE	IF	CITATIONS
289	Microwave Synthesis and High-Mobility Charge Transport of Carbon-Nanotube-Incorporated Perovskite Single Crystals. <i>Advanced Optical Materials</i> , 2020, 8, 2001740.	3.6	15
290	Spontaneous sharp metamagnetic transition in manganite films: influences of post-deposition annealing and measurement protocol. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 292, 25-36.	1.0	14
291	Giant in-plane anisotropy in manganite thin films driven by strain-engineered double exchange interaction and electronic phase separation. <i>Applied Physics Letters</i> , 2011, 99, 122510.	1.5	14
292	Anisotropic magnetoresistance and weak spin-orbital coupling in doped ZnO thin films. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	14
293	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie</i> , 2018, 130, 12540-12544.	1.6	14
294	Recent Progress on Titanium Sesquioxide: Fabrication, Properties, and Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
295	Tunable transport properties of n-type ZnO nanowires by Ti plasma immersion ion implantation. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	13
296	A SIMS study on Mg diffusion in Zn _{0.94} Mg _{0.06} O/ZnO heterostructures grown by metal organic chemical vapor deposition. <i>Applied Surface Science</i> , 2011, 257, 8629-8633.	3.1	13
297	Influence of oxygen pressure and aging on LaAlO ₃ films grown by pulsed laser deposition on SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 2014, 104, 081604.	1.5	13
298	Asymmetric electroresistance of cluster glass state in manganites. <i>Applied Physics Letters</i> , 2014, 104, 133508.	1.5	13
299	Space-Charge-Mediated Anomalous Ferroelectric Switching in P(VDF-TrEE) Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19057-19063.	4.0	13
300	Ferroelectric Polarization Rotation in Order-Disorder-Type LiNbO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41471-41478.	4.0	13
301	Anomalous Structural Evolution and Glassy Lattice in Mixed-Halide Hybrid Perovskites. <i>Small</i> , 2022, 18, e2200847.	5.2	13
302	Intrinsic domain-wall resistivity in half-metallic manganite thin films. <i>Physical Review B</i> , 2012, 86, .	1.1	12
303	Density-Controlled Synthesis of Uniform ZnO Nanowires: Wide-Range Tunability and Growth Regime Transition. <i>Small</i> , 2013, 9, 2069-2075.	5.2	12
304	Giant Bulk Photostriction and Accurate Photomechanical Actuation in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, 2100837.	3.6	12
305	Novel approaches to field modulation of electronic and magnetic properties of oxides. <i>Philosophical Magazine Letters</i> , 2007, 87, 279-292.	0.5	11
306	Electroluminescence from n-In ₂ O ₃ :Sn randomly assembled nanorods/p-SiC heterojunction. <i>Optics Express</i> , 2010, 18, 15585.	1.7	11

#	ARTICLE	IF	CITATIONS
307	Ultraviolet photovoltaic effect in BiFeO ₃ /Nb-SrTiO ₃ heterostructure. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	11
308	Engineering magnetic domains in manganite thin films by laser interference. <i>Applied Physics Letters</i> , 2012, 100, 012403.	1.5	11
309	Suppression of photovoltaic effect by magnetic field in Pr _{0.65} (Ca _{0.75} Sr _{0.25}) _{0.35} MnO ₃ /Nb:SrTiO ₃ heterostructure. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	11
310	Prediction of giant magnetoelectric effect in LaMnO ₃ /BaTiO ₃ /SrMnO ₃ superlattice: The role of n-type SrMnO ₃ /LaMnO ₃ interface. <i>Journal of Applied Physics</i> , 2014, 116, 074102.	1.1	11
311	Long-range electronic reconstruction to a dx _z ,y _z -dominated Fermi surface below the LaAlO ₃ /SrTiO ₃ interface. <i>Scientific Reports</i> , 2014, 4, 5338.	1.6	11
312	Tunable room-temperature ferromagnet using an iron-oxide and graphene oxide nanocomposite. <i>Scientific Reports</i> , 2015, 5, 11430.	1.6	11
313	Pressure effects on iron-based superconductor families: Superconductivity, flux pinning and vortex dynamics. <i>Materials Today Physics</i> , 2021, 19, 100414.	2.9	11
314	Enhancing Self-Trapped Exciton Emission via Energy Transfer in Two-Dimensional/Quantum Dot Perovskite Heterostructures. <i>ACS Photonics</i> , 2022, 9, 2008-2014.	3.2	11
315	Optical Cooper pair breaking spectroscopy of cuprate superconductors. <i>Physical Review B</i> , 2001, 63, .	1.1	10
316	Insulatorâ€“metal transition and magnetoresistance of La _{0.5} Ca _{0.5} MnO _y induced by tuning the oxygen content. <i>Journal of Applied Physics</i> , 2002, 92, 5391-5394.	1.1	10
317	Spontaneous and stimulated emission of asymmetric double quantum wells. <i>Superlattices and Microstructures</i> , 2010, 48, 485-490.	1.4	10
318	Anisotropic Imprint of Amorphization and Phase Separation in Manganite Thin Films via Laser Interference Irradiation. <i>Small</i> , 2015, 11, 576-584.	5.2	10
319	Shape and Orientation Controlled Hydrothermal Synthesis of Silicide and Metal Dichalcogenide on a Silicon Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18850-18858.	4.0	10
320	Multi-functional multi-gate one-transistor process-in-memory electronics with foundry processing and footprint reduction. <i>Communications Materials</i> , 2022, 3, .	2.9	10
321	Formation of complex nanostructures driven by polar surfaces. <i>Journal of Materials Chemistry</i> , 2011, 21, 15095.	6.7	9
322	Sizeâ€“induced Switching of Nanowire Growth Direction: a New Approach Toward Kinked Nanostructures. <i>Advanced Functional Materials</i> , 2016, 26, 3687-3695.	7.8	9
323	Self-Organized Ferroelectric Domains Controlled by a Constant Bias from the Atomic Force Microscopy Tip. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40911-40917.	4.0	9
324	New insights on the substantially reduced bandgap of bismuth layered perovskite oxide thin films. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3161-3170.	2.7	9

#	ARTICLE	IF	CITATIONS
325	Favorable ultraviolet photoelectric effects in TbMnO ₃ /Nb-doped SrTiO ₃ heterostructures. Solid State Communications, 2014, 199, 39-42.	0.9	8
326	Giant Electric Bias-Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. Advanced Optical Materials, 2019, 7, 1901092.	3.6	8
327	Confinement-Induced Giant Spin-Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO ₂ Films. ACS Applied Materials & Interfaces, 2019, 11, 43781-43788.	4.0	8
328	Optimization of the Selenization Pressure Enabling Efficient Cu ₂ ZnSn(S,Se) ₄ Solar Cells. Solar Rrl, 2022, 6, .	3.1	8
329	Emerging Transistor Applications Enabled by Halide Perovskites. Accounts of Materials Research, 2022, 3, 8-20.	5.9	8
330	Effect of annealing on the temperature-dependent dielectric properties of LaAlO ₃ at terahertz frequencies. AIP Advances, 2012, 2, 012120.	0.6	7
331	Hole-mediated ferromagnetic enhancement and stability in Cu-doped ZnO alloy thin films. Journal Physics D: Applied Physics, 2012, 45, 075002.	1.3	7
332	Experimental and first-principles study of ferromagnetism in Mn-doped zinc stannate nanowires. Journal of Applied Physics, 2013, 114, .	1.1	7
333	Interface-induced magnetic coupling in multiferroic/ferromagnetic bilayer: An ultrafast pump-probe study. Applied Physics Letters, 2014, 104, 141602.	1.5	7
334	Interfacial effects revealed by ultrafast relaxation dynamics in $\text{BiFeO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7/\text{BiFeO}_3$ bilayers. Physical Review B, 2014, 89, 040402.	1.1	7
335	Two-Dimensional Electron Gas at the Spinel/Perovskite Interface: Suppression of Polar Catastrophe by an Ultrathin Layer of Interfacial Defects. ACS Applied Materials & Interfaces, 2020, 12, 42982-42991.	4.0	7
336	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste. , 2022, 4, 120-127.		7
337	Doping and defect engineering induced extremely high magnetization and large coercivity in Co doped MoTe ₂ . Journal of Alloys and Compounds, 2022, 918, 165750.	2.8	7
338	Emergent vortices at a ferromagnetic superconducting oxide interface. New Journal of Physics, 2014, 16, 103012.	1.2	6
339	ZnO Nanorods on a LaAlO ₃ /SrTiO ₃ Interface: Hybrid 1D-2D Diodes with Engineered Electronic Properties. Small, 2016, 12, 802-809.	5.2	6
340	Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of ~ 1800 . ACS Applied Materials & Interfaces, 2020, 12, 47848-47853.	4.0	6
341	A Bright New World of Ferroelectrics: Magic of Spontaneous Polarization. ACS Applied Materials & Interfaces, 2020, 12, 52231-52233.	4.0	6
342	Electrical transport and magnetic properties of a possible electron-doped layered manganese oxide. Physical Review B, 2000, 61, 4141-4145.	1.1	5

#	ARTICLE	IF	CITATIONS
343	Room temperature positive magnetoresistance via charge trapping in polyaniline-iron oxide nanoparticle composites. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	5
344	Self-powered ultraviolet photovoltaic effects based on metal/SrTiO ₃ Schottky junctions. <i>Europhysics Letters</i> , 2013, 103, 57007.	0.7	5
345	Crystal structure of hexakis(dimethyl sulfoxide- λ^6)manganese(II) tetraiodide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016, 72, 1791-1793.	0.2	5
346	Coupled Current Jumps and Domain Wall Creeps in a Defect-Engineered Ferroelectric Resistive Memory. <i>Advanced Electronic Materials</i> , 0, , 2101059.	2.6	5
347	Switching magnetoresistance in vertically interfaced Pr _{0.5} Ca _{0.5} MnO ₃ grown on ZnO nanowires. <i>Applied Physics Letters</i> , 2011, 99, 103102.	1.5	4
348	Electric field driven phase transition and possible twinning quasi-tetragonal phase in compressively strained BiFeO ₃ thin films. <i>Frontiers of Physics</i> , 2012, 7, 424-428.	2.4	4
349	A general lithography-free method of microscale/nanoscale fabrication and patterning on Si and Ge surfaces. <i>Nanoscale Research Letters</i> , 2012, 7, 110.	3.1	4
350	Imaging the Reduction of Electron Trap States in Shelled Copper Indium Gallium Selenide Nanocrystals Using Ultrafast Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15010-15016.	1.5	4
351	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (<i>Adv. Mater.</i> 35/2018). <i>Advanced Materials</i> , 2018, 30, 1870260.	11.1	3
352	Non-Fullerene Molecules: Hybrid Perovskite Quantum Dot/Non-Fullerene Molecule Solar Cells with Efficiency Over 15% (<i>Adv. Funct. Mater.</i> 27/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170196.	7.8	3
353	Spin-polarized quasiparticle injection into YBCO. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 3640-3643.	1.1	2
354	Superconducting cuprates and magnetoresistive manganites: similarities and contrasts. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999, 63, 36-43.	1.7	2
355	Doping Cu into ZnO nanostructures. , 2008, , .		2
356	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (<i>Adv.</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	10.2	2
357	Optical Cooper pair breaking spectroscopy of YBa ₂ Cu _{2.8} Zn _{0.2} O _{7-δ} thin films. <i>Superconductor Science and Technology</i> , 2002, 15, 468-471.	1.8	1
358	Bound magnetic polarons induced ferromagnetism in transition-metal-doped oxide nanostructures. , 2010, , .		1
359	Dominant Factor Determining the Conduction-Type of Nitrogen-Doped ZnO Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 3813-3816.	0.9	1
360	Hybrid Materials: 2D Organic-Inorganic Hybrid Thin Films for Flexible UV-Visible Photodetectors (<i>Adv. Funct. Mater.</i> 15/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	1

#	ARTICLE	IF	CITATIONS
361	Deposition and Electrical Characterization of Dielectric/Ferromagnetic Heterostructure. Materials Research Society Symposia Proceedings, 1999, 602, 363.	0.1	0
362	Enhanced UV lasing emission from ZnO-MgO core-shell structure. , 2010, , .		0
363	Si substrate controlled in-plane synthesis of self-assembled nanostructures catalyzed by Au nanoparticles. , 2010, , .		0
364	Carrier and exciton spin dynamics in Cu-doped ZnO nanowires. , 2011, , .		0
365	Continuous-wave Optically Pumped Lasing of Hybrid Perovskite VCSEL at Green Wavelength. , 2017, , .		0
366	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High-Performance Humidity Sensing. Angewandte Chemie, 2018, 130, 11388-11392.	1.6	0
367	Innenr¼cktitelbild: Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering (Angew. Chem. 38/2018). Angewandte Chemie, 2018, 130, 12765-12765.	1.6	0
368	Auger-type Hole Trapping Process at Green Emission Centers of ZnO Nanowires. , 2013, , .		0
369	(Invited) heterostructured "Binary Materials" for Photodetection from Mid-Infrared, Visible, to X-Ray. ECS Meeting Abstracts, 2019, , .	0.0	0