

Tom Wu

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356
papers

24,387
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79
h-index

143
g-index

379
ext. papers

27,651
ext. citations

9
avg, IF

6.98
L-index

#	Paper	IF	Citations
356	Superconductivity at 43 K in SmFeAsO _{1-x} F _x . <i>Nature</i> , 2008 , 453, 761-2	50.4	1506
355	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , 2015 , 6, 7586	17.4	1164
354	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018 , 561, 88-93	50.4	773
353	Neutron-diffraction measurements of magnetic order and a structural transition in the parent BaFe ₂ As ₂ compound of FeAs-based high-temperature superconductors. <i>Physical Review Letters</i> , 2008 , 101, 257003	7.4	691
352	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016 , 1, 32-37	20.1	551
351	High-Performance Photothermal Conversion of Narrow-Bandgap TiO ₂ Nanoparticles. <i>Advanced Materials</i> , 2017 , 29, 1603730	24	529
350	CH ₃ NH ₃ PbCl ₃ Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3781-6	6.4	507
349	Ambipolar solution-processed hybrid perovskite phototransistors. <i>Nature Communications</i> , 2015 , 6, 8238	7.4	447
348	Ferromagnetism in dilute magnetic semiconductors through defect engineering: Li-doped ZnO. <i>Physical Review Letters</i> , 2010 , 104, 137201	7.4	391
347	Temperature-dependent excitonic photoluminescence of hybrid organometal halide perovskite films. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22476-81	3.6	360
346	Heterostructured WS ₂ /CH ₃ NH ₃ PbI ₃ Photoconductors with Suppressed Dark Current and Enhanced Photodetectivity. <i>Advanced Materials</i> , 2016 , 28, 3683-9	24	319
345	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor InSe. <i>Nano Letters</i> , 2018 , 18, 1253-1258	11.5	293
344	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. <i>Nanotechnology</i> , 2009 , 20, 085203	3.4	286
343	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , 2017 , 5, 1600704	8.1	277
342	Growing crystalline chalcogenidoarsenates in surfactants: from zero-dimensional cluster to three-dimensional framework. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1256-9	16.4	251
341	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 3383-90	24	238
340	Electroresistance and electronic phase separation in mixed-valent manganites. <i>Physical Review Letters</i> , 2001 , 86, 5998-6001	7.4	233

339	Simple and rapid synthesis of ultrathin gold nanowires, their self-assembly and application in surface-enhanced Raman scattering. <i>Chemical Communications</i> , 2009 , 1984-6	5.8	226
338	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	15.6	216
337	Correlated d ₀ ferromagnetism and photoluminescence in undoped ZnO nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 112511	3.4	215
336	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	3.8	209
335	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , 2016 , 28, 8144-8149	24	206
334	Efficient Electrocatalytic Reduction of CO by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO Refinery. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7847-7852	16.4	202
333	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. <i>Advanced Materials</i> , 2008 , 20, 3521-3527	24	200
332	Micro-light-emitting diodes with quantum dots in display technology. <i>Light: Science and Applications</i> , 2020 , 9, 83	16.7	181
331	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , 2018 , 9, 5354	17.4	177
330	Hotspot-induced transformation of surface-enhanced Raman scattering fingerprints. <i>ACS Nano</i> , 2010 , 4, 3087-94	16.7	172
329	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	16.7	168
328	Gas chromatography-mass spectrometry analyses of encapsulated stable perovskite solar cells. <i>Science</i> , 2020 , 368,	33.3	167
327	Defect-induced magnetism in undoped wide band gap oxides: Zinc vacancies in ZnO as an example. <i>AIP Advances</i> , 2011 , 1, 022152	1.5	166
326	Cu-Doped ZnO Nanoneedles and Nanonails: Morphological Evolution and Physical Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9579-9585	3.8	160
325	Ultrathin Cu ₂ O as an efficient inorganic hole transporting material for perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 6173-9	7.7	157
324	Electrode dependence of resistive switching in Mn-doped ZnO: Filamentary versus interfacial mechanisms. <i>Applied Physics Letters</i> , 2010 , 96, 192113	3.4	150
323	Polymer-encapsulated gold-nanoparticle dimers: facile preparation and catalytical application in guided growth of dimeric ZnO-nanowires. <i>Nano Letters</i> , 2008 , 8, 2643-7	11.5	147
322	Robust room-temperature ferromagnetism with giant anisotropy in Nd-doped ZnO nanowire arrays. <i>Nano Letters</i> , 2012 , 12, 3994-4000	11.5	146

321	Scalable Routes to Janus AuBiO ₂ and Ternary AgBiO ₂ Nanoparticles. <i>Chemistry of Materials</i> , 2010 , 22, 3826-3828	9.6	145
320	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped In ₂ O ₃ nanostructures. <i>Physical Review B</i> , 2009 , 79,	3.3	145
319	Configurable Resistive Switching between Memory and Threshold Characteristics for Protein-Based Devices. <i>Advanced Functional Materials</i> , 2015 , 25, 3825-3831	15.6	142
318	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , 2016 , 7, 13407	17.4	140
317	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12360-12364	16.4	133
316	A Versatile Light-Switchable Nanorod Memory: Wurtzite ZnO on Perovskite SrTiO ₃ . <i>Advanced Functional Materials</i> , 2013 , 23, 4977-4984	15.6	133
315	Surfactant media to grow new crystalline cobalt 1,3,5-benzenetricarboxylate metal-organic frameworks. <i>Inorganic Chemistry</i> , 2014 , 53, 8529-37	5.1	131
314	Defects-Mediated Energy Transfer in Red-Light-Emitting Eu-Doped ZnO Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22729-22735	3.8	131
313	Optically controlled electroresistance and electrically controlled photovoltage in ferroelectric tunnel junctions. <i>Nature Communications</i> , 2016 , 7, 10808	17.4	127
312	Universal ferroelectric switching dynamics of vinylidene fluoride-trifluoroethylene copolymer films. <i>Scientific Reports</i> , 2014 , 4, 4772	4.9	126
311	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1704665	15.6	126
310	Tailoring the photoluminescence of ZnO nanowires using Au nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 435711	3.4	124
309	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017 , 8, 13592	17.4	123
308	Interfacial spin glass state and exchange bias in manganite bilayers with competing magnetic orders. <i>Physical Review B</i> , 2013 , 87,	3.3	119
307	Realizing a SnO ₂ -based ultraviolet light-emitting diode via breaking the dipole-forbidden rule. <i>NPG Asia Materials</i> , 2012 , 4, e30-e30	10.3	119
306	Photoluminescence characteristics of high quality ZnO nanowires and its enhancement by polymer covering. <i>Applied Physics Letters</i> , 2010 , 96, 023111	3.4	116
305	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	6.3	115
304	Tuning metal-carboxylate coordination in crystalline metal-organic frameworks through surfactant media. <i>Journal of Solid State Chemistry</i> , 2013 , 206, 27-31	3.3	115

303	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602803	21.8	115
302	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. <i>Applied Physics Letters</i> , 2011 , 98, 193113	3.4	115
301	Multiferroic oxide thin films and heterostructures. <i>Applied Physics Reviews</i> , 2015 , 2, 021304	17.3	112
300	Hydrazine-hydrothermal method to synthesize three-dimensional chalcogenide framework for photocatalytic hydrogen generation. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2644-2649	3.3	111
299	A surfactant-thermal method to prepare four new three-dimensional heterometal-organic frameworks. <i>Dalton Transactions</i> , 2013 , 42, 11367-70	4.3	110
298	Bound magnetic polarons and p-d exchange interaction in ferromagnetic insulating Cu-doped ZnO. <i>Applied Physics Letters</i> , 2011 , 98, 162503	3.4	106
297	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	7.1	104
296	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 1782-1788	20.1	103
295	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 6-14	6.4	101
294	Superconductivity at 56 K in samarium-doped SrFeAsF. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 142203	1.8	100
293	General strategy for fabricating thoroughly mesoporous nanofibers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16716-9	16.4	99
292	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. <i>Nature Communications</i> , 2018 , 9, 4299	17.4	98
291	Controlling the Growth Mechanism of ZnO Nanowires by Selecting Catalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17500-17505	3.8	97
290	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, 28404-11	9.5	94
289	Deterministic conversion between memory and threshold resistive switching via tuning the strong electron correlation. <i>Scientific Reports</i> , 2012 , 2, 442	4.9	93
288	UV light emitting transparent conducting tin-doped indium oxide (ITO) nanowires. <i>Nanotechnology</i> , 2011 , 22, 195706	3.4	93
287	Coexistence of ferroelectric triclinic phases in highly strained BiFeO ₃ films. <i>Physical Review B</i> , 2011 , 84,	3.3	92
286	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	6.3	91

285	Aminosilane micropatterns on hydroxyl-terminated substrates: fabrication and applications. <i>Langmuir</i> , 2010 , 26, 5603-9	4	91
284	P-type electrical, photoconductive, and anomalous ferromagnetic properties of Cu ₂ O nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 113106	3.4	90
283	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2017 , 29, 1602432	24	87
282	2D Organic-Inorganic Hybrid Thin Films for Flexible UV-Visible Photodetectors. <i>Advanced Functional Materials</i> , 2017 , 27, 1605554	15.6	87
281	Symmetrical negative differential resistance behavior of a resistive switching device. <i>ACS Nano</i> , 2012 , 6, 2517-23	16.7	87
280	Observation of magnetoelectric effect in epitaxial ferroelectric film/manganite crystal heterostructures. <i>Physical Review B</i> , 2006 , 73,	3.3	86
279	Tuning ferromagnetism in Mg _x Zn _{1-x} O thin films by band gap and defect engineering. <i>Applied Physics Letters</i> , 2010 , 97, 102506	3.4	84
278	Ferroelectric transistors with nanowire channel: toward nonvolatile memory applications. <i>ACS Nano</i> , 2009 , 3, 700-6	16.7	82
277	Sb ₂ Te ₃ Nanoparticles with Enhanced Seebeck Coefficient and Low Thermal Conductivity. <i>Chemistry of Materials</i> , 2010 , 22, 3086-3092	9.6	77
276	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	9.5	76
275	Exciton localization and optical properties improvement in nanocrystal-embedded ZnO core-shell nanowires. <i>Nano Letters</i> , 2013 , 13, 734-9	11.5	76
274	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. <i>Science Advances</i> , 2019 , 5, eaav3780	14.3	74
273	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021 , 12, 466	17.4	73
272	Bandgap engineering of Cu ₂ CdxZn _{1-x} SnS ₄ alloy for photovoltaic applications: A complementary experimental and first-principles study. <i>Journal of Applied Physics</i> , 2013 , 114, 183506	2.5	72
271	Effect of pressure on the superconducting and spin-density-wave states of SmFeAsO _{1-x} F _x . <i>Physical Review B</i> , 2008 , 78,	3.3	72
270	Oxide nanowires for spintronics: materials and devices. <i>Nanoscale</i> , 2012 , 4, 1529-40	7.7	70
269	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2011 , 98, 242502	3.4	70
268	Complementary charge trapping and ionic migration in resistive switching of rare-earth manganite TbMnO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1213-7	9.5	69

267	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. <i>Nanotechnology</i> , 2010 , 21, 255701	3.4	69
266	Nonvolatile resistive switching in spinel ZnMn ₂ O ₄ and ilmenite ZnMnO ₃ . <i>Applied Physics Letters</i> , 2009 , 95, 152106	3.4	69
265	Electrostatic Modulation of LaAlO ₃ /SrTiO ₃ Interface Transport in an Electric Double-Layer Transistor. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300001	4.6	68
264	High-Performance Ultraviolet-to-Infrared Broadband Perovskite Photodetectors Achieved via Inter-/Intraband Transitions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37832-37838	9.5	67
263	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</i> , 2017 , 129, 7955-7960	3.6	66
262	A Photodetector Based on p-Si/n-ZnO Nanotube Heterojunctions with High Ultraviolet Responsivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37120-37127	9.5	66
261	Role of donor-acceptor complexes and impurity band in stabilizing ferromagnetic order in Cu-doped SnO ₂ thin films. <i>Applied Physics Letters</i> , 2012 , 100, 172402	3.4	66
260	Tunable wettability in surface-modified ZnO-based hierarchical nanostructures. <i>Applied Physics Letters</i> , 2008 , 92, 173104	3.4	65
259	Giant Optical Anisotropy of Perovskite Nanowire Array Films. <i>Advanced Functional Materials</i> , 2020 , 30, 1909275	15.6	64
258	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. <i>Applied Physics Letters</i> , 2011 , 99, 021107	3.4	64
257	Characteristics of ultraviolet photoluminescence from high quality tin oxide nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 061908	3.4	63
256	Mechanism of polarization fatigue in BiFeO ₃ . <i>ACS Nano</i> , 2012 , 6, 8997-9004	16.7	61
255	Origin of green emission and charge trapping dynamics in ZnO nanowires. <i>Physical Review B</i> , 2013 , 87,	3.3	61
254	Emergent ferromagnetism in ZnO/Al ₂ O ₃ core-shell nanowires: Towards oxide spinterfaces. <i>Applied Physics Letters</i> , 2013 , 103, 022402	3.4	60
253	Spin-polarized transport across a La _{0.7} Sr _{0.3} MnO ₃ /YBa ₂ Cu ₃ O _{7-δ} interface: Role of Andreev bound states. <i>Physical Review B</i> , 2001 , 63,	3.3	59
252	Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , 2021 , 9, 2001708	8.1	59
251	Photocurrent generation in lateral graphene p-n junction created by electron-beam irradiation. <i>Scientific Reports</i> , 2015 , 5, 12014	4.9	58
250	Hybrid Organic/Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020 , 5, 1487-1497	20.1	58

249	Magnetization steps in manganite films: Time delay of the metamagnetic transition. <i>Physical Review B</i> , 2004 , 69,	3.3	58
248	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. <i>Nature Communications</i> , 2019 , 10, 243	17.4	58
247	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018 , 30, e1801661	24	58
246	Highly flexible and robust N-doped SiC nanoneedle field emitters. <i>NPG Asia Materials</i> , 2015 , 7, e157-e157	10.3	57
245	Multiferroic composite ferroelectric-ferromagnetic films. <i>Applied Physics Letters</i> , 2005 , 87, 232908	3.4	57
244	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018 , 3, 1492-1498	20.1	56
243	Device Performance of the Mott Insulator LaVO ₃ as a Photovoltaic Material. <i>Physical Review Applied</i> , 2015 , 3,	4.3	54
242	Toroidal micelles of polystyrene- block -poly(acrylic acid). <i>Small</i> , 2011 , 7, 2721-6	11	54
241	High-Performance Near-Infrared Phototransistor Based on n-Type Small-Molecular Organic Semiconductor. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600430	6.4	52
240	Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Acceleration of Charge Recombination and Deterioration of Charge Extraction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35018-35029	9.5	52
239	Solution-processed resistive switching memory devices based on hybrid organic-inorganic materials and composites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23837-23846	3.6	51
238	Creation and annihilation of conducting filaments in mesoscopic manganite structures. <i>Physical Review B</i> , 2006 , 74,	3.3	51
237	Self-assembled shape- and orientation-controlled synthesis of nanoscale Cu ₃ Si triangles, squares, and wires. <i>Nano Letters</i> , 2008 , 8, 3205-10	11.5	50
236	Polaronic transport and magnetism in Ag-doped ZnO. <i>Applied Physics Letters</i> , 2011 , 99, 222511	3.4	49
235	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	2.5	49
234	Tailoring the charge carrier dynamics in ZnO nanowires: the role of surface hole/electron traps. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3075-82	3.6	48
233	Synthesis, characterization and opto-electrical properties of ternary Zn ₂ SnO ₄ nanowires. <i>Nanotechnology</i> , 2010 , 21, 465706	3.4	48
232	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , 2021 , 33, e2005000	4	48

231	Charge transfer dynamics in Cu-doped ZnO nanowires. <i>Applied Physics Letters</i> , 2011 , 98, 102105	3-4	47
230	Investigation of the conversion mechanism of nanosized CoF ₂ . <i>Electrochimica Acta</i> , 2013 , 107, 301-312	6-7	46
229	Evidence of cation vacancy induced room temperature ferromagnetism in Li-N codoped ZnO thin films. <i>Applied Physics Letters</i> , 2011 , 99, 182503	3-4	46
228	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	3-4	46
227	Tuning the Surface-Passivating Ligand Anchoring Position Enables Phase Robustness in CsPbI ₃ Perovskite Quantum Dot Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 3322-3329	20.1	46
226	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, 4964-8	24	45
225	Fabry-Pérot Oscillation and Room Temperature Lasing in Perovskite Cube-Corner Pyramid Cavities. <i>Small</i> , 2018 , 14, 1703136	11	44
224	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29821-29829	9-5	44
223	Ferroelectric BiFeO as an Oxide Dye in Highly Tunable Mesoporous All-Oxide Photovoltaic Heterojunctions. <i>Small</i> , 2017 , 13, 1602355	11	44
222	Low symmetry monoclinic MC phase in epitaxial BiFeO ₃ thin films on LaSrAlO ₄ substrates. <i>Applied Physics Letters</i> , 2010 , 97, 242903	3-4	44
221	Piezoelectricity in two-dimensional materials. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4432-4434	16.4	43
220	Electrostatic tuning of Kondo effect in a rare-earth-doped wide-band-gap oxide. <i>Physical Review B</i> , 2013 , 87,	3-3	43
219	Nonvolatile Resistive Switching in Pt/LaAlO ₃ /SrTiO ₃ Heterostructures. <i>Physical Review X</i> , 2013 , 3,	9.1	43
218	Rayleigh-instability-driven simultaneous morphological and compositional transformation from Co nanowires to CoO octahedra. <i>Applied Physics Letters</i> , 2010 , 97, 203112	3-4	43
217	Tuning magnetoresistance and exchange coupling in ZnO by doping transition metals. <i>Applied Physics Letters</i> , 2011 , 99, 222503	3-4	43
216	Ultraviolet coherent random lasing in randomly assembled SnO ₂ nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 241121	3-4	43
215	Photoinduced modulation and relaxation characteristics in LaAlO ₃ /SrTiO ₃ heterointerface. <i>Scientific Reports</i> , 2015 , 5, 8778	4-9	41
214	Anomalous exchange bias at collinear/noncollinear spin interface. <i>Scientific Reports</i> , 2013 , 3,	4-9	41

213	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, 4785-91	16.7	41
212	Ferromagnetic interaction between Cu ions in the bulk region of Cu-doped ZnO nanowires. <i>Physical Review B</i> , 2011 , 84,	3.3	41
211	Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. <i>Advanced Functional Materials</i> , 2020 , 30, 2002110	15.6	40
210	Dye-sensitized solar cell with a pair of carbon-based electrodes. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 165103	3	40
209	Ultraviolet light emission and excitonic fine structures in ultrathin single-crystalline indium oxide nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 031902	3.4	40
208	Surfactant-thermal syntheses, structures, and magnetic properties of Mn-Ge-sulfides/selenides. <i>Inorganic Chemistry</i> , 2014 , 53, 10248-56	5.1	39
207	Epitaxy-enabled vapor-liquid-solid growth of tin-doped indium oxide nanowires with controlled orientations. <i>Nano Letters</i> , 2014 , 14, 4342-51	11.5	39
206	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	3.4	39
205	Nanoscale resistive switching and filamentary conduction in NiO thin films. <i>Applied Physics Letters</i> , 2010 , 97, 132108	3.4	39
204	Evolution of magnetic bubble domains in manganite films. <i>Applied Physics Letters</i> , 2011 , 99, 042503	3.4	39
203	Uniaxial tensile strain and exciton-phonon coupling in bent ZnO nanowires. <i>Applied Physics Letters</i> , 2011 , 98, 241916	3.4	39
202	Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. <i>Advanced Functional Materials</i> , 2020 , 30, 2002993	15.6	39
201	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	17.1	39
200	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	5.7	38
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