

# Tom Wu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7585822/tom-wu-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

356  
papers

24,387  
citations

79  
h-index

143  
g-index

379  
ext. papers

27,651  
ext. citations

9  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
356	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces.. <i>Advanced Materials</i> , <b>2022</b> , e2108616	24	12
355	A facile approach to tailor electrocatalytic properties of MnO <sub>2</sub> through tuning phase transition, surface morphology and band structure. <i>Chemical Engineering Journal</i> , <b>2022</b> , 438, 135561	14.7	3
354	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste <b>2022</b> , 4, 120-127		2
353	Anomalous Structural Evolution and Glassy Lattice in Mixed-Halide Hybrid Perovskites.. <i>Small</i> , <b>2022</b> , e2200847	10.87	1
352	High- $\kappa$ Perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , <b>2022</b> , 605, 262-267	50.4	16
351	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , <b>2021</b> , e2102258	13.6	8
350	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO <sub>2</sub> selective sensing. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100954	6.6	10
349	Hybrid Perovskite Quantum Dot/Non-Fullerene Molecule Solar Cells with Efficiency Over 15%. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101272	15.6	23
348	Understanding the Role of Vanadium Vacancies in BiVO <sub>4</sub> for Efficient Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 3553-3565	9.6	18
347	Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100354	21.8	25
346	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005000	44	48
345	First-Principles Optimization of Out-of-Plane Charge Transport in DionJacobson CsPbI <sub>3</sub> Perovskites with $\pi$ -Conjugated Aromatic Spacers. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102330	15.6	12
344	Pressure effects on iron-based superconductor families: Superconductivity, flux pinning and vortex dynamics. <i>Materials Today Physics</i> , <b>2021</b> , 19, 100414	8	4
343	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> , <b>2021</b> , 31, 2008245	15.6	17
342	Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001708	8.1	59
341	Optimizing Surface Chemistry of PbS Colloidal Quantum Dot for Highly Efficient and Stable Solar Cells via Chemical Binding. <i>Advanced Science</i> , <b>2021</b> , 8, 2003138	13.6	16
340	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , <b>2021</b> , 12, 466	17.4	73

339	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of TiCT MXene Contacts. <i>ACS Nano</i> , <b>2021</b> , 15, 5221-5229	16.7	12
338	Bridging NiCo layered double hydroxides and Ni <sub>3</sub> S <sub>2</sub> for bifunctional electrocatalysts: The role of vertical graphene. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 129048	14.7	13
337	Non-Fullerene Molecules: Hybrid Perovskite Quantum Dot/Non-Fullerene Molecule Solar Cells with Efficiency Over 15% (Adv. Funct. Mater. 27/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170196	15.6	1
336	Giant Bulk Photostriction and Accurate Photomechanical Actuation in Hybrid Perovskites. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100837	8.1	1
335	New insights on the substantially reduced bandgap of bismuth layered perovskite oxide thin films. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 3161-3170	7.1	3
334	One-Dimensional Molecular Metal Halide Materials: Structures, Properties, and Applications. <i>Small Structures</i> , <b>2021</b> , 2, 2000062	8.7	18
333	Colossal Magnetization and Giant Coercivity in Ion-Implanted (Nb and Co) MoS Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 58140-58148	9.5	8
332	Microwave Synthesis and High-Mobility Charge Transport of Carbon-Nanotube-in-Perovskite Single Crystals. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001740	8.1	9
331	Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26258-26266	9.5	30
330	Emergence of Ferroelectricity in Halide Perovskites. <i>Small Methods</i> , <b>2020</b> , 4, 2000149	12.8	37
329	Micro-light-emitting diodes with quantum dots in display technology. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 83	16.7	181
328	Enhancing Resistive Switching Performance and Ambient Stability of Hybrid Perovskite Single Crystals via Embedding Colloidal Quantum Dots. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002948	15.6	34
327	Gas chromatography-mass spectrometry analyses of encapsulated stable perovskite solar cells. <i>Science</i> , <b>2020</b> , 368,	33.3	167
326	Tuning Magnetism and Photocurrent in Mn-Doped Organic-Inorganic Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 2577-2584	6.4	19
325	Shape and Orientation Controlled Hydrothermal Synthesis of Silicide and Metal Dichalcogenide on a Silicon Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18850-18858	9.5	7
324	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1487-1497	20.1	58
323	Oxidation Kinetics of WTe <sub>2</sub> Surfaces in Different Environments. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2196-2202	4	13
322	Facile Patterning of Silver Nanowires with Controlled Polarities via Inkjet-Assisted Manipulation of Interface Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 34086-34094	9.5	11

3 <sup>21</sup>	Single-Crystal Hybrid Perovskite Platelets on Graphene: A Mixed-Dimensional Van Der Waals Heterostructure with Strong Interface Coupling. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909672	15.6	22
3 <sup>20</sup>	Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905578	24	23
3 <sup>19</sup>	Giant Optical Anisotropy of Perovskite Nanowire Array Films. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909275	15.6	64
3 <sup>18</sup>	Correlating the Composition-Dependent Structural and Electronic Dynamics of Inorganic Mixed Halide Perovskites. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2470-2481	9.6	14
3 <sup>17</sup>	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. <i>ACS Nano</i> , <b>2020</b> , 14, 3969-3979	16.7	19
3 <sup>16</sup>	Improving thermal and electrical stability of silver nanowire network electrodes through integrating graphene oxide intermediate layers. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 566, 375-382	9.3	20
3 <sup>15</sup>	Enhanced Power Conversion Efficiency via Hybrid Ligand Exchange Treatment of p-Type PbS Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 22751-22759	9.5	17
3 <sup>14</sup>	Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002110	15.6	40
3 <sup>13</sup>	Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. <i>Photonics Research</i> , <b>2020</b> , 8, A56	6	17
3 <sup>12</sup>	Light-Enhanced Spin Diffusion in Hybrid Perovskite Thin Films and Single Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3205-3213	9.5	8
3 <sup>11</sup>	Quantum-Dot Tandem Solar Cells Based on a Solution-Processed Nanoparticle Intermediate Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2313-2318	9.5	8
3 <sup>10</sup>	Organic intercalation engineering of quasi-2D Dion-Jacobson $\text{CsPbI}_3$ perovskites. <i>Materials Horizons</i> , <b>2020</b> , 7, 1042-1050	14.4	33
3 <sup>09</sup>	Topotactic phase transformations by concerted dual-ion migration of B-site cation and oxygen in multivalent cobaltite $\text{LaBrCoO}_x$ films. <i>Nano Energy</i> , <b>2020</b> , 78, 105215	17.1	9
3 <sup>08</sup>	Tuning the Surface-Passivating Ligand Anchoring Position Enables Phase Robustness in $\text{CsPbI}_3$ Perovskite Quantum Dot Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3322-3329	20.1	46
3 <sup>07</sup>	Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of -1800. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47848-47853	9.5	3
3 <sup>06</sup>	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000453	21.8	20
3 <sup>05</sup>	A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 031401	17.3	30
3 <sup>04</sup>	All-inorganic dual-phase halide perovskite nanorings. <i>Nano Research</i> , <b>2020</b> , 13, 2994-3000	10	10

303	Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002993	15.6	39
302	Highly UV Resistant Inch-Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , <b>2020</b> , 7, 19024396	13.96	19
301	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38376-38385	9.5	15
300	Manipulation of planar oxygen defect arrangements in multifunctional magnon titanium oxide hybrid systems: from energy conversion to water treatment. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 5080-5096	35.4	6
299	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals <b>2020</b> , 2, 1368-1374		22
298	Two-Dimensional Electron Gas at the Spinel/Perovskite Interface: Suppression of Polar Catastrophe by an Ultrathin Layer of Interfacial Defects. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 42982-42991	9.5	5
297	Enhancing the Efficiency and Stability of PbS Quantum Dot Solar Cells through Engineering an Ultrathin NiO Nanocrystalline Interlayer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46239-46246	9.5	12
296	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv. Energy Mater. 34/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070144	21.8	1
295	Nonvolatile Multistates Memories for High-Density Data Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 42449-42471	9.5	36
294	High Coercivity and Magnetization in WSe by Codoping Co and Nb. <i>Small</i> , <b>2020</b> , 16, e1903173	11	21
293	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , <b>2020</b> , 73, 104801	17.1	39
292	Electro-thermally driven flexible robot arms based on stacking-controlled graphite nanocomposites. <i>Carbon</i> , <b>2019</b> , 152, 873-881	10.4	26
291	Plasmonic-Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900138	7.1	21
290	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. <i>Science Advances</i> , <b>2019</b> , 5, eaav3780	14.3	74
289	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2363-2371	6.4	20
288	Formation of DY center as n-type limiting defects in octahedral semiconductors: the case of Bi-doped hybrid halide perovskites. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4230-4234	7.1	33
287	Electron-beam irradiation-hard metal-halide perovskite nanocrystals. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10912-10917	13	25
286	A 0D Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1809166	15.6	23

285	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900865	8.1	27
284	Giant Electric Bias-Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901092	8.1	6
283	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> , <b>2019</b> , 64, 103922	17.1	34
282	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. <i>Nature Communications</i> , <b>2019</b> , 10, 3052	17.4	27
281	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29821-29829	9.5	44
280	Confinement-Induced Giant Spin-Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 43781-43788	9.5	3
279	Growth of Doped SrTiO Ferroelectric Nanoporous Thin Films and Tuning of Photoelectrochemical Properties with Switchable Ferroelectric Polarization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45683-45691	9.5	18
278	Stable Bandgap-Tunable Hybrid Perovskites with Alloyed Pb-Ba Cations for High-Performance Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 59-66	6.4	33
277	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. <i>Nature Communications</i> , <b>2019</b> , 10, 243	17.4	58
276	P-Type SnO Thin Film Phototransistor with Perovskite-Mediated Photogating. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800538	6.4	34
275	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor InSe. <i>Nano Letters</i> , <b>2018</b> , 18, 1253-1258	11.5	293
274	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 476-481	20.1	11
273	Fabry-Pérot Oscillation and Room Temperature Lasing in Perovskite Cube-Corner Pyramid Cavities. <i>Small</i> , <b>2018</b> , 14, 1703136	11	44
272	Strong Exciton-Photon Coupling and Lasing Behavior in All-Inorganic CsPbBr <sub>3</sub> Micro/Nanowire Fabry-Pérot Cavity. <i>ACS Photonics</i> , <b>2018</b> , 5, 2051-2059	6.3	115
271	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High-Performance Humidity Sensing. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11388-11392	3.6	
270	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 12540-12544	3.6	11
269	Innenrücktitelbild: Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering (Angew. Chem. 38/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 12765-12765	3.6	
268	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , <b>2018</b> , 561, 88-93	50.4	773

267	Solution-processed resistive switching memory devices based on hybrid organic-inorganic materials and composites. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 23837-23846	3.6	51
266	Ultra-high rate capability and ultralong cycling stability of sodium-ion batteries enabled by wrinkled black titania nanosheets with abundant oxygen vacancies. <i>Nano Energy</i> , <b>2018</b> , 53, 91-96	17.1	34
265	Strain-Enhanced Charge Transfer and Magnetism at a Manganite/Nickelate Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30803-30810	9.5	13
264	Observation of superconductivity in structure-selected Ti <sub>2</sub> O <sub>3</sub> thin films. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 522-532	10.3	20
263	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4383-4392	9.6	20
262	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12360-12364	16.4	133
261	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704665	15.6	126
260	Orthorhombic Ti <sub>2</sub> O <sub>3</sub> : A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705657	15.6	21
259	Colossal X-Ray-Induced Persistent Photoconductivity in Current-Perpendicular-to-Plane Ferroelectric/Semiconductor Junctions. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704337	15.6	19
258	Ferroelectric Polarization Rotation in Order-Disorder-Type LiNbO <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41471-41478	9.5	6
257	Self-Organized Ferroelectric Domains Controlled by a Constant Bias from the Atomic Force Microscopy Tip. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 40911-40917	9.5	7
256	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , <b>2018</b> , 9, 5354	17.4	177
255	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. <i>Nature Communications</i> , <b>2018</b> , 9, 4299	17.4	98
254	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870260	24	3
253	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> , <b>2018</b> , 122, 15010-15016	3.8	3
252	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1492-1498	20.1	56
251	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801661	24	58
250	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for High-Performance Humidity Sensing. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11218-11222	16.4	21

249	Morphology-Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800413	8.1	26
248	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602432	24	87
247	2D Organic-Inorganic Hybrid Thin Films for Flexible UV-Visible Photodetectors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605554	15.6	87
246	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 &amp; Interfaces</i> , <b>2017</b> , 9, 15605-15614	9.5	76
245	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> , <b>2017</b> , 56, 7847-7852	16.4	202
244	Efficient Electrocatalytic Reduction of CO <sub>2</sub> by Nitrogen-Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO <sub>2</sub> Refinery. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7955-7960	3.6	66
243	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> , <b>2017</b> , 11, 4358-4364	16.7	168
242	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600704	8.1	277
241	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , <b>2017</b> , 8, 13592	17.4	123
240	High-Performance Near-Infrared Phototransistor Based on n-Type Small-Molecular Organic Semiconductor. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600430	6.4	52
239	High-Performance Ultraviolet-to-Infrared Broadband Perovskite Photodetectors Achieved via Inter-/Intraband Transitions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37832-37838	9.5	67
238	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 &amp; Interfaces</i> , <b>2017</b> , 9, 35018-35029	9.5	52
237	A Photodetector Based on p-Si/n-ZnO Nanotube Heterojunctions with High Ultraviolet Responsivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37120-37127	9.5	66
236	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602803	21.8	115
235	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1782-1788	20.1	103
234	High-Performance Photothermal Conversion of Narrow-Bandgap TiO <sub>2</sub> Nanoparticles. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603730	24	529
233	Ferroelectric BiFeO <sub>3</sub> as an Oxide Dye in Highly Tunable Mesoporous All-Oxide Photovoltaic Heterojunctions. <i>Small</i> , <b>2017</b> , 13, 1602355	11	44
232	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. <i>Optics Letters</i> , <b>2017</b> , 42, 3618-3621	3	17

231	Schottky junctions on perovskite single crystals: light-modulated dielectric constant and self-biased photodetection. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8304-8312	7.1	104
230	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , <b>2016</b> , 28, 8144-8149	24	206
229	Interfacial effects revealed by ultrafast relaxation dynamics in BiFeO <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> bilayers. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	6
228	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , <b>2016</b> , 7, 13407	17.4	140
227	Optically controlled electroresistance and electrically controlled photovoltage in ferroelectric tunnel junctions. <i>Nature Communications</i> , <b>2016</b> , 7, 10808	17.4	127
226	Size-Induced Switching of Nanowire Growth Direction: a New Approach Toward Kinked Nanostructures. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3687-3695	15.6	6
225	Heterostructured WS <sub>2</sub> /CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Photoconductors with Suppressed Dark Current and Enhanced Photodetectivity. <i>Advanced Materials</i> , <b>2016</b> , 28, 3683-9	24	319
224	Gibbs-Thomson Effect in Planar Nanowires: Orientation and Doping Modulated Growth. <i>Nano Letters</i> , <b>2016</b> , 16, 4158-65	11.5	17
223	Ultrathin Cu <sub>2</sub> O as an efficient inorganic hole transporting material for perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 6173-9	7.7	157
222	Crystal structure of hexa-kis-(dimethyl sulfoxide)-manganese(II) tetra-iodide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , <b>2016</b> , 72, 1791-1793	0.7	5
221	Shape-Enhanced Photocatalytic Activities of Thoroughly Mesoporous ZnO Nanofibers. <i>Small</i> , <b>2016</b> , 12, 4007-17	11	36
220	Nanoscale Chemical and Valence Evolution at the Metal/Oxide Interface: A Case Study of Ti/SrTiO <sub>3</sub> . <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600201	4.6	21
219	ZnO Nanorods on a LaAlO <sub>3</sub> -SrTiO <sub>3</sub> Interface: Hybrid 1D-2D Diodes with Engineered Electronic Properties. <i>Small</i> , <b>2016</b> , 12, 802-9	11	4
218	Manganite/Cuprate Superlattice as Artificial Reentrant Spin Glass. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500676	4.6	19
217	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 3383-90	24	238
216	Ferroelectric Polarization Switching Dynamics and Domain Growth of Triglycine Sulfate and Imidazolium Perchlorate. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600038	6.4	26
215	Real-Space Mapping of Surface Trap States in CIGSe Nanocrystals Using 4D Electron Microscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 4417-23	11.5	20
214	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 32-37	20.1	551

213	Piezoelectricity in two-dimensional materials. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 4432-4436	4.4	43
212	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , <b>2015</b> , 6, 7586	17.4	1164
211	Photocurrent generation in lateral graphene p-n junction created by electron-beam irradiation. <i>Scientific Reports</i> , <b>2015</b> , 5, 12014	4.9	58
210	Device Performance of the Mott Insulator LaVO <sub>3</sub> as a Photovoltaic Material. <i>Physical Review Applied</i> , <b>2015</b> , 3,	4.3	54
209	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. <i>ACS Photonics</i> , <b>2015</b> , 2, 849-855	6.3	91
208	Photoinduced modulation and relaxation characteristics in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterointerface. <i>Scientific Reports</i> , <b>2015</b> , 5, 8778	4.9	41
207	Evolution of the SrTiO <sub>3</sub> -MoO <sub>3</sub> Interface Electronic Structure: An in Situ Photoelectron Spectroscopy Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11309-14	9.5	20
206	Anisotropic imprint of amorphization and phase separation in manganite thin films via laser interference irradiation. <i>Small</i> , <b>2015</b> , 11, 576-84	11	9
205	Tunable room-temperature ferromagnet using an iron-oxide and graphene oxide nanocomposite. <i>Scientific Reports</i> , <b>2015</b> , 5, 11430	4.9	10
204	Ambipolar solution-processed hybrid perovskite phototransistors. <i>Nature Communications</i> , <b>2015</b> , 6, 8238	17.4	447
203	CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3781-6	6.4	507
202	Piezoelektrizität in zweidimensionalen Materialien. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 4508-4510	3.6	5
201	Configurable Resistive Switching between Memory and Threshold Characteristics for Protein-Based Devices. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3825-3831	15.6	142
200	Colossal positive magnetoresistance in surface-passivated oxygen-deficient strontium titanite. <i>Scientific Reports</i> , <b>2015</b> , 5, 10255	4.9	22
199	Multiferroic oxide thin films and heterostructures. <i>Applied Physics Reviews</i> , <b>2015</b> , 2, 021304	17.3	112
198	Fast Crystallization and Improved Stability of Perovskite Solar Cells with Zn <sub>2</sub> SnO <sub>4</sub> Electron Transporting Layer: Interface Matters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 28404-11	9.5	94
197	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 137, 6-14	6.4	101
196	Highly flexible and robust N-doped SiC nanoneedle field emitters. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e157-e157	10.3	57

195	Universal ferroelectric switching dynamics of vinylidene fluoride-trifluoroethylene copolymer films. <i>Scientific Reports</i> , <b>2014</b> , 4, 4772	4.9	126
194	Asymmetric electroresistance of cluster glass state in manganites. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 133508	3.4	10
193	Interfacial magnetic coupling in ultrathin all-manganite La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> -TbMnO <sub>3</sub> superlattices. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 152404	3.4	24
192	Room temperature magnetic graphene oxide-iron oxide nanocomposite based magnetoresistive random access memory devices via spin-dependent trapping of electrons. <i>Small</i> , <b>2014</b> , 10, 1945-52	11	19
191	Electric field tuning of phase separation in manganite thin films. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	32
190	Perovskite Oxide SrTiO <sub>3</sub> as an Efficient Electron Transporter for Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28494-28501	3.8	209
189	Interface-induced magnetic coupling in multiferroic/ferromagnetic bilayer: An ultrafast pump-probe study. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 141602	3.4	6
188	Electrostatic Modulation of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface Transport in an Electric Double-Layer Transistor. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1300001	4.6	68
187	General strategy for fabricating thoroughly mesoporous nanofibers. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16716-9	16.4	99
186	Emergent vortices at a ferromagnetic superconducting oxide interface. <i>New Journal of Physics</i> , <b>2014</b> , 16, 103012	2.9	6
185	Favorable ultraviolet photoelectric effects in TbMnO <sub>3</sub> /NbBrTiO <sub>3</sub> heterostructures. <i>Solid State Communications</i> , <b>2014</b> , 199, 39-42	1.6	7
184	Space-charge-mediated anomalous ferroelectric switching in P(VDF-TrEE) polymer films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19057-63	9.5	12
183	Surfactant-thermal syntheses, structures, and magnetic properties of Mn-Ge-sulfides/selenides. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 10248-56	5.1	39
182	Temperature-dependent excitonic photoluminescence of hybrid organometal halide perovskite films. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 22476-81	3.6	360
181	Wavelength-Tuned Light Emission via Modifying the Band Edge Symmetry: Doped SnO <sub>2</sub> as an Example. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6365-6371	3.8	24
180	Surfactant media to grow new crystalline cobalt 1,3,5-benzenetricarboxylate metal-organic frameworks. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 8529-37	5.1	131
179	Epitaxy-enabled vapor-liquid-solid growth of tin-doped indium oxide nanowires with controlled orientations. <i>Nano Letters</i> , <b>2014</b> , 14, 4342-51	11.5	39
178	Prediction of giant magnetoelectric effect in LaMnO <sub>3</sub> /BaTiO <sub>3</sub> /SrMnO <sub>3</sub> superlattice: The role of n-type SrMnO <sub>3</sub> /LaMnO <sub>3</sub> interface. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 074102	2.5	10

177	Long-range electronic reconstruction to a dx <sub>z</sub> ,yz-dominated Fermi surface below the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Scientific Reports</i> , <b>2014</b> , 4, 5338	4.9	10
176	Influence of oxygen pressure and aging on LaAlO <sub>3</sub> films grown by pulsed laser deposition on SrTiO <sub>3</sub> substrates. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 081604	3.4	13
175	Positive magnetoresistance in ferromagnetic Nd-doped In <sub>2</sub> O <sub>3</sub> thin films grown by pulse laser deposition. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 202411	3.4	39
174	Room temperature positive magnetoresistance via charge trapping in polyaniline-iron oxide nanoparticle composites. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 032408	3.4	5
173	Photoinduced phase transition and relaxation in bare SrTiO <sub>3</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 033509	2.5	15
172	Emergent ferromagnetism in ZnO/Al <sub>2</sub> O <sub>3</sub> core-shell nanowires: Towards oxide spinterfaces. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 022402	3.4	60
171	Electric Field Effects in Functional Metal Oxides <b>2013</b> , 419-442		
170	Investigation of the conversion mechanism of nanosized CoF <sub>2</sub> . <i>Electrochimica Acta</i> , <b>2013</b> , 107, 301-312	6.7	46
169	Exciton localization and optical properties improvement in nanocrystal-embedded ZnO core-shell nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 734-9	11.5	76
168	Tuning metal-carboxylate coordination in crystalline metal-organic frameworks through surfactant media. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 206, 27-31	3.3	115
167	Bandgap engineering of Cu <sub>2</sub> CdxZn <sub>1-x</sub> SnS <sub>4</sub> alloy for photovoltaic applications: A complementary experimental and first-principles study. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 183506	2.5	72
166	A surfactant-thermal method to prepare four new three-dimensional heterometal-organic frameworks. <i>Dalton Transactions</i> , <b>2013</b> , 42, 11367-70	4.3	110
165	Effects of electrode material and configuration on the characteristics of planar resistive switching devices. <i>APL Materials</i> , <b>2013</b> , 1, 052106	5.7	21
164	Anisotropic surface strain in single crystalline cobalt nanowires and its impact on the diameter-dependent Young's modulus. <i>Nanoscale</i> , <b>2013</b> , 5, 11643-8	7.7	13
163	Growing crystalline chalcogenidoarsenates in surfactants: from zero-dimensional cluster to three-dimensional framework. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1256-9	16.4	251
162	Exchange coupling and coercivity enhancement in cuprate/manganite bilayers. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 032401	3.4	22
161	Interfacial spin glass state and exchange bias in manganite bilayers with competing magnetic orders. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	119
160	Effect of charge compensation on the photoelectrochemical properties of Ho-doped SrTiO <sub>3</sub> films. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 121905	3.4	20

159	A Versatile Light-Switchable Nanorod Memory: Wurtzite ZnO on Perovskite SrTiO <sub>3</sub> . <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4977-4984	15.6	133
158	Origin of green emission and charge trapping dynamics in ZnO nanowires. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	61
157	Density-controlled synthesis of uniform ZnO nanowires: wide-range tunability and growth regime transition. <i>Small</i> , <b>2013</b> , 9, 2069-75	11	12
156	Electrostatic tuning of Kondo effect in a rare-earth-doped wide-band-gap oxide. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	43
155	Polarization enhancement and ferroelectric switching enabled by interacting magnetic structures in DyMnO <sub>3</sub> thin films. <i>Scientific Reports</i> , <b>2013</b> , 3, 3374	4.9	34
154	Complementary charge trapping and ionic migration in resistive switching of rare-earth manganite TbMnO <sub>3</sub> <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1213-7	9.5	69
153	Anomalous exchange bias at collinear/noncollinear spin interface. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	41
152	Self-powered ultraviolet photovoltaic effects based on metal/SrTiO <sub>3</sub> Schottky junctions. <i>Europhysics Letters</i> , <b>2013</b> , 103, 57007	1.6	5
151	Nonvolatile Resistive Switching in Pt/LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>Physical Review X</i> , <b>2013</b> , 3,	9.1	43
150	Experimental and first-principles study of ferromagnetism in Mn-doped zinc stannate nanowires. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 033910	2.5	7
149	Suppression of photovoltaic effect by magnetic field in Pr <sub>0.65</sub> (Ca <sub>0.75</sub> Sr <sub>0.25</sub> ) <sub>0.35</sub> MnO <sub>3</sub> /Nb:SrTiO <sub>3</sub> heterostructure. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 212401	3.4	11
148	A general lithography-free method of microscale/nanoscale fabrication and patterning on Si and Ge surfaces. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 110	5	4
147	Tailoring the charge carrier dynamics in ZnO nanowires: the role of surface hole/electron traps. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 3075-82	3.6	48
146	Seeded growth of two-dimensional dendritic gold nanostructures. <i>Chemical Communications</i> , <b>2012</b> , 48, 1440-2	5.8	27
145	Intrinsic domain-wall resistivity in half-metallic manganite thin films. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	11
144	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(II)-based frameworks. <i>CrystEngComm</i> , <b>2012</b> , 14, 75-78	3.3	22
143	Mechanism of polarization fatigue in BiFeO <sub>3</sub> . <i>ACS Nano</i> , <b>2012</b> , 6, 8997-9004	16.7	61
142	Role of donor-acceptor complexes and impurity band in stabilizing ferromagnetic order in Cu-doped SnO <sub>2</sub> thin films. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 172402	3.4	66

141	Phase selection enabled formation of abrupt axial heterojunctions in branched oxide nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 275-80	11.5	27
140	Robust room-temperature ferromagnetism with giant anisotropy in Nd-doped ZnO nanowire arrays. <i>Nano Letters</i> , <b>2012</b> , 12, 3994-4000	11.5	146
139	Hole-mediated ferromagnetic enhancement and stability in Cu-doped ZnOS alloy thin films. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 075002	3	7
138	Realizing a SnO <sub>2</sub> -based ultraviolet light-emitting diode via breaking the dipole-forbidden rule. <i>NPG Asia Materials</i> , <b>2012</b> , 4, e30-e30	10.3	119
137	Domain-related origin of magnetic relaxation in compressively strained manganite thin films. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 012408	3.4	17
136	Electric field driven phase transition and possible twinning quasi-tetragonal phase in compressively strained BiFeO <sub>3</sub> thin films. <i>Frontiers of Physics</i> , <b>2012</b> , 7, 424-428	3.7	3
135	Deterministic conversion between memory and threshold resistive switching via tuning the strong electron correlation. <i>Scientific Reports</i> , <b>2012</b> , 2, 442	4.9	93
134	Dye-sensitized solar cell with a pair of carbon-based electrodes. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 165103	3	40
133	Oxide nanowires for spintronics: materials and devices. <i>Nanoscale</i> , <b>2012</b> , 4, 1529-40	7.7	70
132	Symmetrical negative differential resistance behavior of a resistive switching device. <i>ACS Nano</i> , <b>2012</b> , 6, 2517-23	16.7	87
131	Anisotropic magnetoresistance and weak spin-orbital coupling in doped ZnO thin films. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 052408	3.4	13
130	Dependence of negative differential resistance on electronic phase separation in unpatterned manganite films. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 062402	3.4	15
129	High sensitivity low field magnetically gated resistive switching in CoFe <sub>2</sub> O <sub>4</sub> /La <sub>0.66</sub> Sr <sub>0.34</sub> MnO <sub>3</sub> heterostructure. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 172412	3.4	29
128	Ultraviolet photovoltaic effect in BiFeO <sub>3</sub> /Nb-SrTiO <sub>3</sub> heterostructure. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 083506	2.5	10
127	Engineering magnetic domains in manganite thin films by laser interference. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 012403	3.4	10
126	Tunable photovoltaic effect and solar cell performance of self-doped perovskite SrTiO <sub>3</sub> . <i>AIP Advances</i> , <b>2012</b> , 2, 042131	1.5	28
125	Effect of annealing on the temperature-dependent dielectric properties of LaAlO <sub>3</sub> at terahertz frequencies. <i>AIP Advances</i> , <b>2012</b> , 2, 012120	1.5	7
124	Evidence of cation vacancy induced room temperature ferromagnetism in Li-N codoped ZnO thin films. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 182503	3.4	46

123	Ultra-sensitive and wide-dynamic-range sensors based on dense arrays of carbon nanotube tips. <i>Nanoscale</i> , <b>2011</b> , 3, 4854-8	7.7	33
122	Charge transfer dynamics in Cu-doped ZnO nanowires. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 102105	3.4	47
121	Defects-Mediated Energy Transfer in Red-Light-Emitting Eu-Doped ZnO Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 22729-22735	3.8	131
120	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 021107	3.4	64
119	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 193113	3.4	115
118	Polaronic transport and magnetism in Ag-doped ZnO. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 222511	3.4	49
117	Switching magnetoresistance in vertically interfaced Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> grown on ZnO nanowires. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 103102	3.4	4
116	Metal-layer-assisted coalescence of Au nanoparticles and its effect on diameter control in vapor-liquid-solid growth of oxide nanowires. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	25
115	Defect-induced magnetism in undoped wide band gap oxides: Zinc vacancies in ZnO as an example. <i>AIP Advances</i> , <b>2011</b> , 1, 022152	1.5	166
114	UV light emitting transparent conducting tin-doped indium oxide (ITO) nanowires. <i>Nanotechnology</i> , <b>2011</b> , 22, 195706	3.4	93
113	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> , <b>2011</b> , 509, 5426-5430	5.7	38
112	Nanoscale semiconductor-insulator-metal core/shell heterostructures: facile synthesis and light emission. <i>Nanoscale</i> , <b>2011</b> , 3, 3170-7	7.7	17
111	Interface-dependent rectifying TbMnO <sub>3</sub> -based heterojunctions. <i>AIP Advances</i> , <b>2011</b> , 1, 042129	1.5	21
110	Coexistence of ferroelectric triclinic phases in highly strained BiFeO <sub>3</sub> films. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	92
109	Enhanced electrical conductivity of individual conducting polymer nanobelts. <i>Small</i> , <b>2011</b> , 7, 1949-53	11	35
108	Toroidal micelles of polystyrene- block -poly(acrylic acid). <i>Small</i> , <b>2011</b> , 7, 2721-6	11	54
107	Low-Symmetry Monoclinic Phases and Polarization Rotation Path Mediated by Epitaxial Strain in Multiferroic BiFeO <sub>3</sub> Thin Films. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 133-138	15.6	216
106	A new hydrazine-bridged thioantimonate Mn <sub>2</sub> Sb <sub>4</sub> S <sub>8</sub> (N <sub>2</sub> H <sub>4</sub> ) <sub>2</sub> : Synthesis, structure, optical and magnetic properties. <i>Inorganic Chemistry Communication</i> , <b>2011</b> , 14, 884-888	3.1	36

105	Formation of complex nanostructures driven by polar surfaces. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15095		9
104	Ferromagnetic interaction between Cu ions in the bulk region of Cu-doped ZnO nanowires. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	41
103	Buffer-Layer-Assisted Epitaxial Growth of Perfectly Aligned Oxide Nanorod Arrays in Solution. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 4885-4891	3-5	17
102	A SIMS study on Mg diffusion in Zn <sub>0.94</sub> Mg <sub>0.06</sub> O/ZnO heterostructures grown by metal organic chemical vapor deposition. <i>Applied Surface Science</i> , <b>2011</b> , 257, 8629-8633	6-7	12
101	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. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 045102	3	26
100	Tuning magnetoresistance and exchange coupling in ZnO by doping transition metals. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 222503	3-4	43
99	Evolution of magnetic bubble domains in manganite films. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 042503	3-4	39
98	Uniaxial tensile strain and exciton-phonon coupling in bent ZnO nanowires. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 241916	3-4	39
97	Concurrent nonvolatile resistance and capacitance switching in LaAlO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2011</b> , 98, 093503	3-4	33
96	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 242502	3-4	70
95	Motion of micrometer sized spherical particles exposed to a transient radial flow: attraction, repulsion, and rotation. <i>Physical Review Letters</i> , <b>2011</b> , 107, 074503	7-4	26
94	Giant in-plane anisotropy in manganite thin films driven by strain-engineered double exchange interaction and electronic phase separation. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 122510	3-4	14
93	Bound magnetic polarons and p-d exchange interaction in ferromagnetic insulating Cu-doped ZnO. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 162503	3-4	106
92	Correlated d <sub>0</sub> ferromagnetism and photoluminescence in undoped ZnO nanowires. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 112511	3-4	215
91	Tunable magnetic interaction at the atomic scale in oxide heterostructures. <i>Physical Review Letters</i> , <b>2010</b> , 105, 167206	7-4	27
90	Ultraviolet light emission and excitonic fine structures in ultrathin single-crystalline indium oxide nanowires. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 031902	3-4	40
89	Rayleigh-instability-driven simultaneous morphological and compositional transformation from Co nanowires to CoO octahedra. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 203112	3-4	43
88	Bound magnetic polarons induced ferromagnetism in transition-metal-doped oxide nanostructures <b>2010</b> ,		1

87	Low symmetry monoclinic MC phase in epitaxial BiFeO <sub>3</sub> thin films on LaSrAlO <sub>4</sub> substrates. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 242903	3.4	44
86	Synthesis, characterization and opto-electrical properties of ternary Zn <sub>2</sub> SnO <sub>4</sub> nanowires. <i>Nanotechnology</i> , <b>2010</b> , 21, 465706	3.4	48
85	Sb <sub>2</sub> Te <sub>3</sub> Nanoparticles with Enhanced Seebeck Coefficient and Low Thermal Conductivity. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3086-3092	9.6	77
84	Ferromagnetism in dilute magnetic semiconductors through defect engineering: Li-doped ZnO. <i>Physical Review Letters</i> , <b>2010</b> , 104, 137201	7.4	39 <sup>1</sup>
83	Nanoscale resistive switching and filamentary conduction in NiO thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 132108	3.4	39
82	Controlled manipulation and in situ mechanical measurement of single co nanowire with a laser-induced cavitation bubble. <i>Nano Letters</i> , <b>2010</b> , 10, 3846-51	11.5	23
81	CrSi(2) hexagonal nanowires. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 15875-7	16.4	29
80	Investigation of Structured Green-Band Emission and Electron-Phonon Interactions in Vertically Aligned ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17889-17893	3.8	22
79	Aminosilane micropatterns on hydroxyl-terminated substrates: fabrication and applications. <i>Langmuir</i> , <b>2010</b> , 26, 5603-9	4	9 <sup>1</sup>
78	Random lasing action of randomly assembled ZnO nanowires with MgO coating. <i>Optics Express</i> , <b>2010</b> , 18, 13647-54	3.3	24
77	Electroluminescence from n-In <sub>2</sub> O <sub>3</sub> :Sn randomly assembled nanorods/p-SiC heterojunction. <i>Optics Express</i> , <b>2010</b> , 18, 15585-90	3.3	11
76	Hotspot-induced transformation of surface-enhanced Raman scattering fingerprints. <i>ACS Nano</i> , <b>2010</b> , 4, 3087-94	16.7	17 <sup>2</sup>
75	Scalable Routes to Janus Au <sub>2</sub> SiO <sub>2</sub> and Ternary Ag <sub>2</sub> Au <sub>2</sub> SiO <sub>2</sub> Nanoparticles. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3826-3828	9.6	145
74	Manipulation and microrheology of carbon nanotubes with laser-induced cavitation bubbles. <i>Physical Review Letters</i> , <b>2010</b> , 104, 014501	7.4	36
73	Photoluminescence characteristics of high quality ZnO nanowires and its enhancement by polymer covering. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 023111	3.4	116
72	A template and catalyst-free metal-etching-oxidation method to synthesize aligned oxide nanowire arrays: NiO as an example. <i>ACS Nano</i> , <b>2010</b> , 4, 4785-91	16.7	41
71	Superconducting gap induced barrier enhancement in a BiFeO <sub>3</sub> -based heterostructure. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 252905	3.4	21
70	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> , <b>2010</b> , 4, 2901-9	16.7	18

69	Ultrathin single-crystal ZnO nanobelts: Ag-catalyzed growth and field emission property. <i>Nanotechnology</i> , <b>2010</b> , 21, 255701	3.4	69
68	Electrode dependence of resistive switching in Mn-doped ZnO: Filamentary versus interfacial mechanisms. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 192113	3.4	150
67	Enhanced low field magnetoresistance in nanocrystalline La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> synthesized on MgO nanowires. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 222501	3.4	23
66	Tuning ferromagnetism in Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films by band gap and defect engineering. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 102506	3.4	84
65	Self-Assembled In-Plane Growth of Mg <sub>2</sub> SiO <sub>4</sub> Nanowires on Si Substrates Catalyzed by Au Nanoparticles. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2511-2518	15.6	20
64	Uniaxial magnetic anisotropy in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films induced by multiferroic BiFeO <sub>3</sub> with striped ferroelectric domains. <i>Advanced Materials</i> , <b>2010</b> , 22, 4964-8	24	45
63	Hydrazine-hydrothermal method to synthesize three-dimensional chalcogenide framework for photocatalytic hydrogen generation. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 2644-2649	3.3	111
62	Spontaneous and stimulated emission of asymmetric double quantum wells. <i>Superlattices and Microstructures</i> , <b>2010</b> , 48, 485-490	2.8	9
61	High temperature excitonic lasing characteristics of randomly assembled SnO <sub>2</sub> nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 131106	3.4	16
60	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped In <sub>2</sub> O <sub>3</sub> nanostructures. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	145
59	Influence of thin metal nanolayers on the photodetective properties of ZnO thin films. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 083110	2.5	29
58	Fabrication and properties of Bi codoped p-type ZnO thin films. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 065101	3	27
57	Abnormal blueshift of UV emission in single-crystalline ZnO nanowires. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 996-999	3.8	31
56	The characterization and application of p-type semiconducting mesoporous carbon nanofibers. <i>Carbon</i> , <b>2009</b> , 47, 1841-1845	10.4	28
55	Superconductivity at 56 K in samarium-doped SrFeAsF. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 142203	1.8	100
54	Chlorine-Assisted Size-Controlled Synthesis and Tunable Photoluminescence in Cr-Doped Silica Nanospheres. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 7065-7068	3.8	28
53	Ferroelectric transistors with nanowire channel: toward nonvolatile memory applications. <i>ACS Nano</i> , <b>2009</b> , 3, 700-6	16.7	82
52	Ultraviolet coherent random lasing in randomly assembled SnO <sub>2</sub> nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 241121	3.4	43

51	Morphology-controlled synthesis and a comparative study of the physical properties of SnO <sub>2</sub> nanostructures: from ultrathin nanowires to ultrawide nanobelts. <i>Nanotechnology</i> , <b>2009</b> , 20, 135605	3.4	46
50	Simple and rapid synthesis of ultrathin gold nanowires, their self-assembly and application in surface-enhanced Raman scattering. <i>Chemical Communications</i> , <b>2009</b> , 1984-6	5.8	226
49	Characteristics of ultraviolet photoluminescence from high quality tin oxide nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 061908	3.4	63
48	Nonvolatile resistive switching in spinel ZnMn <sub>2</sub> O <sub>4</sub> and ilmenite ZnMnO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2009</b> , 95, 152106	3.4	69
47	P-type electrical, photoconductive, and anomalous ferromagnetic properties of Cu <sub>2</sub> O nanowires. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 113106	3.4	90
46	Multifunctional CuO nanowire devices: p-type field effect transistors and CO gas sensors. <i>Nanotechnology</i> , <b>2009</b> , 20, 085203	3.4	286
45	Superconductivity at 43 K in SmFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Nature</i> , <b>2008</b> , 453, 761-2	50.4	1506
44	Polymer-encapsulated gold-nanoparticle dimers: facile preparation and catalytical application in guided growth of dimeric ZnO-nanowires. <i>Nano Letters</i> , <b>2008</b> , 8, 2643-7	11.5	147
43	Self-assembled shape- and orientation-controlled synthesis of nanoscale Cu <sub>3</sub> Si triangles, squares, and wires. <i>Nano Letters</i> , <b>2008</b> , 8, 3205-10	11.5	50
42	Neutron-diffraction measurements of magnetic order and a structural transition in the parent BaFe <sub>2</sub> As <sub>2</sub> compound of FeAs-based high-temperature superconductors. <i>Physical Review Letters</i> , <b>2008</b> , 101, 257003	7.4	691
41	Tailoring the photoluminescence of ZnO nanowires using Au nanoparticles. <i>Nanotechnology</i> , <b>2008</b> , 19, 435711	3.4	124
40	Cu-Doped ZnO Nanoneedles and Nanonails: Morphological Evolution and Physical Properties. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 9579-9585	3.8	160
39	Doping Cu into ZnO nanostructures <b>2008</b> ,		1
38	Effect of pressure on the superconducting and spin-density-wave states of SmFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	72
37	dc leakage behavior and conduction mechanism in (BiFeO <sub>3</sub> ) <sub>m</sub> (SrTiO <sub>3</sub> ) <sub>m</sub> superlattices. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 232905	3.4	37
36	Manganite thin film/ZnO nanowire (nanosheets) p-n junctions. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 103113	3.4	28
35	Tunable wettability in surface-modified ZnO-based hierarchical nanostructures. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 173104	3.4	65
34	Stress relaxation of La <sub>1/2</sub> Sr <sub>1/2</sub> MnO <sub>3</sub> and La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> at solid oxide fuel cell interfaces. <i>Thin Solid Films</i> , <b>2008</b> , 516, 880-884	2.2	31

33	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. <i>Advanced Materials</i> , <b>2008</b> , 20, 3521-3527	24	200
32	Novel approaches to field modulation of electronic and magnetic properties of oxides. <i>Philosophical Magazine Letters</i> , <b>2007</b> , 87, 279-292	1	10
31	Controlling the Growth Mechanism of ZnO Nanowires by Selecting Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17500-17505	3.8	97
30	Creation and annihilation of conducting filaments in mesoscopic manganite structures. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	51
29	Observation of magnetoelectric effect in epitaxial ferroelectric film/manganite crystal heterostructures. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	86
28	Are strain-induced effects truly strain induced? A comprehensive study of strained LCMO thin films. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10C102	2.5	30
27	Multiferroic composite ferroelectric-ferromagnetic films. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 232908	3.4	57
26	Spontaneous sharp metamagnetic transition in manganite films: influences of post-deposition annealing and measurement protocol. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 292, 25-36	2.8	13
25	Enhanced magnetoresistance in strain-free manganite network. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 062503	3.4	22
24	Negative differential resistance in mesoscopic manganite structures. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 252505	3.4	35
23	Optically controlled electroabsorption modulators for unconstrained wavelength conversion. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 469-471	3.4	20
22	Magnetization steps in manganite films: Time delay of the metamagnetic transition. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	58
21	Substrate induced strain effects in epitaxial $\text{La}_{0.67}\text{Pr}_x\text{Ca}_{0.33}\text{MnO}_3$ thin films. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 5507-5513	2.5	49
20	Interface Characterization of All-Perovskite Oxide Field Effect Heterostructures <b>2002</b> , 8, 233-241		18
19	Insulator-metal transition and magnetoresistance of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_y$ induced by tuning the oxygen content. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5391-5394	2.5	10
18	Optical Cooper pair breaking spectroscopy of $\text{YBa}_2\text{Cu}_{2.8}\text{Zn}_{0.2}\text{O}_{7-\delta}$ thin films. <i>Superconductor Science and Technology</i> , <b>2002</b> , 15, 468-471	3.1	1
17	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> , <b>2002</b> , 65,	3.3	38
16	Optical Cooper pair breaking spectroscopy of cuprate superconductors. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	9

15	Spin-polarized transport across a La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> interface: Role of Andreev bound states. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	59
14	Electroresistance and electronic phase separation in mixed-valent manganites. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5998-6001	7.4	233
13	Transport and magnetic properties of La <sub>0.8</sub> Ce <sub>0.2</sub> MnO <sub>3</sub> thin films grown by pulsed laser deposition. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 220, 161-166	2.8	28
12	Electrical transport and magnetic properties of a possible electron-doped layered manganese oxide. <i>Physical Review B</i> , <b>2000</b> , 61, 4141-4145	3.3	5
11	Spin-polarized quasiparticle injection into YBCO. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 3640-3643	1.8	2
10	Superconducting cuprates and magnetoresistive manganites: similarities and contrasts. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1999</b> , 63, 36-43	3.1	2
9	Deposition and Electrical Characterization of Dielectric/Ferromagnetic Heterostructure. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 602, 363		
8	Optimization of the Selenization Pressure Enables Efficient Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells. <i>Solar Rrl</i> ,	7.1	2
7	Emerging Transistor Applications Enabled by Halide Perovskites. <i>Accounts of Materials Research</i> ,	7.5	3
6	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> ,2110975	15.6	5
5	Electroluminescent Solar Cells Based on CsPbI <sub>3</sub> Perovskite Quantum Dots. <i>Advanced Functional Materials</i> ,2108615	15.6	7
4	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. <i>ACS Energy Letters</i> ,1649-1658	20.1	15
3	Performance degradation and mitigation strategies of silver nanowire networks: a review. <i>Critical Reviews in Solid State and Materials Sciences</i> ,1-25	10.1	7
2	Coupled Current Jumps and Domain Wall Creeps in a Defect-Engineered Ferroelectric Resistive Memory. <i>Advanced Electronic Materials</i> ,2101059	6.4	1
1	Indigo: A Natural Molecular Passivator for Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> ,2200537	21.8	16