

Tom Wu

List of Publications by Year in descending order

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369
papers

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all docs

379
docs citations

379
times ranked

32302
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance degradation and mitigation strategies of silver nanowire networks: a review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 435-459.	6.8	21
2	Electroluminescent Solar Cells Based on CsPbI ₃ Perovskite Quantum Dots. <i>Advanced Functional Materials</i> , 2022, 32, 2108615.	7.8	38
3	Optimization of the Selenization Pressure Enabling Efficient Cu ₂ ZnSn(S,Se) ₄ Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	8
4	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
5	Emerging Transistor Applications Enabled by Halide Perovskites. <i>Accounts of Materials Research</i> , 2022, 3, 8-20.	5.9	8
6	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces. <i>Advanced Materials</i> , 2022, 34, e2108616.	11.1	55
7	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2022, 32, 2110975.	7.8	30
8	A facile approach to tailor electrocatalytic properties of MnO ₂ through tuning phase transition, surface morphology and band structure. <i>Chemical Engineering Journal</i> , 2022, 438, 135561.	6.6	21
9	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste. , 2022, 4, 120-127.		7
10	Tuning Phase Transition and Thermochromic Properties of Vanadium Dioxide Thin Films via Cobalt Doping. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19736-19746.	4.0	16
11	Anomalous Structural Evolution and Glassy Lattice in Mixed-Halide Hybrid Perovskites. <i>Small</i> , 2022, 18, e2200847.	5.2	13
12	Indigo: A Natural Molecular Passivator for Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	60
13	High- $\hat{\rho}$ perovskite membranes as insulators for two-dimensional transistors. <i>Nature</i> , 2022, 605, 262-267.	13.7	109
14	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
15	Recent Progress on Titanium Sesquioxide: Fabrication, Properties, and Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
16	Doping and defect engineering induced extremely high magnetization and large coercivity in Co doped MoTe ₂ . <i>Journal of Alloys and Compounds</i> , 2022, 918, 165750.	2.8	7
17	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
18	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

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19	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
20	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
21	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021, 12, 466.	5.8	176
22	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Contacts. <i>ACS Nano</i> , 2021, 15, 5221-5229.	7.3	30
23	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
24	Hybrid Perovskite Quantum Dot/Non-Fullerene Molecule Solar Cells with Efficiency Over 15%. <i>Advanced Functional Materials</i> , 2021, 31, 2101272.	7.8	44
25	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
26	Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , 2021, 11, 2100354.	10.2	77
27	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , 2021, 33, e2005000.	11.1	138
28	First-Principles Optimization of Out-of-Plane Charge Transport in Dion-Jacobson CsPbI_3 Perovskites with π -Conjugated Aromatic Spacers. <i>Advanced Functional Materials</i> , 2021, 31, 2102330.	7.8	51
29	Pressure effects on iron-based superconductor families: Superconductivity, flux pinning and vortex dynamics. <i>Materials Today Physics</i> , 2021, 19, 100414.	2.9	11
30	Bridging NiCo layered double hydroxides and Ni ₃ S ₂ for bifunctional electrocatalysts: The role of vertical graphene. <i>Chemical Engineering Journal</i> , 2021, 415, 129048.	6.6	39
31	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
32	Giant Bulk Photostriction and Accurate Photomechanical Actuation in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, 2100837.	3.6	12
33	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
34	One-Dimensional Molecular Metal Halide Materials: Structures, Properties, and Applications. <i>Small Structures</i> , 2021, 2, 2000062.	6.9	40
35	High Coercivity and Magnetization in WSe_2 by Codoping Co and Nb. <i>Small</i> , 2020, 16, e1903173.	5.2	43
36	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

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37	Quantum-Dot Tandem Solar Cells Based on a Solution-Processed Nanoparticle Intermediate Layer. ACS Applied Materials & Interfaces, 2020, 12, 2313-2318.	4.0	19
38	Organic intercalation engineering of quasi-2D Dionâ€“Jacobson Î±-CsPb₃ perovskites. Materials Horizons, 2020, 7, 1042-1050.	6.4	55
39	Topotactic phase transformations by concerted dual-ion migration of B-site cation and oxygen in multivalent cobaltite Laâ€“Srâ€“Coâ€“Ox films. Nano Energy, 2020, 78, 105215.	8.2	17
40	Tuning the Surface-Passivating Ligand Anchoring Position Enables Phase Robustness in CsPbI₃ Perovskite Quantum Dot Solar Cells. ACS Energy Letters, 2020, 5, 3322-3329.	8.8	89
41	Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of ~1800. ACS Applied Materials & Interfaces, 2020, 12, 47848-47853.	4.0	6
42	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. Advanced Energy Materials, 2020, 10, 2000453.	10.2	42
43	A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. Applied Physics Reviews, 2020, 7, .	5.5	46
44	All-inorganic dual-phase halide perovskite nanorings. Nano Research, 2020, 13, 2994-3000.	5.8	18
45	A Bright New World of Ferroelectrics: Magic of Spontaneous Polarization. ACS Applied Materials & Interfaces, 2020, 12, 52231-52233.	4.0	6
46	Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. Advanced Functional Materials, 2020, 30, 2002993.	7.8	92
47	Highly UV Resistant Inchâ€“Scale Hybrid Perovskite Quantum Dot Papers. Advanced Science, 2020, 7, 1902439.	5.6	33
48	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
49	Manipulation of planar oxygen defect arrangements in multifunctional magnÃ“li titanium oxide hybrid systems: from energy conversion to water treatment. Energy and Environmental Science, 2020, 13, 5080-5096.	15.6	15
50	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals. , 2020, 2, 1368-1374.		40
51	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
52	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
53	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv.) Tj ETQq1 1 0.784314 rgBT /Overl	10.2	2
54	Nonvolatile Multistates Memories for High-Density Data Storage. ACS Applied Materials & Interfaces, 2020, 12, 42449-42471.	4.0	101

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55	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
56	Microwave Synthesis and High-Mobility Charge Transport of Carbon-Nanotube-Perovskite Single Crystals. Advanced Optical Materials, 2020, 8, 2001740.	3.6	15
57	Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. ACS Applied Materials & Interfaces, 2020, 12, 26258-26266.	4.0	55
58	Emergence of Ferroelectricity in Halide Perovskites. Small Methods, 2020, 4, 2000149.	4.6	95
59	Micro-light-emitting diodes with quantum dots in display technology. Light: Science and Applications, 2020, 9, 83.	7.7	394
60	Enhancing Resistive Switching Performance and Ambient Stability of Hybrid Perovskite Single Crystals via Embedding Colloidal Quantum Dots. Advanced Functional Materials, 2020, 30, 2002948.	7.8	59
61	Gas chromatography-mass spectrometry analyses of encapsulated stable perovskite solar cells. Science, 2020, 368, .	6.0	306
62	Tuning Magnetism and Photocurrent in Mn-Doped Organic-Inorganic Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 2577-2584.	2.1	36
63	Shape and Orientation Controlled Hydrothermal Synthesis of Silicide and Metal Dichalcogenide on a Silicon Substrate. ACS Applied Materials & Interfaces, 2020, 12, 18850-18858.	4.0	10
64	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. ACS Energy Letters, 2020, 5, 1487-1497.	8.8	104
65	Oxidation Kinetics of WTe ₂ Surfaces in Different Environments. ACS Applied Electronic Materials, 2020, 2, 2196-2202.	2.0	23
66	Facile Patterning of Silver Nanowires with Controlled Polarities via Inkjet-Assisted Manipulation of Interface Adhesion. ACS Applied Materials & Interfaces, 2020, 12, 34086-34094.	4.0	19
67	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
68	Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. Advanced Materials, 2020, 32, e1905578.	11.1	39
69	Giant Optical Anisotropy of Perovskite Nanowire Array Films. Advanced Functional Materials, 2020, 30, 1909275.	7.8	89
70	Correlating the Composition-Dependent Structural and Electronic Dynamics of Inorganic Mixed Halide Perovskites. Chemistry of Materials, 2020, 32, 2470-2481.	3.2	20
71	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. ACS Nano, 2020, 14, 3969-3979.	7.3	30
72	Improving thermal and electrical stability of silver nanowire network electrodes through integrating graphene oxide intermediate layers. Journal of Colloid and Interface Science, 2020, 566, 375-382.	5.0	35

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73	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
74	Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. Advanced Functional Materials, 2020, 30, 2002110.	7.8	78
75	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. Nano Energy, 2020, 73, 104801.	8.2	53
76	Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. Photonics Research, 2020, 8, A56.	3.4	45
77	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. Advanced Optical Materials, 2019, 7, 1900865.	3.6	47
78	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
79	Synergistic effect of electron transport layer and colloidal quantum dot solid enable PbSe quantum dot solar cell achieving over 10 % efficiency. Nano Energy, 2019, 64, 103922.	8.2	43
80	Interface-based tuning of Rashba spin-orbit interaction in asymmetric oxide heterostructures with 3d electrons. Nature Communications, 2019, 10, 3052.	5.8	51
81	Giant Humidity Effect on Hybrid Halide Perovskite Microstripes: Reversibility and Sensing Mechanism. ACS Applied Materials & Interfaces, 2019, 11, 29821-29829.	4.0	71
82	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
83	Growth of Doped SrTiO ₃ Ferroelectric Nanoporous Thin Films and Tuning of Photoelectrochemical Properties with Switchable Ferroelectric Polarization. ACS Applied Materials & Interfaces, 2019, 11, 45683-45691.	4.0	32
84	Electro-thermally driven flexible robot arms based on stacking-controlled graphite nanocomposites. Carbon, 2019, 152, 873-881.	5.4	39
85	Plasmonic-Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. Solar Rrl, 2019, 3, 1900138.	3.1	34
86	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. Science Advances, 2019, 5, eaav3780.	4.7	157
87	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
88	Formation of DY center as n-type limiting defects in octahedral semiconductors: the case of Bi-doped hybrid halide perovskites. Journal of Materials Chemistry C, 2019, 7, 4230-4234.	2.7	41
89	Electron-beam irradiation-hard metal-halide perovskite nanocrystals. Journal of Materials Chemistry A, 2019, 7, 10912-10917.	5.2	30
90	A OD Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. Advanced Functional Materials, 2019, 29, 1809166.	7.8	32

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91	Stable Bandgap-Tunable Hybrid Perovskites with Alloyed Pb ²⁺ /Ba Cations for High-Performance Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 59-66.	2.1	44
92	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
93	P-type SnO Thin Film Phototransistor with Perovskite-Mediated Photogating. <i>Advanced Electronic Materials</i> , 2019, 5, 1800538.	2.6	45
94	(Invited) heterostructured AB_2X_4 Binary Materials for Photodetection from Mid-Infrared, Visible, to X-Ray. ECS Meeting Abstracts, 2019, , .	0.0	0
95	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In_2Se_3 . <i>Nano Letters</i> , 2018, 18, 1253-1258.	4.5	509
96	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
97	Fabry-Pérot Oscillation and Room Temperature Lasing in Perovskite Cube-Corner Pyramid Cavities. <i>Small</i> , 2018, 14, 1703136.	5.2	61
98	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
99	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1704665.	7.8	169
100	Orthorhombic Ti_2O_3 : A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. <i>Advanced Functional Materials</i> , 2018, 28, 1705657.	7.8	36
101	Colossal X-Ray-Induced Persistent Photoconductivity in Current-Perpendicular-to-Plane Ferroelectric/Semiconductor Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1704337.	7.8	21
102	Ferroelectric Polarization Rotation in Order-Disorder-Type LiNbO_3 Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41471-41478.	4.0	13
103	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
104	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , 2018, 9, 5354.	5.8	255
105	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. <i>Nature Communications</i> , 2018, 9, 4299.	5.8	151
106	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
107	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
108	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018, 3, 1492-1498.	8.8	70

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109	Overcoming the Ambient Manufacturabilityâ€Scalabilityâ€Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018, 30, e1801661.	11.1	79
110	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for Highâ€Performance Humidity Sensing. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11218-11222.	7.2	33
111	Morphologyâ€Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800413.	3.6	34
112	Embedding 1D Conducting Channels into 3D Isoporous Polymer Films for Highâ€Performance Humidity Sensing. <i>Angewandte Chemie</i> , 2018, 130, 11388-11392.	1.6	0
113	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie</i> , 2018, 130, 12540-12544.	1.6	14
114	InnenrÃ¼cktitelbild: Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering (<i>Angew. Chem.</i> 38/2018). <i>Angewandte Chemie</i> , 2018, 130, 12765-12765.	1.6	0
115	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018, 561, 88-93.	13.7	1,274
116	Solution-processed resistive switching memory devices based on hybrid organicâ€inorganic materials and composites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23837-23846.	1.3	68
117	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
118	Strain-Enhanced Charge Transfer and Magnetism at a Manganite/Nickelate Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30803-30810.	4.0	16
119	Observation of superconductivity in structure-selected Ti2O3 thin films. <i>NPG Asia Materials</i> , 2018, 10, 522-532.	3.8	43
120	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
121	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12360-12364.	7.2	160
122	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Singleâ€Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2017, 29, 1602432.	11.1	106
123	2D Organicâ€Inorganic Hybrid Thin Films for Flexible UVâ€Visible Photodetectors. <i>Advanced Functional Materials</i> , 2017, 27, 1605554.	7.8	125
124	Hybrid Materials: 2D Organicâ€Inorganic Hybrid Thin Films for Flexible UVâ€Visible Photodetectors (<i>Adv. Funct. Mater.</i> 15/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	1
125	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
126	Efficient Electrocatalytic Reduction of CO₂ by Nitrogenâ€Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO₂ Refinery. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7847-7852.	7.2	252

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127	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.	1.6	78
128	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
129	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.	3.6	362
130	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
131	High-Performance Near-Infrared Phototransistor Based on n-Type Small-Molecular Organic Semiconductor. <i>Advanced Electronic Materials</i> , 2017, 3, 1600430.	2.6	60
132	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
133	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.	4.0	62
134	A Photodetector Based on p-Si/n-ZnO Nanotube Heterojunctions with High Ultraviolet Responsivity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37120-37127.	4.0	85
135	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602803.	10.2	147
136	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 1782-1788.	8.8	155
137	High-Performance Photothermal Conversion of Narrow-Bandgap Ti ₂ O ₃ Nanoparticles. <i>Advanced Materials</i> , 2017, 29, 1603730.	11.1	766
138	Ferroelectric BiFeO ₃ as an Oxide Dye in Highly Tunable Mesoporous All-Oxide Photovoltaic Heterojunctions. <i>Small</i> , 2017, 13, 1602355.	5.2	53
139	Continuous-wave optically pumped green perovskite vertical-cavity surface-emitter. <i>Optics Letters</i> , 2017, 42, 3618.	1.7	23
140	Continuous-wave Optically Pumped Lasing of Hybrid Perovskite VCSEL at Green Wavelength. , 2017, , .		0
141	Shape-Enhanced Photocatalytic Activities of Thoroughly Mesoporous ZnO Nanofibers. <i>Small</i> , 2016, 12, 4007-4017.	5.2	41
142	Nanoscale Chemical and Valence Evolution at the Metal/Oxide Interface: A Case Study of Ti/SrTiO ₃ . <i>Advanced Materials Interfaces</i> , 2016, 3, 1600201.	1.9	25
143	ZnO Nanorods on a LaAlO ₃ /SrTiO ₃ Interface: Hybrid 1D/2D Diodes with Engineered Electronic Properties. <i>Small</i> , 2016, 12, 802-809.	5.2	6
144	Manganite/Cuprate Superlattice as Artificial Reentrant Spin Glass. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500676.	1.9	22

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145	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. <i>Advanced Materials</i> , 2016, 28, 3383-3390.	11.1	298
146	Ferroelectric Polarization Switching Dynamics and Domain Growth of Triglycine Sulfate and Imidazolium Perchlorate. <i>Advanced Electronic Materials</i> , 2016, 2, 1600038.	2.6	31
147	Real-Space Mapping of Surface Trap States in CIGSe Nanocrystals Using 4D Electron Microscopy. <i>Nano Letters</i> , 2016, 16, 4417-4423.	4.5	22
148	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016, 1, 32-37.	8.8	752
149	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
150	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , 2016, 28, 8144-8149.	11.1	260
151	Interfacial effects revealed by ultrafast relaxation dynamics in $\text{BiFeO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ junctions. <i>Physical Review B</i> , 2016, 93, 040407.	1.1	7
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