

Ghim Wei Ho

List of Publications by Year in Descending Order

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

171
papers

10,020
citations

58
h-index

95
g-index

183
ext. papers

12,139
ext. citations

11.5
avg, IF

7.17
L-index

#	Paper	IF	Citations
171	Design of untethered soft material micromachine for life-like locomotion. <i>Materials Today</i> , 2022 ,	21.8	3
170	All-Soft and Stretchable Thermogalvanic Gel Fabric for Antideformity Body Heat Harvesting Wearable. <i>Advanced Energy Materials</i> , 2021 , 11, 2102219	21.8	8
169	Acidic Media Regulated Hierarchical Cobalt Compounds with Phosphorous Doping as Water Splitting Electrocatalysts. <i>Advanced Energy Materials</i> , 2021 , 11, 2100358	21.8	15
168	A Fast Autonomous Healing Magnetic Elastomer for Instantly Recoverable, Modularly Programmable, and Thermorecyclable Soft Robots. <i>Advanced Functional Materials</i> , 2021 , 31, 2101825	15.6	16
167	Z-scheme transition metal bridge of Co9S8/Cd/CdS tubular heterostructure for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119853	21.8	46
166	Using the sun to co-generate electricity and freshwater. <i>Joule</i> , 2021 , 5, 1639-1641	27.8	18
165	Hybrid solar-driven interfacial evaporation systems: Beyond water production towards high solar energy utilization. <i>Materials Today</i> , 2021 , 42, 178-191	21.8	94
164	Photothermal Membrane Distillation toward Solar Water Production.. <i>Small Methods</i> , 2021 , 5, e2001200	12.8	35
163	Selective Wavelength Enhanced Photochemical and Photothermal H2 Generation of Classical Oxide Supported Metal Catalyst. <i>Advanced Functional Materials</i> , 2021 , 31, 2104750	15.6	13
162	Conformal Microfluidic-Blow-Spun 3D Photothermal Catalytic Spherical Evaporator for Omnidirectional Enhanced Solar Steam Generation and CO Reduction. <i>Advanced Science</i> , 2021 , 8, e2101232	13.6	10
161	. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 56, 2913-2923	5.5	1
160	Modular Deformable Steam Electricity Cogeneration System with Photothermal, Water, and Electrochemical Tunable Multilayers. <i>Advanced Functional Materials</i> , 2020 , 30, 2002867	15.6	72
159	Multi-interface engineering of solar evaporation devices via scalable, synchronous thermal shrinkage and foaming. <i>Nano Energy</i> , 2020 , 74, 104875	17.1	30
158	Photothermal Catalytic Gel Featuring Spectral and Thermal Management for Parallel Freshwater and Hydrogen Production. <i>Advanced Energy Materials</i> , 2020 , 10, 2000925	21.8	89
157	Autonomous atmospheric water seeping MOF matrix. <i>Science Advances</i> , 2020 , 6,	14.3	44
156	Controlled heterogeneous water distribution and evaporation towards enhanced photothermal water-electricity-hydrogen production. <i>Nano Energy</i> , 2020 , 77, 105102	17.1	79
155	Scalable thermoelectric fibers for multifunctional textile-electronics. <i>Nature Communications</i> , 2020 , 11, 6006	17.4	52

154	. <i>IEEE Solid-State Circuits Letters</i> , 2020 , 3, 466-469	2	3
153	Spectrum Tailored Defective 2D Semiconductor Nanosheets Aerogel for Full-Spectrum-Driven Photothermal Water Evaporation and Photochemical Degradation. <i>Advanced Functional Materials</i> , 2020 , 30, 2004460	15.6	78
152	Somatosensory, Light-Driven, Thin-Film Robots Capable of Integrated Perception and Motility. <i>Advanced Materials</i> , 2020 , 32, e2000351	24	50
151	Stimulated Electrocatalytic Hydrogen Evolution Activity of MOF-Derived MoS Basal Domains via Charge Injection through Surface Functionalization and Heteroatom Doping. <i>Advanced Science</i> , 2019 , 6, 1900140	13.6	44
150	Shape Conformal and Thermal Insulative Organic Solar Absorber Sponge for Photothermal Water Evaporation and Thermoelectric Power Generation. <i>Advanced Energy Materials</i> , 2019 , 9, 1900250	21.8	179
149	Titelbild: Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250-500 nm) Harvesting (Angew. Chem. 10/2019). <i>Angewandte Chemie</i> , 2019 , 131, 2933-2933	3.6	
148	Solar absorber material and system designs for photothermal water vaporization towards clean water and energy production. <i>Energy and Environmental Science</i> , 2019 , 12, 841-864	35.4	709
147	Optically Governed Dynamic Surface Charge Redistribution of Hybrid Plasmopyroelectric Nanosystems. <i>Small</i> , 2019 , 15, e1903042	11	3
146	A Hybrid Solar Absorber-Electrocatalytic N-Doped Carbon/Alloy/Semiconductor Electrode for Localized Photothermic Electrocatalysis. <i>Advanced Materials</i> , 2019 , 31, e1903605	24	27
145	Direct-Ink-Write 3D Printing of Hydrogels into Biomimetic Soft Robots. <i>ACS Nano</i> , 2019 , 13, 13176-13184	46.7	110
144	Atomic- and Molecular-Level Design of Functional Metal-Organic Frameworks (MOFs) and Derivatives for Energy and Environmental Applications. <i>Advanced Science</i> , 2019 , 6, 1901129	13.6	77
143	Recent progress in solar-driven interfacial water evaporation: Advanced designs and applications. <i>Nano Energy</i> , 2019 , 57, 507-518	17.1	335
142	Pseudomorphic Transformation of Interpenetrated Prussian Blue Analogs into Defective Nickel Iron Selenides for Enhanced Electrochemical and Photo-Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2019 , 9, 1802983	21.8	115
141	Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250-500 nm) Harvesting. <i>Angewandte Chemie</i> , 2019 , 131, 3109-3113	3.6	8
140	Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250-2500 nm) Harvesting. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3077-3081	16.4	61
139	Hedgehog Inspired CuO Nanowires/Cu ₂ O Composites for Broadband Visible-Light-Driven Recyclable Surface Enhanced Raman Scattering. <i>Advanced Optical Materials</i> , 2018 , 6, 1701167	8.1	63
138	Self-Contained Monolithic Carbon Sponges for Solar-Driven Interfacial Water Evaporation Distillation and Electricity Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1702149	21.8	312
137	Solar-driven photothermal nanostructured materials designs and prerequisites for evaporation and catalysis applications. <i>Materials Horizons</i> , 2018 , 5, 323-343	14.4	304

136	Noble Metal-Free Nanocatalysts with Vacancies for Electrochemical Water Splitting. <i>Small</i> , 2018 , 14, e1703323	11	187
135	Topotactic Engineering of Ultrathin 2D Nonlayered Nickel Selenides for Full Water Electrolysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1702704	21.8	138
134	Inverse Stellation of CuAu-ZnO Multimetallic-Semiconductor Nanostartube for Plasmon-Enhanced Photocatalysis. <i>ACS Nano</i> , 2018 , 12, 4512-4520	16.7	47
133	A Biomimetic Conductive Tendril for Ultrastretchable and Integratable Electronics, Muscles, and Sensors. <i>ACS Nano</i> , 2018 , 12, 3898-3907	16.7	80
132	One-step activation towards spontaneous etching of hollow and hierarchical porous carbon nanospheres for enhanced pollutant adsorption and energy storage. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 533-541	21.8	66
131	Simultaneous in situ reduction and embedment of Cu nanoparticles into TiO ₂ for the design of exceptionally active and stable photocatalysts. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16213-16219	13	11
130	Solar Absorber Gel: Localized Macro-Nano Heat Channeling for Efficient Plasmonic Au Nanoflowers Photothermic Vaporization and Triboelectric Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1800711	21.8	176
129	In-built thermo-mechanical cooperative feedback mechanism for self-propelled multimodal locomotion and electricity generation. <i>Nature Communications</i> , 2018 , 9, 3438	17.4	71
128	Visible-to-NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar-Powered Environmental Purification and Fuel Production. <i>Advanced Materials</i> , 2018 , 30, e1802894	24	158
127	Carbon Sponges: Self-Contained Monolithic Carbon Sponges for Solar-Driven Interfacial Water Evaporation Distillation and Electricity Generation (Adv. Energy Mater. 16/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870074	21.8	5
126	Electrocatalysis: Topotactic Engineering of Ultrathin 2D Nonlayered Nickel Selenides for Full Water Electrolysis (Adv. Energy Mater. 14/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870064	21.8	2
125	Surface texturing and dielectric property tuning toward boosting of triboelectric nanogenerator performance. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 52-57	13	77
124	Spatially Probed Plasmonic Photothermic Nanoheater Enhanced Hybrid Polymeric-Metallic PVDF-Ag Nanogenerator. <i>Small</i> , 2018 , 14, 1702268	11	20
123	Functional Defective Metal-Organic Coordinated Network of Mesostructured Nanoframes for Enhanced Electrocatalysis. <i>Advanced Functional Materials</i> , 2018 , 28, 1704177	15.6	50
122	Solar-Energy Capture: Visible-to-NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar-Powered Environmental Purification and Fuel Production (Adv. Mater. 47/2018). <i>Advanced Materials</i> , 2018 , 30, 1870363	24	4
121	Multi-compositional hierarchical nanostructured Ni ₃ S ₂ @MoS _x /NiO electrodes for enhanced electrocatalytic hydrogen generation and energy storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20497-20499	13	18
120	Identification of Facet-Governing Reactivity in Hematite for Oxygen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1804341	24	61
119	Hybrid Photothermal Pyroelectric and Thermogalvanic Generator for Multisituation Low Grade Heat Harvesting. <i>Advanced Energy Materials</i> , 2018 , 8, 1802397	21.8	62

118	Solar Absorber Gel: Solar Absorber Gel: Localized Macro-Nano Heat Channeling for Efficient Plasmonic Au Nanoflowers Photothermic Vaporization and Triboelectric Generation (Adv. Energy Mater. 25/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870114	21.8	4
117	Facilitating the charge transfer of ZnMoS ₄ /CuS p-n heterojunctions through ZnO intercalation for efficient photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11416-11423	13	33
116	Self-surface charge exfoliation and electrostatically coordinated 2D hetero-layered hybrids. <i>Nature Communications</i> , 2017 , 8, 14224	17.4	243
115	Simultaneous Activation/Exfoliation/Reassembly to Form Layered Carbon with Hierarchical Pores. <i>ChemCatChem</i> , 2017 , 9, 2488-2495	5.2	5
114	Self-regulating reversible photocatalytic-driven chromism of a cavity enhanced optical field TiO ₂ /CuO nanocomposite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10909-10916	13	20
113	Substrate-Friendly Growth of Large-Sized Ni(OH) Nanosheets for Flexible Electrochromic Films. <i>Small</i> , 2017 , 13, 1700084	11	30
112	In Situ Transformation of MOFs into Layered Double Hydroxide Embedded Metal Sulfides for Improved Electrocatalytic and Supercapacitive Performance. <i>Advanced Materials</i> , 2017 , 29, 1606814	24	365
111	Pseudomorphic-phase transformation of NiCo based ternary hierarchical 2D-1D nanostructures for enhanced electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 919-924	13	31
110	Manganese Copper Sulfide Nanocomposites: Structure Tailoring and Photo/Electrocatalytic Hydrogen Generation. <i>ChemCatChem</i> , 2017 , 9, 4148-4154	5.2	6
109	Bifunctional 2D-on-2D MoO ₃ nanobelt/Ni(OH) ₂ nanosheets for supercapacitor-driven electrochromic energy storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8343-8351	13	81
108	Cross-linker mediated formation of sulfur-functionalized VO/graphene aerogels and their enhanced pseudocapacitive performance. <i>Nanoscale</i> , 2017 , 9, 802-811	7.7	57
107	High-efficient electrocatalysts by unconventional acid-etching for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24153-24158	13	20
106	A stretchable fiber nanogenerator for versatile mechanical energy harvesting and self-powered full-range personal healthcare monitoring. <i>Nano Energy</i> , 2017 , 41, 511-518	17.1	95
105	Nanophotonic-Engineered Photothermal Harnessing for Waste Heat Management and Pyroelectric Generation. <i>ACS Nano</i> , 2017 , 11, 10568-10574	16.7	49
104	Plasmonic enhanced photoelectrochemical and photocatalytic performances of 1D coaxial Ag@Ag ₂ S hybrids. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21570-21578	13	33
103	Uniaxially Stretched Flexible Surface Plasmon Resonance Film for Versatile Surface Enhanced Raman Scattering Diagnostics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26341-26349	9.5	75
102	Electrodeposited cobalt phosphide superstructures for solar-driven thermoelectrocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16580-16584	13	37
101	Ag-CuO-ZnO metal-semiconductor multiconcentric nanotubes for achieving superior and perdurable photodegradation. <i>Nanoscale</i> , 2017 , 9, 11574-11583	7.7	63

100	Ultrathin nickel boron oxide nanosheets assembled vertically on graphene: a new hybrid 2D material for enhanced photo/electro-catalysis. <i>Materials Horizons</i> , 2017 , 4, 885-894	14.4	90
99	Spontaneous Electroless Galvanic Cell Deposition of 3D Hierarchical and Interlaced S-M-S Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1604417	24	15
98	Light-induced Remediation of Environmental Pollutants by Highly Adsorptive Activated Carbon Centered TiO ₂ Nanoflowers. <i>Procedia Engineering</i> , 2017 , 215, 152-162		2
97	Nickel-Cobalt Layered Double Hydroxides for Photocatalytic Degradation under Visible Light Irradiation. <i>Procedia Engineering</i> , 2017 , 215, 163-170		3
96	Increased photocatalytic activity of CuO/TiO ₂ through broadband solar absorption heating under natural sunlight. <i>Procedia Engineering</i> , 2017 , 215, 171-179		3
95	Hierarchical Heterostructure of TiO ₂ Nanosheets on CuO Nanowires for Enhanced Photocatalytic Performance. <i>Procedia Engineering</i> , 2017 , 215, 180-187		2
94	Functionalization of TiO ₂ Nanofibers with Ag and Ag ₂ S Nanoparticles for Enhanced Photocatalytic Hydrogen Generation. <i>Procedia Engineering</i> , 2017 , 215, 188-194		4
93	Porous silica/TiO ₂ Nanocomposite for Collective Adsorption and Degradation Functionalities. <i>Procedia Engineering</i> , 2017 , 215, 195-201		1
92	Inorganic-organic Hybrid Membranes for Photocatalytic Hydrogen Generation and Volatile Organic Compound Degradation. <i>Procedia Engineering</i> , 2017 , 215, 202-210		1
91	Topotactic Consolidation of Monocrystalline CoZn Hydroxides for Advanced Oxygen Evolution Electrodes. <i>Angewandte Chemie</i> , 2016 , 128, 10482-10486	3.6	25
90	Topotactic Consolidation of Monocrystalline CoZn Hydroxides for Advanced Oxygen Evolution Electrodes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10326-30	16.4	36
89	Rational Integration of Inbuilt Aperture with Mesoporous Framework in Unusual Asymmetrical Yolk-Shell Structures for Energy Storage and Conversion. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32901-32909	9.5	17
88	Plasmonic photothermic directed broadband sunlight harnessing for seawater catalysis and desalination. <i>Energy and Environmental Science</i> , 2016 , 9, 3151-3160	35.4	222
87	Nature-Inspired Design of Artificial Solar-to-Fuel Conversion Systems based on Copper Phosphate Microflowers. <i>ChemSusChem</i> , 2016 , 9, 1575-8	8.3	3
86	In situ photo-assisted deposition and photocatalysis of ZnIn ₂ S ₄ /transition metal chalcogenides for enhanced degradation and hydrogen evolution under visible light. <i>Dalton Transactions</i> , 2016 , 45, 552-60	4.3	49
85	All-in-one solar cell: Stable, light-soaking free, solution processed and efficient diketopyrrolopyrrole based small molecule inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 150, 19-31	6.4	16
84	Enhanced Photocatalytic Performance of TiO ₂ Hierarchical Spheres Decorated with Ag ₂ S Nanoparticles. <i>Procedia Engineering</i> , 2016 , 141, 7-14		16
83	Facile synthesis of flower-like hierarchical NiCo ₂ O ₄ microspheres as high-performance cathode materials for LiO ₂ batteries. <i>RSC Advances</i> , 2016 , 6, 98867-98873	3.7	11

82	TiO ₂ -Based Heterogeneous Catalysis for Photocatalytic Hydrogen Generation and Photodegradation 2016 , 1-29		0
81	2D hydrated layered Ni(OH) ₂ structure with hollow TiO ₂ nanocomposite directed chromogenic and catalysis capabilities. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13307-13315	13	20
80	In situ chemical etching of tunable 3D Ni ₃ S ₂ superstructures for bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13916-13922	13	94
79	Self-Biased Hybrid Piezoelectric-Photoelectrochemical Cell with Photocatalytic Functionalities. <i>ACS Nano</i> , 2015 , 9, 7661-70	16.7	92
78	Structural design of TiO ₂ -based photocatalyst for H ₂ production and degradation applications. <i>Catalysis Science and Technology</i> , 2015 , 5, 4703-4726	5.5	180
77	Hierarchical Assembly of SnO ₂ /ZnO Nanostructures for Enhanced Photocatalytic Performance. <i>Scientific Reports</i> , 2015 , 5, 11609	4.9	83
76	Device Stability and Light-Soaking Characteristics of High-Efficiency Benzodithiophene-Thienothiophene Copolymer-Based Inverted Organic Solar Cells with F-TiO(x) Electron-Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12119-27	9.5	42
75	Resistive switching and polarization reversal of hydrothermal-method-grown undoped zinc oxide nanorods by using scanning probe microscopy techniques. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11412-22	9.5	30
74	Harvesting broadband absorption of the solar spectrum for enhanced photocatalytic H ₂ generation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19360-19367	13	33
73	Shaped-controlled synthesis of porous NiCo ₂ O ₄ with 1-3 dimensional hierarchical nanostructures for high-performance supercapacitors. <i>RSC Advances</i> , 2015 , 5, 1697-1704	3.7	40
72	Addressing the light-soaking issue in inverted organic solar cells using chemical bath deposited fluorinated TiO _x electron transport layer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 314-322	13	34
71	Facile control of copper nanowire dimensions via the Maillard reaction: using food chemistry for fabricating large-scale transparent flexible conductors. <i>Green Chemistry</i> , 2015 , 17, 1120-1126	10	48
70	Fabrication of wheat grain textured TiO ₂ /CuO composite nanofibers for enhanced solar H ₂ generation and degradation performance. <i>Nano Energy</i> , 2015 , 11, 28-37	17.1	132
69	Design of a Metal Oxide-Organic Framework (MOF) Foam Microreactor: Solar-Induced Direct Pollutant Degradation and Hydrogen Generation. <i>Advanced Materials</i> , 2015 , 27, 7713-9	24	80
68	Corrosion-Mediated Self-Assembly (CMSA): Direct Writing Towards Sculpturing of 3D Tunable Functional Nanostructures. <i>Angewandte Chemie</i> , 2015 , 127, 16030-16034	3.6	5
67	Corrosion-Mediated Self-Assembly (CMSA): Direct Writing Towards Sculpturing of 3D Tunable Functional Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15804-8	16.4	9
66	TiO ₂ Fibers Supported FeOOH Nanostructures as Efficient Visible Light Photocatalyst and Room Temperature Sensor. <i>Scientific Reports</i> , 2015 , 5, 10601	4.9	71
65	Self-assembly formation of NiCo ₂ O ₄ superstructures with porous architectures for electrochemical capacitors. <i>RSC Advances</i> , 2015 , 5, 53259-53266	3.7	15

64	Room temperature sequential ionic deposition (SID) of Ag ₂ S nanoparticles on TiO ₂ hierarchical spheres for enhanced catalytic efficiency. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6509-6516	13	56
63	Self-supported yolk-shell nanocolloids towards high capacitance and excellent cycling performance. <i>Nano Energy</i> , 2015 , 18, 273-282	17.1	48
62	In Situ Dissolution-Diffusion toward Homogeneous Multiphase Ag/Ag ₂ Core-shell Heterostructures for Enhanced Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1667-1675	3.8	31
61	Tuning of multifunctional Cu-doped ZnO films and nanowires for enhanced piezo/ferroelectric-like and gas/photoresponse properties. <i>Nanoscale</i> , 2014 , 6, 1680-90	7.7	30
60	Bidentate-complex-derived TiO ₂ /carbon dot photocatalysts: in situ synthesis, versatile heterostructures, and enhanced H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5703	13	104
59	Highly flexible solution processable heterostructured zinc oxide nanowires mesh for environmental clean-up applications. <i>RSC Advances</i> , 2014 , 4, 27481-27487	3.7	20
58	High Catalytic Activity of Au Clusters Supported on ZnO Nanosheets. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21038-21041	3.8	16
57	Fine structural tuning of whereabout and clustering of metal-metal oxide heterostructure for optimal photocatalytic enhancement and stability. <i>Nanoscale</i> , 2014 , 6, 12655-64	7.7	18
56	Vegetable-extracted carbon dots and their nanocomposites for enhanced photocatalytic H ₂ production. <i>RSC Advances</i> , 2014 , 4, 44117-44123	3.7	77
55	Carbon-ensemble-manipulated ZnS heterostructures for enhanced photocatalytic H ₂ evolution. <i>Nanoscale</i> , 2014 , 6, 9673-80	7.7	64
54	Design and fabrication of broadband ultralow reflectivity black Si surfaces by laser micro/nanoprocessing. <i>Light: Science and Applications</i> , 2014 , 3, e185-e185	16.7	208
53	Tunable daughter molds from a single Si master grating mold. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 051601	1.3	1
52	Sub-100 nm patterning of TiO film for the regulation of endothelial and smooth muscle cell functions. <i>Biomaterials Science</i> , 2014 , 2, 1740-1749	7.4	23
51	Outside-in recrystallization of ZnS-Cu _{1.8} S hollow spheres with interdispersed lattices for enhanced visible light solar hydrogen generation. <i>Chemistry - A European Journal</i> , 2014 , 20, 11505-10	4.8	22
50	Green chemistry synthesis of a nanocomposite graphene hydrogel with three-dimensional nano-mesopores for photocatalytic H ₂ production. <i>RSC Advances</i> , 2013 , 3, 13169	3.7	66
49	Direct stamping and capillary flow patterning of solution processable piezoelectric polyvinylidene fluoride films. <i>Polymer</i> , 2013 , 54, 5330-5337	3.9	16
48	Hybrid organic PVDF-inorganic M-rGO-TiO ₂ (M = Ag, Pt) nanocomposites for multifunctional volatile organic compound sensing and photocatalytic degradation-H ₂ production. <i>Nanoscale</i> , 2013 , 5, 11283-90	7.7	59
47	Flexible palladium-based H ₂ sensor with fast response and low leakage detection by nanoimprint lithography. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7274-81	9.5	53

46	Transmission/absorption measurements for in situ monitoring of transparent conducting Ga:ZnO films grown via aqueous methods. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14239	13	10
45	Photocatalytic H ₂ production of composite one-dimensional TiO ₂ nanostructures of different morphological structures and crystal phases with graphene. <i>Catalysis Science and Technology</i> , 2013 , 3, 1086	5.5	58
44	Non-noble metal Cu-loaded TiO ₂ for enhanced photocatalytic H ₂ production. <i>Nanoscale</i> , 2013 , 5, 759-647.7		127
43	Metal nanoparticle-loaded hierarchically assembled ZnO nanoflakes for enhanced photocatalytic performance. <i>Nanoscale</i> , 2013 , 5, 5568-75	7.7	107
42	Tailoring the Porosity of 3D Tin Oxide Nanostructures Using Urea for Sensing and Photovoltaic Applications. <i>Science of Advanced Materials</i> , 2013 , 5, 1418-1426	2.3	22
41	Modeling and Experimental Study of a Low-Frequency-Vibration-Based Power Generator Using ZnO Nanowire Arrays. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 776-778	2.5	14
40	Transferability of solution processed epitaxial Ga:ZnO films; tailored for gas sensor and transparent conducting oxide applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16442		24
39	Non-planar geometries of solution processable transparent conducting oxide: from film characterization to architected electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 7196	35.4	26
38	Probing the morphology-device relation of Fe ₃ O ₄ nanostructures towards photovoltaic and sensing applications. <i>Nanoscale</i> , 2012 , 4, 194-205	7.7	92
37	Patterned growth of vertically-aligned ZnO nanorods on a flexible platform for feasible transparent and conformable electronics applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8518		26
36	Influence of a novel fluorosurfactant modified PEDOT:PSS hole transport layer on the performance of inverted organic solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 25057		103
35	C-doped ZnO nanowires: electronic structures, magnetic properties, and a possible spintronic device. <i>Journal of Chemical Physics</i> , 2011 , 134, 104706	3.9	33
34	Ammonia plasma modification towards a rapid and low temperature approach for tuning electrical conductivity of ZnO nanowires on flexible substrates. <i>Nanoscale</i> , 2011 , 3, 4206-14	7.7	19
33	Formation of hybrid structures: copper oxide nanocrystals templated on ultralong copper nanowires for open network sensing at room temperature. <i>Nanotechnology</i> , 2011 , 22, 235701	3.4	43
32	Electrical current mediated interconversion between graphene oxide to reduced graphene oxide. <i>Applied Physics Letters</i> , 2011 , 98, 173105	3.4	32
31	Investigation of ionic conductivity and long-term stability of a LiI and KI coupled diphenylamine quasi-solid-state dye-sensitized solar cell. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2383-91	9.5	22
30	Multi-junction ZnO Nanowires for Enhanced Surface Area and Light Trapping Solar Cells and Room Temperature Gas Sensing. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1350, 1		
29	Gas Sensor with Nanostructured Oxide Semiconductor Materials. <i>Science of Advanced Materials</i> , 2011 , 3, 150-168	2.3	61

28	Sputter-Deposited ZrO ₂ Gate Dielectric on High Mobility Epitaxial-GaAs/Ge Channel Material for Advanced CMOS Applications. <i>Key Engineering Materials</i> , 2010 , 443, 504-509	0.4	
27	A novel maskless approach towards aligned, density modulated and multi-junction ZnO nanowires for enhanced surface area and light trapping solar cells. <i>Nanotechnology</i> , 2010 , 21, 315602	3.4	42
26	Understanding the Growth of [FeSi ₂] Films for Photovoltaic Applications: A Study Using Transmission Electron Microscopy. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H847	3.9	1
25	Mesophase ordering of TiO ₂ film with high surface area and strong light harvesting for dye-sensitized solar cell. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1844-50	9.5	132
24	Hydrolysis and ion exchange of titania nanoparticles towards large-scale titania and titanate nanobelts for gas sensing applications. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 035401	3	15
23	Modification of ZnO nanorods through Au nanoparticles surface coating for dye-sensitized solar cells applications. <i>Materials Letters</i> , 2010 , 64, 1372-1375	3.3	62
22	Synthesis and field emission properties of well-aligned ZnO nanowires on buffer layer. <i>Thin Solid Films</i> , 2010 , 518, e139-e142	2.2	1
21	A facile approach towards ZnO nanorods conductive textile for room temperature multifunctional sensors. <i>Sensors and Actuators B: Chemical</i> , 2010 , 151, 121-126	8.5	101
20	High yield shape control of monodispersed Au nanostructures with 3D self-assembly ordering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 358, 108-114	5.1	3
19	Strain effects on work functions of pristine and potassium-decorated carbon nanotubes. <i>Journal of Chemical Physics</i> , 2009 , 131, 224701	3.9	30
18	Aqueous Synthesis towards Vertically-Aligned and Selective Pattern of ZnO Nanostructures Arrays. <i>Advanced Materials Research</i> , 2009 , 67, 7-12	0.5	2
17	Mesophase ordering and macroscopic morphology structuring of mesoporous TiO ₂ film. <i>Materials Chemistry and Physics</i> , 2009 , 116, 563-568	4.4	25
16	Synthesis and tuning of ordering and crystallinity of mesoporous titanium dioxide film. <i>Materials Letters</i> , 2009 , 63, 1624-1627	3.3	41
15	Template-free synthesis and gas sensing properties of well-controlled porous tin oxide nanospheres. <i>Sensors and Actuators B: Chemical</i> , 2009 , 143, 295-301	8.5	51
14	Controlled synthesis and application of ZnO nanoparticles, nanorods and nanospheres in dye-sensitized solar cells. <i>Nanotechnology</i> , 2009 , 20, 045604	3.4	107
13	Controllable Porosity of Monodispersed Tin Oxide Nanospheres via an Additive-Free Chemical Route. <i>Crystal Growth and Design</i> , 2009 , 9, 732-736	3.5	54
12	Gas sensing properties of tin oxide nanostructures synthesized via a solid-state reaction method. <i>Nanotechnology</i> , 2008 , 19, 255706	3.4	47
11	Facile solution route to vertically aligned, selective growth of ZnO nanostructure arrays. <i>Langmuir</i> , 2007 , 23, 11960-3	4	43

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9	High performance ZnO nanowire field effect transistor using self-aligned nanogap gate electrodes. <i>Applied Physics Letters</i> , 2006 , 89, 263102	3.4	109
8	The mean inner potential of GaN measured from nanowires using off-axis electron holography. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 892, 184		3
7	Self-assembled Growth of Coaxial Crystalline Nanowires. <i>Nano Letters</i> , 2004 , 4, 2023-2026	11.5	41
6	Three-dimensional crystalline SiC nanowire flowers. <i>Nanotechnology</i> , 2004 , 15, 996-999	3.4	96
5	THE GROWTH OF ALIGNED CARBON NANOTUBES ON FeNiCo CATALYST FILMS. <i>International Journal of Nanoscience</i> , 2002 , 01, 79-85	0.6	
4	Synthesis of well-aligned multiwalled carbon nanotubes on Ni catalyst using radio frequency plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2001 , 388, 73-77	2.2	63
3	Electric field-induced carbon nanotube junction formation. <i>Applied Physics Letters</i> , 2001 , 79, 260-262	3.4	46
2	Multi-interfacial catalyst with spatially defined redox reactions for enhanced pure water photothermal hydrogen production. <i>EcoMat</i> ,	9.4	6
1	Spontaneous Atomic Sites Formation in Wurtzite CoO Nanorods for Robust CO ₂ Photoreduction. <i>Advanced Functional Materials</i> , 2109693	15.6	6