Thomas E Mallouk

List of Publications by Year in descending order

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ΤΗΟΜΛς Ε ΜΑΙΙΟΙΙΚ

#	Article	IF	CITATIONS
1	Small-Angle X-ray Scattering Analysis of Colloidal Crystals and Replica Materials Made from l-Arginine-Stabilized Silica Nanoparticles. ACS Applied Materials & Interfaces, 2022, , .	8.0	1
2	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	47.7	195
3	Three-Chamber Design for Aqueous Acid–Base Redox Flow Batteries. ACS Energy Letters, 2022, 7, 908-913.	17.4	12
4	Evolution of spectroscopy features in layered MoS _x Se _(2-x) solid solutions. Materials Research Express, 2022, 9, 046301.	1.6	1
5	Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. Cell Reports Physical Science, 2022, 3, 100912.	5.6	1
6	Improving the efficiency of CO2 electrolysis by using a bipolar membrane with a weak-acid cation exchange layer. Nature Chemistry, 2021, 13, 33-40.	13.6	121
7	A high throughput optical method for studying compositional effects in electrocatalysts for CO2 reduction. Nature Communications, 2021, 12, 1114.	12.8	35
8	High-Voltage Aqueous Redox Flow Batteries Enabled by Catalyzed Water Dissociation and Acid–Base Neutralization in Bipolar Membranes. ACS Central Science, 2021, 7, 1028-1035.	11.3	27
9	A chemical steering wheel for micromotors. National Science Review, 2021, 8, nwab119.	9.5	2
10	Purely viscous acoustic propulsion of bimetallic rods. Physical Review Fluids, 2021, 6, .	2.5	10
11	An Improved Z-Scheme for Overall Water Splitting Using Dye-Sensitized Calcium Niobate Nanosheets Synthesized by a Flux Method. ACS Applied Energy Materials, 2021, 4, 10145-10152.	5.1	12
12	Excited Carrier Dynamics in a Dye-Sensitized Niobate Nanosheet Photocatalyst for Visible-Light Hydrogen Evolution. ACS Catalysis, 2021, 11, 659-669.	11.2	22
13	Bipolar Membranes for Ion Management in (Photo)Electrochemical Energy Conversion. Accounts of Materials Research, 2021, 2, 1156-1166.	11.7	20
14	A Practical Guide to Analyzing and Reporting the Movement of Nanoscale Swimmers. ACS Nano, 2021, 15, 15446-15460.	14.6	22
15	Renewable electricity storage using electrolysis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12558-12563.	7.1	136
16	Stable metal anodes enabled by a labile organic molecule bonded to a reduced graphene oxide aerogel. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30135-30141.	7.1	17
17	Bioinspiration in light harvesting and catalysis. Nature Reviews Materials, 2020, 5, 828-846.	48.7	136
18	Silver Adsorption on Calcium Niobate(001) Nanosheets: Calorimetric Energies That Explain Sinter-Resistant Support. Journal of the American Chemical Society, 2020, 142, 15751-15763.	13.7	4

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19	Electron Transport in Dye-Sensitized TiO ₂ Nanowire Arrays in Contact with Aqueous Electrolytes. Journal of Physical Chemistry C, 2020, 124, 22003-22010.	3.1	8
20	Oxide-Free Three-Dimensional Germanium/Silicon Core–Shell Metalattice Made by High-Pressure Confined Chemical Vapor Deposition. ACS Nano, 2020, 14, 12810-12818.	14.6	6
21	Acoustic Manipulation of Dense Nanorods in Microgravity. Microgravity Science and Technology, 2020, 32, 1159-1174.	1.4	15
22	Wafer-Scale Fabrication of Micro- to Nanoscale Bubble Swimmers and Their Fast Autonomous Propulsion by Ultrasound. ACS Nano, 2020, 14, 7520-7528.	14.6	56
23	Achieving Minimal Heat Conductivity by Ballistic Confinement in Phononic Metalattices. ACS Nano, 2020, 14, 4235-4243.	14.6	14
24	Oligomeric Ruthenium Polypyridyl Dye for Improved Stability of Aqueous Photoelectrochemical Cells. Journal of Physical Chemistry C, 2020, 124, 3542-3550.	3.1	7
25	2â€Aminobenzenethiolâ€Functionalized Silverâ€Decorated Nanoporous Silicon Photoelectrodes for Selective CO 2 Reduction. Angewandte Chemie, 2020, 132, 11559-11566.	2.0	6
26	2â€Aminobenzenethiolâ€Functionalized Silverâ€Decorated Nanoporous Silicon Photoelectrodes for Selective CO ₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 11462-11469.	13.8	24
27	An Artificial Z-Scheme Constructed from Dye-Sensitized Metal Oxide Nanosheets for Visible Light-Driven Overall Water Splitting. Journal of the American Chemical Society, 2020, 142, 8412-8420.	13.7	103
28	Nondestructive Measurements of the Mechanical and Structural Properties of Nanostructured Metalattices. Nano Letters, 2020, 20, 3306-3312.	9.1	10
29	Quantum transport in three-dimensional metalattices of platinum featuring an unprecedentedly large surface area to volume ratio. Physical Review Materials, 2020, 4, .	2.4	3
30	Plasmonic Metalattices: A Correlated Monochromated Electron Energy Loss Study and Theoretical Calculations. Microscopy and Microanalysis, 2019, 25, 678-679.	0.4	0
31	Balancing Water Dissociation and Current Densities To Enable Sustainable Hydrogen Production with Bipolar Membranes in Microbial Electrolysis Cells. Environmental Science & Technology, 2019, 53, 14761-14768.	10.0	28
32	Defect Density-Dependent Electron Injection from Excited-State Ru(II) Tris-Diimine Complexes into Defect-Controlled Oxide Semiconductors. Journal of Physical Chemistry C, 2019, 123, 28310-28318.	3.1	9
33	3D steerable, acoustically powered microswimmers for single-particle manipulation. Science Advances, 2019, 5, eaax3084.	10.3	199
34	Competing Polar and Antipolar Structures in the Ruddlesden–Popper Layered Perovskite Li ₂ SrNb ₂ O ₇ . Chemistry of Materials, 2019, 31, 4418-4425.	6.7	28
35	Polymer–inorganic solid–electrolyte interphase for stable lithium metal batteries under lean electrolyte conditions. Nature Materials, 2019, 18, 384-389.	27.5	587
36	Charge Transfer Dynamics in Aqueous Dye-Sensitized Photoelectrochemical Cells: Implications for Water Splitting Efficiency. Journal of Physical Chemistry C, 2019, 123, 299-305.	3.1	20

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37	Adaptive Shape Ripening and Interparticle Bridging of <scp>l</scp> -Arginine-Stabilized Silica Nanoparticles during Evaporative Colloidal Crystal Assembly. ACS Applied Materials & Interfaces, 2019, 11, 4568-4577.	8.0	4
38	Two-Dimensional Metal Oxide Nanosheets as Building Blocks for Artificial Photosynthetic Assemblies. Bulletin of the Chemical Society of Japan, 2019, 92, 38-54.	3.2	175
39	Soft chemistry of ion-exchangeable layered metal oxides. Chemical Society Reviews, 2018, 47, 2401-2430.	38.1	125
40	Bipolar Membranes Inhibit Product Crossover in CO ₂ Electrolysis Cells. Advanced Sustainable Systems, 2018, 2, 1700187.	5.3	114
41	Random anion distribution in MSxSe2â^'x (M = Mo, W) crystals and nanosheets. RSC Advances, 2018, 8, 9871-9878.	3.6	2
42	Electrolysis of Gaseous CO ₂ to CO in a Flow Cell with a Bipolar Membrane. ACS Energy Letters, 2018, 3, 149-154.	17.4	265
43	Confined Chemical Fluid Deposition of Ferromagnetic Metalattices. Nano Letters, 2018, 18, 546-552.	9.1	21
44	High Yield Exfoliation of WS ₂ Crystals into 1–2 Layer Semiconducting Nanosheets and Efficient Photocatalytic Hydrogen Evolution from WS ₂ /CdS Nanorod Composites. ACS Applied Materials & Interfaces, 2018, 10, 2810-2818.	8.0	112
45	Shape-Directed Microspinners Powered by Ultrasound. ACS Nano, 2018, 12, 2939-2947.	14.6	74
46	Investigation of Surface Plasmon Resonances in Silver Infiltrated Metalattices by Monochromated Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2018, 24, 432-433.	0.4	1
47	In-situ TEM Study of Formation of an Ordered Hollow Structure Metalattice from Silica Nano-Opals through High-Temperature Annealing. Microscopy and Microanalysis, 2018, 24, 320-321.	0.4	0
48	The balance of electric field and interfacial catalysis in promoting water dissociation in bipolar membranes. Energy and Environmental Science, 2018, 11, 2235-2245.	30.8	100
49	Ultrafast proton-assisted tunneling through ZrO ₂ in dye-sensitized SnO ₂ -core/ZrO ₂ -shell films. Chemical Communications, 2018, 54, 7971-7974.	4.1	5
50	Colloidal crystal order and structure revealed by tabletop extreme ultraviolet scattering and coherent diffractive imaging. Optics Express, 2018, 26, 11393.	3.4	6
51	Two Forces Are Better than One: Combining Chemical and Acoustic Propulsion for Enhanced Micromotor Functionality. Accounts of Chemical Research, 2018, 51, 1948-1956.	15.6	93
52	An Easily Fabricated Low-Cost Potentiostat Coupled with User-Friendly Software for Introducing Students to Electrochemical Reactions and Electroanalytical Techniques. Journal of Chemical Education, 2018, 95, 1658-1661.	2.3	43
53	Charge Recombination with Fractional Reaction Orders in Water-Splitting Dye-Sensitized Photoelectrochemical Cells. Journal of the American Chemical Society, 2018, 140, 11647-11654.	13.7	41
54	Saltâ€Based Organic–Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li ₁₀ GeP ₂ S ₁₂ Solid Electrolyte Interface. Angewandte Chemie - International Edition, 2018, 57, 13608-13612.	13.8	138

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55	Saltâ€Based Organic–Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li 10 GeP 2 S 12 Solid Electrolyte Interface. Angewandte Chemie, 2018, 130, 13796-13800.	2.0	5
56	Dye-sensitized photoelectrochemical water oxidation through a buried junction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6946-6951.	7.1	25
57	Harnessing catalytic pumps for directional delivery of microparticles in microchambers. Nature Communications, 2017, 8, 14384.	12.8	58
58	Water splitting dye-sensitized solar cells. Nano Today, 2017, 14, 42-58.	11.9	174
59	Visible-light controlled catalytic Cu ₂ O–Au micromotors. Nanoscale, 2017, 9, 75-78.	5.6	116
60	Competing Structural Instabilities in the Ruddlesden–Popper Derivatives HRTiO ₄ (R = Rare) Tj ETQ Centrosymmetricity. Chemistry of Materials, 2017, 29, 656-665.)q0 0 0 rgl 6.7	BT /Overlock 22
61	General Method of Manipulating Formation, Composition, and Morphology of Solid-Electrolyte Interphases for Stable Li-Alloy Anodes. Journal of the American Chemical Society, 2017, 139, 17359-17367.	13.7	112
62	Visible light-driven, magnetically steerable gold/iron oxide nanomotors. Chemical Communications, 2017, 53, 11465-11468.	4.1	59
63	Interfacial Chemistry Regulation via a Skin-Grafting Strategy Enables High-Performance Lithium-Metal Batteries. Journal of the American Chemical Society, 2017, 139, 15288-15291.	13.7	255
64	Homogeneously dispersed CeO2 nanoparticles on exfoliated hexaniobate nanosheets. Journal of Physics and Chemistry of Solids, 2017, 111, 335-342.	4.0	11
65	In-situ TEM Study on Size-dependent Thermal Stability of Nickel Filled Silica Nano-Opals. Microscopy and Microanalysis, 2017, 23, 956-957.	0.4	1
66	Rheotaxis of Bimetallic Micromotors Driven by Chemical–Acoustic Hybrid Power. ACS Nano, 2017, 11, 10591-10598.	14.6	135
67	Binary Colloidal Crystal Films Grown by Vertical Evaporation of Silica Nanoparticle Suspensions. Langmuir, 2017, 33, 10366-10373.	3.5	25
68	Visible-light driven Si–Au micromotors in water and organic solvents. Nanoscale, 2017, 9, 11434-11438.	5.6	53
69	Double Replication of Silica Colloidal Crystal Films. ACS Applied Materials & Interfaces, 2017, 9, 42075-42083.	8.0	2
70	Atomically Thin Layers of Graphene and Hexagonal Boron Nitride Made by Solvent Exfoliation of Their Phosphoric Acid Intercalation Compounds. ACS Nano, 2017, 11, 6746-6754.	14.6	35
71	Emergent Noncentrosymmetry and Piezoelectricity Driven by Oxygen Octahedral Rotations in <i>n</i> = 2 Dion–Jacobson Phase Layer Perovskites. Advanced Functional Materials, 2016, 26, 1930-1937.	14.9	33
72	Distinct photoluminescence and Raman spectroscopy signatures for identifying highly crystalline WS ₂ monolayers produced by different growth methods. Journal of Materials Research, 2016, 31, 931-944.	2.6	95

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73	Improper Inversion Symmetry Breaking and Piezoelectricity through Oxygen Octahedral Rotations in Layered Perovskite Family, Li <i>R</i> TiO ₄ (<i>R</i> = Rare Earths). Advanced Electronic Materials, 2016, 2, 1500196.	5.1	28
74	Controlled Exfoliation of MoS ₂ Crystals into Trilayer Nanosheets. Journal of the American Chemical Society, 2016, 138, 5143-5149.	13.7	207
75	Atomic and Electronic Structures of WTe ₂ Probed by High Resolution Electron Microscopy and ab Initio Calculations. Journal of Physical Chemistry C, 2016, 120, 8364-8369.	3.1	37
76	Flat-Band Potentials of Molecularly Thin Metal Oxide Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 11539-11547.	8.0	92
77	Examining the use of adaptive technologies to increase the hands-on participation of students with blindness or low vision in secondary-school chemistry and physics. Chemistry Education Research and Practice, 2016, 17, 1174-1189.	2.5	16
78	Dynamics of Electron Injection in SnO ₂ /TiO ₂ Core/Shell Electrodes for Water-Splitting Dye-Sensitized Photoelectrochemical Cells. Journal of Physical Chemistry Letters, 2016, 7, 2930-2934.	4.6	56
79	Electrolysis of CO ₂ to Syngas in Bipolar Membrane-Based Electrochemical Cells. ACS Energy Letters, 2016, 1, 1149-1153.	17.4	235
80	Proton-Induced Trap States, Injection and Recombination Dynamics in Water-Splitting Dye-Sensitized Photoelectrochemical Cells. ACS Applied Materials & Interfaces, 2016, 8, 16727-16735.	8.0	35
81	Planar Light Concentration in Micro-Si Solar Cells Enabled by a Metallic Grating–Photonic Crystal Architecture. ACS Photonics, 2016, 3, 604-610.	6.6	23
82	Density and Shape Effects in the Acoustic Propulsion of Bimetallic Nanorod Motors. ACS Nano, 2016, 10, 4763-4769.	14.6	112
83	Catalytically driven assembly of trisegmented metallic nanorods and polystyrene tracer particles. Soft Matter, 2016, 12, 2501-2504.	2.7	22
84	Themed issue on water splitting and photocatalysis. Journal of Materials Chemistry A, 2016, 4, 2764-2765.	10.3	14
85	Ultrafast Electron Injection Dynamics of Photoanodes for Water-Splitting Dye-Sensitized Photoelectrochemical Cells. Journal of Physical Chemistry C, 2016, 120, 5940-5948.	3.1	48
86	Buffer layer between a planar optical concentrator and a solar cell. AIP Advances, 2015, 5, .	1.3	19
87	A New Synthetic Route to Microporous Silica with Wellâ€Defined Pores by Replication of a Metal–Organic Framework. Chemistry - A European Journal, 2015, 21, 12148-12152.	3.3	9
88	From One to Many: Dynamic Assembly and Collective Behavior of Self-Propelled Colloidal Motors. Accounts of Chemical Research, 2015, 48, 1938-1946.	15.6	267
89	Dynamics of Electron Recombination and Transport in Water-Splitting Dye-Sensitized Photoanodes. Journal of Physical Chemistry C, 2015, 119, 13858-13867.	3.1	47
90	Hydrothermal Growth and Photoelectrochemistry of Highly Oriented, Crystalline Anatase TiO ₂ Nanorods on Transparent Conducting Electrodes. Chemistry of Materials, 2015, 27, 4180-4183.	6.7	73

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91	Gate-modulated conductance of few-layer WSe2 field-effect transistors in the subgap regime: Schottky barrier transistor and subgap impurity states. Applied Physics Letters, 2015, 106, 152104.	3.3	29
92	Charge Transfer Stabilization of Late Transition Metal Oxide Nanoparticles on a Layered Niobate Support. Journal of the American Chemical Society, 2015, 137, 16216-16224.	13.7	60
93	Surface Superconductivity in Thin Cylindrical Bi Nanowire. Nano Letters, 2015, 15, 1487-1492.	9.1	32
94	Metal-free organic sensitizers for use in water-splitting dye-sensitized photoelectrochemical cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1681-1686.	7.1	133
95	A tale of two forces: simultaneous chemical and acoustic propulsion of bimetallic micromotors. Chemical Communications, 2015, 51, 1020-1023.	4.1	110
96	Synthetic Nano- and Micromachines in Analytical Chemistry: Sensing, Migration, Capture, Delivery, and Separation. Annual Review of Analytical Chemistry, 2015, 8, 311-333.	5.4	134
97	Understanding the Effect of Monomeric Iridium(III/IV) Aquo Complexes on the Photoelectrochemistry of IrO _{<i>x</i>} · <i>n</i> H ₂ O-Catalyzed Water-Splitting Systems. Journal of the American Chemical Society, 2015, 137, 8749-8757.	13.7	41
98	Tungsten Ditelluride: a layered semimetal. Scientific Reports, 2015, 5, 10013.	3.3	186
99	Experimental excitation of multiple surface-plasmon-polariton waves and waveguide modes in a one-dimensional photonic crystal atop a two-dimensional metal grating. Journal of Nanophotonics, 2015, 9, 093593.	1.0	25
100	Optimization of a spectrum splitter using differential evolution algorithm for solar cell applications. Journal of Photonics for Energy, 2015, 5, 055099.	1.3	3
101	Fast and Efficient Preparation of Exfoliated 2H MoS ₂ Nanosheets by Sonication-Assisted Lithium Intercalation and Infrared Laser-Induced 1T to 2H Phase Reversion. Nano Letters, 2015, 15, 5956-5960.	9.1	603
102	Transition Metal Dichalcogenides and Beyond: Synthesis, Properties, and Applications of Single- and Few-Layer Nanosheets. Accounts of Chemical Research, 2015, 48, 56-64.	15.6	1,089
103	Excitation of multiple surface-plasmon-polariton waves and waveguide modes in a 1D photonic crystal atop a 2D metal grating. , 2014, , .		0
104	Optimization of a spectrum splitter using differential evolution algorithm for solar cell applications. , 2014, , .		0
105	Protonic and electronic conductivity of the layered perovskite oxides HCa2Nb3O10 and Ca4Nb6O19. International Journal of Hydrogen Energy, 2014, 39, 4576-4580.	7.1	10
106	Self-powered enzyme micropumps. Nature Chemistry, 2014, 6, 415-422.	13.6	228
107	Acoustic Propulsion of Nanorod Motors Inside Living Cells. Angewandte Chemie - International Edition, 2014, 53, 3201-3204.	13.8	281
108	Electrochemical Characterization of Liquid Phase Exfoliated Two-Dimensional Layers of Molybdenum Disulfide. ACS Applied Materials & Interfaces, 2014, 6, 2125-2130.	8.0	121

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109	Self-Assembly of Nanorod Motors into Geometrically Regular Multimers and Their Propulsion by Ultrasound. ACS Nano, 2014, 8, 11053-11060.	14.6	101
110	Synthesis, Exfoliation, and Electronic/Protonic Conductivity of the Dion–Jacobson Phase Layer Perovskite HLa ₂ TiTa ₂ O ₁₀ . Chemistry of Materials, 2014, 26, 898-906.	6.7	40
111	Non-oxidative intercalation and exfoliation of graphite by BrÃ,nsted acids. Nature Chemistry, 2014, 6, 957-963.	13.6	175
112	Excited Excitonic States in 1L, 2L, 3L, and Bulk WSe ₂ Observed by Resonant Raman Spectroscopy. ACS Nano, 2014, 8, 9629-9635.	14.6	207
113	Photovoltage Effects of Sintered IrO ₂ Nanoparticle Catalysts in Water-Splitting Dye-Sensitized Photoelectrochemical Cells. Journal of Physical Chemistry C, 2014, 118, 17046-17053.	3.1	43
114	Kilohertz Rotation of Nanorods Propelled by Ultrasound, Traced by Microvortex Advection of Nanoparticles. ACS Nano, 2014, 8, 8300-8309.	14.6	81
115	Assessing the Utility of Bipolar Membranes for use in Photoelectrochemical Waterâ€Splitting Cells. ChemSusChem, 2014, 7, 3017-3020.	6.8	104
116	Effects of Electron Trapping and Protonation on the Efficiency of Water-Splitting Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2014, 136, 10974-10982.	13.7	79
117	Interfacial Bonding Stabilizes Rhodium and Rhodium Oxide Nanoparticles on Layered Nb Oxide and Ta Oxide Supports. Journal of the American Chemical Society, 2014, 136, 5687-5696.	13.7	56
118	New First Order Raman-active Modes in Few Layered Transition Metal Dichalcogenides. Scientific Reports, 2014, 4, 4215.	3.3	367
119	Small power: Autonomous nano- and micromotors propelled by self-generated gradients. Nano Today, 2013, 8, 531-554.	11.9	586
120	Microporous Brookite-Phase Titania Made by Replication of a Metal–Organic Framework. Journal of the American Chemical Society, 2013, 135, 16276-16279.	13.7	98
121	Steering Acoustically Propelled Nanowire Motors toward Cells in a Biologically Compatible Environment Using Magnetic Fields. Langmuir, 2013, 29, 16113-16118.	3.5	107
122	Understanding the Efficiency of Autonomous Nano- and Microscale Motors. Journal of the American Chemical Society, 2013, 135, 10557-10565.	13.7	230
123	Organophosphates as Solvents for Electrolytes in Electrochemical Devices. ACS Applied Materials & Interfaces, 2013, 5, 13029-13034.	8.0	16
124	Divide and conquer. Nature Chemistry, 2013, 5, 362-363.	13.6	335
125	Reversible Intercalation of Hexagonal Boron Nitride with BrÃ,nsted Acids. Journal of the American Chemical Society, 2013, 135, 8372-8381.	13.7	88
126	Wafer-Scale Fabrication of Plasmonic Crystals from Patterned Silicon Templates Prepared by Nanosphere Lithography. Nano Letters, 2013, 13, 2623-2627.	9.1	46

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127	Broadband Light Absorption with Multiple Surface Plasmon Polariton Waves Excited at the Interface of a Metallic Grating and Photonic Crystal. ACS Nano, 2013, 7, 4995-5007.	14.6	49
128	Controlled Synthesis and Transfer of Large-Area WS ₂ Sheets: From Single Layer to Few Layers. ACS Nano, 2013, 7, 5235-5242.	14.6	534
129	Tunable Nanowire Patterning Using Standing Surface Acoustic Waves. ACS Nano, 2013, 7, 3306-3314.	14.6	142
130	Design and development of photoanodes for water-splitting dye-sensitized photoelectrochemical cells. Chemical Society Reviews, 2013, 42, 2357-2387.	38.1	495
131	Optimization of the absorption efficiency of an amorphous-silicon thin-film tandem solar cell backed by a metallic surface-relief grating. Applied Optics, 2013, 52, 966.	1.8	36
132	An atomic layer deposition reactor with dose quantification for precursor adsorption and reactivity studies. Review of Scientific Instruments, 2013, 84, 014102.	1.3	18
133	Catalytically powered dynamic assembly of rod-shaped nanomotors and passive tracer particles. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17744-17749.	7.1	166
134	Periodically multilayered planar optical concentrator for photovoltaic solar cells. Applied Physics Letters, 2013, 103, .	3.3	15
135	Effect of grating period on the excitation of multiple surface-plasmon-polariton waves guided by the interface of a metal grating and a photonic crystal. Proceedings of SPIE, 2013, , .	0.8	3
136	Excitation of multiple surface-plasmon-polariton waves guided by the periodically corrugated interface of a metal and a periodic multilayered isotropic dielectric material. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 704.	2.1	33
137	Molecules meet materials. Nature, 2012, 485, 450-451.	27.8	5
138	Resistance and polarization losses in aqueous buffer–membrane electrolytes for water-splitting photoelectrochemical cells. Energy and Environmental Science, 2012, 5, 7582.	30.8	188
139	Electron transfer kinetics in water splitting dye-sensitized solar cells based on core–shell oxide electrodes. Faraday Discussions, 2012, 155, 165-176.	3.2	62
140	Dense layers of vertically oriented WO ₃ crystals as anodes for photoelectrochemical water oxidation. Chemical Communications, 2012, 48, 729-731.	4.1	106
141	Synthesis of New Polyelectrolytes via Backbone Quaternization of Poly(aryloxy- and) Tj ETQq1 1 0.784314 rgBT ,	Overlock 4.8	10 ₁ 50 182
142	Autonomous Motion of Metallic Microrods Propelled by Ultrasound. ACS Nano, 2012, 6, 6122-6132.	14.6	597
143	Improving the efficiency of water splitting in dye-sensitized solar cells by using a biomimetic electron transfer mediator. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15612-15616.	7.1	280
144	A Facile and Template-Free Hydrothermal Synthesis of Mn ₃ O ₄ Nanorods on Graphene Sheets for Supercapacitor Electrodes with Long Cycle Stability. Chemistry of Materials, 2012, 24, 1158-1164.	6.7	728

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145	Rapid Charge Transport in Dyeâ€Sensitized Solar Cells Made from Vertically Aligned Singleâ€Crystal Rutile TiO ₂ Nanowires. Angewandte Chemie - International Edition, 2012, 51, 2727-2730.	13.8	244
146	Utilization of Direct and Diffuse Sunlight in a Dye-Sensitized Solar Cell — Silicon Photovoltaic Hybrid Concentrator System. Journal of Physical Chemistry Letters, 2011, 2, 581-585.	4.6	49
147	Conductive indium-tin oxide nanowire and nanotube arrays made by electrochemically assisted deposition in template membranes: switching between wire and tube growth modes by surface chemical modification of the template. Nanoscale, 2011, 3, 1541.	5.6	20
148	Facile Solvothermal Method for Fabricating Arrays of Vertically Oriented α-Fe ₂ O ₃ Nanowires and Their Application in Photoelectrochemical Water Oxidation. Energy & Fuels, 2011, 25, 5257-5263.	5.1	78
149	Template Electrodeposition of Single-Phase p- and n-Type Copper Indium Diselenide (CuInSe2) Nanowire Arrays. ACS Nano, 2011, 5, 3237-3241.	14.6	44
150	A High Yield Synthesis of Ligand-Free Iridium Oxide Nanoparticles with High Electrocatalytic Activity. Journal of Physical Chemistry Letters, 2011, 2, 402-406.	4.6	282
151	A porphyrin-stabilized iridium oxide water oxidation catalyst. Canadian Journal of Chemistry, 2011, 89, 152-157.	1.1	18
152	Enhanced Diffusion due to Active Swimmers at a Solid Surface. Physical Review Letters, 2011, 106, 048102.	7.8	178
153	Orientation of Diamagnetic Layered Transition Metal Oxide Particles in 1-Tesla Magnetic Fields. Journal of the American Chemical Society, 2011, 133, 1824-1831.	13.7	15
154	Anodic Deposition of Colloidal Iridium Oxide Thin Films from Hexahydroxyiridate(IV) Solutions. Small, 2011, 7, 2087-2093.	10.0	115
155	Electrolyte infiltration in phosphazene-based dye-sensitized solar cells. Journal of Power Sources, 2011, 196, 5223-5230.	7.8	25
156	Antiproximity effect in aluminum nanowires with no applied magnetic field. Physical Review B, 2011, 83,	3.2	15
157	Interplay between superconductivity and ferromagnetism in crystalline nanowires. Nature Physics, 2010, 6, 389-394.	16.7	194
158	Enhanced conversion efficiencies for pillar array solar cells fabricated from crystalline silicon with short minority carrier diffusion lengths. Applied Physics Letters, 2010, 96, 213503.	3.3	110
159	Radial junction silicon wire array solar cells fabricated by gold-catalyzed vapor-liquid-solid growth. Applied Physics Letters, 2010, 97, .	3.3	82
160	Electrochemically Assisted Deposition as a New Route to Transparent Conductive Indium Tin Oxide Films. Chemistry of Materials, 2010, 22, 4939-4949.	6.7	12
161	Anionic Homopolymers Efficiently Target Zerovalent Iron Particles to Hydrophobic Contaminants in Sand Columns. Environmental Science & amp; Technology, 2010, 44, 9069-9074.	10.0	30
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