

# Thomas E Mallouk

## List of Publications by Year in descending order

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467  
papers

58,840  
citations

576

129  
h-index

1333

229  
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498  
all docs

498  
docs citations

498  
times ranked

54840  
citing authors

#	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, , .	4.0	1
2	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	23.0	195
3	Three-Chamber Design for Aqueous Acid-Base Redox Flow Batteries. ACS Energy Letters, 2022, 7, 908-913.	8.8	12
4	Evolution of spectroscopy features in layered MoS <sub>x</sub> Se <sub>(2-x)</sub> solid solutions. Materials Research Express, 2022, 9, 046301.	0.8	1
5	Managing gas and ion transport in a PTFE fiber-based architecture for alkaline fuel cells. Cell Reports Physical Science, 2022, 3, 100912.	2.8	1
6	Improving the efficiency of CO <sub>2</sub> electrolysis by using a bipolar membrane with a weak-acid cation exchange layer. Nature Chemistry, 2021, 13, 33-40.	6.6	121
7	A high throughput optical method for studying compositional effects in electrocatalysts for CO <sub>2</sub> reduction. Nature Communications, 2021, 12, 1114.	5.8	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.	5.3	27
9	A chemical steering wheel for micromotors. National Science Review, 2021, 8, nwab119.	4.6	2
10	Purely viscous acoustic propulsion of bimetallic rods. Physical Review Fluids, 2021, 6, .	1.0	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.	2.5	12
12	Excited Carrier Dynamics in a Dye-Sensitized Niobate Nanosheet Photocatalyst for Visible-Light Hydrogen Evolution. ACS Catalysis, 2021, 11, 659-669.	5.5	22
13	Bipolar Membranes for Ion Management in (Photo)Electrochemical Energy Conversion. Accounts of Materials Research, 2021, 2, 1156-1166.	5.9	20
14	A Practical Guide to Analyzing and Reporting the Movement of Nanoscale Swimmers. ACS Nano, 2021, 15, 15446-15460.	7.3	22
15	Renewable electricity storage using electrolysis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12558-12563.	3.3	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.	3.3	17
17	Bioinspiration in light harvesting and catalysis. Nature Reviews Materials, 2020, 5, 828-846.	23.3	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.	6.6	4

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19	Electron Transport in Dye-Sensitized TiO <sub>2</sub> Nanowire Arrays in Contact with Aqueous Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22003-22010.	1.5	8
20	Oxide-Free Three-Dimensional Germanium/Silicon Core-Shell Metalattice Made by High-Pressure Confined Chemical Vapor Deposition. <i>ACS Nano</i> , 2020, 14, 12810-12818.	7.3	6
21	Acoustic Manipulation of Dense Nanorods in Microgravity. <i>Microgravity Science and Technology</i> , 2020, 32, 1159-1174.	0.7	15
22	Wafer-Scale Fabrication of Micro- to Nanoscale Bubble Swimmers and Their Fast Autonomous Propulsion by Ultrasound. <i>ACS Nano</i> , 2020, 14, 7520-7528.	7.3	56
23	Achieving Minimal Heat Conductivity by Ballistic Confinement in Phononic Metalattices. <i>ACS Nano</i> , 2020, 14, 4235-4243.	7.3	14
24	Oligomeric Ruthenium Polypyridyl Dye for Improved Stability of Aqueous Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3542-3550.	1.5	7
25	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO <sub>2</sub> Reduction. <i>Angewandte Chemie</i> , 2020, 132, 11559-11566.	1.6	6
26	2-Aminobenzenethiol-Functionalized Silver-Decorated Nanoporous Silicon Photoelectrodes for Selective CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11462-11469.	7.2	24
27	An Artificial Z-Scheme Constructed from Dye-Sensitized Metal Oxide Nanosheets for Visible Light-Driven Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2020, 142, 8412-8420.	6.6	103
28	Nondestructive Measurements of the Mechanical and Structural Properties of Nanostructured Metalattices. <i>Nano Letters</i> , 2020, 20, 3306-3312.	4.5	10
29	Quantum transport in three-dimensional metalattices of platinum featuring an unprecedentedly large surface area to volume ratio. <i>Physical Review Materials</i> , 2020, 4, .	0.9	3
30	Plasmonic Metalattices: A Correlated Monochromated Electron Energy Loss Study and Theoretical Calculations. <i>Microscopy and Microanalysis</i> , 2019, 25, 678-679.	0.2	0
31	Balancing Water Dissociation and Current Densities To Enable Sustainable Hydrogen Production with Bipolar Membranes in Microbial Electrolysis Cells. <i>Environmental Science &amp; Technology</i> , 2019, 53, 14761-14768.	4.6	28
32	Defect Density-Dependent Electron Injection from Excited-State Ru(II) Tris-Diimine Complexes into Defect-Controlled Oxide Semiconductors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28310-28318.	1.5	9
33	3D steerable, acoustically powered microswimmers for single-particle manipulation. <i>Science Advances</i> , 2019, 5, eaax3084.	4.7	199
34	Competing Polar and Antipolar Structures in the Ruddlesden-Popper Layered Perovskite Li <sub>2</sub> SrNb <sub>2</sub> O <sub>7</sub> . <i>Chemistry of Materials</i> , 2019, 31, 4418-4425.	3.2	28
35	Polymer-inorganic solid electrolyte interphase for stable lithium metal batteries under lean electrolyte conditions. <i>Nature Materials</i> , 2019, 18, 384-389.	13.3	587
36	Charge Transfer Dynamics in Aqueous Dye-Sensitized Photoelectrochemical Cells: Implications for Water Splitting Efficiency. <i>Journal of Physical Chemistry C</i> , 2019, 123, 299-305.	1.5	20

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37	Adaptive Shape Ripening and Interparticle Bridging of $\text{L-Arginine}$ -Stabilized Silica Nanoparticles during Evaporative Colloidal Crystal Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4568-4577.	4.0	4
38	Two-Dimensional Metal Oxide Nanosheets as Building Blocks for Artificial Photosynthetic Assemblies. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 38-54.	2.0	175
39	Soft chemistry of ion-exchangeable layered metal oxides. <i>Chemical Society Reviews</i> , 2018, 47, 2401-2430.	18.7	125
40	Bipolar Membranes Inhibit Product Crossover in $\text{CO}_2$ Electrolysis Cells. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700187.	2.7	114
41	Random anion distribution in $\text{MSxSe}_2$ (M = Mo, W) crystals and nanosheets. <i>RSC Advances</i> , 2018, 8, 9871-9878.	1.7	2
42	Electrolysis of Gaseous $\text{CO}_2$ to CO in a Flow Cell with a Bipolar Membrane. <i>ACS Energy Letters</i> , 2018, 3, 149-154.	8.8	265
43	Confined Chemical Fluid Deposition of Ferromagnetic Metal lattices. <i>Nano Letters</i> , 2018, 18, 546-552.	4.5	21
44	High Yield Exfoliation of $\text{WS}_2$ Crystals into $\sim 2$ Layer Semiconducting Nanosheets and Efficient Photocatalytic Hydrogen Evolution from $\text{WS}_2/\text{CdS}$ Nanorod Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2810-2818.	4.0	112
45	Shape-Directed Microspinners Powered by Ultrasound. <i>ACS Nano</i> , 2018, 12, 2939-2947.	7.3	74
46	Investigation of Surface Plasmon Resonances in Silver Infiltrated Metal lattices by Monochromated Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 432-433.	0.2	1
47	In-situ TEM Study of Formation of an Ordered Hollow Structure Metal lattice from Silica Nano-Opals through High-Temperature Annealing. <i>Microscopy and Microanalysis</i> , 2018, 24, 320-321.	0.2	0
48	The balance of electric field and interfacial catalysis in promoting water dissociation in bipolar membranes. <i>Energy and Environmental Science</i> , 2018, 11, 2235-2245.	15.6	100
49	Ultrafast proton-assisted tunneling through $\text{ZrO}_2$ in dye-sensitized $\text{SnO}_2$ -core/ $\text{ZrO}_2$ -shell films. <i>Chemical Communications</i> , 2018, 54, 7971-7974.	2.2	5
50	Colloidal crystal order and structure revealed by tabletop extreme ultraviolet scattering and coherent diffractive imaging. <i>Optics Express</i> , 2018, 26, 11393.	1.7	6
51	Two Forces Are Better than One: Combining Chemical and Acoustic Propulsion for Enhanced Micromotor Functionality. <i>Accounts of Chemical Research</i> , 2018, 51, 1948-1956.	7.6	93
52	An Easily Fabricated Low-Cost Potentiostat Coupled with User-Friendly Software for Introducing Students to Electrochemical Reactions and Electroanalytical Techniques. <i>Journal of Chemical Education</i> , 2018, 95, 1658-1661.	1.1	43
53	Charge Recombination with Fractional Reaction Orders in Water-Splitting Dye-Sensitized Photoelectrochemical Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 11647-11654.	6.6	41
54	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/ $\text{Li}_{10}\text{GeP}_{12}\text{S}_{12}$ Solid Electrolyte Interface. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13608-13612.	7.2	138

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55	Salt-Based Organic-Inorganic Nanocomposites: Towards A Stable Lithium Metal/Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> Solid Electrolyte Interface. <i>Angewandte Chemie</i> , 2018, 130, 13796-13800.	1.6	5
56	Dye-sensitized photoelectrochemical water oxidation through a buried junction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6946-6951.	3.3	25
57	Harnessing catalytic pumps for directional delivery of microparticles in microchambers. <i>Nature Communications</i> , 2017, 8, 14384.	5.8	58
58	Water splitting dye-sensitized solar cells. <i>Nano Today</i> , 2017, 14, 42-58.	6.2	174
59	Visible-light controlled catalytic Cu <sub>2</sub> O-Au micromotors. <i>Nanoscale</i> , 2017, 9, 75-78.	2.8	116
60	Competing Structural Instabilities in the Ruddlesden-Popper Derivatives HRTiO <sub>4</sub> (R = Rare) Tj ETQq0 0 0 rgBT /Overlock Centrosymmetry. <i>Chemistry of Materials</i> , 2017, 29, 656-665.	3.2	22
61	General Method of Manipulating Formation, Composition, and Morphology of Solid-Electrolyte Interphases for Stable Li-Alloy Anodes. <i>Journal of the American Chemical Society</i> , 2017, 139, 17359-17367.	6.6	112
62	Visible light-driven, magnetically steerable gold/iron oxide nanomotors. <i>Chemical Communications</i> , 2017, 53, 11465-11468.	2.2	59
63	Interfacial Chemistry Regulation via a Skin-Grafting Strategy Enables High-Performance Lithium-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 15288-15291.	6.6	255
64	Homogeneously dispersed CeO <sub>2</sub> nanoparticles on exfoliated hexaniobate nanosheets. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 335-342.	1.9	11
65	In-situ TEM Study on Size-dependent Thermal Stability of Nickel Filled Silica Nano-Opals. <i>Microscopy and Microanalysis</i> , 2017, 23, 956-957.	0.2	1
66	Rheotaxis of Bimetallic Micromotors Driven by Chemical-Acoustic Hybrid Power. <i>ACS Nano</i> , 2017, 11, 10591-10598.	7.3	135
67	Binary Colloidal Crystal Films Grown by Vertical Evaporation of Silica Nanoparticle Suspensions. <i>Langmuir</i> , 2017, 33, 10366-10373.	1.6	25
68	Visible-light driven Si-Au micromotors in water and organic solvents. <i>Nanoscale</i> , 2017, 9, 11434-11438.	2.8	53
69	Double Replication of Silica Colloidal Crystal Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42075-42083.	4.0	2
70	Atomically Thin Layers of Graphene and Hexagonal Boron Nitride Made by Solvent Exfoliation of Their Phosphoric Acid Intercalation Compounds. <i>ACS Nano</i> , 2017, 11, 6746-6754.	7.3	35
71	Emergent Noncentrosymmetry and Piezoelectricity Driven by Oxygen Octahedral Rotations in <i>ABX<sub>3</sub></i> = 2 Dion-Jacobson Phase Layer Perovskites. <i>Advanced Functional Materials</i> , 2016, 26, 1930-1937.	7.8	33
72	Distinct photoluminescence and Raman spectroscopy signatures for identifying highly crystalline WS <sub>2</sub> monolayers produced by different growth methods. <i>Journal of Materials Research</i> , 2016, 31, 931-944.	1.2	95

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73	Improper Inversion Symmetry Breaking and Piezoelectricity through Oxygen Octahedral Rotations in Layered Perovskite Family, $\text{LiR}_2\text{TiO}_4$ ( $\text{R} = \text{Rare Earths}$ ). <i>Advanced Electronic Materials</i> , 2016, 2, 1500196.	2.6	28
74	Controlled Exfoliation of $\text{MoS}_2$ Crystals into Trilayer Nanosheets. <i>Journal of the American Chemical Society</i> , 2016, 138, 5143-5149.	6.6	207
75	Atomic and Electronic Structures of $\text{WTe}_2$ Probed by High Resolution Electron Microscopy and ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8364-8369.	1.5	37
76	Flat-Band Potentials of Molecularly Thin Metal Oxide Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11539-11547.	4.0	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. <i>Chemistry Education Research and Practice</i> , 2016, 17, 1174-1189.	1.4	16
78	Dynamics of Electron Injection in $\text{SnO}_2/\text{TiO}_2$ Core/Shell Electrodes for Water-Splitting Dye-Sensitized Photoelectrochemical Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2930-2934.	2.1	56
79	Electrolysis of $\text{CO}_2$ to Syngas in Bipolar Membrane-Based Electrochemical Cells. <i>ACS Energy Letters</i> , 2016, 1, 1149-1153.	8.8	235
80	Proton-Induced Trap States, Injection and Recombination Dynamics in Water-Splitting Dye-Sensitized Photoelectrochemical Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16727-16735.	4.0	35
81	Planar Light Concentration in Micro-Si Solar Cells Enabled by a Metallic Grating "Photonic Crystal Architecture. <i>ACS Photonics</i> , 2016, 3, 604-610.	3.2	23
82	Density and Shape Effects in the Acoustic Propulsion of Bimetallic Nanorod Motors. <i>ACS Nano</i> , 2016, 10, 4763-4769.	7.3	112
83	Catalytically driven assembly of trisegmented metallic nanorods and polystyrene tracer particles. <i>Soft Matter</i> , 2016, 12, 2501-2504.	1.2	22
84	Themed issue on water splitting and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2764-2765.	5.2	14
85	Ultrafast Electron Injection Dynamics of Photoanodes for Water-Splitting Dye-Sensitized Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5940-5948.	1.5	48
86	Buffer layer between a planar optical concentrator and a solar cell. <i>AIP Advances</i> , 2015, 5, .	0.6	19
87	A New Synthetic Route to Microporous Silica with Well-Defined Pores by Replication of a Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2015, 21, 12148-12152.	1.7	9
88	From One to Many: Dynamic Assembly and Collective Behavior of Self-Propelled Colloidal Motors. <i>Accounts of Chemical Research</i> , 2015, 48, 1938-1946.	7.6	267
89	Dynamics of Electron Recombination and Transport in Water-Splitting Dye-Sensitized Photoanodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13858-13867.	1.5	47
90	Hydrothermal Growth and Photoelectrochemistry of Highly Oriented, Crystalline Anatase $\text{TiO}_2$ Nanorods on Transparent Conducting Electrodes. <i>Chemistry of Materials</i> , 2015, 27, 4180-4183.	3.2	73

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91	Gate-modulated conductance of few-layer WSe <sub>2</sub> field-effect transistors in the subgap regime: Schottky barrier transistor and subgap impurity states. <i>Applied Physics Letters</i> , 2015, 106, 152104.	1.5	29
92	Charge Transfer Stabilization of Late Transition Metal Oxide Nanoparticles on a Layered Niobate Support. <i>Journal of the American Chemical Society</i> , 2015, 137, 16216-16224.	6.6	60
93	Surface Superconductivity in Thin Cylindrical Bi Nanowire. <i>Nano Letters</i> , 2015, 15, 1487-1492.	4.5	32
94	Metal-free organic sensitizers for use in water-splitting dye-sensitized photoelectrochemical cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1681-1686.	3.3	133
95	A tale of two forces: simultaneous chemical and acoustic propulsion of bimetallic micromotors. <i>Chemical Communications</i> , 2015, 51, 1020-1023.	2.2	110
96	Synthetic Nano- and Micromachines in Analytical Chemistry: Sensing, Migration, Capture, Delivery, and Separation. <i>Annual Review of Analytical Chemistry</i> , 2015, 8, 311-333.	2.8	134
97	Understanding the Effect of Monomeric Iridium(III/IV) Aquo Complexes on the Photoelectrochemistry of IrO <sub>x</sub> -catalyzed Water-Splitting Systems. <i>Journal of the American Chemical Society</i> , 2015, 137, 8749-8757.	6.6	41
98	Tungsten Ditelluride: a layered semimetal. <i>Scientific Reports</i> , 2015, 5, 10013.	1.6	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. <i>Journal of Nanophotonics</i> , 2015, 9, 093593.	0.4	25
100	Optimization of a spectrum splitter using differential evolution algorithm for solar cell applications. <i>Journal of Photonics for Energy</i> , 2015, 5, 055099.	0.8	3
101	Fast and Efficient Preparation of Exfoliated 2H MoS <sub>2</sub> Nanosheets by Sonication-Assisted Lithium Intercalation and Infrared Laser-Induced 1T to 2H Phase Reversion. <i>Nano Letters</i> , 2015, 15, 5956-5960.	4.5	603
102	Transition Metal Dichalcogenides and Beyond: Synthesis, Properties, and Applications of Single- and Few-Layer Nanosheets. <i>Accounts of Chemical Research</i> , 2015, 48, 56-64.	7.6	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 HCa <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> and Ca <sub>4</sub> Nb <sub>6</sub> O <sub>19</sub> . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4576-4580.	3.8	10
106	Self-powered enzyme micropumps. <i>Nature Chemistry</i> , 2014, 6, 415-422.	6.6	228
107	Acoustic Propulsion of Nanorod Motors Inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3201-3204.	7.2	281
108	Electrochemical Characterization of Liquid Phase Exfoliated Two-Dimensional Layers of Molybdenum Disulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2125-2130.	4.0	121

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109	Self-Assembly of Nanorod Motors into Geometrically Regular Multimers and Their Propulsion by Ultrasound. <i>ACS Nano</i> , 2014, 8, 11053-11060.	7.3	101
110	Synthesis, Exfoliation, and Electronic/Protonic Conductivity of the Dionâ€“Jacobson Phase Layer Perovskite $\text{HLa}_{2}\text{TiTa}_{2}\text{O}_{10}$ . <i>Chemistry of Materials</i> , 2014, 26, 898-906.	3.2	40
111	Non-oxidative intercalation and exfoliation of graphite by BrÃnsted acids. <i>Nature Chemistry</i> , 2014, 6, 957-963.	6.6	175
112	Excited Excitonic States in 1L, 2L, 3L, and Bulk $\text{WSe}_{2}$ Observed by Resonant Raman Spectroscopy. <i>ACS Nano</i> , 2014, 8, 9629-9635.	7.3	207
113	Photovoltage Effects of Sintered $\text{IrO}_{2}$ Nanoparticle Catalysts in Water-Splitting Dye-Sensitized Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17046-17053.	1.5	43
114	Kilohertz Rotation of Nanorods Propelled by Ultrasound, Traced by Microvortex Advection of Nanoparticles. <i>ACS Nano</i> , 2014, 8, 8300-8309.	7.3	81
115	Assessing the Utility of Bipolar Membranes for use in Photoelectrochemical Waterâ€“Splitting Cells. <i>ChemSusChem</i> , 2014, 7, 3017-3020.	3.6	104
116	Effects of Electron Trapping and Protonation on the Efficiency of Water-Splitting Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 10974-10982.	6.6	79
117	Interfacial Bonding Stabilizes Rhodium and Rhodium Oxide Nanoparticles on Layered Nb Oxide and Ta Oxide Supports. <i>Journal of the American Chemical Society</i> , 2014, 136, 5687-5696.	6.6	56
118	New First Order Raman-active Modes in Few Layered Transition Metal Dichalcogenides. <i>Scientific Reports</i> , 2014, 4, 4215.	1.6	367
119	Small power: Autonomous nano- and micromotors propelled by self-generated gradients. <i>Nano Today</i> , 2013, 8, 531-554.	6.2	586
120	Microporous Brookite-Phase Titania Made by Replication of a Metalâ€“Organic Framework. <i>Journal of the American Chemical Society</i> , 2013, 135, 16276-16279.	6.6	98
121	Steering Acoustically Propelled Nanowire Motors toward Cells in a Biologically Compatible Environment Using Magnetic Fields. <i>Langmuir</i> , 2013, 29, 16113-16118.	1.6	107
122	Understanding the Efficiency of Autonomous Nano- and Microscale Motors. <i>Journal of the American Chemical Society</i> , 2013, 135, 10557-10565.	6.6	230
123	Organophosphates as Solvents for Electrolytes in Electrochemical Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 13029-13034.	4.0	16
124	Divide and conquer. <i>Nature Chemistry</i> , 2013, 5, 362-363.	6.6	335
125	Reversible Intercalation of Hexagonal Boron Nitride with BrÃnsted Acids. <i>Journal of the American Chemical Society</i> , 2013, 135, 8372-8381.	6.6	88
126	Wafer-Scale Fabrication of Plasmonic Crystals from Patterned Silicon Templates Prepared by Nanosphere Lithography. <i>Nano Letters</i> , 2013, 13, 2623-2627.	4.5	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.	7.3	49
128	Controlled Synthesis and Transfer of Large-Area WS <sub>2</sub> Sheets: From Single Layer to Few Layers. ACS Nano, 2013, 7, 5235-5242.	7.3	534
129	Tunable Nanowire Patterning Using Standing Surface Acoustic Waves. ACS Nano, 2013, 7, 3306-3314.	7.3	142
130	Design and development of photoanodes for water-splitting dye-sensitized photoelectrochemical cells. Chemical Society Reviews, 2013, 42, 2357-2387.	18.7	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.	0.9	36
132	An atomic layer deposition reactor with dose quantification for precursor adsorption and reactivity studies. Review of Scientific Instruments, 2013, 84, 014102.	0.6	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.	3.3	166
134	Periodically multilayered planar optical concentrator for photovoltaic solar cells. Applied Physics Letters, 2013, 103, .	1.5	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.	0.9	33
137	Molecules meet materials. Nature, 2012, 485, 450-451.	13.7	5
138	Resistance and polarization losses in aqueous bufferâ€‘membrane electrolytes for water-splitting photoelectrochemical cells. Energy and Environmental Science, 2012, 5, 7582.	15.6	188
139	Electron transfer kinetics in water splitting dye-sensitized solar cells based on coreâ€‘shell oxide electrodes. Faraday Discussions, 2012, 155, 165-176.	1.6	62
140	Dense layers of vertically oriented WO <sub>3</sub> crystals as anodes for photoelectrochemical water oxidation. Chemical Communications, 2012, 48, 729-731.	2.2	106
141	Synthesis of New Polyelectrolytes via Backbone Quaternization of Poly(aryloxy- and Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182	2.2	15
142	Autonomous Motion of Metallic Microrods Propelled by Ultrasound. ACS Nano, 2012, 6, 6122-6132.	7.3	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.	3.3	280
144	A Facile and Template-Free Hydrothermal Synthesis of Mn <sub>3</sub> O <sub>4</sub> Nanorods on Graphene Sheets for Supercapacitor Electrodes with Long Cycle Stability. Chemistry of Materials, 2012, 24, 1158-1164.	3.2	728

#	ARTICLE	IF	CITATIONS
145	Rapid Charge Transport in Dye-Sensitized Solar Cells Made from Vertically Aligned Single-Crystal Rutile TiO <sub>2</sub> Nanowires. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2727-2730.	7.2	244
146	Utilization of Direct and Diffuse Sunlight in a Dye-Sensitized Solar Cell " Silicon Photovoltaic Hybrid Concentrator System. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 581-585.	2.1	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. <i>Nanoscale</i> , 2011, 3, 1541.	2.8	20
148	Facile Solvothermal Method for Fabricating Arrays of Vertically Oriented $\text{Fe}_2\text{O}_3$ Nanowires and Their Application in Photoelectrochemical Water Oxidation. <i>Energy &amp; Fuels</i> , 2011, 25, 5257-5263.	2.5	78
149	Template Electrodeposition of Single-Phase p- and n-Type Copper Indium Diselenide (CuInSe <sub>2</sub> ) Nanowire Arrays. <i>ACS Nano</i> , 2011, 5, 3237-3241.	7.3	44
150	A High Yield Synthesis of Ligand-Free Iridium Oxide Nanoparticles with High Electrocatalytic Activity. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 402-406.	2.1	282
151	A porphyrin-stabilized iridium oxide water oxidation catalyst. <i>Canadian Journal of Chemistry</i> , 2011, 89, 152-157.	0.6	18
152	Enhanced Diffusion due to Active Swimmers at a Solid Surface. <i>Physical Review Letters</i> , 2011, 106, 048102.	2.9	178
153	Orientation of Diamagnetic Layered Transition Metal Oxide Particles in 1-Tesla Magnetic Fields. <i>Journal of the American Chemical Society</i> , 2011, 133, 1824-1831.	6.6	15
154	Anodic Deposition of Colloidal Iridium Oxide Thin Films from Hexahydroxyiridate(IV) Solutions. <i>Small</i> , 2011, 7, 2087-2093.	5.2	115
155	Electrolyte infiltration in phosphazene-based dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 5223-5230.	4.0	25
156	Antiproximity effect in aluminum nanowires with no applied magnetic field. <i>Physical Review B</i> , 2011, 83, .	1.1	15
157	Interplay between superconductivity and ferromagnetism in crystalline nanowires. <i>Nature Physics</i> , 2010, 6, 389-394.	6.5	194
158	Enhanced conversion efficiencies for pillar array solar cells fabricated from crystalline silicon with short minority carrier diffusion lengths. <i>Applied Physics Letters</i> , 2010, 96, 213503.	1.5	110
159	Radial junction silicon wire array solar cells fabricated by gold-catalyzed vapor-liquid-solid growth. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	82
160	Electrochemically Assisted Deposition as a New Route to Transparent Conductive Indium Tin Oxide Films. <i>Chemistry of Materials</i> , 2010, 22, 4939-4949.	3.2	12
161	Anionic Homopolymers Efficiently Target Zerovalent Iron Particles to Hydrophobic Contaminants in Sand Columns. <i>Environmental Science &amp; Technology</i> , 2010, 44, 9069-9074.	4.6	30
162	The Emerging Technology of Solar Fuels. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2738-2739.	2.1	48

#	ARTICLE	IF	CITATIONS
163	Substrate Catalysis Enhances Single-Enzyme Diffusion. <i>Journal of the American Chemical Society</i> , 2010, 132, 2110-2111.	6.6	193
164	Influence of Different Iodide Salts on the Performance of Dye-Sensitized Solar Cells Containing Phosphazene-Based Nonvolatile Electrolytes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15234-15242.	1.5	40
165	Schooling Behavior of Light-Powered Autonomous Micromotors in Water. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3308-3312.	7.2	424
166	Patterned Nanowires of Se and Corresponding Metal Chalcogenides from Patterned Amorphous Se Nanoparticles. <i>Small</i> , 2009, 5, 356-360.	5.2	9
167	Powering Nanorobots. <i>Scientific American</i> , 2009, 300, 72-77.	1.0	285
168	Comparison of two- and three-layer restacked Dionâ€“Jacobson phase niobate nanosheets as catalysts for photochemical hydrogen evolution. <i>Journal of Materials Chemistry</i> , 2009, 19, 4813.	6.7	116
169	Visible Light Water Splitting Using Dye-Sensitized Oxide Semiconductors. <i>Accounts of Chemical Research</i> , 2009, 42, 1966-1973.	7.6	957
170	Photoassisted Overall Water Splitting in a Visible Light-Absorbing Dye-Sensitized Photoelectrochemical Cell. <i>Journal of the American Chemical Society</i> , 2009, 131, 926-927.	6.6	841
171	Calcium Niobate Nanosheets Prepared by the Polymerized Complex Method as Catalytic Materials for Photochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2009, 21, 3611-3617.	3.2	89
172	Proximity-Induced Superconductivity in Nanowires: Minigap State and Differential Magnetoresistance Oscillations. <i>Physical Review Letters</i> , 2009, 102, 247003.	2.9	65
173	Chemistry at the Nano-Bio Interface. <i>Journal of the American Chemical Society</i> , 2009, 131, 7937-7939.	6.6	21
174	Ion-Exchangeable, Electronically Conducting Layered Perovskite Oxyfluorides. <i>Journal of the American Chemical Society</i> , 2009, 131, 9849-9855.	6.6	103
175	Superconductivity and Quantum Oscillations in Crystalline Bi Nanowire. <i>Nano Letters</i> , 2009, 9, 3196-3202.	4.5	76
176	Color Tuning of an Acidic Blue Dye by Intercalation into the Basic Interlayer Galleries of a Poly(allylamine)/Synthetic Fluoromica Nanocomposite. <i>Chemistry of Materials</i> , 2009, 21, 985-993.	3.2	10
177	Synthesis and Superconductivity of Electrochemically Grown Single-Crystal Aluminum Nanowires. <i>Chemistry of Materials</i> , 2009, 21, 5557-5559.	3.2	21
178	Using Adaptive Tools and Techniques To Teach a Class of Students Who Are Blind or Low-Vision. <i>Journal of Chemical Education</i> , 2009, 86, 587.	1.1	22
179	Synthesis and characterization of the multi-photon absorption and excited-state properties of a neat liquid 4-propyl 4- <sup>2</sup> -butyl diphenyl acetylene. <i>Journal of Materials Chemistry</i> , 2009, 19, 7525.	6.7	44
180	Gas sensing properties of single conducting polymer nanowires and the effect of temperature. <i>Nanotechnology</i> , 2009, 20, 434014.	1.3	43

#	ARTICLE	IF	CITATIONS
181	Dynamic Interactions between Fast Microscale Rotors. <i>Journal of the American Chemical Society</i> , 2009, 131, 9926-9927.	6.6	106
182	Photocatalytic Hydrogen Evolution from Hexaniobate Nanoscrolls and Calcium Niobate Nanosheets Sensitized by Ruthenium(II) Bipyridyl Complexes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7962-7969.	1.5	152
183	Whither nanomaterials?. <i>Nanotechnology</i> , 2009, 20, 430207-430207.	1.3	0
184	Direct Deposition of Trivalent Rhodium Hydroxide Nanoparticles onto a Semiconducting Layered Calcium Niobate for Photocatalytic Hydrogen Evolution. <i>Nano Letters</i> , 2008, 8, 794-799.	4.5	128
185	Effect of Twinning on the Photoluminescence and Photoelectrochemical Properties of Indium Phosphide Nanowires Grown on Silicon (111). <i>Nano Letters</i> , 2008, 8, 4664-4669.	4.5	72
186	Morphology of Template-Grown Polyaniline Nanowires and Its Effect on the Electrochemical Capacitance of Nanowire Arrays. <i>Chemistry of Materials</i> , 2008, 20, 5260-5265.	3.2	175
187	Electrical Transport and Chemical Sensing Properties of Individual Conducting Polymer Nanowires. <i>Nano Letters</i> , 2008, 8, 4653-4658.	4.5	86
188	Photoluminescence of Perovskite Nanosheets Prepared by Exfoliation of Layered Oxides, $K_2Ln_2Ti_3O_{10}$ , $KLnNb_2O_7$ , and $RbLnTa_2O_7$ (Ln: Lanthanide Ion). <i>Journal of the American Chemical Society</i> , 2008, 130, 7052-7059.	6.6	214
189	Soft Chemical Conversion of Layered Double Hydroxides to Superparamagnetic Spinel Platelets. <i>Chemistry of Materials</i> , 2008, 20, 2374-2381.	3.2	71
190	Niobium Oxide Nanoscrolls as Building Blocks for Dye-Sensitized Hydrogen Production from Water under Visible Light Irradiation. <i>Chemistry of Materials</i> , 2008, 20, 6770-6778.	3.2	173
191	Carbothermal Synthesis of Carbon-supported Nanoscale Zero-valent Iron Particles for the Remediation of Hexavalent Chromium. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2600-2605.	4.6	335
192	Potassium niobate nanoscrolls incorporating rhodium hydroxide nanoparticles for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry</i> , 2008, 18, 5982.	6.7	49
193	Coupling of Titania Inverse Opals to Nanocrystalline Titania Layers in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14415-14421.	1.2	187
194	Anisotropic Alignment of Lamellar Potassium Hexaniobate Microcrystals and Nanoscrolls in a Static Magnetic Field. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11280-11285.	1.5	25
195	Nano-Dispersed Organic Liquid and Liquid Crystals for All-Time-Scales Optical Switching and Tunable Negative-and Zero- Index Materials. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 485, 934-944.	0.4	18
196	Low-Cost Laboratory Adaptations for Precollege Students Who Are Blind or Visually Impaired. <i>Journal of Chemical Education</i> , 2008, 85, 243.	1.1	53
197	Proton-Conducting Films of Nanoscale Ribbons Formed by Exfoliation of the Layer Perovskite $H_2SrTa_2O_7$ . <i>Chemistry of Materials</i> , 2008, 20, 213-219.	3.2	21
198	Lithographically Fabricated 10-Micron Scale Autonomous Motors. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1135, 30901.	0.1	0

#	ARTICLE	IF	CITATIONS
199	Investigation of superconductivity in electrochemically fabricated AuSn nanowires. <i>Nanotechnology</i> , 2008, 19, 365704.	1.3	5
200	Nonlinear liquid crystal Nano-metamaterials. , 2008, , .		1
201	Evidence of local superconductivity in granular Bi nanowires fabricated by electrodeposition. <i>Physical Review B</i> , 2008, 78, .	1.1	22
202	NONLINEAR AND ELECTRO-OPTICS OF NANO-DISPERSED NEMATIC LIQUID CRYSTALS WITH TUNABLE NEGATIVE-, ZERO-, AND POSITIVE INDICES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2007, 16, 381-399.	1.1	5
203	Nanosecond-cw visible-IR all-optical switching and nonlinear transmission with nonlinear organic optical liquids and liquid crystals. , 2007, , .		0
204	Tunable refractive index materials with metallic nano-spheres dispersed in organic liquids. <i>Proceedings of SPIE</i> , 2007, , .	0.8	3
205	pH-Dependent Intercalation of Gold Nanoparticles into a Synthetic Fluoromica Modified with Poly(Allylamine). <i>Chemistry of Materials</i> , 2007, 19, 6588-6596.	3.2	19
206	Optimization of Nano- and Microiron Transport through Sand Columns Using Polyelectrolyte Mixtures. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6418-6424.	4.6	159
207	Scrolled Sheet Precursor Route to Niobium and Tantalum Oxide Nanotubes. <i>Nano Letters</i> , 2007, 7, 2142-2145.	4.5	116
208	Encapsulation of Anionic Dye Molecules by a Swelling Fluoromica through Intercalation of Cationic Polyelectrolytes. <i>Chemistry of Materials</i> , 2007, 19, 79-87.	3.2	42
209	Autonomously Moving Local Nanoprobes in Heterogeneous Magnetic Fields. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3607-3613.	1.5	39
210	Bidentate Dicarboxylate Capping Groups and Photosensitizers Control the Size of IrO <sub>2</sub> Nanoparticle Catalysts for Water Oxidation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6845-6856.	1.2	154
211	Structural Effects in the Protonic/Electronic Conductivity of Dion-Jacobson Phase Niobate and Tantalate Layered Perovskites. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3185-3191.	1.5	35
212	Hydrazine Fuels for Bimetallic Catalytic Microfluidic Pumping. <i>Journal of the American Chemical Society</i> , 2007, 129, 7762-7763.	6.6	99
213	Removal of Perchnetate from Simulated Nuclear Waste Streams Using Supported Zerovalent Iron. <i>Chemistry of Materials</i> , 2007, 19, 5703-5713.	3.2	110
214	Developing Catalytic Nanomotors. , 2007, , 23-37.		4
215	Tunability of the Refractive Index of Gold Nanoparticle Dispersions. <i>Nano Letters</i> , 2007, 7, 3418-3423.	4.5	146
216	Intercalation of Well-Dispersed Gold Nanoparticles into Layered Oxide Nanosheets through Intercalation of a Polyamine. <i>Journal of the American Chemical Society</i> , 2007, 129, 3064-3065.	6.6	55

#	ARTICLE	IF	CITATIONS
217	Dielectrophoretically assembled polymer nanowires for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 55-59.	4.0	70
218	Silicon Nanowire Array Photoelectrochemical Cells. <i>Journal of the American Chemical Society</i> , 2007, 129, 12344-12345.	6.6	215
219	Bipolar Electrochemical Mechanism for the Propulsion of Catalytic Nanomotors in Hydrogen Peroxide Solutions. <i>Langmuir</i> , 2006, 22, 10451-10456.	1.6	461
220	An Environmentally Focused General Chemistry Laboratory. <i>Journal of Chemical Education</i> , 2006, 83, 250.	1.1	7
221	Photorefractive CdSe and Gold Nanowire-Doped Liquid Crystals and Polymer-Dispersed-Liquid-Crystal Photonic Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 446, 233-244.	0.4	34
222	Template-Grown Metal Nanowires. <i>Inorganic Chemistry</i> , 2006, 45, 7555-7565.	1.9	194
223	Autonomously Moving Nanorods at a Viscous Interface. <i>Nano Letters</i> , 2006, 6, 66-72.	4.5	154
224	Anodic Electrodeposition of Highly Oriented Zirconium Phosphate and Polyaniline-Intercalated Zirconium Phosphate Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 16634-16640.	6.6	69
225	Catalytically Induced Electrokinetics for Motors and Micropumps. <i>Journal of the American Chemical Society</i> , 2006, 128, 14881-14888.	6.6	384
226	Observation of Superconductivity in Granular Bi Nanowires Fabricated by Electrodeposition. <i>Nano Letters</i> , 2006, 6, 2773-2780.	4.5	79
227	Directed-Sorting Method for Synthesis of Bead-Based Combinatorial Libraries of Heterogeneous Catalysts. <i>ACS Combinatorial Science</i> , 2006, 8, 199-212.	3.3	11
228	Catalytically Driven Colloidal Patterning and Transport. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24513-24521.	1.2	56
229	Fabrication of TiO <sub>2</sub> -Organic Hybrid Dot Arrays Using Nanosecond Laser Interference Lithography. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3507-3510.	1.9	16
230	Chemical Locomotion. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5420-5429.	7.2	524
231	The Design and Control of Catalytic Motors: Manipulating Colloids and Fluids with Self-Generated Forces. <i>Materials Research Society Symposia Proceedings</i> , 2006, 944, 1.	0.1	0
232	A Scrolled Sheet Precursor Route to Niobium Oxide Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2006, 988, 1.	0.1	3
233	Interlayer Charge Conversion Through Intercalation of Polycations into a Synthetic Swelling Mica. <i>Materials Research Society Symposia Proceedings</i> , 2006, 988, 1.	0.1	1
234	Structural analysis and characterization of layer perovskite oxynitrides made from Dionâ€™Jacobson oxide precursors. <i>Journal of Solid State Chemistry</i> , 2005, 178, 2313-2321.	1.4	59

#	ARTICLE	IF	CITATIONS
235	Combined experimental and theoretical DFT study of molecular nanowires negative differential resistance and interaction with gold clusters. <i>European Physical Journal E</i> , 2005, 18, 201-206.	0.7	21
236	Catalytic Nanomotors: Remote-Controlled Autonomous Movement of Striped Metallic Nanorods. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 744-746.	7.2	432
237	Nanowire p-n Heterojunction Diodes Made by Templated Assembly of Multilayer Carbon-Nanotube/Polymer/Semiconductor-Particle Shells around Metal Nanowires. <i>Advanced Materials</i> , 2005, 17, 187-192.	11.1	82
238	Motility of Catalytic Nanoparticles through Self-Generated Forces. <i>Chemistry - A European Journal</i> , 2005, 11, 6462-6470.	1.7	395
239	Light-to-Chemical Energy Conversion in Lamellar Solids and Thin Films. <i>ChemInform</i> , 2005, 36, no.	0.1	0
240	Comparison of High-Throughput Electrochemical Methods for Testing Direct Methanol Fuel Cell Anode Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2005, 152, A594.	1.3	52
241	Dissipation in quasi-one-dimensional superconducting single-crystal Sn nanowires. <i>Physical Review B</i> , 2005, 71, .	1.1	172
242	Penetrating the Oxide Barrier in Situ and Separating Freestanding Porous Anodic Alumina Films in One Step. <i>Nano Letters</i> , 2005, 5, 697-703.	4.5	128
243	Catalytic Micropumps: A Microscopic Convective Fluid Flow and Pattern Formation. <i>Journal of the American Chemical Society</i> , 2005, 127, 17150-17151.	6.6	150
244	Ultrathin Anisotropic Films Assembled from Individual Single-Walled Carbon Nanotubes and Amine Polymers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2540-2545.	1.2	62
245	Increasing the Conversion Efficiency of Dye-Sensitized TiO <sub>2</sub> Photoelectrochemical Cells by Coupling to Photonic Crystals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6334-6342.	1.2	279
246	Optical properties of coupled metallic nanorods for field-enhanced spectroscopy. <i>Physical Review B</i> , 2005, 71, .	1.1	534
247	Light-to-Chemical Energy Conversion in Lamellar Solids and Thin Films. <i>Inorganic Chemistry</i> , 2005, 44, 6828-6840.	1.9	133
248	Controllable Template Synthesis of Superconducting Zn Nanowires with Different Microstructures by Electrochemical Deposition. <i>Nano Letters</i> , 2005, 5, 1247-1253.	4.5	149
249	Template Synthesis and Assembly of Metal Nanowires for Electronic Applications. , 2005, , 413-435.		0
250	Metallic contacts with individual Ru nanowires prepared by electrochemical deposition and the suppression of superconductivity in ultrasmall Ru grains. <i>Applied Physics Letters</i> , 2004, 84, 5171-5173.	1.5	12
251	EIS Studies of Porous Oxygen Electrodes with Discrete Particles [J. Electrochem. Soc., 150, E423 (2003)]. <i>Journal of the Electrochemical Society</i> , 2004, 151, L1.	1.3	4
252	Electrical and Spectroscopic Characterization of Molecular Junctions. <i>MRS Bulletin</i> , 2004, 29, 396-402.	1.7	23

#	ARTICLE	IF	CITATIONS
253	Catalytic Nanomotors: Autonomous Movement of Striped Nanorods.. ChemInform, 2004, 35, no.	0.1	2
254	Synthesis of an amide cyclophane building block of shape-persistent triangular molecular wedges. Tetrahedron Letters, 2004, 45, 1151-1153.	0.7	2
255	Dielectrophoretic assembly and integration of nanowire devices with functional CMOS operating circuitry. Microelectronic Engineering, 2004, 75, 31-42.	1.1	100
256	Coaxially Gated In-Wire Thin-Film Transistors Made by Template Assembly. Journal of the American Chemical Society, 2004, 126, 12738-12739.	6.6	72
257	Catalytic Nanomotors: Autonomous Movement of Striped Nanorods. Journal of the American Chemical Society, 2004, 126, 13424-13431.	6.6	1,805
258	Kinetics of Electron Transfer and Oxygen Evolution in the Reaction of [Ru(bpy) <sub>3</sub> ] <sup>3+</sup> with Colloidal Iridium Oxide. Journal of Physical Chemistry A, 2004, 108, 9115-9119.	1.1	145
259	Microtwinning in Template-Synthesized Single-Crystal Metal Nanowires. Journal of Physical Chemistry B, 2004, 108, 841-845.	1.2	130
260	Ordered SBA-15 Nanorod Arrays Inside a Porous Alumina Membrane. Journal of the American Chemical Society, 2004, 126, 8650-8651.	6.6	246
261	Microstructure and Interdiffusion of Template-Synthesized Au/Sn/Au Junction Nanowires. Nano Letters, 2004, 4, 1313-1318.	4.5	67
262	Delivery Vehicles for Zerovalent Metal Nanoparticles in Soil and Groundwater. Chemistry of Materials, 2004, 16, 2187-2193.	3.2	511
263	Template Fabrication of Protein-Functionalized Gold-Polypyrrole-Gold Segmented Nanowires. Chemistry of Materials, 2004, 16, 3431-3438.	3.2	104
264	Nanowire-Based Molecular Monolayer Junctions: Synthesis, Assembly, and Electrical Characterization. Journal of Physical Chemistry B, 2004, 108, 2827-2832.	1.2	134
265	Individual Single-Walled Nanotubes and Hydrogels Made by Oxidative Exfoliation of Carbon Nanotube Ropes. Journal of the American Chemical Society, 2003, 125, 9761-9769.	6.6	331
266	Synthesis, Chemical Modification, and Surface Assembly of Carbon Nanowires. Advanced Functional Materials, 2003, 13, 365-370.	7.8	16
267	Templated Surface Sol-Gel Synthesis of SiO <sub>2</sub> Nanotubes and SiO <sub>2</sub> -Insulated Metal Nanowires. Advanced Materials, 2003, 15, 780-785.	11.1	231
268	Standing Wave Enhancement of Red Absorbance and Photocurrent in Dye-Sensitized Titanium Dioxide Photoelectrodes Coupled to Photonic Crystals. Journal of the American Chemical Society, 2003, 125, 6306-6310.	6.6	564
269	NanoCell Electronic Memories. Journal of the American Chemical Society, 2003, 125, 13279-13283.	6.6	100
270	Electrochemical Growth of Single-Crystal Metal Nanowires via a Two-Dimensional Nucleation and Growth Mechanism. Nano Letters, 2003, 3, 919-923.	4.5	362



#	ARTICLE	IF	CITATIONS
271	Synthesis and characterization of superconducting single-crystal Sn nanowires. Applied Physics Letters, 2003, 83, 1620-1622.	1.5	120
272	Using nanoporous carbon membranes in fuel cells. Materials Research Society Symposia Proceedings, 2003, 801, 181.	0.1	0
273	EIS Studies of Porous Oxygen Electrodes with Discrete Particles. Journal of the Electrochemical Society, 2003, 150, E423.	1.3	77
274	EIS Studies of Porous Oxygen Electrodes with Discrete Particles. Journal of the Electrochemical Society, 2003, 150, E429.	1.3	22
275	Chemical and Biomolecular Interactions in the Assembly of Nanowires. , 2003, , 235-254.		1
276	Fabrication technique for filling-factor tunable titanium dioxide colloidal crystal replicas. Applied Physics Letters, 2002, 81, 4532-4534.	1.5	49
277	Development of Supported Bifunctional Electrocatalysts for Unitized Regenerative Fuel Cells. Journal of the Electrochemical Society, 2002, 149, A1092.	1.3	295
278	Enhanced Photocatalytic Reduction of Methyl Viologen by Self-Assembling Ruthenium(II)Poly(Pyridyl) Complexes with L-Lysine Containing Side Chains. Journal of Physical Chemistry B, 2002, 106, 4227-4231.	1.2	27
279	Na <sub>2</sub> Ln <sub>2</sub> Ti <sub>3-x</sub> Mn <sub>x</sub> O <sub>10</sub> (Ln = Sm, Eu, Gd, and Dy; 0 ≤ x ≤ 1): A New Series of Ion-Exchangeable Layered Perovskites Containing B-Site Manganese. Chemistry of Materials, 2002, 14, 442-448.	3.2	9
280	Split-Pool Method for Synthesis of Solid-State Material Combinatorial Libraries. ACS Combinatorial Science, 2002, 4, 569-575.	3.3	36
281	A High-Throughput Optical Screening Method for the Optimization of Colloidal Water Oxidation Catalysts. Journal of the American Chemical Society, 2002, 124, 11114-11121.	6.6	127
282	Template Synthesis of Metal Nanowires Containing Monolayer Molecular Junctions. Journal of the American Chemical Society, 2002, 124, 4020-4026.	6.6	198
283	Perovskites by Design: A Toolbox of Solid-State Reactions. Chemistry of Materials, 2002, 14, 1455-1471.	3.2	625
284	Room temperature negative differential resistance in molecular nanowires. Journal of Materials Chemistry, 2002, 12, 2927-2930.	6.7	83
285	Hydrodechlorination of Trichloroethylene to Hydrocarbons Using Bimetallic Nickel-Iron Nanoparticles. Chemistry of Materials, 2002, 14, 5140-5147.	3.2	526
286	Self-assembly of three-dimensional photonic-crystals with air-core line defects. Journal of Materials Chemistry, 2002, 12, 3637-3639.	6.7	58
287	Photosensitized production of doubly reduced methylviologen followed by highly efficient methylviologen radical formation using self-assembling ruthenium(ii) complexes. Chemical Communications, 2002, , 1534-1535.	2.2	13
288	Preparation and synthesis of Ag <sub>2</sub> Se nanowires produced by template directed synthesis. Journal of Materials Chemistry, 2002, 12, 2433-2434.	6.7	33

#	ARTICLE	IF	CITATIONS
289	Exfoliation of layered rutile and perovskite tungstates. <i>Chemical Communications</i> , 2002, , 706-707.	2.2	99
290	Template Growth of Photoconductive Metal <sup>II</sup> CdSe <sup>II</sup> Metal Nanowires. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7458-7462.	1.2	179
291	Nanowires as Building Blocks for Self-Assembling Logic and Memory Circuits. <i>Chemistry - A European Journal</i> , 2002, 8, 4354-4363.	1.7	302
292	Interactions Between Suspended Nanowires and Patterned Surfaces. <i>Advanced Functional Materials</i> , 2002, 12, 759-765.	7.8	44
293	Layer-by-layer self-assembly strategy for template synthesis of nanoscale devices. <i>Materials Science and Engineering C</i> , 2002, 19, 255-262.	3.8	82
294	Surface Chemistry and Electrochemistry of Supported Zerovalent Iron Nanoparticles in the Remediation of Aqueous Metal Contaminants. <i>Chemistry of Materials</i> , 2001, 13, 479-486.	3.2	252
295	Converting a layer perovskite into a non-defective higher-order homologue: topochemical synthesis of Eu <sub>2</sub> CaTi <sub>2</sub> O <sub>7</sub> . <i>Chemical Communications</i> , 2001, , 853-854.	2.2	20
296	Modular Synthesis of $\pi$ -Acceptor Cyclophanes Derived from 1,4,5,8-Naphthalenetetracarboxylic Diimide and 1,5-Dinitronaphthalene. <i>Journal of Organic Chemistry</i> , 2001, 66, 3027-3034.	1.7	29
297	Layer-by-Layer Assembly of Rectifying Junctions in and on Metal Nanowires. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8762-8769.	1.2	144
298	Combinatorial Discovery of Alloy Electrocatalysts for Amperometric Glucose Sensors. <i>Analytical Chemistry</i> , 2001, 73, 1599-1604.	3.2	294
299	Continuous-Flow Process for the Separation of Cesium from Complex Waste Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 3384-3389.	1.8	2
300	Photocatalytic Oxidation of Water by Silica-Supported Tris(4,4'-dialkyl-2,2'-bipyridyl)ruthenium Polymeric Sensitizers and Colloidal Iridium Oxide. <i>Chemistry of Materials</i> , 2001, 13, 4668-4675.	3.2	91
301	DNA-Directed Assembly of Anisotropic Nanoparticles on Lithographically Defined Surfaces and in Solution. <i>Materials Research Society Symposia Proceedings</i> , 2001, 635, C6.2.1.	0.1	13
302	Electrofluidic Assembly of Nanoelectromechanical Systems. <i>Materials Research Society Symposia Proceedings</i> , 2001, 687, 1.	0.1	1
303	Combinatorial discovery of bifunctional oxygen reduction $\&#x201c$ water oxidation electrocatalysts for regenerative fuel cells. <i>Catalysis Today</i> , 2001, 67, 341-355.	2.2	203
304	KLnTiO <sub>4</sub> (Ln=La, Nd, Sm, Eu, Gd, Dy): A New Series of Ruddlesden $\&#x201c$ Popper Phases Synthesized by Ion-Exchange of HLnTiO <sub>4</sub> . <i>Journal of Solid State Chemistry</i> , 2001, 161, 225-232.	1.4	50
305	DNA-Directed Assembly of Gold Nanowires on Complementary Surfaces. <i>Advanced Materials</i> , 2001, 13, 249-254.	11.1	297
306	Nonlinear liquid crystals in periodic structures. , 2001, , .		1

#	ARTICLE	IF	CITATIONS
307	Fabrication of two-dimensional photonic crystals using interference lithography and electrodeposition of CdSe. <i>Applied Physics Letters</i> , 2001, 79, 3392-3394.	1.5	120
308	Direct fabrication of two-dimensional titania arrays using interference photolithography. <i>Applied Physics Letters</i> , 2001, 79, 3332-3334.	1.5	67
309	NANOMATERIALS: Stretching the Mold. <i>Science</i> , 2001, 291, 443-444.	6.0	13
310	Electrochemical Synthesis of Multi-Material Nanowires as Building Blocks for Functional Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2000, 636, 461.	0.1	16
311	Synthesis, Proton Exchange, and Topochemical Dehydration of New Ruddlesden-Popper Tantalates and Titanotantalates. <i>Journal of Solid State Chemistry</i> , 2000, 155, 46-54.	1.4	49
312	Nanoscale Metal Replicas of Colloidal Crystals. <i>Advanced Materials</i> , 2000, 12, 1040-1042.	11.1	59
313	Self-Assembled Diode Junctions Prepared from a Ruthenium Tris(Bipyridyl) Polymer, n-Type TiO <sub>2</sub> Nanoparticles, and Graphite Oxide Sheets. <i>Advanced Materials</i> , 2000, 12, 1363-1366.	11.1	67
314	Ultrathin nanoparticle ZnS and ZnS: Mn films: surface sol-gel synthesis, morphology, photophysical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 69-70, 411-417.	1.7	48
315	Nanoscale Tubules Formed by Exfoliation of Potassium Hexaniobate. <i>Chemistry of Materials</i> , 2000, 12, 1556-1562.	3.2	251
316	Photocatalytic Water Oxidation in a Buffered Tris(2,2'-bipyridyl)ruthenium Complex-Colloidal IrO <sub>2</sub> System. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5275-5280.	1.1	273
317	Self-assembly of Tiled Perovskite Monolayer and Multilayer Thin Films. <i>Chemistry of Materials</i> , 2000, 12, 2513-2516.	3.2	180
318	Remediation of Cr(VI) and Pb(II) Aqueous Solutions Using Supported, Nanoscale Zero-valent Iron. <i>Environmental Science &amp; Technology</i> , 2000, 34, 2564-2569.	4.6	1,097
319	Electric-field assisted assembly and alignment of metallic nanowires. <i>Applied Physics Letters</i> , 2000, 77, 1399-1401.	1.5	876
320	Prying Apart Ruddlesden-Popper Phases: Exfoliation into Sheets and Nanotubes for Assembly of Perovskite Thin Films. <i>Chemistry of Materials</i> , 2000, 12, 3427-3434.	3.2	270
321	Template synthesis of polymer-insulated colloidal gold nanowires with reactive ends. <i>Chemical Communications</i> , 2000, , 2445-2446.	2.2	49
322	Photocatalytic water oxidation by Nafion-stabilized iridium oxide colloids. <i>Chemical Communications</i> , 2000, , 1903-1904.	2.2	61
323	Surface Sol-Gel Synthesis of Ultrathin Semiconductor Films. <i>Chemistry of Materials</i> , 2000, 12, 383-389.	3.2	67
324	Topochemical Synthesis of Three-Dimensional Perovskites from Lamellar Precursors. <i>Journal of the American Chemical Society</i> , 2000, 122, 2798-2803.	6.6	89

#	ARTICLE	IF	CITATIONS
325	Optical and Electrical Characterizations of Ultrathin Films Self-Assembled from 11-Aminoundecanoic Acid Capped TiO <sub>2</sub> Nanoparticles and Polyallylamine Hydrochloride. <i>Langmuir</i> , 2000, 16, 241-246.	1.6	99
326	Artificial photosynthesis in lamellar assemblies of metal poly(pyridyl) complexes and metalloporphyrins. <i>Coordination Chemistry Reviews</i> , 1999, 185-186, 403-416.	9.5	28
327	Surface Sol-gel Synthesis of Ultrathin Titanium and Tantalum Oxide Films. <i>Journal of Nanoparticle Research</i> , 1999, 1, 43-49.	0.8	26
328	Orthogonal Self-Assembly on Colloidal Gold-Platinum Nanorods. <i>Advanced Materials</i> , 1999, 11, 1021-1025.	11.1	476
329	Ordered Mesoporous Polymers of Tunable Pore Size from Colloidal Silica Templates. <i>Science</i> , 1999, 283, 963-965.	6.0	617
330	Photoinduced Energy and Electron Transfer Reactions in Lamellar Polyanion/Polycation Thin Films: Toward an Inorganic Leaf. <i>Journal of the American Chemical Society</i> , 1999, 121, 3435-3445.	6.6	243
331	Dielectric Properties of the Lamellar Niobates and Titanoniobates AM <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> and ATiNbO <sub>5</sub> (A = H, K, M). <i>Journal of Applied Physics</i> , 1999, 85, 1519-1525.	3.2	93
332	Layer-by-Layer Growth and Condensation Reactions of Niobate and Titanoniobate Thin Films. <i>Chemistry of Materials</i> , 1999, 11, 1526-1532.	3.2	221
333	Recovery of Ammonium and Cesium Ions from Aqueous Waste Streams by Sodium Tetraphenylborate. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 4007-4010.	1.8	19
334	Layer-by-Layer Assembly of Ultrathin Composite Films from Micron-Sized Graphite Oxide Sheets and Polycations. <i>Chemistry of Materials</i> , 1999, 11, 771-778.	3.2	3,066
335	Ferragels: A New Family of Materials for Remediation of Aqueous Metal ion Solutions. <i>Materials Research Society Symposia Proceedings</i> , 1999, 556, 1269.	0.1	7
336	Orthogonal Self-Assembly on Colloidal Gold-Platinum Nanorods. <i>Advanced Materials</i> , 1999, 11, 1021.		2
337	A "Chimie Douce" Synthesis of Perovskite-Type SrTa <sub>2</sub> O <sub>6</sub> and SrTa <sub>2-x</sub> Nb <sub>x</sub> O <sub>6</sub> . <i>Chemistry of Materials</i> , 1998, 10, 2585-2587.	3.2	55
338	Structural and Electrochemical Characterization of Binary, Ternary, and Quaternary Platinum Alloy Catalysts for Methanol Electro-oxidation. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9997-10003.	1.2	395
339	Hydrothermal synthesis and crystal structures of two novel vanadium oxides containing interlamellar transition metal complexes. <i>Journal of Molecular Structure</i> , 1998, 470, 49-60.	1.8	24
340	Chiral Molecular Recognition in a Tripeptide Benzylviologen Cyclophane Host. <i>Journal of Organic Chemistry</i> , 1998, 63, 7663-7669.	1.7	53
341	Polymer mesofibres. <i>Journal of Materials Chemistry</i> , 1998, 8, 13-14.	6.7	59
342	Layer-by-Layer Assembly of Thin Film Zener Diodes from Conducting Polymers and CdSe Nanoparticles. <i>Journal of the American Chemical Society</i> , 1998, 120, 7848-7859.	6.6	277

#	ARTICLE	IF	CITATIONS
343	Self-assembled thin films from lamellar metal disulfides and organic polymers. <i>Chemical Communications</i> , 1998, , 1563-1564.	2.2	44
344	Host-Guest Chemistry of a Chiral Cyclohexanediamine-Viologen Cyclophane in Solution and in the Solid State. <i>Chemistry of Materials</i> , 1998, 10, 1937-1944.	3.2	16
345	Chemistry on the Edge: A Microscopic Analysis of the Intercalation, Exfoliation, Edge Functionalization, and Monolayer Surface Tiling Reactions of $\pm$ -Zirconium Phosphate. <i>Journal of the American Chemical Society</i> , 1998, 120, 10887-10894.	6.6	149
346	NSOM Investigations of the Spectroscopy and Morphology of Self-Assembled Multilayered Thin Films. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9451-9460.	1.2	62
347	Combinatorial Electrochemistry: A Highly Parallel, Optical Screening Method for Discovery of Better Electrocatalysts. <i>Science</i> , 1998, 280, 1735-1737.	6.0	919
348	Molecular Recognition in Lamellar Solids and Thin Films. <i>Accounts of Chemical Research</i> , 1998, 31, 209-217.	7.6	266
349	Photochemically Induced Charge Separation in Electrostatically Constructed Organic-Inorganic Multilayer Composites. <i>Advances in Chemistry Series</i> , 1998, , 359-379.	0.6	3
350	Combinatorial Screening of Anode and Cathode Electrocatalysts for Direct Methanol Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , 1998, 549, 231.	0.1	11
351	Nanometer-Scale Architecture Using Colloidal Gold. <i>ACS Symposium Series</i> , 1997, , 7-16.	0.5	5
352	A "Mix and Match" Ionic-Covalent Strategy for Self-Assembly of Inorganic Multilayer Films. <i>Journal of the American Chemical Society</i> , 1997, 119, 12184-12191.	6.6	166
353	Visible Light Photolysis of Hydrogen Iodide Using Sensitized Layered Metal Oxide Semiconductors: The Role of Surface Chemical Modification in Controlling Back Electron Transfer Reactions. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2508-2513.	1.2	129
354	Molecular Design of Intercalation-Based Sensors. 1. Ammonia Sensing with Quartz Crystal Microbalances Modified by Copper Biphenylbis(phosphonate) Thin Films. <i>Analytical Chemistry</i> , 1997, 69, 679-687.	3.2	56
355	Effect of Oxygen on Linked Ru(bpy) <sub>3</sub> <sup>2+</sup> -Viologen Species and Methylviologen: A Reinterpretation of the Electrogenerated Chemiluminescence. <i>Journal of the American Chemical Society</i> , 1997, 119, 10525-10531.	6.6	42
356	Photochemical Charge Transfer and Hydrogen Evolution Mediated by Oxide Semiconductor Particles in Zeolite-Based Molecular Assemblies. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2491-2500.	1.2	67
357	Characterization of Zirconium Phosphate/Polycation Thin Films Grown by Sequential Adsorption Reactions. <i>Chemistry of Materials</i> , 1997, 9, 1414-1421.	3.2	249
358	Effect of Micropore Topology on the Structure and Properties of Zeolite Polymer Replicas. <i>Chemistry of Materials</i> , 1997, 9, 2448-2458.	3.2	222
359	Editorial: Self-assembly and materials research. <i>Supramolecular Science</i> , 1997, 4, 1.	0.7	6
360	Crowns get organized. <i>Nature</i> , 1997, 387, 350-351.	13.7	23

#	ARTICLE	IF	CITATIONS
361	Molecular Design of Intercalation-Based Sensors. 2. Sensing of Carbon Dioxide in Functionalized Thin Films of Copper Octanediybis(phosphonate). <i>Analytical Chemistry</i> , 1997, 69, 688-694.	3.2	50
362	Modular Assembly of Surface Heterostructures from Inorganic Clusters and Polyelectrolytes. , 1997, , 41-51.		0
363	Electron Transfer in Self-Assembled Inorganic Polyelectrolyte/Metal Nanoparticle Heterostructures. <i>Journal of the American Chemical Society</i> , 1996, 118, 7640-7641.	6.6	328
364	Inter- and Intralayer Energy Transfer in Zirconium Phosphate <sup>2+</sup> Poly(allylamine hydrochloride) Multilayers: An Efficient Photon Antenna and a Spectroscopic Ruler for Self-Assembled Thin Films. <i>Journal of the American Chemical Society</i> , 1996, 118, 4222-4223.	6.6	146
365	Stabilization of Intrazeolitic Cadmium Telluride Nanoclusters by Ion Exchange. <i>Chemistry of Materials</i> , 1996, 8, 2121-2127.	3.2	40
366	Layer-by-layer assembly and intercalation reactions of iron(III) and iron(II) alkanebisphosphonates on gold surfaces. <i>Chemical Communications</i> , 1996, , 2591.	2.2	11
367	Assembly of thin Film Dielectrics by Sequential Adsorption Reactions of Unilamellar Inorganic Colloids. <i>Materials Research Society Symposia Proceedings</i> , 1996, 446, 377.	0.1	2
368	Combinatorial synthesis of modular chiral cyclophanes. <i>Tetrahedron Letters</i> , 1996, 37, 8313-8316.	0.7	21
369	A new chiral cyclophane derived from 1,1'-binaphthol and benzylviologen. <i>Tetrahedron Letters</i> , 1995, 36, 7599-7602.	0.7	8
370	Photoinduced Charge Separation in Multilayer Thin Films Grown by Sequential Adsorption of Polyelectrolytes. <i>Journal of the American Chemical Society</i> , 1995, 117, 12879-12880.	6.6	188
371	Preparative-Scale Separation of Enantiomers Using Intercalated .alpha.-Zirconium Phosphate. <i>Chemistry of Materials</i> , 1995, 7, 1968-1973.	3.2	44
372	Salt-Gel Synthesis of Porous Transition-Metal Oxides. <i>Chemistry of Materials</i> , 1995, 7, 304-313.	3.2	173
373	Shape-Selective Intercalation and Chemical Sensing in Metal Phosphonate Thin Films. <i>ACS Symposium Series</i> , 1994, , 60-70.	0.5	2
374	Growth of lamellar Hofmann clathrate films by sequential ligand exchange reactions: assembling a coordination solid one layer at a time. <i>Journal of the American Chemical Society</i> , 1994, 116, 8374-8375.	6.6	81
375	Layer-by-Layer Assembly of Intercalation Compounds and Heterostructures on Surfaces: Toward Molecular "Beaker" Epitaxy. <i>Journal of the American Chemical Society</i> , 1994, 116, 8817-8818.	6.6	573
376	Photoinduced Electron Transfer Reactions in Zeolite-Based Donor-Acceptor and Donor-Donor-Acceptor Diads and Triads. <i>Journal of the American Chemical Society</i> , 1994, 116, 10557-10563.	6.6	103
377	Chemically Sensitive Interfaces. <i>ACS Symposium Series</i> , 1994, , 1-14.	0.5	1
378	Immobilization of DNA on an Aluminum(III) Alkanebisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection. <i>Journal of the American Chemical Society</i> , 1994, 116, 8386-8387.	6.6	146

#	ARTICLE	IF	CITATIONS
379	Electron-Transfer Reactions of Ruthenium Trisbipyridyl-Viologen Donor-Acceptor Molecules: Comparison of the Distance Dependence of Electron Transfer-Rates in the Normal and Marcus Inverted Regions. <i>Journal of the American Chemical Society</i> , 1994, 116, 4786-4795.	6.6	226
380	Synthesis of Porous Transition Metal Oxides by the Salt-Gel Method. <i>Materials Research Society Symposia Proceedings</i> , 1994, 371, 69.	0.1	6
381	Metal phosphonate-based quartz crystal microbalance sensors for amines and ammonia. <i>Sensors and Actuators B: Chemical</i> , 1993, 14, 703-704.	4.0	17
382	New solids and surfaces, via coordination chemistry. <i>Materials Chemistry and Physics</i> , 1993, 35, 225-232.	2.0	35
383	Experiments illustrating metal-insulator transitions in solids. <i>Journal of Chemical Education</i> , 1993, 70, 855.	1.1	1
384	Sensitized layered metal oxide semiconductor particles for photochemical hydrogen evolution from nonsacrificial electron donors. <i>The Journal of Physical Chemistry</i> , 1993, 97, 11802-11810.	2.9	418
385	Turning Down the Heat: Design and Mechanism in Solid-State Synthesis. <i>Science</i> , 1993, 259, 1558-1564.	6.0	535
386	Septum-based photoelectrochemical cells. <i>The Journal of Physical Chemistry</i> , 1993, 97, 7127-7128.	2.9	5
387	Photoinduced electron transfer in covalently linked ruthenium tris(bipyridyl)-viologen molecules: observation of back electron transfer in the Marcus inverted region. [Erratum to document cited in CA117(18):183725s]. <i>Journal of the American Chemical Society</i> , 1993, 115, 5348-5348.	6.6	7
388	A new approach to the photochemical trifluoromethylation of aromatic compounds. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1359.	2.0	47
389	Chemical gating of a molecular bilayer rectifier at clay-modified electrodes. <i>Inorganic Chemistry</i> , 1993, 32, 1454-1459.	1.9	13
390	Growth and characterization of metal(II) alkanebisphosphonate multilayer thin films on gold surfaces. <i>Journal of the American Chemical Society</i> , 1993, 115, 11855-11862.	6.6	185
391	Evidence for carbocation intermediates in the titanium dioxide-catalyzed photochemical fluorination of carboxylic acids. <i>Journal of Organic Chemistry</i> , 1993, 58, 1393-1399.	1.7	15
392	Electron and energy transfer as probes of interparticle ion-exchange reactions in zeolite Y. <i>The Journal of Physical Chemistry</i> , 1993, 97, 8650-8655.	2.9	31
393	Shape-Selective Intercalation Reactions and Chemical Sensing in Layered Metal Phosphates and Phosphonates. , 1993, , 225-236.		5
394	Self-Assembling Electron-Transport Chains in Zeolites. <i>ACS Symposium Series</i> , 1992, , 333-346.	0.5	3
395	Chiral molecular recognition in intercalated zirconium phosphate. <i>Journal of the American Chemical Society</i> , 1992, 114, 7574-7575.	6.6	139
396	Dynamic electron-transfer quenching of the tris(2,2'-bipyridyl)ruthenium(II) MLCT excited state by intrazeolitic methylviologen ions. <i>The Journal of Physical Chemistry</i> , 1992, 96, 2879-2885.	2.9	77

#	ARTICLE	IF	CITATIONS
397	Layered metal phosphates and phosphonates: from crystals to monolayers. <i>Accounts of Chemical Research</i> , 1992, 25, 420-427.	7.6	605
398	Demonstration of a shell-core structure in layered cadmium selenide-zinc selenide small particles by x-ray photoelectron and Auger spectroscopies. <i>The Journal of Physical Chemistry</i> , 1992, 96, 3812-3817.	2.9	229
399	Photoinduced electron transfer in covalently linked ruthenium tris(bipyridyl)-viologen molecules: observation of back electron transfer in the Marcus inverted region. <i>Journal of the American Chemical Society</i> , 1992, 114, 8081-8087.	6.6	170
400	Metal-insulator-semiconductor and metal-insulator-metal devices derived from zirconium phosphonate thin films. <i>Thin Solid Films</i> , 1992, 208, 132-136.	0.8	29
401	Adsorption of well-ordered zirconium phosphonate multilayer films on high surface area silica. <i>Chemistry of Materials</i> , 1991, 3, 521-527.	3.2	95
402	Shape-selective intercalation reactions of layered zinc and cobalt phosphonates. <i>Inorganic Chemistry</i> , 1991, 30, 1434-1438.	1.9	155
403	Visible-light photolysis of hydrogen iodide using sensitized layered semiconductor particles. <i>Journal of the American Chemical Society</i> , 1991, 113, 9561-9563.	6.6	192
404	Electrochemical measurements of electron transfer rates through zirconium 1,2-ethanediybis(phosphonate) multilayer films on gold electrodes. <i>Langmuir</i> , 1991, 7, 2362-2369.	1.6	69
405	Formation of quantum-size semiconductor particles in a layered metal phosphonate host lattice. <i>Chemistry of Materials</i> , 1991, 3, 149-156.	3.2	186
406	Zeolitic Materials As Organizing Media For Semiconductor-Based Artificial Photosynthetic Systems. <i>Materials Research Society Symposia Proceedings</i> , 1991, 233, 145.	0.1	12
407	Topochemical diacetylene polymerization in layered metal phosphate salts. <i>Journal of Solid State Chemistry</i> , 1991, 94, 59-71.	1.4	64
408	Bettering nature's solar cells. <i>Nature</i> , 1991, 353, 698-699.	13.7	19
409	Photochemical selective fluorination of organic molecules using mercury (II) fluoride. <i>Journal of Fluorine Chemistry</i> , 1991, 51, 291-294.	0.9	19
410	Photochemical addition of perfluoro-n-butyl iodide to alkynes and olefins. <i>Journal of Fluorine Chemistry</i> , 1991, 53, 53-60.	0.9	20
411	Photoelectrochemistry and interfacial energetics of titanium dioxide photoelectrodes in fluoride-containing solutions. <i>The Journal of Physical Chemistry</i> , 1990, 94, 423-428.	2.9	29
412	Miniaturized electrochemistry. <i>Nature</i> , 1990, 343, 515-516.	13.7	24
413	Electrochemistry and photoelectrochemistry of transition metal complexes in well-ordered surface layers. <i>Coordination Chemistry Reviews</i> , 1990, 97, 237-248.	9.5	66
414	Photoactivity of ternary lead-group IVB oxides for hydrogen and oxygen evolution. <i>Catalysis Letters</i> , 1990, 5, 61-66.	1.4	61



#	ARTICLE	IF	CITATIONS
415	Reduction at 300 K of NO by CO over supported platinum catalysts. <i>Journal of Catalysis</i> , 1990, 125, 565-567.	3.1	39
416	Photoelectrochemical Properties of Titanium Dioxide Electrodes Prepared from a Titanium-Aluminum Alloy. <i>Journal of the Electrochemical Society</i> , 1990, 137, 3846-3849.	1.3	13
417	Ultrasmall particles of cadmium selenide and cadmium sulfide formed in Nafion by an ion-dilution technique. <i>The Journal of Physical Chemistry</i> , 1990, 94, 7543-7549.	2.9	47
418	Electrochemistry and photoelectrochemistry of pillared-clay-modified electrodes. <i>Inorganic Chemistry</i> , 1990, 29, 1531-1535.	1.9	39
419	New photochemical method for selective fluorination of organic molecules. <i>Journal of the American Chemical Society</i> , 1990, 112, 2016-2018.	6.6	62
420	Effects of substituents on the spectral and redox properties of cadmium(II) texaphyrins. <i>Inorganic Chemistry</i> , 1990, 29, 3738-3745.	1.9	29
421	Designer solids and surfaces. <i>Journal of Chemical Education</i> , 1990, 67, 829.	1.1	61
422	Wide-range tuning of the titanium dioxide flat-band potential by adsorption of fluoride and hydrofluoric acid. <i>The Journal of Physical Chemistry</i> , 1990, 94, 4276-4280.	2.9	58
423	Synthesis and structural characterization of layered calcium and lanthanide phosphonate salts. <i>Inorganic Chemistry</i> , 1990, 29, 2112-2117.	1.9	157
424	Artificial Photosynthesis in Zeolite-Based Molecular Assemblies. , 1990, , 365-378.		9
425	Structural characterization of multilayer metal phosphonate film on silicon using angular-dependent x-ray photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 1608-1613.	0.9	37
426	Oxidative Intercalation of Graphite by Fluoroanionic Species. <i>Advances in Chemistry Series</i> , 1989, , 391-402.	0.6	5
427	Photochemical properties of ultrathin TiO <sub>2</sub> films prepared by chemical vapor deposition. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1989, 50, 283-290.	2.0	20
428	Catalytic hydrogen evolution properties of nickel-doped tungsten disulfide. <i>The Journal of Physical Chemistry</i> , 1989, 93, 401-403.	2.9	22
429	Metallotexaphyrins: a new family of photosensitisers for efficient generation of singlet oxygen. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 314.	2.0	63
430	Sensitized polypyrrole-coated semiconducting powders as materials in photosystems for hydrogen generation. <i>Langmuir</i> , 1989, 5, 148-149.	1.6	26
431	Reductive quenching of ruthenium polypyridyl sensitizers by cyanometalate complexes. <i>Inorganic Chemistry</i> , 1989, 28, 3507-3510.	1.9	21
432	Self-assembling trimolecular redox chains at zeolite Y modified electrodes. <i>Inorganic Chemistry</i> , 1989, 28, 178-182.	1.9	76

#	ARTICLE	IF	CITATIONS
433	Ground- and excited-state spectral and redox properties of cadmium(II) texaphyrin. <i>The Journal of Physical Chemistry</i> , 1989, 93, 8111-8115.	2.9	49
434	Size quantization effects in cadmium sulfide layers formed by a Langmuir-Blodgett technique. <i>Chemical Physics Letters</i> , 1988, 152, 265-268.	1.2	188
435	Structural studies of some new lamellar magnesium, manganese and calcium phosphonates. <i>Solid State Ionics</i> , 1988, 26, 63-69.	1.3	78
436	Long-lived light-induced charge separation in a zeolite L-based molecular triad. <i>Journal of the American Chemical Society</i> , 1988, 110, 8232-8234.	6.6	135
437	Synthesis and structural characterization of a homologous series of divalent-metal phosphonates, $MII(O_3PR)_n \cdot nH_2O$ and $MII(HO_3PR)_2$ . <i>Inorganic Chemistry</i> , 1988, 27, 2781-2785.	1.9	265
438	Photoelectrochemical evolution of elemental fluorine at titanium dioxide electrodes in anhydrous hydrogen fluoride solutions. <i>Journal of the American Chemical Society</i> , 1988, 110, 3710-3712.	6.6	12
439	Inorganic analogs of Langmuir-Blodgett films: adsorption of ordered zirconium 1,10-decanebisphosphonate multilayers on silicon surfaces. <i>Journal of the American Chemical Society</i> , 1988, 110, 618-620.	6.6	404
440	Electrochemistry of metalloporphyrins and viologens at zeolite Y-modified electrodes: evidence for electron trapping by monomolecular porphyrin layers. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2592-2597.	2.9	77
441	Multicomponent redox catalysts for reduction of large biological molecules using molecular hydrogen as the reductant. <i>Journal of the American Chemical Society</i> , 1988, 110, 2270-2276.	6.6	15
442	Sensitization of titanium dioxide and strontium titanate electrodes by ruthenium(II) tris(2,2'-bipyridine-4,4'-dicarboxylic acid) and zinc tetrakis(4-carboxyphenyl)porphyrin: an evaluation of sensitization efficiency for component photoelectrodes in a multipanel device. <i>The Journal of Physical Chemistry</i> , 1988, 92, 1872-1878.	2.9	133
443	Tungsten disulfide: a novel hydrogen evolution catalyst for water decomposition. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2311-2315.	2.9	81
444	Modeling of Bipolar Semiconductor Photoelectrode Arrays for Electrolytic Processes. <i>Journal of the Electrochemical Society</i> , 1988, 135, 567-573.	1.3	24
445	Adsorption of ordered zirconium phosphonate multilayer films on silicon and gold surfaces. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2597-2601.	2.9	288
446	Vectorial electron transport at ion-exchanged zeolite-Y-modified electrodes. <i>The Journal of Physical Chemistry</i> , 1987, 91, 643-648.	2.9	97
447	Bipolar cadmium selenide/cobalt(II) sulfide semiconductor photoelectrode arrays for unassisted photolytic water splitting. <i>The Journal of Physical Chemistry</i> , 1987, 91, 6-8.	2.9	56
448	The pH-sensitive tungsten(VI) oxide-based microelectrochemical transistors. <i>The Journal of Physical Chemistry</i> , 1987, 91, 648-654.	2.9	63
449	Photoassisted hydrogen generation: platinum and cadmium sulfide supported on separate particles. <i>The Journal of Physical Chemistry</i> , 1987, 91, 3316-3320.	2.9	91
450	Photochemical hydrogen evolution via singlet-state electron-transfer quenching of zinc tetra(N-methyl-4-pyridyl)porphyrin cations in a zeolite L based system. <i>Journal of the American Chemical Society</i> , 1987, 109, 7309-7314.	6.6	125

#	ARTICLE	IF	CITATIONS
451	A new method for depositing platinum exclusively on the internal surface of zeolite L. <i>Inorganic Chemistry</i> , 1987, 26, 3825-3827.	1.9	29
452	Bipolar titanium dioxide/platinum semiconductor photoelectrodes and multielectrode arrays for unassisted photolytic water splitting. <i>The Journal of Physical Chemistry</i> , 1986, 90, 4604-4607.	2.9	58
453	Reaction of the (111) faces of single-crystal indium phosphide with alkylating agents. Evidence for selective reaction of the P-rich face. <i>Journal of the American Chemical Society</i> , 1986, 108, 3155-3157.	6.6	12
454	Voltammetry at polymer-modified stationary and rotating microelectrodes. Application to determination of electron-transfer rates at polymer solution interfaces. <i>The Journal of Physical Chemistry</i> , 1986, 90, 2150-2156.	2.9	21
455	Electrode-confined catalyst systems for use in optical-to-chemical energy conversion. <i>Journal of Photochemistry and Photobiology</i> , 1985, 29, 71-88.	0.6	20
456	Fluorine Intercalation Compounds of Graphite—Section I by Watanabe, Touhara, and Nakajima, Section II by Bartlett and Mallouk, and Section III by Selig., 1985, , 331-369.		6
457	Raman, infrared and n.m.r. studies of the graphite hydrofluorides $C_xF_{1-x}(HF)$ ( $2 \leq x \leq 5$ ). <i>Philosophical Transactions of the Royal Society A</i> , 1985, 314, 179-187.	1.3	96
458	Electrochemical characterization of surface-bound redox polymers derived from 1,1'-bis[[(3-(triethoxysilyl)propyl)amino]carbonyl]cobaltocenium: charge transport, anion binding, and use in photoelectrochemical hydrogen generation. <i>Inorganic Chemistry</i> , 1985, 24, 3119-3126.	1.9	54
459	The fluorobasicities of $ReF_7$ and $IF_7$ as measured by the enthalpy change $\Delta H^\circ(EF_7(g) \rightarrow EF_6(g) + F^\bullet(g))$ . <i>Journal of Fluorine Chemistry</i> , 1984, 26, 97-116.	0.9	24
460	Intercalation of graphite by silicon tetrafluoride and fluorine to yield a second-stage salt $C_{24}SiF_5$ . <i>Synthetic Metals</i> , 1984, 9, 433-440.	2.1	12
461	Structural studies of salts of cis and trans $\mu$ -fluoro-bridged polymers of pentafluorogermanate(1-) and of the pentafluorogermanate(1-) monomer. <i>Inorganic Chemistry</i> , 1984, 23, 3160-3166.	1.9	35
462	Fluoride ion affinities of germanium tetrafluoride and boron trifluoride from thermodynamic and structural data for $(SF_3)_2GeF_6$ , $ClO_2GeF_5$ , and $ClO_2BF_4$ . <i>Inorganic Chemistry</i> , 1984, 23, 3167-3173.	1.9	222
463	New aspects of the intercalation of graphite by fluorine and fluorides. <i>Journal of Fluorine Chemistry</i> , 1983, 23, 409.	0.9	9
464	Reversible intercalation of graphite by fluorine: a new bifluoride, $C_{12}HF_2$ , and graphite fluorides, $C_xF_{5-x}$ ( $5 > x > 2$ ). <i>Journal of the Chemical Society Chemical Communications</i> , 1983, , 103.	2.0	125
465	New salts of graphite, $C_{12}+HF_2^{\bullet}$ & $C_{24}+SiF_5^{\bullet}$ and the threshold for the oxidative intercalation of graphite. <i>Journal of Fluorine Chemistry</i> , 1982, 21, 26.	0.9	1
466	Structural, vibrational and thermodynamic studies of pentafluorogermanate salts. <i>Journal of Fluorine Chemistry</i> , 1982, 21, 88.	0.9	1
467	The relationship between gas phase oxidation strengths and graphite intercalation reactions. <i>Synthetic Metals</i> , 1980, 2, 213.	2.1	0