

Shih-Yuan Lu

List of Publications by Year in descending order

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187
papers

8,612
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41344

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11475
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#	ARTICLE	IF	CITATIONS
1	Tetragonal/orthorhombic-bismuth tungstate homojunction formed through in situ bismuth induced phase transformation as highly efficient photocatalyst for pollutant degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 269-280.	9.4	21
2	In-situ grown metal-organic framework-derived carbon-coated Fe-doped cobalt oxide nanocomposite on fluorine-doped tin oxide glass for acidic oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120899.	20.2	35
3	MOF-derived cobalt Disulfide/Nitrogen-doped carbon composite polyhedrons linked with Multi-walled carbon nanotubes as sulfur hosts for Lithium-Sulfur batteries. <i>Chemical Engineering Journal</i> , 2022, 431, 133924.	12.7	22
4	Metal-organic framework-derived Mg-Zn hybrid nanocatalyst for biodiesel production. <i>Advanced Powder Technology</i> , 2022, 33, 103365.	4.1	17
5	Solvent-Free Synthesis of MIL-101(Cr) for CO ₂ Gas Adsorption: The Effect of Metal Precursor and Molar Ratio. <i>Sustainability</i> , 2022, 14, 1152.	3.2	9
6	Porous core-shell B-doped silicon-carbon composites as electrode materials for lithium ion capacitors. <i>Journal of Power Sources</i> , 2022, 531, 231345.	7.8	11
7	Modulation of the coordination environment enhances the electrocatalytic efficiency of Mo single atoms toward water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8784-8797.	10.3	17
8	Nitrogen-doped carbon armored Cobalt oxide hollow nanocubes electrochemically anchored on fluorine-doped tin oxide substrate for acidic oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 327-336.	9.4	11
9	Pulse electrodeposited FeCoNiMnW high entropy alloys as efficient and stable bifunctional electrocatalysts for acidic water splitting. <i>Chemical Engineering Journal</i> , 2022, 446, 137452.	12.7	37
10	Triple functionalization of carved N-doped carbon nanoboxes with synergistic trimetallic sulphide for high performance lithium-sulphur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9028-9037.	10.3	20
11	High Performance Flexible Lithium-Ion Battery Electrodes: Ion Exchange Assisted Fabrication of Carbon Coated Nickel Oxide Nanosheet Arrays on Carbon Cloth. <i>Advanced Functional Materials</i> , 2021, 31, 2101199.	14.9	58
12	(Invited) Exploring Synergistic Effects for High Performance Catalysts of Electrolytic Water Splitting. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1213-1213.	0.0	0
13	Gold nanocrystal decorated trimetallic metal organic frameworks as high performance electrocatalysts for oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119916.	20.2	45
14	(Ni _x Fe _y Co _{6-x-y})Mo ₆ C cuboids as outstanding bifunctional electrocatalysts for overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 290, 120049.	20.2	47
15	A new trick for an old technology: Ion exchange syntheses of advanced energy storage and conversion nanomaterials. <i>Energy Storage Materials</i> , 2021, 41, 758-790.	18.0	24
16	Hollow Porous Fe ₂ O ₃ Nanoparticles as Anode Materials for High-Performance Lithium-Ion Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1180-1192.	6.7	38
17	Twinning Enhances Efficiencies of Metallic Catalysts toward Electrolytic Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2101827.	19.5	24
18	Twinning Enhances Efficiencies of Metallic Catalysts toward Electrolytic Water Splitting (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62</i>	19.5	3

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19	NiFeMo alloy inverse-opals on Ni foam as outstanding bifunctional catalysts for electrolytic water splitting of ultra-low cell voltages at high current densities. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118376.	20.2	77
20	Mixed Metal Phosphide Chainmail Catalysts Confined in N-Doped Porous Carbon Nanoboxes as Highly Efficient Water-Oxidation Electrocatalysts with Ultralow Overpotentials and Tafel Slopes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7153-7161.	8.0	47
21	N-doped carbon armored metal phosphides grown in-situ on nickel foam as chainmail catalysts toward high efficiency electrolytic water splitting. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 42-51.	9.4	32
22	Composition-balanced trimetallic MOFs as ultra-efficient electrocatalysts for oxygen evolution reaction at high current densities. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119375.	20.2	102
23	Nitrogen-doped carbon nanoboxes as high rate capability and long-life anode materials for high-performance Li-ion capacitors. <i>Chemical Engineering Journal</i> , 2020, 396, 125314.	12.7	41
24	Small highly mesoporous silicon nanoparticles for high performance lithium ion based energy storage. <i>Chemical Engineering Journal</i> , 2020, 400, 125958.	12.7	32
25	Bimetallic Metal-Organic Framework-Derived Hybrid Nanostructures as High-Performance Catalysts for Methane Dry Reforming. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15183-15193.	8.0	67
26	Open-mouth N-doped carbon nanoboxes embedded with mixed metal phosphide nanoparticles as high-efficiency catalysts for electrolytic water splitting. <i>Nanoscale</i> , 2020, 12, 5848-5856.	5.6	32
27	Double functionalization of N-doped carbon carved hollow nanocubes with mixed metal phosphides as efficient bifunctional catalysts for electrochemical overall water splitting. <i>Nano Energy</i> , 2019, 65, 103995.	16.0	111
28	Bi-metallic MOFs possessing hierarchical synergistic effects as high performance electrocatalysts for overall water splitting at high current densities. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 118023.	20.2	114
29	Alkaline Water Splitting: NiFe/(Ni,Fe) ₃ S ₂ Core/Shell Nanowire Arrays as Outstanding Catalysts for Electrolytic Water Splitting at High Current Densities (Small Methods) <i>Tj ETQq1 1 0.784834 rgBT /Overlock</i>		
30	N-Doped Hierarchical Continuous Hollow Thin Porous Carbon Nanostructure for High-Performance Flexible Gel-Type Symmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17020-17029.	6.7	9
31	Porous N-doped carbon nanostructure integrated with mesh current collector for Li-ion based energy storage. <i>Chemical Engineering Journal</i> , 2019, 374, 201-210.	12.7	24
32	Enhancement of catalytic activity by UV-light irradiation in CeO ₂ nanocrystals. <i>Scientific Reports</i> , 2019, 9, 8018.	3.3	14
33	NiFe Alloy Nanotube Arrays as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting at High Current Densities. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24096-24106.	8.0	85
34	NiFe/(Ni,Fe) ₃ S ₂ Core/Shell Nanowire Arrays as Outstanding Catalysts for Electrolytic Water Splitting at High Current Densities. <i>Small Methods</i> , 2019, 3, 1900234.	8.6	28
35	Selective and efficient cleavage of lignin model compound into value-added aromatic chemicals with CuFe ₂ O ₄ nanoparticles decorated on partially reduced graphene oxides via sunlight-assisted heterogeneous Fenton processes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 264-271.	5.3	19
36	Ti-MOF derived Ti _x Fe _{1-x} O _y shells boost Fe ₂ O ₃ nanorod cores for enhanced photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , 2019, 361, 660-670.	12.7	42

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37	In-Situ Grown, Passivator-Modulated Anodization Derived Synergistically Well-Mixed Ni ²⁺ /Fe Oxides from Ni Foam as High-Performance Oxygen Evolution Reaction Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2019, 2, 743-753.	5.1	34
38	Synergistically well-mixed MOFs grown on nickel foam as highly efficient durable bifunctional electrocatalysts for overall water splitting at high current densities. <i>Nano Energy</i> , 2019, 57, 1-13.	16.0	211
39	TiO ₂ nanocrystals decorated Z-schemed core-shell CdS-CdO nanorod arrays as high efficiency anodes for photoelectrochemical hydrogen generation. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 216-225.	9.4	25
40	Particle-in-box nanostructured materials created via spatially confined pyrolysis as high performance bifunctional catalysts for electrochemical overall water splitting. <i>Nano Energy</i> , 2018, 48, 489-499.	16.0	90
41	Solvent-modulated reaction between mesoporous PbI ₂ film and CH ₃ NH ₃ I for enhancement of photovoltaic performances of perovskite solar cells. <i>Electrochimica Acta</i> , 2018, 266, 118-129.	5.2	17
42	Aerosol-Based Self-Assembly of a Ag ⁺ /ZnO Hybrid Nanoparticle Cluster with Mechanistic Understanding for Enhanced Photocatalysis. <i>Langmuir</i> , 2018, 34, 5030-5039.	3.5	20
43	Core/shell p-BiOI/n ⁺ -Bi ₂ O ₃ heterojunction array with significantly enhanced photoelectrochemical water splitting efficiency. <i>Journal of Alloys and Compounds</i> , 2018, 738, 138-144.	5.5	41
44	Mixed NiO/NiCo ₂ O ₄ Nanocrystals Grown from the Skeleton of a 3D Porous Nickel Network as Efficient Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 417-426.	8.0	83
45	Few-Layer Graphene Sheet-Passivated Porous Silicon Toward Excellent Electrochemical Double-Layer Supercapacitor Electrode. <i>Nanoscale Research Letters</i> , 2018, 13, 242.	5.7	26
46	Heterogeneous Fenton Reaction Enabled Selective Colon Cancerous Cell Treatment. <i>Scientific Reports</i> , 2018, 8, 16580.	3.3	15
47	High performance perovskite solar cells fabricated from porous PbI ₂ -xBr _x prepared with mixture solvent pore generation treatment. <i>Electrochimica Acta</i> , 2018, 292, 399-406.	5.2	6
48	N-doped carbon dots@layer facilitated heterostructure of TiO ₂ polymorphs for efficient photoelectrochemical water oxidation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 388-396.	5.3	14
49	Alkaline Water Splitting: In Situ Grown Bimetallic MOF-Based Composite as Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting with Ultrastability at High Current Densities (<i>Adv. Energy Mater.</i> 23/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870105.	19.5	4
50	In Situ Grown Bimetallic MOF-Based Composite as Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting with Ultrastability at High Current Densities. <i>Advanced Energy Materials</i> , 2018, 8, 1801065.	19.5	239
51	p-Cu ₂ S/n-Zn _x Cd _{1-x} S nanocrystals dispersed in a 3D porous graphene nanostructure: an excellent photocatalyst for hydrogen generation through sunlight driven water splitting. <i>Catalysis Science and Technology</i> , 2017, 7, 1305-1314.	4.1	23
52	3D Porous Graphene Nanostructure from a Simple, Fast, Scalable Process for High Performance Flexible Gel-Type Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4457-4467.	6.7	36
53	Solid-Liquid Interface Based Biphasic Reaction for Nanomaterial Preparation: Bundled CuO Nanorods as an Example and Their Outstanding Photocatalytic Efficiencies. <i>ChemistrySelect</i> , 2017, 2, 3276-3281.	1.5	0
54	Self-Targeting, Immune Transparent Plasma Protein Coated Nanocomplex for Noninvasive Photothermal Anticancer Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700181.	7.6	36

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55	Catalase-Modulated Heterogeneous Fenton Reaction for Selective Cancer Cell Eradication: SnFe ₂ O ₄ Nanocrystals as an Effective Reagent for Treating Lung Cancer Cells. ACS Applied Materials & Interfaces, 2017, 9, 1273-1279.	8.0	67
56	Noble metal-titania hybrid nanoparticle clusters and the interaction to proteins for photo-catalysis in aqueous environments. Journal of Colloid and Interface Science, 2017, 490, 802-811.	9.4	11
57	CuO nanorods from carrier solvent assisted interfacial reaction processes: An unexpected extraordinary Fe-free photocatalyst in sunlight assisted Fenton-like processes. Journal of the Taiwan Institute of Chemical Engineers, 2017, 70, 244-251.	5.3	13
58	Ag/AgFeO ₂ : An Outstanding Magnetically Responsive Photocatalyst for HeLa Cell Eradication. ACS Omega, 2017, 2, 4261-4268.	3.5	15
59	Hollow nanocubes composed of well-dispersed mixed metal-rich phosphides in N-doped carbon as highly efficient and durable electrocatalysts for the oxygen evolution reaction at high current densities. Journal of Materials Chemistry A, 2017, 5, 19656-19663.	10.3	93
60	In situ formation of NiO on Ni foam prepared with a novel leaven dough method as an outstanding electrocatalyst for oxygen evolution reactions. Journal of Materials Chemistry A, 2016, 4, 9797-9806.	10.3	125
61	Wafer Scale Phase-Engineered 1T- and 2H-MoSe ₂ /Mo Core-Shell 3D-Hierarchical Nanostructures toward Efficient Electrocatalytic Hydrogen Evolution Reaction. Advanced Materials, 2016, 28, 9831-9838.	21.0	208
62	Exfoliated SnS ₂ Nanoplates for Enhancing Direct Electrochemical Glucose Sensing. Electrochimica Acta, 2016, 219, 241-250.	5.2	31
63	SnFe ₂ O ₄ Nanocrystals as Highly Efficient Catalysts for Hydrogen Peroxide Sensing. Chemistry - A European Journal, 2016, 22, 10877-10883.	3.3	17
64	Electrocatalysis: Wafer Scale Phase-Engineered 1T- and 2H-MoSe ₂ /Mo Core-Shell 3D-Hierarchical Nanostructures toward Efficient Electrocatalytic Hydrogen Evolution Reaction (Adv. Mater. 44/2016). Advanced Materials, 2016, 28, 9658-9658.	21.0	3
65	Three-dimensionally Extended Host Electrodes for Biosensor Applications. ChemElectroChem, 2016, 3, 552-557.	3.4	0
66	High-Temperature All Solid-State Microsupercapacitors based on SiC Nanowire Electrode and YSZ Electrolyte. ACS Applied Materials & Interfaces, 2015, 7, 26658-26665.	8.0	52
67	Electrochemical synthesis of ultrafast and gram-scale surfactant-free tellurium nanowires by gas-solid transformation and their applications as supercapacitor electrodes for p-doping of graphene transistors. Nanoscale, 2015, 7, 7535-7539.	5.6	17
68	Pt coupled ZnFe ₂ O ₄ nanocrystals as a breakthrough photocatalyst for Fenton-like processes - photodegradation treatments from hours to seconds. Journal of Materials Chemistry A, 2015, 3, 18578-18585.	10.3	50
69	Air annealing induced transformation of cubic CdSe microspheres into hexagonal nanorods and micro-pyramids. Journal of Alloys and Compounds, 2015, 640, 504-510.	5.5	26
70	A cost-effective, stable, magnetically recyclable photocatalyst of ultra-high organic pollutant degradation efficiency: SnFe ₂ O ₄ nanocrystals from a carrier solvent assisted interfacial reaction process. Journal of Materials Chemistry A, 2015, 3, 12259-12267.	10.3	54
71	Glucose-derived nitrogen-doped hierarchical hollow nest-like carbon nanostructures from a novel template-free method as an outstanding electrode material for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 24453-24462.	10.3	82
72	Carbon black-derived graphene quantum dots composited with carbon aerogel as a highly efficient and stable reduction catalyst for the iodide/tri-iodide couple. Nanoscale, 2015, 7, 1209-1215.	5.6	67

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73	Cu ₂ O-Decorated Mesoporous TiO ₂ Beads as a Highly Efficient Photocatalyst for Hydrogen Production. ChemCatChem, 2014, 6, 293-300.	3.7	74
74	Porous fluorine-doped tin oxide as a promising substrate for electrochemical biosensors—demonstration in hydrogen peroxide sensing. Journal of Materials Chemistry B, 2014, 2, 7779-7784.	5.8	23
75	Dispersing WO ₃ in carbon aerogel makes an outstanding supercapacitor electrode material. Carbon, 2014, 69, 287-293.	10.3	94
76	Layered Double Hydroxides as an Effective Additive in Polymer Gelled Electrolyte based Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 17518-17525.	8.0	31
77	Layered Protonated Titanate Nanosheets Synthesized with a Simple One-Step, Low-Temperature, Urea-Modulated Method as an Effective Pollutant Adsorbent. ACS Applied Materials & Interfaces, 2014, 6, 16669-16678.	8.0	56
78	Synthesis and characterization of ZnO nanostructures using modified chemical bath deposition method. Materials Letters, 2014, 137, 401-404.	2.6	2
79	Hydrothermal synthesis, characterizations and photoluminescence study of single crystalline hexagonal ZnO nanorods with three dimensional flowerlike microstructures. Superlattices and Microstructures, 2014, 69, 239-252.	3.1	31
80	SnO ₂ Quantum Dots Synthesized with a Carrier Solvent Assisted Interfacial Reaction for Band-Structure Engineering of TiO ₂ Photocatalysts. Journal of Physical Chemistry C, 2014, 118, 14457-14463.	3.1	43
81	β-Fe ₂ O ₃ /graphene nanocomposites as a stable high performance anode material for neutral aqueous supercapacitors. Journal of Materials Chemistry A, 2014, 2, 16955-16962.	10.3	61
82	Manganese Oxide/Graphene Aerogel Composites as an Outstanding Supercapacitor Electrode Material. Chemistry - A European Journal, 2014, 20, 517-523.	3.3	86
83	Large enhancements in hydrogen production of TiO ₂ through a simple carbon decoration. Carbon, 2013, 62, 69-75.	10.3	14
84	Cu ₂ O-decorated CdS nanostructures for high efficiency visible light driven hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 9665-9672.	7.1	62
85	ZnFe ₂ O ₄ decorated CdS nanorods as a highly efficient, visible light responsive, photochemically stable, magnetically recyclable photocatalyst for hydrogen generation. Nanoscale, 2013, 5, 7356.	5.6	85
86	One-step Sn ⁴⁺ -based anodic deposition for flattening of fluorine-doped tin oxide enabling large transmittance enhancements. RSC Advances, 2013, 3, 9011.	3.6	5
87	Graphene aerogels as a highly efficient counter electrode material for dye-sensitized solar cells. Carbon, 2013, 54, 291-299.	10.3	74
88	Hydrothermal growth and characterizations of dandelion-like ZnO nanostructures. Journal of Alloys and Compounds, 2013, 579, 444-449.	5.5	19
89	Mesoporous Fluorocarbon-Modified Silica Aerogel Membranes Enabling Long-Term Continuous CO ₂ Capture with Large Absorption Flux Enhancements. ChemSusChem, 2013, 6, 437-442.	6.8	52
90	Single-crystalline mesoporous ZnO nanosheets prepared with a green antisolvent method exhibiting excellent photocatalytic efficiencies. CrystEngComm, 2012, 14, 4732.	2.6	59

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91	Porous FTO thin layers created with a facile one-step Sn ⁴⁺ -based anodic deposition process and their potential applications in ion sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 16259.	6.7	28
92	One-Step, Surfactant-Free Hydrothermal Method for Syntheses of Mesoporous TiO ₂ Nanoparticle Aggregates and Their Applications in High Efficiency Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2012, 24, 3255-3262.	6.7	53
93	Organic-inorganic hybrid polyaspartimide involving polyhedral oligomeric silsesquioxane via Michael addition for CO ₂ capture. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2521-2526.	2.3	16
94	Ultrahigh Specific Capacitances for Supercapacitors Achieved by Nickel Cobaltite/Carbon Aerogel Composites. <i>Advanced Functional Materials</i> , 2012, 22, 5038-5043.	14.9	163
95	Ultralow overpotentials for oxygen evolution reactions achieved by nickel cobaltite aerogels. <i>Journal of Materials Chemistry</i> , 2011, 21, 18180.	6.7	68
96	Efficiency Enhancement Achieved with Elongated Titania Nanocrystals for Dye Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2011, 158, B1306.	2.9	5
97	Ultrafast formation of ZnO mesocrystals with excellent photocatalytic activities by a facile Tris-assisted antisolvent process. <i>CrystEngComm</i> , 2011, 13, 6218.	2.6	25
98	Titania and Pt/titania aerogels as superior mesoporous structures for photocatalytic water splitting. <i>Journal of Materials Chemistry</i> , 2011, 21, 12668.	6.7	41
99	Manganese Oxide/Carbon Aerogel Composite: an Outstanding Supercapacitor Electrode Material. <i>Advanced Energy Materials</i> , 2011, 1, 901-907.	19.5	175
100	Pyrolytic Carbon from an Aromatic Precursor and Its Application as a Counter Electrode in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2011, 17, 1358-1364.	3.3	13
101	A Cost-Effective Supercapacitor Material of Ultrahigh Specific Capacitances: Spinel Nickel Cobaltite Aerogels from an Epoxide-Driven Sol-Gel Process. <i>Advanced Materials</i> , 2010, 22, 347-351.	21.0	1,108
102	Morphology-Dependent Optoelectronic Properties of Blue Emitter Poly(p-phenylene) Synthesized with Chemical Vapor Deposition Polymerization. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7469-7473.	2.6	0
103	Growth of ZnO Nanostructures with Controllable Morphology Using a Facile Green Antisolvent Method. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8867-8872.	3.1	97
104	Growth of zirconia and yttria-stabilized zirconia nanorod arrays assisted by phase transition. <i>CrystEngComm</i> , 2010, 12, 3664.	2.6	20
105	Differential Sensing of Serine and Tyrosine with Aligned CdS Nanowire Arrays Based on pH-Dependent Photoluminescence Behavior. <i>ChemPhysChem</i> , 2009, 10, 711-714.	2.1	7
106	A novel way of improving light harvesting in dye-sensitized solar cells - Electrodeposition of titania. <i>Electrochemistry Communications</i> , 2009, 11, 2180-2183.	4.7	27
107	A Facile Route To Create Surface Porous Polymer Films via Phase Separation for Antireflection Applications. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 72-75.	8.0	31
108	Cobalt Oxide Aerogels of Ideal Supercapacitive Properties Prepared with an Epoxide Synthetic Route. <i>Chemistry of Materials</i> , 2009, 21, 3228-3233.	6.7	278

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109	A New Class of Opacified Monolithic Aerogels of Ultralow High-Temperature Thermal Conductivities. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7424-7428.	3.1	66
110	Modulation and Improvement on Separation of Photoinduced Charge Carriers in CdS/Metal Nanoheterostructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17342-17346.	3.1	14
111	Gigantic Enhancement in Sensitivity Using Schottky Contacted Nanowire Nanosensor. <i>Journal of the American Chemical Society</i> , 2009, 131, 17690-17695.	13.7	230
112	Morphological modulation of optoelectronic properties of organic-inorganic nanohybrids prepared with a one-step co-fed chemical vapor deposition polymerization process. <i>Journal of Materials Chemistry</i> , 2009, 19, 6766.	6.7	8
113	Dopant-Induced Formation of Branched CdS Nanocrystals. <i>Small</i> , 2008, 4, 951-955.	10.0	27
114	Two-Dimensional Marangoni-Instability-Induced Periodic Patterns of Polymer Blend Films Cast on Tilted Substrates. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 615-624.	2.2	10
115	Alternating the Output of a CdS Nanowire Nanogenerator by a White-Light-Stimulated Optoelectronic Effect. <i>Advanced Materials</i> , 2008, 20, 3127-3130.	21.0	207
116	Tin oxide nanocrystals embedded in silica aerogel: Photoluminescence and photocatalysis. <i>Microporous and Mesoporous Materials</i> , 2008, 112, 580-588.	4.4	57
117	Spontaneous Reduction of Metal Ions Initiated by Ethylenediamine-Capped CdS Nanowires: A Sensing Mechanism Revealed. <i>Chemistry of Materials</i> , 2008, 20, 2854-2856.	6.7	42
118	Transparent, Hydrophobic Composite Aerogels with High Mechanical Strength and Low High-Temperature Thermal Conductivities. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11881-11886.	2.6	86
119	Opaline metallic photonic crystals possessing complete photonic band gaps in optical regime. <i>Applied Physics Letters</i> , 2008, 92, 121919.	3.3	9
120	Highly Photoluminescent Metal-Polymer Complexes prepared with a Facile Chemical Vapor Deposition Polymerization Process. <i>Chemistry of Materials</i> , 2008, 20, 2435-2437.	6.7	9
121	Superparamagnetism Found in Diluted Magnetic Semiconductor Nanowires: Mn-Doped CdSe. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17964-17968.	3.1	34
122	Oxide nanodot arrays templated from polymer nano-channels via a novel vapor-transport-assisted wet chemistry process. <i>Journal of Materials Research</i> , 2008, 23, 2061-2066.	2.6	4
123	Formation of Nanowire Striations Driven by Marangoni Instability in Spin-Cast Polymer Thin Films. <i>Langmuir</i> , 2007, 23, 10069-10073.	3.5	14
124	Well-Aligned Ternary Cd _{1-x} Zn _x S Nanowire Arrays and Their Composition-Dependent Field Emission Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13418-13426.	3.1	45
125	Preparation, Characterization, and Electrophysical Properties of Nanostructured BiPO ₄ and Bi ₂ Se ₃ Derived from a Structurally Characterized, Single-Source Precursor Bi[Se ₂ P(OiPr) ₂] ₃ . <i>Journal of Physical Chemistry C</i> , 2007, 111, 18538-18544.	3.1	100
126	Selectivity for patch-distributed reactive spherical surfaces. <i>AIChE Journal</i> , 2007, 53, 475-478.	3.6	0

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127	Synthesis of stoichiometric flowerlike ZnO nanorods with hundred per cent morphological yield. Solid State Communications, 2007, 142, 302-305.	1.9	40
128	Fabrication of synthetic opals composed of mesoporous SnO ₂ spheres with an anodization-assisted double template process. Electrochemistry Communications, 2007, 9, 2867-2870.	4.7	15
129	Stop band shift based chemical sensing with three-dimensional opal and inverse opal structures. Sensors and Actuators B: Chemical, 2007, 124, 452-458.	7.8	46
130	Preparation of Monolithic Silica Aerogel of Low Thermal Conductivity by Ambient Pressure Drying. Journal of the American Ceramic Society, 2007, 90, 2003-2007.	3.8	180
131	Fabrication of Patterned Inverse Opal Structure Through Physical Confinement Assembly and Selective Electrochemical Deposition. Journal of the American Ceramic Society, 2007, 90, 1956-1958.	3.8	8
132	Formation of Parallel Strips in Thin Films of Polystyrene/Poly(vinyl pyrrolidone) Blends via Spin Coating on Unpatterned Substrates. Langmuir, 2006, 22, 8029-8035.	3.5	31
133	[Cu ₄ {Se ₂ P(OiPr) ₂ }] ₄ : A Novel Precursor Enabling Preparation of Nonstoichiometric Copper Selenide (Cu _{2-x} Se) Nanowires. Chemistry of Materials, 2006, 18, 3323-3329.	6.7	76
134	Nanostructures of Sn and Their Enhanced, Shape-Dependent Superconducting Properties. Small, 2006, 2, 268-273.	10.0	54
135	Room temperature chemical synthesis of lead selenide thin films with preferred orientation. Applied Surface Science, 2006, 253, 930-936.	6.1	29
136	Preferential Partition of Nanowires in Thin Films of Immiscible Polymer Blends. Macromolecular Rapid Communications, 2006, 27, 424-429.	3.9	17
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