

Michael H Huang

List of Publications by Year in Descending Order

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

157
papers

15,666
citations

58
h-index

124
g-index

169
ext. papers

16,763
ext. citations

7.9
avg, IF

7.02
L-index

#	Paper	IF	Citations
157	Formation of CsPbCl ₃ Cubes and Edge-Truncated Cuboids at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1578-1584	8.3	3
156	Photocatalytic activity enhancement of Cu ₂ O cubes functionalized with 2-ethynyl-6-methoxynaphthalene through band structure modulation. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 3980-3989	7.1	3
155	Synthesis of Zinc Blende-Phased CdSe Nanocrystals with Size-Tunable Optical Properties and Adjustable Valence Band Positions.. <i>Langmuir</i> , 2022 ,	4	2
154	Facet-dependent electrical conductivity properties of GaN wafers. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 15354-15358	7.1	3
153	Current Rectification and Photo-Responsive Current Achieved through Interfacial Facet Control of CuO-Si Wafer Heterojunctions. <i>ACS Central Science</i> , 2021 , 7, 1929-1937	16.8	5
152	Facet-Dependent and Adjacent Facet-Related Electrical Conductivity Properties of SrTiO ₃ Crystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10051-10056	3.8	10
151	Formation of size-tunable CuI tetrahedra showing small band gap variation and high catalytic performance towards click reactions. <i>Journal of Colloid and Interface Science</i> , 2021 , 591, 1-8	9.3	7
150	Recent Advances in Bimetallic Cu-Based Nanocrystals for Electrocatalytic CO Conversion. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 2168-2184	4.5	4
149	Semiconductor nanocrystals possessing broadly size- and facet-dependent optical properties. <i>Journal of the Chinese Chemical Society</i> , 2021 , 68, 45-50	1.5	10
148	Formation of size-tunable CdS rhombic dodecahedra. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5992-5997	7.1	6
147	Surface-dependent band structure variations and bond-level deviations in Cu ₂ O. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 4200-4208	6.8	10
146	Growth of CeO nanocubes showing size-dependent optical and oxygen evolution reaction behaviors. <i>Dalton Transactions</i> , 2021 , 50, 15170-15175	4.3	4
145	Inactive CuO Cubes Become Highly Photocatalytically Active with Ag ₂ S Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11515-11523	9.5	20
144	Distinct Carrier Transport Properties Across Horizontally vs Vertically Oriented Heterostructures of 2D/3D Perovskites. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4969-4978	16.4	18
143	Germanium Possessing Facet-Specific Trap States and Carrier Lifetimes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13304-13309	3.8	10
142	Facet-Specific Photocatalytic Activity Enhancement of CuO Polyhedra Functionalized with 4-Ethynylaniline Resulting from Band Structure Tuning. <i>ACS Central Science</i> , 2020 , 6, 984-994	16.8	23
141	Mild Synthesis of Size-Tunable CeO ₂ Octahedra for Band Gap Variation. <i>Chemistry of Materials</i> , 2020 , 32, 2631-2638	9.6	23

140	Facet-Dependent Surface Trap States and Carrier Lifetimes of Silicon. <i>Nano Letters</i> , 2020 , 20, 1952-1958	11.5	12
139	GaAs wafers possessing facet-dependent electrical conductivity properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5456-5460	7.1	14
138	Synthesis of size-tunable zinc blende ZnS nanocrystals. <i>Journal of the Chinese Chemical Society</i> , 2020 , 67, 339-343	1.5	8
137	Size-Tunable Cu ₃ Se ₂ Nanocubes Possessing Surface Plasmon Resonance Properties for Photothermal Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8446-8452	5.6	10
136	Cu ₂ O polyhedra for aryl alkyne homocoupling reactions. <i>Catalysis Science and Technology</i> , 2020 , 10, 6948-6952	9.5	12
135	Large Facet-Specific Built-in Potential Differences Affecting Trap State Densities and Carrier Lifetimes of GaAs Wafers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21577-21582	3.8	10
134	Formation of Silver Rhombic Dodecahedra, Octahedra, and Cubes through Pseudomorphic Conversion of AgO Crystals with Nitroarene Reduction Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38039-38045	9.5	12
133	Facet-Dependent Optical Properties of Semiconductor Nanocrystals. <i>Small</i> , 2019 , 15, e1804726	11	43
132	Density Functional Theory Calculations Revealing Metal-like Band Structures and Work Function Variation for Ultrathin Gallium Arsenide (111) Surface Layers. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2316-2321	4.5	27
131	Shape-Tunable SrTiO ₃ Crystals Revealing Facet-Dependent Optical and Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13664-13671	3.8	39
130	Scalable Synthesis of Size-Tunable Small Cu ₂ O Nanocubes and Octahedra for Facet-Dependent Optical Characterization and Pseudomorphic Conversion to Cu Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10467-10476	8.3	32
129	Facet-dependent and interfacial plane-related photocatalytic behaviors of semiconductor nanocrystals and heterostructures. <i>Nano Today</i> , 2019 , 28, 100768	17.9	47
128	Facet-Dependent Photocatalytic Behaviors of ZnS-Decorated CuO Polyhedra Arising from Tunable Interfacial Band Alignment. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3582-3589	9.5	27
127	Photocatalytic Activity Suppression of Ag ₃ PO ₄ -Deposited Cu ₂ O Octahedra and Rhombic Dodecahedra. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2314-2320	3.8	17
126	Polyhedral Cu ₂ O Crystals for Diverse Aryl Alkyne Hydroboration Reactions. <i>Chemistry - A European Journal</i> , 2019 , 25, 1300-1303	4.8	17
125	Aqueous-Phase Synthesis of Size-Tunable PbSe Nanocubes at Room Temperature for Optical Property Characterization. <i>Chemistry - A European Journal</i> , 2019 , 25, 367-372	4.8	8
124	Polyhedral CuO to Cu pseudomorphic conversion for stereoselective alkyne semihydrogenation. <i>Chemical Science</i> , 2018 , 9, 2517-2524	9.4	23
123	Cu ₂ O Pseudomorphic Conversion to Cu Crystals for Diverse Nitroarene Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11071-11077	8.3	27

122	Modified Semiconductor Band Diagrams Constructed from Optical Characterization of Size-Tunable Cu ₂ O Cubes, Octahedra, and Rhombic Dodecahedra. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13027-13033	3.8	38
121	Photocatalytic Activity Suppression of CdS Nanoparticle-Decorated Cu ₂ O Octahedra and Rhombic Dodecahedra. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12944-12950	3.8	24
120	Facet-Dependent Electrical, Photocatalytic, and Optical Properties of Semiconductor Crystals and Their Implications for Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4-15	9.5	75
119	Systematic Shape Evolution of Gold Nanocrystals Achieved through Adjustment in the Amount of H ₂ AuCl ₄ Solution Used. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25118-25126	3.8	16
118	Germanium Wafers Possessing Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie</i> , 2018 , 130, 16394-16397	3.6	1
117	Germanium Wafers Possessing Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16162-16165	16.4	20
116	Density Functional Theory Calculations Revealing Metal-like Band Structures for Ultrathin Germanium (111) and (211) Surface Layers. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1972	4.5	32
115	Unusually Large Lattice Mismatch-Induced Optical Behaviors of Au@Cu ₂ O Core-Shell Nanocrystals with Noncentrally Located Cores. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800112	3.1	10
114	Strong Facet Effects on Interfacial Charge Transfer Revealed through the Examination of Photocatalytic Activities of Various Cu ₂ O/ZnO Heterostructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1604635	15.6	89
113	Diffraction data of core-shell nanoparticles from an X-ray free electron laser. <i>Scientific Data</i> , 2017 , 4, 170048	8.2	4
112	Au-Cu core-shell nanocube-catalyzed click reactions for efficient synthesis of diverse triazoles. <i>Nanoscale</i> , 2017 , 9, 6970-6974	7.7	17
111	Tracing the Surfactant-Mediated Nucleation, Growth, and Superpacking of Gold Supercrystals Using Time and Spatially Resolved X-ray Scattering. <i>Langmuir</i> , 2017 , 33, 3253-3261	4	13
110	Facet-Dependent Electrical Conductivity Properties of Silver Oxide Crystals. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 293-297	4.5	42
109	Silicon Wafers with Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie</i> , 2017 , 129, 15541-15545	3.6	8
108	Silicon Wafers with Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15339-15343	16.4	42
107	Synthesis of AgPO Crystals with Tunable Shapes for Facet-Dependent Optical Property, Photocatalytic Activity, and Electrical Conductivity Examinations. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39086-39093	9.5	72
106	Aqueous-Phase Synthesis of Size-Tunable Copper Nanocubes for Efficient Aryl Alkyne Hydroboration. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2318-2322	4.5	20
105	Metal-like Band Structures of Ultrathin Si {111} and {112} Surface Layers Revealed through Density Functional Theory Calculations. <i>Chemistry - A European Journal</i> , 2017 , 23, 11866-11871	4.8	42

104	Facet-dependent photocatalytic properties of Cu ₂ O crystals probed by using electron, hole and radical scavengers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15116-15123	13	118
103	Synthesis of Diverse Ag ₂ O Crystals and Their Facet-Dependent Photocatalytic Activity Examination. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19672-9	9.5	63
102	Novel silica stabilization method for the analysis of fine nanocrystals using coherent X-ray diffraction imaging. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 953-8	2.4	9
101	Facet-Dependent and Light-Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold-Palladium Core-Shell Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7222-6	16.4	77
100	Seed-Mediated Growth of Silver Nanocubes in Aqueous Solution with Tunable Size and Their Conversion to Au Nanocages with Efficient Photothermal Property. <i>Chemistry - A European Journal</i> , 2016 , 22, 2326-32	4.8	33
99	Photothermal effects from Au-Cu ₂ O core-shell nanocubes, octahedra, and nanobars with broad near-infrared absorption tunability. <i>Nanoscale</i> , 2016 , 8, 965-72	7.7	52
98	Facet-Dependent Electrical Conductivity Properties of PbS Nanocrystals. <i>Chemistry of Materials</i> , 2016 , 28, 1574-1580	9.6	51
97	Facet-Dependent Optical and Photothermal Properties of Cu ₂ O Core-Shell Nanocrystals. <i>Chemistry of Materials</i> , 2016 , 28, 5140-5146	9.6	44
96	Synthesis of Ultrasmall Cu ₂ O Nanocubes and Octahedra with Tunable Sizes for Facet-Dependent Optical Property Examination. <i>Small</i> , 2016 , 12, 3530-4	11	61
95	Facet-Dependent and Light-Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold-Palladium Core-Shell Nanocatalysts. <i>Angewandte Chemie</i> , 2016 , 128, 7338-7342	3.6	15
94	Aqueous Phase Synthesis of Au-Cu Core-Shell Nanocubes and Octahedra with Tunable Sizes and Noncentrally Located Cores. <i>Chemistry of Materials</i> , 2016 , 28, 3073-3079	9.6	57
93	Highly Facet-Dependent Photocatalytic Properties of Cu ₂ O Crystals Established through the Formation of Au-Decorated Cu ₂ O Heterostructures. <i>Chemistry - A European Journal</i> , 2016 , 22, 12548-56	4.8	76
92	Facet-Dependent Optical Properties Revealed through Investigation of Polyhedral Au-Cu ₂ O and Bimetallic Core-Shell Nanocrystals. <i>Small</i> , 2015 , 11, 2716-26	11	48
91	Facet-dependent electrical conductivity properties of Cu ₂ O crystals. <i>Nano Letters</i> , 2015 , 15, 2155-60	11.5	167
90	Formation of supercrystals through self-assembly of polyhedral nanocrystals. <i>Nano Today</i> , 2015 , 10, 81-92	17.9	43
89	Shape-Dependent Light Harvesting of 3D Gold Nanocrystals on Bulk Heterojunction Solar Cells: Plasmonic or Optical Scattering Effect?. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7554-7564	3.8	31
88	Facet-dependent surface plasmon resonance properties of Au-Cu ₂ O core-shell nanocubes, octahedra, and rhombic dodecahedra. <i>Small</i> , 2015 , 11, 195-201	11	47
87	Facet-Dependent Catalytic Activity of Palladium Nanocrystals in Tsuji-Miyaura Allylic Amination Reactions with Product Selectivity. <i>ChemCatChem</i> , 2015 , 7, 1813-1817	5.2	17

86	Synthesis of Small Au-Ag Core-Shell Cubes, Cuboctahedra, and Octahedra with Size Tunability and Their Optical and Photothermal Properties. <i>Small</i> , 2015 , 11, 6018-25	11	23
85	Facet-dependent optical properties of Pd-Cu ₂ O core-shell nanocubes and octahedra. <i>Nanoscale</i> , 2015 , 7, 11135-41	7.7	51
84	Direct Synthesis of Palladium Nanocrystals in Aqueous Solution with Systematic Shape Evolution. <i>Langmuir</i> , 2015 , 31, 6538-45	4	39
83	Direct synthesis of size-tunable PbS nanocubes and octahedra and the pH effect on crystal shape control. <i>Dalton Transactions</i> , 2015 , 44, 15088-94	4.3	21
82	Surfactant-directed fabrication of supercrystals from the assembly of polyhedral Au-Pd core-shell nanocrystals and their electrical and optical properties. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2265-75	16.4	41
81	Facet-dependent optical properties of polyhedral Au-Cu ₂ O core-shell nanocrystals. <i>Nanoscale</i> , 2014 , 6, 4316-24	7.7	74
80	Aqueous phase synthesis of Au-Ag core-shell nanocrystals with tunable shapes and their optical and catalytic properties. <i>Journal of the American Chemical Society</i> , 2014 , 136, 396-404	16.4	131
79	Control of regioselectivity over gold nanocrystals of different surfaces for the synthesis of 1,4-disubstituted triazole through the click reaction. <i>Chemistry - A European Journal</i> , 2014 , 20, 15991-7	4.8	41
78	Direct formation of small Cu ₂ O nanocubes, octahedra, and octapods for efficient synthesis of triazoles. <i>Nanoscale</i> , 2014 , 6, 8704-9	7.7	90
77	Facet-dependent properties of polyhedral nanocrystals. <i>Chemical Communications</i> , 2014 , 50, 1634-44	5.8	116
76	Facile synthesis of Au-Pd core-shell nanocrystals with systematic shape evolution and tunable size for plasmonic property examination. <i>Nanoscale</i> , 2014 , 6, 7656-65	7.7	36
75	Formation of Free-Standing Supercrystals from the Assembly of Polyhedral Gold Nanocrystals by Surfactant Diffusion in the Solution. <i>Chemistry of Materials</i> , 2014 , 26, 4882-4888	9.6	25
74	Sequential cation exchange generated superlattice nanowires forming multiple p-n heterojunctions. <i>ACS Nano</i> , 2014 , 8, 9422-6	16.7	29
73	The influence of shell thickness of Au@TiO ₂ core-shell nanoparticles on the plasmonic enhancement effect in dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 7953-62	7.7	106
72	Seed-mediated growth of ultralong gold nanorods and nanowires with a wide range of length tunability. <i>Langmuir</i> , 2013 , 29, 10491-7	4	51
71	Polyhedral Au-Pd core-shell nanocrystals as highly spectrally responsive and reusable hydrogen sensors in aqueous solution. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12709-13	16.4	67
70	Formation of diverse supercrystals from self-assembly of a variety of polyhedral gold nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2684-93	16.4	87
69	Fabrication of Diverse Cu ₂ O Nanoframes through Face-Selective Etching. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24611-24617	3.8	43

68	Facet-dependent catalytic activity of Cu ₂ O nanocrystals in the one-pot synthesis of 1,2,3-triazoles by multicomponent click reactions. <i>Chemistry - A European Journal</i> , 2013 , 19, 16036-43	4.8	122
67	Formation of Ag ₂ S cages from polyhedral Ag ₂ O nanocrystals and their electrochemical properties. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1847-53	4.5	20
66	Investigation of facet effects on the catalytic activity of Cu ₂ O nanocrystals for efficient regioselective synthesis of 3,5-disubstituted isoxazoles. <i>Nanoscale</i> , 2013 , 5, 12494-501	7.7	58
65	Polyhedral AuPd CoreShell Nanocrystals as Highly Spectrally Responsive and Reusable Hydrogen Sensors in Aqueous Solution. <i>Angewandte Chemie</i> , 2013 , 125, 12941-12945	3.6	5
64	Achieving polyhedral nanocrystal growth with systematic shape control. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8081	13	52
63	Shape-Controlled Synthesis of Polyhedral Nanocrystals and Their Facet-Dependent Properties. <i>Advanced Functional Materials</i> , 2012 , 22, 14-24	15.6	187
62	Aqueous phase synthesis of palladium tripod nanostructures for Sonogashira coupling reactions. <i>Langmuir</i> , 2012 , 28, 11258-64	4	44
61	Fast synthesis of PbS nanocrystals in aqueous solution with shape evolution from cubic to octahedral structures and their assembled structures. <i>Chemistry - A European Journal</i> , 2012 , 18, 14473-8	4.8	27
60	Synthesis of Cu ₂ O nanocrystals from cubic to rhombic dodecahedral structures and their comparative photocatalytic activity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1261-7	16.4	585
59	Plasmonic-enhanced performance for polymer solar cells prepared with inverted structures. <i>Applied Physics Letters</i> , 2012 , 101, 193902	3.4	45
58	Facet-Dependent Catalytic Activity of Gold Nanocubes, Octahedra, and Rhombic Dodecahedra toward 4-Nitroaniline Reduction. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23757-23763	3.8	179
57	Solvothermal synthesis of zincblende and wurtzite CuInS ₂ nanocrystals and their photovoltaic application. <i>Langmuir</i> , 2012 , 28, 8496-501	4	105
56	Investigation of Relative Stability of Different Facets of Ag ₂ O Nanocrystals through Face-Selective Etching. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17768-17773	3.8	67
55	Fabrication of Au-Pd core-shell heterostructures with systematic shape evolution using octahedral nanocrystal cores and their catalytic activity. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19993-20000	16.4	183
54	Surface plasmonic effects of metallic nanoparticles on the performance of polymer bulk heterojunction solar cells. <i>ACS Nano</i> , 2011 , 5, 959-67	16.7	837
53	Cu ₂ O Nanocrystal-Templated Growth of Cu ₂ S Nanocages with Encapsulated Au Nanoparticles and In-Situ Transmission X-ray Microscopy Study. <i>Advanced Functional Materials</i> , 2011 , 21, 792-797	15.6	127
52	Seed-mediated and iodide-assisted synthesis of gold nanocrystals with systematic shape evolution from rhombic dodecahedral to octahedral structures. <i>Chemistry - A European Journal</i> , 2011 , 17, 9746-52	4.8	80
51	Facet-dependent and Au nanocrystal-enhanced electrical and photocatalytic properties of Au-Cu ₂ O core-shell heterostructures. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1052-7	16.4	217

50	A comparative study of gold nanocubes, octahedra, and rhombic dodecahedra as highly sensitive SERS substrates. <i>Inorganic Chemistry</i> , 2011 , 50, 8106-11	5.1	102
49	Investigation of the Effects of Polyhedral Gold Nanocrystal Morphology and Facets on the Formation of Au@Cu ₂ O Core-Shell Heterostructures. <i>Chemistry of Materials</i> , 2011 , 23, 2677-2684	9.6	94
48	Au nanocube-directed fabrication of Au-Pd core-shell nanocrystals with tetrahedral, concave octahedral, and octahedral structures and their electrocatalytic activity. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14546-53	16.4	344
47	Seed-mediated synthesis of gold nanocrystals with systematic shape evolution from cubic to trisoctahedral and rhombic dodecahedral structures. <i>Langmuir</i> , 2010 , 26, 12307-13	4	245
46	Morphologically controlled synthesis of Cu ₂ O nanocrystals and their properties. <i>Nano Today</i> , 2010 , 5, 106-116	17.9	263
45	Double layer micellar stabilization of gold nanocrystals by greener ionic liquid 1-butyl-3-methylimidazolium lauryl sulfate. <i>Materials Letters</i> , 2010 , 64, 1109-1112	3.3	24
44	Synthesis of Ag ₂ O nanocrystals with systematic shape evolution from cubic to hexapod structures and their surface properties. <i>Chemistry - A European Journal</i> , 2010 , 16, 14167-74	4.8	78
43	Plasmonic-enhanced polymer photovoltaic devices incorporating solution-processable metal nanoparticles. <i>Applied Physics Letters</i> , 2009 , 95, 013305	3.4	250
42	Growth of Core-Shell Ga _{0.5} In _{0.5} N Nanostructures via a Conventional Reflux Method and the Formation of Hollow GaN Spheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3625-3630	3.8	14
41	Formation of Hollow Gallium Nitride Spheres via Silica Sphere Templates. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 925-929	3.8	23
40	Seed-mediated synthesis of palladium nanorods and branched nanocrystals and their use as recyclable Suzuki coupling reaction catalysts. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9114-21	16.4	249
39	Au nanocrystal-directed growth of Au-Cu ₂ O core-shell heterostructures with precise morphological control. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17871-8	16.4	220
38	Formation of Hexabranched GeO ₂ Nanoparticles via a Reverse Micelle System. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6056-6060	3.8	27
37	Synthesis of Submicrometer-Sized Cu ₂ O Crystals with Morphological Evolution from Cubic to Hexapod Structures and Their Comparative Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14159-14164	3.8	338
36	Seed-Mediated Synthesis of Branched Gold Nanocrystals Derived from the Side Growth of Pentagonal Bipyramids and the Formation of Gold Nanostars. <i>Chemistry of Materials</i> , 2009 , 21, 110-114	9.6	181
35	Hydrothermal Synthesis of Monodispersed Octahedral Gold Nanocrystals with Five Different Size Ranges and Their Self-Assembled Structures. <i>Chemistry of Materials</i> , 2008 , 20, 7570-7574	9.6	145
34	Facile Synthesis of Cu ₂ O Nanocrystals with Systematic Shape Evolution from Cubic to Octahedral Structures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18355-18360	3.8	202
33	Fabrication of truncated rhombic dodecahedral Cu ₂ O nanocages and nanoframes by particle aggregation and acidic etching. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12815-20	16.4	269

32	Formation of indium nitride nanorods within mesoporous silica SBA-15. <i>Inorganic Chemistry</i> , 2008 , 47, 3135-9	5.1	13
31	Reply to Comment on Spin-Coated Periodic Mesoporous Organosilica Thin Films with Molecular-Scale Order within the Organosilica Wall. <i>Chemistry of Materials</i> , 2008 , 20, 4532-4532	9.6	1
30	Formation of Short In ₂ O ₃ Nanorod Arrays Within Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2304-2307	3.8	31
29	Hydrothermal Synthesis of Free-Floating Au ₂ S Nanoparticle Superstructures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11661-11666	3.8	26
28	The growth of ultralong and highly blue luminescent gallium oxide nanowires and nanobelts, and direct horizontal nanowire growth on substrates. <i>Nanotechnology</i> , 2008 , 19, 155604	3.4	28
27	In situ fluorescence probing of the chemical and structural changes during formation of hexagonal phase cetyltrimethylammonium bromide and lamellar phase CTAB/Poly(dodecylmethacrylate) sol-gel silica thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 300-310	2.3	10
26	Spin-Coated Periodic Mesoporous Organosilica Thin Films with Molecular-Scale Order within the Organosilica Wall. <i>Chemistry of Materials</i> , 2007 , 19, 5986-5990	9.6	22
25	Investigation of the Growth Process of Gold Nanoplates Formed by Thermal Aqueous Solution Approach and the Synthesis of Ultra-Small Gold Nanoplates. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2533-2538	3.8	96
24	Growth of Ultralong ZnO Nanowires on Silicon Substrates by Vapor Transport and Their Use as Recyclable Photocatalysts. <i>Chemistry of Materials</i> , 2007 , 19, 5143-5147	9.6	253
23	Seed-Mediated Synthesis of Monodispersed Cu ₂ O Nanocubes with Five Different Size Ranges from 40 to 420 nm. <i>Advanced Functional Materials</i> , 2007 , 17, 3773-3780	15.6	318
22	Synthesis and optical properties of 1-alkyl-3-methylimidazolium lauryl sulfate ionic liquids. <i>Journal of Fluorescence</i> , 2007 , 17, 613-8	2.4	34
21	Direct High-Yield Synthesis of High Aspect Ratio Gold Nanorods. <i>Crystal Growth and Design</i> , 2007 , 7, 831-835	3.5	89
20	Gold-catalyzed low-temperature growth of cadmium oxide nanowires by vapor transport. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13717-21	3.4	103
19	High-density assembly of gold nanoparticles on multiwalled carbon nanotubes using 1-pyrenemethylamine as interlinker. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2031-6	3.4	175
18	Direct synthesis of branched gold nanocrystals and their transformation into spherical nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19291-4	3.4	101
17	Thermal aqueous solution approach for the synthesis of triangular and hexagonal gold nanoplates with three different size ranges. <i>Inorganic Chemistry</i> , 2006 , 45, 808-13	5.1	163
16	Formation of arrays of gallium nitride nanorods within mesoporous silica SBA-15. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17842-7	3.4	51
15	Seed-Mediated Synthesis of High Aspect Ratio Gold Nanorods with Nitric Acid. <i>Chemistry of Materials</i> , 2005 , 17, 6447-6451	9.6	140

14	Hydrothermal synthesis of ZnO microspheres and hexagonal microrods with sheetlike and platelike nanostructures. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20115-21	3.4	212
13	Synthesis of branched gold nanocrystals by a seeding growth approach. <i>Langmuir</i> , 2005 , 21, 2012-6	4	187
12	Formation of titanium nitride nanoparticles within mesoporous silica SBA-15. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4404-9	3.4	49
11	Synthesis of highly faceted pentagonal- and hexagonal-shaped gold nanoparticles with controlled sizes by sodium dodecyl sulfate. <i>Langmuir</i> , 2004 , 20, 7820-4	4	126
10	Strategies for spatially separating photoactive molecules in mesostructured sol-gel silicate films. <i>Studies in Surface Science and Catalysis</i> , 2003 , 413-418	1.8	
9	Hexagonal to Lamellar Mesostructural Changes in Silicate Films Caused by Organic Additives. <i>Chemistry of Materials</i> , 2002 , 14, 5153-5162	9.6	29
8	Catalytic Growth of Zinc Oxide Nanowires by Vapor Transport. <i>Advanced Materials</i> , 2001 , 13, 113-116	24	2380
7	Ag nanowire formation within mesoporous silica. <i>Chemical Communications</i> , 2000 , 1063-1064	5.8	326
6	In Situ Luminescence Probing of the Chemical and Structural Changes during Formation of Dip-Coated Lamellar Phase Sodium Dodecyl Sulfate Sol-Gel Thin Films. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3739-3745	16.4	82
5	In Situ Fluorescence Probing of Molecular Mobility and Chemical Changes during Formation of Dip-Coated Sol-Gel Silica Thin Films. <i>Chemistry of Materials</i> , 2000 , 12, 231-235	9.6	50
4	In Situ Probing by Fluorescence Spectroscopy of the Formation of Continuous Highly-Ordered Lamellar-Phase Mesostructured Thin Films. <i>Langmuir</i> , 1998 , 14, 7331-7333	4	77
3	Continuous formation of supported cubic and hexagonal mesoporous films by sol-gel dip-coating. <i>Nature</i> , 1997 , 389, 364-368	50.4	1281
2	CsPbBr ₃ and CsPbI ₃ rhombic dodecahedra and nanocubes displaying facet-dependent optical properties. <i>Inorganic Chemistry Frontiers</i> ,	6.8	5
1	Origin and manifestation of semiconductor facet effects. <i>Journal of the Chinese Chemical Society</i> ,	1.5	1