

# Michael H Huang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5099769/michael-h-huang-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Catalytic Growth of Zinc Oxide Nanowires by Vapor Transport. <i>Advanced Materials</i> , <b>2001</b> , 13, 113-116	24	2380
156	Continuous formation of supported cubic and hexagonal mesoporous films by sol-gel dip-coating. <i>Nature</i> , <b>1997</b> , 389, 364-368	50.4	1281
155	Surface plasmonic effects of metallic nanoparticles on the performance of polymer bulk heterojunction solar cells. <i>ACS Nano</i> , <b>2011</b> , 5, 959-67	16.7	837
154	Synthesis of Cu <sub>2</sub> O nanocrystals from cubic to rhombic dodecahedral structures and their comparative photocatalytic activity. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 1261-7	16.4	585
153	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> , <b>2010</b> , 132, 14546-53	16.4	344
152	Synthesis of Submicrometer-Sized Cu <sub>2</sub> O Crystals with Morphological Evolution from Cubic to Hexapod Structures and Their Comparative Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 14159-14164	3.8	338
151	Ag nanowire formation within mesoporous silica. <i>Chemical Communications</i> , <b>2000</b> , 1063-1064	5.8	326
150	Seed-Mediated Synthesis of Monodispersed Cu <sub>2</sub> O Nanocubes with Five Different Size Ranges from 40 to 420 nm. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3773-3780	15.6	318
149	Fabrication of truncated rhombic dodecahedral Cu <sub>2</sub> O nanocages and nanoframes by particle aggregation and acidic etching. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12815-20	16.4	269
148	Morphologically controlled synthesis of Cu <sub>2</sub> O nanocrystals and their properties. <i>Nano Today</i> , <b>2010</b> , 5, 106-116	17.9	263
147	Growth of Ultralong ZnO Nanowires on Silicon Substrates by Vapor Transport and Their Use as Recyclable Photocatalysts. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5143-5147	9.6	253
146	Plasmonic-enhanced polymer photovoltaic devices incorporating solution-processable metal nanoparticles. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 013305	3.4	250
145	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> , <b>2009</b> , 131, 9114-21	16.4	249
144	Seed-mediated synthesis of gold nanocrystals with systematic shape evolution from cubic to trisoctahedral and rhombic dodecahedral structures. <i>Langmuir</i> , <b>2010</b> , 26, 12307-13	4	245
143	Au nanocrystal-directed growth of Au-Cu <sub>2</sub> O core-shell heterostructures with precise morphological control. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17871-8	16.4	220
142	Facet-dependent and Au nanocrystal-enhanced electrical and photocatalytic properties of Au-Cu <sub>2</sub> O core-shell heterostructures. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1052-7	16.4	217
141	Hydrothermal synthesis of ZnO microspheres and hexagonal microrods with sheetlike and platelike nanostructures. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20115-21	3.4	212

140	Facile Synthesis of Cu <sub>2</sub> O Nanocrystals with Systematic Shape Evolution from Cubic to Octahedral Structures. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18355-18360	3.8	202
139	Shape-Controlled Synthesis of Polyhedral Nanocrystals and Their Facet-Dependent Properties. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 14-24	15.6	187
138	Synthesis of branched gold nanocrystals by a seeding growth approach. <i>Langmuir</i> , <b>2005</b> , 21, 2012-6	4	187
137	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> , <b>2011</b> , 133, 19993-20000	16.4	183
136	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> , <b>2009</b> , 21, 110-114	9.6	181
135	Facet-Dependent Catalytic Activity of Gold Nanocubes, Octahedra, and Rhombic Dodecahedra toward 4-Nitroaniline Reduction. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 23757-23763	3.8	179
134	High-density assembly of gold nanoparticles on multiwalled carbon nanotubes using 1-pyrenemethylamine as interlinker. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 2031-6	3.4	175
133	Facet-dependent electrical conductivity properties of Cu <sub>2</sub> O crystals. <i>Nano Letters</i> , <b>2015</b> , 15, 2155-60	11.5	167
132	Thermal aqueous solution approach for the synthesis of triangular and hexagonal gold nanoplates with three different size ranges. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 808-13	5.1	163
131	Hydrothermal Synthesis of Monodispersed Octahedral Gold Nanocrystals with Five Different Size Ranges and Their Self-Assembled Structures. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 7570-7574	9.6	145
130	Seed-Mediated Synthesis of High Aspect Ratio Gold Nanorods with Nitric Acid. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6447-6451	9.6	140
129	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> , <b>2014</b> , 136, 396-404	16.4	131
128	Cu <sub>2</sub> O Nanocrystal-Templated Growth of Cu <sub>2</sub> S Nanocages with Encapsulated Au Nanoparticles and In-Situ Transmission X-ray Microscopy Study. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 792-797	15.6	127
127	Synthesis of highly faceted pentagonal- and hexagonal-shaped gold nanoparticles with controlled sizes by sodium dodecyl sulfate. <i>Langmuir</i> , <b>2004</b> , 20, 7820-4	4	126
126	Facet-dependent catalytic activity of Cu <sub>2</sub> O nanocrystals in the one-pot synthesis of 1,2,3-triazoles by multicomponent click reactions. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 16036-43	4.8	122
125	Facet-dependent photocatalytic properties of Cu <sub>2</sub> O crystals probed by using electron, hole and radical scavengers. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15116-15123	13	118
124	Facet-dependent properties of polyhedral nanocrystals. <i>Chemical Communications</i> , <b>2014</b> , 50, 1634-44	5.8	116
123	The influence of shell thickness of Au@TiO <sub>2</sub> core-shell nanoparticles on the plasmonic enhancement effect in dye-sensitized solar cells. <i>Nanoscale</i> , <b>2013</b> , 5, 7953-62	7.7	106

122	Solvothermal synthesis of zincblende and wurtzite CuInS <sub>2</sub> nanocrystals and their photovoltaic application. <i>Langmuir</i> , <b>2012</b> , 28, 8496-501	4	105
121	Gold-catalyzed low-temperature growth of cadmium oxide nanowires by vapor transport. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 13717-21	3.4	103
120	A comparative study of gold nanocubes, octahedra, and rhombic dodecahedra as highly sensitive SERS substrates. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 8106-11	5.1	102
119	Direct synthesis of branched gold nanocrystals and their transformation into spherical nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19291-4	3.4	101
118	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> , <b>2007</b> , 111, 2533-2538	3.8	96
117	Investigation of the Effects of Polyhedral Gold Nanocrystal Morphology and Facets on the Formation of Au@Cu <sub>2</sub> O Core/Shell Heterostructures. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2677-2684	9.6	94
116	Direct formation of small Cu <sub>2</sub> O nanocubes, octahedra, and octapods for efficient synthesis of triazoles. <i>Nanoscale</i> , <b>2014</b> , 6, 8704-9	7.7	90
115	Strong Facet Effects on Interfacial Charge Transfer Revealed through the Examination of Photocatalytic Activities of Various Cu <sub>2</sub> O/ZnO Heterostructures. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604635	15.6	89
114	Direct High-Yield Synthesis of High Aspect Ratio Gold Nanorods. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 831-835	3.5	89
113	Formation of diverse supercrystals from self-assembly of a variety of polyhedral gold nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 2684-93	16.4	87
112	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> , <b>2000</b> , 122, 3739-3745	16.4	82
111	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> , <b>2011</b> , 17, 9746-52	4.8	80
110	Synthesis of Ag <sub>2</sub> O nanocrystals with systematic shape evolution from cubic to hexapod structures and their surface properties. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 14167-74	4.8	78
109	Facet-Dependent and Light-Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold-Palladium Core-Shell Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7222-6	16.4	77
108	In Situ Probing by Fluorescence Spectroscopy of the Formation of Continuous Highly-Ordered Lamellar-Phase Mesostructured Thin Films. <i>Langmuir</i> , <b>1998</b> , 14, 7331-7333	4	77
107	Highly Facet-Dependent Photocatalytic Properties of Cu <sub>2</sub> O Crystals Established through the Formation of Au-Decorated Cu <sub>2</sub> O Heterostructures. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 12548-56	4.8	76
106	Facet-Dependent Electrical, Photocatalytic, and Optical Properties of Semiconductor Crystals and Their Implications for Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 4-15	9.5	75
105	Facet-dependent optical properties of polyhedral Au-Cu <sub>2</sub> O core-shell nanocrystals. <i>Nanoscale</i> , <b>2014</b> , 6, 4316-24	7.7	74

104	Synthesis of AgPO Crystals with Tunable Shapes for Facet-Dependent Optical Property, Photocatalytic Activity, and Electrical Conductivity Examinations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 39086-39093	9.5	72
103	Polyhedral Au-Pd core-shell nanocrystals as highly spectrally responsive and reusable hydrogen sensors in aqueous solution. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12709-13	16.4	67
102	Investigation of Relative Stability of Different Facets of Ag <sub>2</sub> O Nanocrystals through Face-Selective Etching. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 17768-17773	3.8	67
101	Synthesis of Diverse Ag <sub>2</sub> O Crystals and Their Facet-Dependent Photocatalytic Activity Examination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19672-9	9.5	63
100	Synthesis of Ultrasmall Cu <sub>2</sub> O Nanocubes and Octahedra with Tunable Sizes for Facet-Dependent Optical Property Examination. <i>Small</i> , <b>2016</b> , 12, 3530-4	11	61
99	Investigation of facet effects on the catalytic activity of Cu <sub>2</sub> O nanocrystals for efficient regioselective synthesis of 3,5-disubstituted isoxazoles. <i>Nanoscale</i> , <b>2013</b> , 5, 12494-501	7.7	58
98	Aqueous Phase Synthesis of Au@Cu Core-Shell Nanocubes and Octahedra with Tunable Sizes and Noncentrally Located Cores. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3073-3079	9.6	57
97	Photothermal effects from Au-Cu <sub>2</sub> O core-shell nanocubes, octahedra, and nanobars with broad near-infrared absorption tunability. <i>Nanoscale</i> , <b>2016</b> , 8, 965-72	7.7	52
96	Achieving polyhedral nanocrystal growth with systematic shape control. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8081	13	52
95	Facet-Dependent Electrical Conductivity Properties of PbS Nanocrystals. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1574-1580	9.6	51
94	Seed-mediated growth of ultralong gold nanorods and nanowires with a wide range of length tunability. <i>Langmuir</i> , <b>2013</b> , 29, 10491-7	4	51
93	Facet-dependent optical properties of Pd-Cu <sub>2</sub> O core-shell nanocubes and octahedra. <i>Nanoscale</i> , <b>2015</b> , 7, 11135-41	7.7	51
92	Formation of arrays of gallium nitride nanorods within mesoporous silica SBA-15. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17842-7	3.4	51
91	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> , <b>2000</b> , 12, 231-235	9.6	50
90	Formation of titanium nitride nanoparticles within mesoporous silica SBA-15. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 4404-9	3.4	49
89	Facet-Dependent Optical Properties Revealed through Investigation of Polyhedral Au-Cu <sub>2</sub> O and Bimetallic Core-Shell Nanocrystals. <i>Small</i> , <b>2015</b> , 11, 2716-26	11	48
88	Facet-dependent surface plasmon resonance properties of Au-Cu <sub>2</sub> O core-shell nanocubes, octahedra, and rhombic dodecahedra. <i>Small</i> , <b>2015</b> , 11, 195-201	11	47
87	Facet-dependent and interfacial plane-related photocatalytic behaviors of semiconductor nanocrystals and heterostructures. <i>Nano Today</i> , <b>2019</b> , 28, 100768	17.9	47

86	Plasmonic-enhanced performance for polymer solar cells prepared with inverted structures. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 193902	3.4	45
85	Aqueous phase synthesis of palladium tripod nanostructures for Sonogashira coupling reactions. <i>Langmuir</i> , <b>2012</b> , 28, 11258-64	4	44
84	Facet-Dependent Optical and Photothermal Properties of [email protected] Cu <sub>2</sub> O Core/Shell Nanocrystals. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5140-5146	9.6	44
83	Facet-Dependent Optical Properties of Semiconductor Nanocrystals. <i>Small</i> , <b>2019</b> , 15, e1804726	11	43
82	Formation of supercrystals through self-assembly of polyhedral nanocrystals. <i>Nano Today</i> , <b>2015</b> , 10, 81-92	9.9	43
81	Fabrication of Diverse Cu <sub>2</sub> O Nanoframes through Face-Selective Etching. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 24611-24617	3.8	43
80	Facet-Dependent Electrical Conductivity Properties of Silver Oxide Crystals. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 293-297	4.5	42
79	Silicon Wafers with Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15339-15343	16.4	42
78	Metal-like Band Structures of Ultrathin Si {111} and {112} Surface Layers Revealed through Density Functional Theory Calculations. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 11866-11871	4.8	42
77	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> , <b>2014</b> , 20, 15991-7	4.8	41
76	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> , <b>2015</b> , 137, 2265-75	16.4	41
75	Shape-Tunable SrTiO <sub>3</sub> Crystals Revealing Facet-Dependent Optical and Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 13664-13671	3.8	39
74	Direct Synthesis of Palladium Nanocrystals in Aqueous Solution with Systematic Shape Evolution. <i>Langmuir</i> , <b>2015</b> , 31, 6538-45	4	39
73	Modified Semiconductor Band Diagrams Constructed from Optical Characterization of Size-Tunable Cu <sub>2</sub> O Cubes, Octahedra, and Rhombic Dodecahedra. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 13027-13033	3.8	38
72	Facile synthesis of Au-Pd core-shell nanocrystals with systematic shape evolution and tunable size for plasmonic property examination. <i>Nanoscale</i> , <b>2014</b> , 6, 7656-65	7.7	36
71	Synthesis and optical properties of 1-alkyl-3-methylimidazolium lauryl sulfate ionic liquids. <i>Journal of Fluorescence</i> , <b>2007</b> , 17, 613-8	2.4	34
70	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> , <b>2016</b> , 22, 2326-32	4.8	33
69	Scalable Synthesis of Size-Tunable Small Cu <sub>2</sub> O Nanocubes and Octahedra for Facet-Dependent Optical Characterization and Pseudomorphic Conversion to Cu Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10467-10476	8.3	32

68	Density Functional Theory Calculations Revealing Metal-like Band Structures for Ultrathin Germanium (111) and (211) Surface Layers. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 1972	4.5	32
67	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> , <b>2015</b> , 119, 7554-7564	3.8	31
66	Formation of Short In <sub>2</sub> O <sub>3</sub> Nanorod Arrays Within Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 2304-2307	3.8	31
65	Sequential cation exchange generated superlattice nanowires forming multiple p-n heterojunctions. <i>ACS Nano</i> , <b>2014</b> , 8, 9422-6	16.7	29
64	Hexagonal to Lamellar Mesostructural Changes in Silicate Films Caused by Organic Additives. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 5153-5162	9.6	29
63	The growth of ultralong and highly blue luminescent gallium oxide nanowires and nanobelts, and direct horizontal nanowire growth on substrates. <i>Nanotechnology</i> , <b>2008</b> , 19, 155604	3.4	28
62	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> , <b>2019</b> , 14, 2316-2321	4.5	27
61	Cu <sub>2</sub> O Pseudomorphic Conversion to Cu Crystals for Diverse Nitroarene Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11071-11077	8.3	27
60	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> , <b>2012</b> , 18, 14473-8	4.8	27
59	Formation of Hexabranched GeO <sub>2</sub> Nanoparticles via a Reverse Micelle System. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 6056-6060	3.8	27
58	Facet-Dependent Photocatalytic Behaviors of ZnS-Decorated CuO Polyhedra Arising from Tunable Interfacial Band Alignment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3582-3589	9.5	27
57	Hydrothermal Synthesis of Free-Floating Au <sub>2</sub> S Nanoparticle Superstructures. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11661-11666	3.8	26
56	Formation of Free-Standing Supercrystals from the Assembly of Polyhedral Gold Nanocrystals by Surfactant Diffusion in the Solution. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4882-4888	9.6	25
55	Photocatalytic Activity Suppression of CdS Nanoparticle-Decorated Cu <sub>2</sub> O Octahedra and Rhombic Dodecahedra. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12944-12950	3.8	24
54	Double layer micellar stabilization of gold nanocrystals by greener ionic liquid 1-butyl-3-methylimidazolium lauryl sulfate. <i>Materials Letters</i> , <b>2010</b> , 64, 1109-1112	3.3	24
53	Facet-Specific Photocatalytic Activity Enhancement of CuO Polyhedra Functionalized with 4-Ethynylaniline Resulting from Band Structure Tuning. <i>ACS Central Science</i> , <b>2020</b> , 6, 984-994	16.8	23
52	Mild Synthesis of Size-Tunable CeO <sub>2</sub> Octahedra for Band Gap Variation. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2631-2638	9.6	23
51	Polyhedral CuO to Cu pseudomorphic conversion for stereoselective alkyne semihydrogenation. <i>Chemical Science</i> , <b>2018</b> , 9, 2517-2524	9.4	23

50	Synthesis of Small Au-Ag Core-Shell Cubes, Cuboctahedra, and Octahedra with Size Tunability and Their Optical and Photothermal Properties. <i>Small</i> , <b>2015</b> , 11, 6018-25	11	23
49	Formation of Hollow Gallium Nitride Spheres via Silica Sphere Templates. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 925-929	3.8	23
48	Spin-Coated Periodic Mesoporous Organosilica Thin Films with Molecular-Scale Order within the Organosilica Wall. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5986-5990	9.6	22
47	Direct synthesis of size-tunable PbS nanocubes and octahedra and the pH effect on crystal shape control. <i>Dalton Transactions</i> , <b>2015</b> , 44, 15088-94	4.3	21
46	Formation of Ag <sub>2</sub> S cages from polyhedral Ag <sub>2</sub> O nanocrystals and their electrochemical properties. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 1847-53	4.5	20
45	Aqueous-Phase Synthesis of Size-Tunable Copper Nanocubes for Efficient Aryl Alkyne Hydroboration. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 2318-2322	4.5	20
44	Inactive CuO Cubes Become Highly Photocatalytically Active with AgS Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11515-11523	9.5	20
43	Germanium Wafers Possessing Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16162-16165	16.4	20
42	Distinct Carrier Transport Properties Across Horizontally vs Vertically Oriented Heterostructures of 2D/3D Perovskites. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 4969-4978	16.4	18
41	Au-Cu core-shell nanocube-catalyzed click reactions for efficient synthesis of diverse triazoles. <i>Nanoscale</i> , <b>2017</b> , 9, 6970-6974	7.7	17
40	Facet-Dependent Catalytic Activity of Palladium Nanocrystals in Tsuji-Miyaura Allylic Amination Reactions with Product Selectivity. <i>ChemCatChem</i> , <b>2015</b> , 7, 1813-1817	5.2	17
39	Photocatalytic Activity Suppression of Ag <sub>3</sub> PO <sub>4</sub> -Deposited Cu <sub>2</sub> O Octahedra and Rhombic Dodecahedra. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2314-2320	3.8	17
38	Polyhedral Cu <sub>2</sub> O Crystals for Diverse Aryl Alkyne Hydroboration Reactions. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 1300-1303	4.8	17
37	Systematic Shape Evolution of Gold Nanocrystals Achieved through Adjustment in the Amount of HAuCl <sub>4</sub> Solution Used. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 25118-25126	3.8	16
36	Facet-Dependent and Light-Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold-Palladium Core-Shell Nanocatalysts. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7338-7342	3.6	15
35	GaAs wafers possessing facet-dependent electrical conductivity properties. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5456-5460	7.1	14
34	Growth of Core-Shell Ga <sub>0.5</sub> GaN Nanostructures via a Conventional Reflux Method and the Formation of Hollow GaN Spheres. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3625-3630	3.8	14
33	Tracing the Surfactant-Mediated Nucleation, Growth, and Superpacking of Gold Supercrystals Using Time and Spatially Resolved X-ray Scattering. <i>Langmuir</i> , <b>2017</b> , 33, 3253-3261	4	13



32	Formation of indium nitride nanorods within mesoporous silica SBA-15. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 3135-9	5.1	13
31	Formation of Silver Rhombic Dodecahedra, Octahedra, and Cubes through Pseudomorphic Conversion of AgO Crystals with Nitroarene Reduction Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 38039-38045	9.5	12
30	Facet-Dependent Surface Trap States and Carrier Lifetimes of Silicon. <i>Nano Letters</i> , <b>2020</b> , 20, 1952-1958	11.5	12
29	Cu <sub>2</sub> O polyhedra for aryl alkyne homocoupling reactions. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 6948-6952	12	
28	Germanium Possessing Facet-Specific Trap States and Carrier Lifetimes. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 13304-13309	3.8	10
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> , <b>2008</b> , 47, 300-310	2.3	10
26	Size-Tunable Cu <sub>3</sub> Se <sub>2</sub> Nanocubes Possessing Surface Plasmon Resonance Properties for Photothermal Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 8446-8452	5.6	10
25	Large Facet-Specific Built-in Potential Differences Affecting Trap State Densities and Carrier Lifetimes of GaAs Wafers. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 21577-21582	3.8	10
24	Facet-Dependent and Adjacent Facet-Related Electrical Conductivity Properties of SrTiO <sub>3</sub> Crystals. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 10051-10056	3.8	10
23	Semiconductor nanocrystals possessing broadly size- and facet-dependent optical properties. <i>Journal of the Chinese Chemical Society</i> , <b>2021</b> , 68, 45-50	1.5	10
22	Surface-dependent band structure variations and bond-level deviations in Cu <sub>2</sub> O. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 4200-4208	6.8	10
21	Unusually Large Lattice Mismatch-Induced Optical Behaviors of Au@Cu <sub>2</sub> O Core-Shell Nanocrystals with Noncentrally Located Cores. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1800112	3.1	10
20	Novel silica stabilization method for the analysis of fine nanocrystals using coherent X-ray diffraction imaging. <i>Journal of Synchrotron Radiation</i> , <b>2016</b> , 23, 953-8	2.4	9
19	Silicon Wafers with Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15541-15545	3.6	8
18	Synthesis of size-tunable zinc blende ZnS nanocrystals. <i>Journal of the Chinese Chemical Society</i> , <b>2020</b> , 67, 339-343	1.5	8
17	Aqueous-Phase Synthesis of Size-Tunable PbSe Nanocubes at Room Temperature for Optical Property Characterization. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 367-372	4.8	8
16	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> , <b>2021</b> , 591, 1-8	9.3	7
15	Formation of size-tunable CdS rhombic dodecahedra. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5992-5997	7.1	6

14	Polyhedral Au@Pd Core-Shell Nanocrystals as Highly Spectrally Responsive and Reusable Hydrogen Sensors in Aqueous Solution. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 12941-12945	3.6	5
13	Current Rectification and Photo-Responsive Current Achieved through Interfacial Facet Control of CuO-Si Wafer Heterojunctions. <i>ACS Central Science</i> , <b>2021</b> , 7, 1929-1937	16.8	5
12	CsPbBr <sub>3</sub> and CsPbI <sub>3</sub> rhombic dodecahedra and nanocubes displaying facet-dependent optical properties. <i>Inorganic Chemistry Frontiers</i> ,	6.8	5
11	Diffraction data of core-shell nanoparticles from an X-ray free electron laser. <i>Scientific Data</i> , <b>2017</b> , 4, 170048	8.2	4
10	Recent Advances in Bimetallic Cu-Based Nanocrystals for Electrocatalytic CO Conversion. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 2168-2184	4.5	4
9	Growth of CeO nanocubes showing size-dependent optical and oxygen evolution reaction behaviors. <i>Dalton Transactions</i> , <b>2021</b> , 50, 15170-15175	4.3	4
8	Formation of CsPbCl <sub>3</sub> Cubes and Edge-Truncated Cuboids at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1578-1584	8.3	3
7	Facet-dependent electrical conductivity properties of GaN wafers. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 15354-15358	7.1	3
6	Photocatalytic activity enhancement of Cu <sub>2</sub> O cubes functionalized with 2-ethynyl-6-methoxynaphthalene through band structure modulation. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 3980-3989	7.1	3
5	Synthesis of Zinc Blende-Phased CdSe Nanocrystals with Size-Tunable Optical Properties and Adjustable Valence Band Positions.. <i>Langmuir</i> , <b>2022</b> ,	4	2
4	Reply to Comment on Spin-Coated Periodic Mesoporous Organosilica Thin Films with Molecular-Scale Order within the Organosilica Wall. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4532-4532	9.6	1
3	Germanium Wafers Possessing Facet-Dependent Electrical Conductivity Properties. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16394-16397	3.6	1
2	Origin and manifestation of semiconductor facet effects. <i>Journal of the Chinese Chemical Society</i> ,	1.5	1
1	Strategies for spatially separating photoactive molecules in mesostructured sol-gel silicate films. <i>Studies in Surface Science and Catalysis</i> , <b>2003</b> , 413-418	1.8	