

# Hyunjoon Song

## List of Publications by Citations

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163  
papers

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179  
ext. papers

10,800  
ext. citations

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avg, IF

6.23  
L-index

#	Paper	IF	Citations
163	A Nanoreactor Framework of a Au@SiO <sub>2</sub> Yolk/Shell Structure for Catalytic Reduction of p-Nitrophenol. <i>Advanced Materials</i> , <b>2008</b> , 20, 1523-1528	24	828
162	Platonic gold nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 3673-7	16.4	822
161	Gram-Scale Synthesis of Cu <sub>2</sub> O Nanocubes and Subsequent Oxidation to CuO Hollow Nanostructures for Lithium-Ion Battery Anode Materials. <i>Advanced Materials</i> , <b>2009</b> , 21, 803-807	24	567
160	High-surface-area catalyst design: Synthesis, characterization, and reaction studies of platinum nanoparticles in mesoporous SBA-15 silica. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 2192-202	3.4	484
159	Pt nanocrystals: shape control and Langmuir-Blodgett monolayer formation. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 188-93	3.4	478
158	Hydrothermal growth of mesoporous SBA-15 silica in the presence of PVP-stabilized Pt nanoparticles: synthesis, characterization, and catalytic properties. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 3027-37	16.4	453
157	Polyhedral gold nanocrystals with O <sub>h</sub> symmetry: from octahedra to cubes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 14863-70	16.4	377
156	Shape Adjustment between Multiply Twinned and Single-Crystalline Polyhedral Gold Nanocrystals: Decahedra, Icosahedra, and Truncated Tetrahedra. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 2469-2475 <sup>3.8</sup>		203
155	Monodisperse platinum nanoparticles of well-defined shape: synthesis, characterization, catalytic properties and future prospects. <i>Topics in Catalysis</i> , <b>2006</b> , 39, 167-174	2.3	202
154	Ni@SiO <sub>2</sub> yolk-shell nanoreactor catalysts: High temperature stability and recyclability. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1239-1246		196
153	Au@Ag core-shell nanocubes for efficient plasmonic light scattering effect in low bandgap organic solar cells. <i>ACS Nano</i> , <b>2014</b> , 8, 3302-12	16.7	193
152	Platonic Gold Nanocrystals. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 3759-3763	3.6	183
151	Ag-Au-Ag heterometallic nanorods formed through directed anisotropic growth. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 2940-1	16.4	180
150	Precise Tuning of Porosity and Surface Functionality in [email protected] <sub>2</sub> Nanoreactors for High Catalytic Efficiency. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5839-5844	9.6	166
149	A selective fluoroionophore based on BODIPY-functionalized magnetic silica nanoparticles: removal of Pb <sup>2+</sup> from human blood. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 1239-43	16.4	165
148	Ultra-low overpotential and high rate capability in LiO <sub>2</sub> batteries through surface atom arrangement of PdCu nanocatalysts. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1362	35.4	164
147	Metal@Silica yolk-shell nanostructures as versatile bifunctional nanocatalysts. <i>Nano Research</i> , <b>2011</b> , 4, 33-49	10	161

146	Branched Copper Oxide Nanoparticles Induce Highly Selective Ethylene Production by Electrochemical Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 6986-6994	16.4	149
145	[60]fullerene--metal cluster complexes: novel bonding modes and electronic communication. <i>Accounts of Chemical Research</i> , <b>2003</b> , 36, 78-86	24.3	138
144	Syntheses and Characterization of Wurtzite CoO, Rocksalt CoO, and Spinel Co <sub>3</sub> O <sub>4</sub> Nanocrystals: Their Interconversion and Tuning of Phase and Morphology. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 4446-4454	9.6	131
143	Single-crystalline hollow face-centered-cubic cobalt nanoparticles from solid face-centered-cubic cobalt oxide nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9504-8	16.4	119
142	Unusually high performance photovoltaic cell based on a [60]fullerene metal cluster-porphyrin dyad SAM on an ITO electrode. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 2380-1	16.4	111
141	CuO hollow nanostructures catalyze [3 + 2] cycloaddition of azides with terminal alkynes. <i>Chemical Communications</i> , <b>2010</b> , 46, 439-41	5.8	104
140	Colloidal zinc oxide-copper(I) oxide nanocatalysts for selective aqueous photocatalytic carbon dioxide conversion into methane. <i>Nature Communications</i> , <b>2017</b> , 8, 1156	17.4	97
139	Hot carrier-driven catalytic reactions on Pt-CdSe-Pt nanodumbbells and Pt/GaN under light irradiation. <i>Nano Letters</i> , <b>2013</b> , 13, 1352-8	11.5	94
138	Directed surface overgrowth and morphology control of polyhedral gold nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 763-7	16.4	93
137	Asymmetric hollow nanorod formation through a partial galvanic replacement reaction. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 18210-1	16.4	88
136	Extremely Active [email protected] <sub>2</sub> Yolk-Shell Nanocatalysts for Suzuki Coupling Reactions of Aryl Halides. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 15772-15777	3.8	82
135	Geometric Effect of Single or Double Metal-Tipped CdSe Nanorods on Photocatalytic H <sub>2</sub> Generation. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3781-5	6.4	73
134	Thermal wetting of platinum nanocrystals on silica surface. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 6940-3	3.4	72
133	Catalytic Hydrogen Transfer of Ketones over [email protected] <sub>2</sub> Yolk-Shell Nanocatalysts with Tiny Metal Cores. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6381-6388	3.8	71
132	Influence of Particle Size on Reaction Selectivity in Cyclohexene Hydrogenation and Dehydrogenation over Silica-Supported Monodisperse Pt Particles. <i>Catalysis Letters</i> , <b>2008</b> , 126, 10-19	2.8	71
131	Monodisperse PtRu Nanoalloy on Carbon as a High-Performance DMFC Catalyst. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 4209-4211	9.6	71
130	Metal hybrid nanoparticles for catalytic organic and photochemical transformations. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 491-9	24.3	70
129	Plasmonic monitoring of catalytic hydrogen generation by a single nanoparticle probe. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 1221-7	16.4	69

128	Nonstoichiometric Co-rich ZnCo <sub>2</sub> O <sub>4</sub> Hollow Nanospheres for High Performance Formaldehyde Detection at ppb Levels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 3233-40	9.5	65
127	Full-color tuning of surface plasmon resonance by compositional variation of Au@Ag core-shell nanocubes with sulfides. <i>Langmuir</i> , <b>2012</b> , 28, 9003-9	4	64
126	Porosity control of Pd@SiO <sub>2</sub> yolk-shell nanocatalysts by the formation of nickel phyllosilicate and its influence on Suzuki coupling reactions. <i>Langmuir</i> , <b>2012</b> , 28, 6441-7	4	64
125	ZnO-CuO Core-Hollow Cube Nanostructures for Highly Sensitive Acetone Gas Sensors at the ppb Level. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35688-35697	9.5	63
124	The first fullerene-metal sandwich complex: an unusually strong electronic communication between two C(60) cages. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 2872-3	16.4	62
123	Cu <sub>2</sub> O Nanocube-Catalyzed Cross-Coupling of Aryl Halides with Phenols via Ullmann Coupling. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 4219-4223	2.3	60
122	Adsorption and co-adsorption of ethylene and carbon monoxide on silica-supported monodisperse Pt nanoparticles: volumetric adsorption and infrared spectroscopy studies. <i>Langmuir</i> , <b>2008</b> , 24, 198-207	4	59
121	Structure sensitivity of vibrational spectra of mesoporous silica SBA-15 and Pt/SBA-15. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17386-90	3.4	59
120	Synthesis and Characterization of $\alpha$ -C <sub>60</sub> and $\beta$ - $\alpha$ , $\alpha$ , $\alpha$ -C <sub>60</sub> Triosmium Cluster Complexes. <i>Organometallics</i> , <b>1998</b> , 17, 227-236	3.8	56
119	A Hollow Assembly and Its Three-Dimensional Network Formation of Single-Crystalline Co <sub>3</sub> O <sub>4</sub> Nanoparticles for Ultrasensitive Formaldehyde Gas Sensors. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25994-26002	3.8	52
118	Anti-counterfeit nanoscale fingerprints based on randomly distributed nanowires. <i>Nanotechnology</i> , <b>2014</b> , 25, 155303	3.4	52
117	Chemical transformation and morphology change of nickel-silica hybrid nanostructures via nickel phyllosilicates. <i>Chemical Communications</i> , <b>2009</b> , 7345-7	5.8	51
116	One-Dimensional Gold Nanostructures through Directed Anisotropic Overgrowth from Gold Decahedrons. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3449-3454	3.8	50
115	Kinetics and mechanism of ethylene hydrogenation poisoned by CO on silica-supported monodisperse Pt nanoparticles. <i>Journal of Catalysis</i> , <b>2008</b> , 254, 1-11	7.3	50
114	Highly efficient and reusable copper-catalyzed N-arylation of nitrogen-containing heterocycles with aryl halides. <i>Molecules</i> , <b>2009</b> , 14, 5169-78	4.8	49
113	Shape Evolution and Gram-Scale Synthesis of Gold@Silver Core/Shell Nanopolyhedrons. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9417-9423	3.8	47
112	Surface status and size influences of nickel nanoparticles on sulfur compound adsorption. <i>Applied Surface Science</i> , <b>2007</b> , 253, 5864-5867	6.7	47
111	Non-vacuum processed CuInSe <sub>2</sub> thin films fabricated with a hybrid ink. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 109, 17-25	6.4	44

110	A hybrid ink of binary copper sulfide nanoparticles and indium precursor solution for a dense CuInSe <sub>2</sub> absorber thin film and its photovoltaic performance. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17893		43
109	Preparation and phase transition of FeOOH nanorods: strain effects on catalytic water oxidation. <i>Nanoscale</i> , <b>2017</b> , 9, 4751-4758	7.7	41
108	ZnO-CuO core-branch nanocatalysts for ultrasound-assisted azide-alkyne cycloaddition reactions. <i>Chemical Communications</i> , <b>2012</b> , 48, 8484-6	5.8	41
107	Azide-alkyne Huisgen [3+2] cycloaddition using CuO nanoparticles. <i>Molecules</i> , <b>2012</b> , 17, 13235-53	4.8	41
106	Monodisperse Pt and PtRu/C(60) hybrid nanoparticles for fuel cell anode catalysts. <i>Chemical Communications</i> , <b>2009</b> , 5036-8	5.8	40
105	Synthesis, Structure, and Electrochemical Studies of $\beta$ - $\eta$ , $\eta$ , $\eta$ -C <sub>60</sub> Triosmium Complexes. <i>Organometallics</i> , <b>1998</b> , 17, 4477-4483	3.8	39
104	New crystal structure: synthesis and characterization of hexagonal wurtzite MnO. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8392-5	16.4	35
103	First Example of the $\sigma$ -C Bonding Mode: Ligand-Induced Conversion of $\pi$ to $\sigma$ -Metal Complexes. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 1500-1502	16.4	32
102	Gram-Scale Synthesis of Magnetically Separable and Recyclable Co@SiO <sub>2</sub> Yolk-Shell Nanocatalysts for Phenoxycarbonylation Reactions. <i>ChemCatChem</i> , <b>2011</b> , 3, 755-760	5.2	31
101	1D and 3D Ionic Liquid/Aluminum Hydroxide Hybrids Prepared via an Ionothermal Process. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2411-2418	15.6	31
100	A Selective Fluoroionophore Based on BODIPY-functionalized Magnetic Silica Nanoparticles: Removal of Pb <sup>2+</sup> from Human Blood. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 1265-1269	3.6	30
99	Triosmium cluster derivatives of [60]fullerene. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 15		30
98	A highly Lewis-acidic Pd(IV) surface on Pd@SiO <sub>2</sub> nanocatalysts for hydroalkoxylation reactions. <i>Chemical Communications</i> , <b>2014</b> , 50, 14938-41	5.8	29
97	Synthesis and characterization of [Me <sub>2</sub> M- $\eta$ (H)NMe <sub>2</sub> ] <sub>2</sub> (M = Al, Ga). Crystal structure of trans [Me <sub>2</sub> Al- $\eta$ (H)NMe <sub>2</sub> ] <sub>2</sub> . <i>Journal of Organometallic Chemistry</i> , <b>1997</b> , 545-546, 99-103	2.3	29
96	Synthesis and Characterization of $\beta$ - $\eta$ , $\eta$ , $\eta$ -C <sub>60</sub> Trirhenium Hydrido Cluster Complexes. <i>Organometallics</i> , <b>2001</b> , 20, 3139-3144	3.8	29
95	Enhanced Visible Light Activity of Single-Crystalline WO <sub>3</sub> Microplates for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 9192-9199	3.8	29
94	Metal/semiconductor double shell hollow nanocubes for highly stable hydrogen generation photocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13414-13418	13	29
93	Platinum-centered yolk-shell nanostructure formation by sacrificial nickel spacers. <i>Langmuir</i> , <b>2010</b> , 26, 16469-73	4	28

92	Electrochemical deposition of Pd nanoparticles on indium-tin oxide electrodes and their catalytic properties for formic acid oxidation. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 1442-1445	5.1	28
91	Reversible Interconversion between $\eta^2$ - and $\eta^3$ -C <sub>60</sub> on a Carbido Pentaosmium Cluster Framework. <i>Organometallics</i> , <b>2001</b> , 20, 5564-5570	3.8	27
90	Strong interfullerene electronic communication in a bisfullerene-hexarhodium sandwich complex. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 9837-44	16.4	25
89	A Resonance-Shifting Hybrid n-Type Layer for Boosting Near-Infrared Response in Highly Efficient Colloidal Quantum Dots Solar Cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 8102-8	24	24
88	Synthesis of Polycrystalline Mo/MoO <sub>x</sub> Nanoflakes and Their Transformation to MoO <sub>3</sub> and MoS <sub>2</sub> Nanoparticles. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2706-2708	9.6	24
87	Fluxional processes and structural characterization of $\eta^3$ -C <sub>60</sub> triosmium cluster complexes, Os <sub>3</sub> (CO) <sub>9</sub> (PMe <sub>3</sub> ) <sub>n</sub> ( $\eta^3$ -C <sub>60</sub> ) (n=1, 2, 3). <i>Journal of Organometallic Chemistry</i> , <b>2000</b> , 599, 49-56	2.3	24
86	Non-native transition metal monoxide nanostructures: unique physicochemical properties and phase transformations of CoO, MnO and ZnO. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e364-e364	10.3	23
85	The growth of Cu <sub>2</sub> Se thin films using nanoparticles. <i>Thin Solid Films</i> , <b>2013</b> , 546, 299-307	2.2	23
84	Directed Surface Overgrowth and Morphology Control of Polyhedral Gold Nanocrystals. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 775-779	3.6	22
83	Directed C-H Activation and Tandem Cross-Coupling Reactions Using Palladium Nanocatalysts with Controlled Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6952-6956	16.4	21
82	Probing the nanoscale Schottky barrier of metal/semiconductor interfaces of Pt/CdSe/Pt nanodumbbells by conductive-probe atomic force microscopy. <i>Nanoscale</i> , <b>2015</b> , 7, 12297-301	7.7	21
81	Poly(ethylene glycol)- and carboxylate-functionalized gold nanoparticles using polymer linkages: single-step synthesis, high stability, and plasmonic detection of proteins. <i>Langmuir</i> , <b>2013</b> , 29, 13518-26	4	21
80	Terahertz time-domain measurement of non-Drude conductivity in silver nanowire thin films for transparent electrode applications. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 011109	3.4	21
79	Interconversion between $\eta^2$ - and $\eta^3$ -C <sub>60</sub> on a Carbido Pentaosmium Cluster Framework We are grateful to the Korea Science Engineering Foundation (KOSEF) for financial support (project no. 1999-1-122-001-5) of this research and a postdoctoral fellowship to K.L. The X-ray diffraction studies were carried out at the X-ray Crystallographic	16.4	21
78	A chelating effect in hybrid inks for non-vacuum-processed CuInSe <sub>2</sub> thin films. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5087-39, 1801-1804	13	20
77	Engineering Reaction Kinetics by Tailoring the Metal Tips of Metal-Semiconductor Nanodumbbells. <i>Nano Letters</i> , <b>2017</b> , 17, 5688-5694	11.5	20
76	Ligand-Induced Conversion of $\eta^3$ -C <sub>60</sub> Metal Cluster Complexes: Full Characterization of the $\eta^3$ -C <sub>60</sub> Bonding Mode. <i>Organometallics</i> , <b>2002</b> , 21, 2514-2520	3.8	20
75	[60]Fullerene as a Versatile Four-Electron Donor Ligand. <i>Organometallics</i> , <b>2002</b> , 21, 1756-1758	3.8	20

74	Surface activation of cobalt oxide nanoparticles for photocatalytic carbon dioxide reduction to methane. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15068-15072	13	19
73	Synthesis of Pd/SiO <sub>2</sub> Nanobeads for Use in Suzuki Coupling Reactions by Reverse Micelle Sol-gel Process. <i>Catalysis Letters</i> , <b>2012</b> , 142, 588-593	2.8	19
72	A Facile One-Pot Synthesis of Hydroxyl-Functionalized Gold Polyhedrons by a Surface Regulating Copolymer. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 939-944	9.6	19
71	Electrochemical Studies of C(60)-Triosmium Complexes: First Evidence for a C(60)-Mediated Electron Transfer to the Metal Center. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 2698-2699	5.1	19
70	High-Pressure Adsorption of Ethylene on Cubic Pt Nanoparticles and Pt(100) Single Crystals Probed by in Situ Sum Frequency Generation Vibrational Spectroscopy. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2377-2386	13.1	18
69	Solvent-Free Microwave Promoted [3 + 2] Cycloaddition of Alkyne-Azide in Uniform CuO Hollow Nanospheres. <i>Topics in Catalysis</i> , <b>2010</b> , 53, 523-528	2.3	18
68	Synthesis of Co/SiO <sub>2</sub> hybrid nanocatalyst via twisted Co <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> nanosheets for high-temperature Fischer-Tropsch reaction. <i>Nano Research</i> , <b>2017</b> , 10, 1044-1055	10	16
67	FeNi <sub>2</sub> P Alloy Nanocatalysts with Electron-Deficient Phosphorus Enhancing the Hydrogen Evolution Reaction in Acidic Media. <i>ACS Catalysis</i> , <b>2020</b> , 10, 11665-11673	13.1	16
66	Single-Molecule Rotation for EGFR Conformational Dynamics in Live Cells. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 15161-15165	16.4	16
65	Precise adjustment of structural anisotropy and crystallinity on metal-Fe <sub>3</sub> O <sub>4</sub> hybrid nanoparticles and its influence on magnetic and catalytic properties. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4997-5004	7.1	15
64	Carbon layer reduction via a hybrid ink of binary nanoparticles in non-vacuum-processed CuInSe <sub>2</sub> thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 110, 126-132	6.4	15
63	New synthesis approach for low temperature bimetallic nanoparticles: size and composition controlled Sn-Cu nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 1037-41	1.3	15
62	The first observation of four-electron reduction in [60]fullerene-metal cluster self-assembled monolayers (SAMs). <i>Chemical Communications</i> , <b>2002</b> , 2966-7	5.8	15
61	Effective Formation of WO <sub>3</sub> Nanoparticle/Bi <sub>2</sub> S <sub>3</sub> Nanowire Composite for Improved Photoelectrochemical Performance. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 17676-17685	3.8	14
60	Coordination power adjustment of surface-regulating polymers for shaping gold polyhedral nanocrystals. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 8466-71	4.8	14
59	Ag <sub>2</sub> Au <sub>2</sub> Ag Heterometal Nanowires: Synthesis, Diameter Control, and Dual Transversal Modes with Diameter Dependency. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 12529-12534	3.8	14
58	Synthesis, structure, and catalytic properties of ansa-Zirconocenes, Me <sub>2</sub> X(Cp)(RInd) ZrCl <sub>2</sub> (X = C, Si; R = 2-p- or 3-p-tolyl). <i>Journal of Organometallic Chemistry</i> , <b>1997</b> , 534, 81-87	2.3	14
57	Ex Situ and in Situ Surface Plasmon Monitoring of Temperature-Dependent Structural Evolution in Galvanic Replacement Reactions at a Single-Particle Level. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20125-20135	3.8	13

56	Composition effect of alloy semiconductors on Pt-tipped Zn <sub>1-x</sub> Cd <sub>x</sub> Se nanorods for enhanced photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 16316-16321	13	12
55	Immobilized CuO hollow nanospheres catalyzed alkyne-azide cycloadditions. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 6504-9	1.3	12
54	Cu <sub>2</sub> O Nanocubes Catalyzed Difunctionalization Reaction of Vinyl Arenes with Cyclic Ethers. <i>Bulletin of the Korean Chemical Society</i> , <b>2010</b> , 31, 3509-3510	1.2	12
53	Bovine Serum Albumin as an Effective Surface Regulating Biopolymer for Morphology Control of Gold Polyhedrons. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 4131-4137	3.5	11
52	Formation of Metal Selenide and Metal-Selenium Nanoparticles using Distinct Reactivity between Selenium and Noble Metals. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 1452-6	4.5	11
51	Air-stable CuInSe <sub>2</sub> nanoparticles formed through partial cation exchange in methanol at room temperature. <i>CrystEngComm</i> , <b>2016</b> , 18, 6069-6075	3.3	10
50	Facile Synthesis of Multipodal MnO Nanocrystals and Their Catalytic Performance. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 1279-1283	2.3	10
49	CuO hollow nanosphere-catalyzed cross-coupling of aryl iodides with thiols. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 390	5	10
48	Localized plasmon resonances of bimetallic AgAuAg nanorods. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 4190-4	3.6	10
47	The role of water for the phase-selective preparation of hexagonal and cubic cobalt oxide nanoparticles. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 1575-81	4.5	10
46	Surfactant-free Pd@pSiO <sub>2</sub> yolk-shell nanocatalysts for selective oxidation of primary alcohols to aldehydes. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 8153-8157	3.6	9
45	Substitution Reactions of a $\beta$ - $\beta$ : $\beta$ : $\beta$ -C <sub>60</sub> Triosmium Cluster Complex and Formation of a Novel $\beta$ - $\beta$ : $\beta$ : $\beta$ -C <sub>60</sub> Bonding Mode. <i>Organometallics</i> , <b>2002</b> , 21, 5221-5228	3.8	9
44	Nano-Protrusive Gold Nanoparticle-Hybridized Polymer Thin Film as a Sensitive, Multipatternable, and Antifouling Biosensor Platform. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13397-13405	9.5	8
43	Synthesis, structure, and catalytic properties of ansa-zirconocenes, Me <sub>2</sub> Si(RInd) <sub>2</sub> ZrCl <sub>2</sub> (R=2-p- or 3-p-tolyl). <i>Journal of Organometallic Chemistry</i> , <b>1998</b> , 559, 149-156	2.3	8
42	Platinum Nanoclusters: Size and Surface Structure Sensitivity of Catalytic Reactions <b>2008</b> , 149-166		8
41	The synthesis and characterization of Re <sub>3</sub> (H) <sub>3</sub> (CO) <sub>9</sub> (PMe <sub>3</sub> ) <sub>n</sub> ( $\beta$ - $\beta$ : $\beta$ : $\beta$ -C <sub>60</sub> ) (n=2,3) complexes. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 4704-4711	2.3	8
40	C <sub>60</sub> Self-Assembled Monolayer Using Diamine as a Prelayer. <i>Chemistry Letters</i> , <b>2000</b> , 29, 958-959	1.7	8
39	Tracking Underpotential Deposition of Copper on Individual Silver Nanocubes by Real-Time Single-Particle Plasmon Scattering Imaging. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 20398-20409	3.8	8



38	Characterization and structures of intermediates in the reactivity of CpWOs <sub>3</sub> (CO) <sub>11</sub> (β-CTol) towards dihydrogen and water. <i>Journal of Organometallic Chemistry</i> , <b>1996</b> , 526, 215-225	2.3	7
37	Rh(0)/Rh(iii) core-shell nanoparticles as heterogeneous catalysts for cyclic carbonate synthesis. <i>Chemical Communications</i> , <b>2016</b> , 53, 384-387	5.8	6
36	Assembly of individual TiO <sub>2</sub> -C60/porphyrin hybrid nanoparticles for enhancement of photoconversion efficiency. <i>Nanotechnology</i> , <b>2011</b> , 22, 275720	3.4	6
35	Optimal Length of Hybrid Metal-Semiconductor Nanorods for Photocatalytic Hydrogen Generation. <i>ACS Catalysis</i> , 13303-13311	13.1	6
34	Regulation of electron-hole recombination kinetics on uniform metal-semiconductor nanostructures for photocatalytic hydrogen evolution. <i>APL Materials</i> , <b>2019</b> , 7, 100702	5.7	6
33	Artificial Control of Cell Signaling Using a Photocleavable Cobalt(III)-Nitrosyl Complex. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10126-10131	16.4	5
32	Far-Field and Near-Field Investigation of Longitudinal Plasmons of AgAuAg Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21082-21090	3.8	5
31	Synthesis and characterization of (CH <sub>3</sub> C(CH <sub>2</sub> PPh <sub>2</sub> ) <sub>3</sub> )RhH(η-C60). <i>Journal of Organometallic Chemistry</i> , <b>1999</b> , 584, 361-365	2.3	5
30	In Situ Monitoring of Individual Plasmonic Nanoparticles Resolves Multistep Nanoscale Sulfidation Reactions Hidden by Ensemble Average. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23113-23123	3.8	4
29	Characterization of heterogeneous aryl-Pd(II)-oxo clusters as active species for C-H arylation. <i>Chemical Communications</i> , <b>2020</b> , 56, 14404-14407	5.8	4
28	Suzuki coupling reaction using hybrid Pd nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 1872-83	1.3	4
27	Simple fabrication of patterned gold nanoparticle arrays on functionalized block copolymer thin films. <i>European Polymer Journal</i> , <b>2011</b> , 47, 305-310	5.2	4
26	Shape auxiliary approach for carboxylate-functionalized gold nanocrystals. <i>Chemical Communications</i> , <b>2009</b> , 1276-8	5.8	4
25	Reaction of CpWOs <sub>3</sub> (CO) <sub>11</sub> (β-CTol) with H <sub>2</sub> S: η-alkylidene and η-alkylidyne WO <sub>3</sub> cluster complexes containing a sulfido ligand. <i>Journal of Organometallic Chemistry</i> , <b>1998</b> , 558, 71-80	2.3	4
24	Interconversion between η <sup>2</sup> ,η <sup>2</sup> -C60 and η <sup>3</sup> -η <sup>2</sup> ,η <sup>2</sup> -C60 on a Carbido Pentaosmium Cluster Framework. <i>Angewandte Chemie</i> , <b>2000</b> , 112, 1871-1874	3.6	4
23	Strategies for Designing Nanoparticles for Electro- and Photocatalytic CO Reduction. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 253-265	4.5	4
22	Directed C-H Activation and Tandem Cross-Coupling Reactions Using Palladium Nanocatalysts with Controlled Oxidation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7056-7060	3.6	3
21	Selective Growth and Structural Analysis of Regular MnO Nanooctapods Bearing Multiple High-Index Surface Facets. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 1784-90	4.5	3

20	First Example of the $\beta$ - $\eta$ , $\eta$ -C60 Bonding Mode: Ligand-Induced Conversion of $\eta$ to $\beta$ C60-Metal Complexes. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 1548-1550	3.6	3
19	Structural complexity induced by {110} blocking of cysteine in electrochemical copper deposition on silver nanocubes. <i>Nanoscale</i> , <b>2021</b> , 13, 1777-1783	7.7	3
18	Ultrasensitive formaldehyde gas sensors based on a hollow assembly and its 3-dimensional network formation of single-crystalline Co3O4 nanoparticles <b>2015</b> ,		2
17	Cover Picture: Platonic Gold Nanocrystals (Angew. Chem. Int. Ed. 28/2004). <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 3615-3615	16.4	2
16	Titelbild: Platonic Gold Nanocrystals (Angew. Chem. 28/2004). <i>Angewandte Chemie</i> , <b>2004</b> , 116, 3699-3699	9.6	2
15	Cluster and Polynuclear Compounds. <i>Inorganic Syntheses</i> , <b>2004</b> , 184-232		2
14	Hydrocarbyl Ligand Transformation on the Tungsten-Iridium Cluster Framework. <i>Journal of Cluster Science</i> , <b>2000</b> , 11, 343-358	3	2
13	Preparation and Electrochemical Characterization of Carbonaceous Thin Layer. <i>Electroanalysis</i> , <b>2017</b> , 29, 1062-1068	3	1
12	A feasible strategy to prepare quantum dot-incorporated carbon nanofibers as free-standing platforms. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 3948-3956	5.1	1
11	Selective Formation of Ag domains on MnO nanooctapods for potential dual imaging probes. <i>CrystEngComm</i> , <b>2016</b> , 18, 4188-4195	3.3	1
10	Formation of single-domain homogeneous Au nanoparticle monolayer at the water/oil interface and its application to surface-enhanced Raman scattering. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 021801	1.3	1
9	Metal-Selenide Double Shell Hollow Nanocubes via Sequential Nanoscale Reactions and Their Photocatalytic Hydrogen Evolution. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 965-976	2.3	1
8	Abnormal Hypsochromic Shifts of Surface Plasmon Scattering by Atomic Ordering in Gold-Copper Intermetallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 19936-19946	3.8	1
7	Artificial Control of Cell Signaling Using a Photocleavable Cobalt(III)-Nitrosyl Complex. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10232-10237	3.6	0
6	Surface overgrowth on gold nanoparticles modulating high-energy facets for efficient electrochemical CO reduction. <i>Nanoscale</i> , <b>2021</b> , 13, 14346-14353	7.7	0
5	Synthesis of Gold Nanoparticles in Liquid Phase <b>2017</b> , 165-200		
4	Silver/Gold Heterometallic Nanostructures and Their Surface Plasmon-Related Behaviors. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1257, 1		
3	Hybrid Gold Architectures for Sensing and Catalytic Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1176, 26		

2 Platinum nanoparticle encapsulation during hydrothermal growth of mesoporous oxides: Synthesis, characterization and catalytic properties. *Materials Research Society Symposia Proceedings*, **2005**, 900, 1

1 Inspiration of Yolk-Shell Nanostructures Toward Completely Adjustable Heterogeneous Catalysts. *Nanostructure Science and Technology*, **2021**, 413-424

0.9