

# Hyo-Yong Ahn

## 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.

28  
papers

1,654  
citations

17  
h-index

29  
g-index

29  
ext. papers

2,193  
ext. citations

14.1  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
28	EGlutamylcysteine- and Cysteinyglycine-Directed Growth of Chiral Gold Nanoparticles and their Crystallographic Analysis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13076-13083	3.6	3
27	Chirality control of inorganic materials and metals by peptides or amino acids. <i>Materials Advances</i> , <b>2020</b> , 1, 512-524	3.3	15
26	Uniform Chiral Gap Synthesis for High Dissymmetry Factor in Single Plasmonic Gold Nanoparticle. <i>ACS Nano</i> , <b>2020</b> , 14, 3595-3602	16.7	28
25	Cysteine-encoded chirality evolution in plasmonic rhombic dodecahedral gold nanoparticles. <i>Nature Communications</i> , <b>2020</b> , 11, 263	17.4	54
24	EGlutamylcysteine- and Cysteinyglycine-Directed Growth of Chiral Gold Nanoparticles and their Crystallographic Analysis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12976-12983	16.4	15
23	Chiral 432 Helicoid II Nanoparticle Synthesized with Glutathione and Poly(T)20 Nucleotide. <i>ChemNanoMat</i> , <b>2020</b> , 6, 362-367	3.5	10
22	Chiral Surface and Geometry of Metal Nanocrystals. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905758	24	33
21	Metal Nanocrystals: Chiral Surface and Geometry of Metal Nanocrystals (Adv. Mater. 41/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070308	24	
20	Bioinspired Toolkit Based on Intermolecular Encoder toward Evolutionary 4D Chiral Plasmonic Materials. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 2768-2783	24.3	20
19	Size-controllable and uniform gold bumpy nanocubes for single-particle-level surface-enhanced Raman scattering sensitivity. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 9044-9051	3.6	9
18	Cysteine Induced Chiral Morphology in Palladium Nanoparticle. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1900062	3.1	17
17	Highly Selective Active Chlorine Generation Electrocatalyzed by CoO Nanoparticles: Mechanistic Investigation through in Situ Electrokinetic and Spectroscopic Analyses. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1226-1233	6.4	15
16	Identifying peptide sequences that can control the assembly of gold nanostructures. <i>Molecular Systems Design and Engineering</i> , <b>2018</b> , 3, 581-590	4.6	18
15	Amino-acid- and peptide-directed synthesis of chiral plasmonic gold nanoparticles. <i>Nature</i> , <b>2018</b> , 556, 360-365	50.4	446
14	Selective Electrochemical Production of Formate from Carbon Dioxide with Bismuth-Based Catalysts in an Aqueous Electrolyte. <i>ACS Catalysis</i> , <b>2018</b> , 8, 931-937	13.1	132
13	Hierarchical carbon-silicon nanowire heterostructures for the hydrogen evolution reaction. <i>Nanoscale</i> , <b>2018</b> , 10, 13936-13941	7.7	16
12	Double-Layer Graphene Outperforming Monolayer as Catalyst on Silicon Photocathode for Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3570-3580	9.5	15

11	Photocatalytic hydrogen generation from hydriodic acid using methylammonium lead iodide in dynamic equilibrium with aqueous solution. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	301
10	Plasmon Enhanced Fluorescence Based on Porphyrin-Peptoid Hybridized Gold Nanoparticle Platform. <i>Small</i> , <b>2017</b> , 13, 1700071	11	18
9	Biomolecule-Enabled Chiral Assembly of Plasmonic Nanostructures. <i>ChemNanoMat</i> , <b>2017</b> , 3, 685-697	3.5	34
8	Proton Conduction in a Tyrosine-Rich Peptide/Manganese Oxide Hybrid Nanofilm. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702185	15.6	17
7	Biomimetic whitlockite inorganic nanoparticles-mediated in situ remodeling and rapid bone regeneration. <i>Biomaterials</i> , <b>2017</b> , 112, 31-43	15.6	82
6	Highly Active MnO Catalysts Integrated onto Fe <sub>2</sub> O <sub>3</sub> Nanorods for Efficient Water Splitting. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600176	4.6	18
5	Concave Rhombic Dodecahedral Au Nanocatalyst with Multiple High-Index Facets for CO <sub>2</sub> Reduction. <i>ACS Nano</i> , <b>2015</b> , 9, 8384-93	16.7	199
4	Biofunctionalized ceramic with self-assembled networks of nanochannels. <i>ACS Nano</i> , <b>2015</b> , 9, 4447-57	16.7	11
3	Phase transformation from hydroxyapatite to the secondary bone mineral, whitlockite. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 1342-1349	7.3	44
2	Virus templated gold nanocube chain for SERS nanoprobe. <i>Small</i> , <b>2014</b> , 10, 3007-11	11	36
1	Extended gold nano-morphology diagram: synthesis of rhombic dodecahedra using CTAB and ascorbic acid. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6861	7.1	48