# Hyo-Yong Ahn

## List of Publications by Citations



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|---|---|---|---|
| 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 | Amino-acid- and peptide-directed synthesis of chiral plasmonic gold nanoparticles. *Nature*, **2018**, 556, 360-365 | 50.4 | 446 |
| 27 | Photocatalytic hydrogen generation from hydriodic acid using methylammonium lead iodide in dynamic equilibrium with aqueous solution. *Nature Energy*, **2017**, 2, | 62.3 | 301 |
| 26 | Concave Rhombic Dodecahedral Au Nanocatalyst with Multiple High-Index Facets for CO2 Reduction. *ACS Nano*, **2015**, 9, 8384-93 | 16.7 | 199 |
| 25 | Selective Electrochemical Production of Formate from Carbon Dioxide with Bismuth-Based Catalysts in an Aqueous Electrolyte. *ACS Catalysis*, **2018**, 8, 931-937 | 13.1 | 132 |
| 24 | Biomimetic whitlockite inorganic nanoparticles-mediated in situ remodeling and rapid bone regeneration. *Biomaterials*, **2017**, 112, 31-43 | 15.6 | 82 |
| 23 | Cysteine-encoded chirality evolution in plasmonic rhombic dodecahedral gold nanoparticles. *Nature Communications*, **2020**, 11, 263 | 17.4 | 54 |
| 22 | Extended gold nano-morphology diagram: synthesis of rhombic dodecahedra using CTAB and ascorbic acid. *Journal of Materials Chemistry C*, **2013**, 1, 6861 | 7.1 | 48 |
| 21 | Phase transformation from hydroxyapatite to the secondary bone mineral, whitlockite. *Journal of Materials Chemistry B*, **2015**, 3, 1342-1349 | 7.3 | 44 |
| 20 | Virus templated gold nanocube chain for SERS nanoprobe. *Small*, **2014**, 10, 3007-11 | 11 | 36 |
| 19 | Biomolecule-Enabled Chiral Assembly of Plasmonic Nanostructures. *ChemNanoMat*, **2017**, 3, 685-697 | 3.5 | 34 |
| 18 | Chiral Surface and Geometry of Metal Nanocrystals. *Advanced Materials*, **2020**, 32, e1905758 | 24 | 33 |
| 17 | Uniform Chiral Gap Synthesis for High Dissymmetry Factor in Single Plasmonic Gold Nanoparticle. *ACS Nano*, **2020**, 14, 3595-3602 | 16.7 | 28 |
| 16 | Bioinspired Toolkit Based on Intermolecular Encoder toward Evolutionary 4D Chiral Plasmonic Materials. *Accounts of Chemical Research*, **2019**, 52, 2768-2783 | 24.3 | 20 |
| 15 | Plasmon Enhanced Fluorescence Based on Porphyrin-Peptoid Hybridized Gold Nanoparticle Platform. *Small*, **2017**, 13, 1700071 | 11 | 18 |
| 14 | Identifying peptide sequences that can control the assembly of gold nanostructures. *Molecular Systems Design and Engineering*, **2018**, 3, 581-590 | 4.6 | 18 |
| 13 | Highly Active MnO Catalysts Integrated onto Fe2O3 Nanorods for Efficient Water Splitting. *Advanced Materials Interfaces*, **2016**, 3, 1600176 | 4.6 | 18 |
| 12 | Cysteine Induced Chiral Morphology in Palladium Nanoparticle. *Particle and Particle Systems Characterization*, **2019**, 36, 1900062 | 3.1 | 17 |

# List of Publications

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|---|---|---|---|
| 11 | Proton Conduction in a Tyrosine-Rich Peptide/Manganese Oxide Hybrid Nanofilm. *Advanced Functional Materials*, **2017**, 27, 1702185 | 15.6 | 17 |
| 10 | Hierarchical carbon-silicon nanowire heterostructures for the hydrogen evolution reaction. *Nanoscale*, **2018**, 10, 13936-13941 | 7.7 | 16 |
| 9 | Double-Layer Graphene Outperforming Monolayer as Catalyst on Silicon Photocathode for Hydrogen Production. *ACS Applied Materials & Interfaces*, **2017**, 9, 3570-3580 | 9.5 | 15 |
| 8 | Chirality control of inorganic materials and metals by peptides or amino acids. *Materials Advances*, **2020**, 1, 512-524 | 3.3 | 15 |
| 7 | Glutamylcysteine- and Cysteinylglycine-Directed Growth of Chiral Gold Nanoparticles and their Crystallographic Analysis. *Angewandte Chemie - International Edition*, **2020**, 59, 12976-12983 | 16.4 | 15 |
| 6 | Highly Selective Active Chlorine Generation Electrocatalyzed by CoO Nanoparticles: Mechanistic Investigation through in Situ Electrokinetic and Spectroscopic Analyses. *Journal of Physical Chemistry Letters*, **2019**, 10, 1226-1233 | 6.4 | 15 |
| 5 | Biofunctionalized ceramic with self-assembled networks of nanochannels. *ACS Nano*, **2015**, 9, 4447-57 | 16.7 | 11 |
| 4 | Chiral 432 Helicoid II Nanoparticle Synthesized with Glutathione and Poly(T)20 Nucleotide. *ChemNanoMat*, **2020**, 6, 362-367 | 3.5 | 10 |
| 3 | Size-controllable and uniform gold bumpy nanocubes for single-particle-level surface-enhanced Raman scattering sensitivity. *Physical Chemistry Chemical Physics*, **2019**, 21, 9044-9051 | 3.6 | 9 |
| 2 | Glutamylcysteine- and Cysteinylglycine-Directed Growth of Chiral Gold Nanoparticles and their Crystallographic Analysis. *Angewandte Chemie*, **2020**, 132, 13076-13083 | 3.6 | 3 |
| 1 | Metal Nanocrystals: Chiral Surface and Geometry of Metal Nanocrystals (Adv. Mater. 41/2020). *Advanced Materials*, **2020**, 32, 2070308 | 24 | |