

# Jong-Wook Hong

## List of Publications by Year in descending order

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47  
papers

2,691  
citations

201385

27  
h-index

205818

48  
g-index

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all docs

49  
docs citations

49  
times ranked

3622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Synthesis of Pd@Pt Alloy Hollow Nanostructures with Enhanced Catalytic Activities for Oxygen Reduction. ACS Nano, 2012, 6, 2410-2419.	7.3	348
2	Atomic-Distribution-Dependent Electrocatalytic Activity of Au@Pd Bimetallic Nanocrystals. Angewandte Chemie - International Edition, 2011, 50, 8876-8880.	7.2	201
3	Ultrathin Free-Standing Ternary Alloy Nanosheets. Angewandte Chemie - International Edition, 2016, 55, 2753-2758.	7.2	197
4	One-Pot Synthesis of Trimetallic Au@PdPt Core-Shell Nanoparticles with High Catalytic Performance. ACS Nano, 2013, 7, 7945-7955.	7.3	192
5	Hexoctahedral Au Nanocrystals with High-Index Facets and Their Optical and Surface-Enhanced Raman Scattering Properties. Journal of the American Chemical Society, 2012, 134, 4565-4568.	6.6	155
6	Metal-Semiconductor Heteronanostructures with Desired Configurations for Plasmonic Photocatalysis. Journal of the American Chemical Society, 2016, 138, 15766-15773.	6.6	138
7	Synthesis of AuPt Heteronanostructures with Enhanced Electrocatalytic Activity toward Oxygen Reduction. Angewandte Chemie - International Edition, 2010, 49, 10197-10201.	7.2	129
8	One-pot synthesis and electrocatalytic activity of octapodal Au@Pd nanoparticles. Chemical Communications, 2011, 47, 2553.	2.2	81
9	Multimetallic Alloy Nanotubes with Nanoporous Framework. ACS Nano, 2012, 6, 5659-5667.	7.3	74
10	Tuning Chemical Interface Damping: Interfacial Electronic Effects of Adsorbate Molecules and Sharp Tips of Single Gold Bipyramids. Nano Letters, 2019, 19, 2568-2574.	4.5	73
11	Noble-Metal Nanocrystals with Controlled Facets for Electrocatalysis. Chemistry - an Asian Journal, 2016, 11, 2224-2239.	1.7	56
12	Metal-semiconductor yolk-shell heteronanostructures for plasmon-enhanced photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 4068-4078.	5.2	56
13	Kinetically Controlled Growth of Polyhedral Bimetallic Alloy Nanocrystals Exclusively Bound by High-Index Facets: Au@Pd Hexoctahedra. Small, 2013, 9, 660-665.	5.2	54
14	One-Pot Synthesis of Carbon-Supported Dendritic Pd@Au Nanoalloys for Electrocatalytic Ethanol Oxidation. Chemistry - an Asian Journal, 2011, 6, 909-913.	1.7	51
15	Controlled Photoinduced Electron Transfer from InP/ZnS Quantum Dots through Cu Doping: A New Prototype for the Visible-Light Photocatalytic Hydrogen Evolution Reaction. Nano Letters, 2020, 20, 6263-6271.	4.5	50
16	Ligand Effect of Shape-Controlled Î²-Palladium Hydride Nanocrystals on Liquid-Fuel Oxidation Reactions. Chemistry of Materials, 2019, 31, 5663-5673.	3.2	45
17	The facet-dependent enhanced catalytic activity of Pd nanocrystals. Chemical Communications, 2014, 50, 9454.	2.2	43
18	Trisoctahedral Au@Pd Alloy Nanocrystals with High-Index Facets and Their Excellent Catalytic Performance. Chemistry - A European Journal, 2012, 18, 16626-16630.	1.7	42

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19	Universal Sulfide-Assisted Synthesis of M-Ag Heterodimers (M = Pd, Au, Pt) as Efficient Platforms for Fabricating Metal-Semiconductor Heteronanostructures. <i>Journal of the American Chemical Society</i> , 2014, 136, 5221-5224.	6.6	42
20	One-pot production of ceria nanosheet-supported PtNi alloy nanodendrites with high catalytic performance toward methanol oxidation and oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25842-25849.	5.2	41
21	Achieving complete electrooxidation of ethanol by single atomic Rh decoration of Pt nanocubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112109119.	3.3	40
22	Exploiting Plasmonic Hot Spots in Au-Based Nanostructures for Sensing and Photocatalysis. <i>Accounts of Chemical Research</i> , 2022, 55, 831-843.	7.6	38
23	Metal-semiconductor ternary hybrids for efficient visible-light photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13225-13235.	5.2	37
24	Dendritic Ternary Alloy Nanocrystals for Enhanced Electrocatalytic Oxidation Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44018-44026.	4.0	36
25	The surface plasmon-induced hot carrier effect on the catalytic activity of CO oxidation on a Cu <sub>2</sub> O/hexoctahedral Au inverse catalyst. <i>Nanoscale</i> , 2018, 10, 10835-10843.	2.8	35
26	Ultrathin Free-Standing Ternary Alloy Nanosheets. <i>Angewandte Chemie</i> , 2016, 128, 2803-2808.	1.6	34
27	Ultrathin Polyaniline-Coated Pt-Ni Alloy Nanooctahedra for the Electrochemical Methanol Oxidation Reaction. <i>Chemistry - A European Journal</i> , 2019, 25, 7185-7190.	1.7	30
28	Surface elemental distribution effect of Pt-Pb hexagonal nanoplates for electrocatalytic methanol oxidation reaction. <i>Chinese Journal of Catalysis</i> , 2020, 41, 813-819.	6.9	25
29	Single gold bipyramids with sharp tips as sensitive single particle orientation sensors in biological studies. <i>Nanoscale</i> , 2017, 9, 12060-12067.	2.8	19
30	Shape-controlled Pd nanocrystal-polyaniline heteronanostructures with modulated polyaniline thickness for efficient electrochemical ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22029-22035.	5.2	19
31	Anisotropic heteronanostructures of Cu <sub>2</sub> O-2D MoS <sub>2</sub> for efficient visible light driven photocatalysis. <i>Applied Surface Science</i> , 2021, 538, 148159.	3.1	19
32	The controlled synthesis of plasmonic nanoparticle clusters as efficient surface-enhanced Raman scattering platforms. <i>Chemical Communications</i> , 2015, 51, 8793-8796.	2.2	17
33	Controlled synthesis of highly multi-branched Pt-based alloy nanocrystals with high catalytic performance. <i>CrystEngComm</i> , 2016, 18, 2356-2362.	1.3	14
34	Synthesis of Pd-Pt Ultrathin Assembled Nanosheets as Highly Efficient Electrocatalysts for Ethanol Oxidation. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1324-1329.	1.7	12
35	Highly Active Binary Exfoliated MoS <sub>2</sub> Sheet-Cu <sub>2</sub> O Nanocrystal Hybrids for Efficient Photocatalytic Pollutant Degradation. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 1147-1152.	1.0	7
36	Sustainable Surface-Enhanced Raman Substrate with Hexagonal Boron Nitride Dielectric Spacer for Preventing Electric Field Cancellation at Au-Au Nanogap. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 42176-42182.	4.0	7

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37	Highly Porous Au@Pt Bimetallic Urchin-Like Nanocrystals for Efficient Electrochemical Methanol Oxidation. <i>Nanomaterials</i> , 2021, 11, 112.	1.9	6
38	Shape- and Size-Controlled Palladium Nanocrystals and Their Electrocatalytic Properties in the Oxidation of Ethanol. <i>Materials</i> , 2021, 14, 2970.	1.3	6
39	Development of Visible-Light-Driven Rh@TiO <sub>2</sub> @CeO <sub>2</sub> Hybrid Photocatalysts for Hydrogen Production. <i>Catalysts</i> , 2021, 11, 848.	1.6	6
40	Surface Engineering of Palladium Nanocrystals: Decoupling the Activity of Different Surface Sites on Nanocrystal Catalysts. <i>Angewandte Chemie - International Edition</i> , 2022, , .	7.2	5
41	Shape-dependent adhesion and friction of Au nanoparticles probed with atomic force microscopy. <i>Nanotechnology</i> , 2015, 26, 135707.	1.3	4
42	Active Bumpy Pt <sub>1</sub> ∕Pd Nanocubes for Methanol Oxidation Reaction. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 237-240.	1.0	4
43	Size-controlled palladium dendritic nanocrystals and their electrocatalytic property toward formic acid oxidation and SERS performance. <i>Materials Letters</i> , 2021, 284, 128988.	1.3	4
44	Controlled Synthesis of Pd Nanocube@Polyaniline Hybrids for Ethanol Oxidation Reaction. <i>Bulletin of the Korean Chemical Society</i> , 2018, 40, 78.	1.0	3
45	Highly Enhanced Electrocatalytic Performances with Dendritic Bimetallic Palladium-Based Nanocrystals. <i>Catalysts</i> , 2021, 11, 1337.	1.6	3
46	Alloy Nanocrystals: Kinetically Controlled Growth of Polyhedral Bimetallic Alloy Nanocrystals Exclusively Bound by High-Index Facets: Au@Pd Hexoctahedra ( <i>Small</i> 5/2013). <i>Small</i> , 2013, 9, 646-646.	5.2	1
47	Surface Engineering of Palladium Nanocrystals: Decoupling the Activity of Different Surface Sites on Nanocrystal Catalysts. <i>Angewandte Chemie</i> , 0, , .	1.6	0