Jong-Wook Hong

List of Publications by Year
in descending order

47 papers	2,691 citations	201674 27 h-index	206112 48 g-index
49 all docs	49 docs citations	49 times ranked	3622 citing authors

#	Article	IF	Citations
1	Controlled Synthesis of Pdâ€“Pt Alloy Hollow Nanostructures with Enhanced Catalytic Activities for Oxygen Reduction. ACS Nano, 2012, 6, 2410-2419.	14.6	348
2	Atomicâ€Distributionâ€Dependent Electrocatalytic Activity of Auâ€“Pd Bimetallic Nanocrystals. Angewandte Chemie - International Edition, 2011, 50, 8876-8880.	13.8	201
3	Ultrathin Freeâ€Standing Ternaryâ€Alloy Nanosheets. Angewandte Chemie - International Edition, 2016, 55, 2753-2758.	13.8	197
4	One-Pot Synthesis of Trimetallic Au@PdPt Coreâ€“Shell Nanoparticles with High Catalytic Performance. ACS Nano, 2013, 7, 7945-7955.	14.6	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.	13.7	155
6	Metalâ€“Semiconductor Heteronanocrystals with Desired Configurations for Plasmonic Photocatalysis. Journal of the American Chemical Society, 2016, 138, 15766-15773.	13.7	138
7	Synthesis of AuPt Heteronanostructures with Enhanced Electrocatalytic Activity toward Oxygen Reduction. Angewandte Chemie - International Edition, 2010, 49, 10197-10201.	13.8	129
8	One-pot synthesis and electrocatalytic activity of octapodal Auâ€“Pd nanoparticles. Chemical Communications, 2011, 47, 2553.	4.1	81
9	Multimetallic Alloy Nanotubes with Nanoporous Framework. ACS Nano, 2012, 6, 5659-5667.	14.6	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.	9.1	73
11	Nobleâ€Metal Nanocrystals with Controlled Facets for Electrocatalysis. Chemistry - an Asian Journal, 2016, 11, 2224-2239.	3.3	56
12	Metalâ€“semiconductor yolkâ€“shell heteronanostructures for plasmon-enhanced photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 4068-4078.	10.3	56
13	Kinetically Controlled Growth of Polyhedral Bimetallic Alloy Nanocrystals Exclusively Bound by Highâ€Index Facets: Auâ€“Pd Hexoctahedra. Small, 2013, 9, 660-665.	10.0	54
14	Oneâ€Pot Synthesis of Carbonâ€Supported Dendritic Pdâ€Au Nanoalloys for Electrocatalytic Ethanol Oxidation. Chemistry - an Asian Journal, 2011, 6, 909-913.	3.3	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.	9.1	50
16	Ligand Effect of Shape-Controlled Î²-Palladium Hydride Nanocrystals on Liquid-Fuel Oxidation Reactions. Chemistry of Materials, 2019, 31, 5663-5673.	6.7	45
17	The facet-dependent enhanced catalytic activity of Pd nanocrystals. Chemical Communications, 2014, 50, 9454.	4.1	43
18	Trisoctahedral Auâ€“Pd Alloy Nanocrystals with Highâ€Index Facets and Their Excellent Catalytic Performance. Chemistry - A European Journal, 2012, 18, 16626-16630.	3.3	42

#	Article	IF	Citations
19	Universal Sulfide-Assisted Synthesis of Mâ€“Ag Heterodimers (M = Pd, Au, Pt) as Efficient Platforms for Fabricating Metalâ€“Semiconductor Heteronanostructures. Journal of the American Chemical Society, 2014, 136, 5221-5224.	13.7	42
20	One-pot production of ceria nanosheet-supported PtNi alloy nanodendrites with high catalytic performance toward methanol oxidation and oxygen reduction. Journal of Materials Chemistry A, 2020, 8, 25842-25849.	10.3	41
21	Achieving complete electrooxidation of ethanol by single atomic Rh decoration of Pt nanocubes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112109119.	7.1	40
22	Exploiting Plasmonic Hot Spots in Au-Based Nanostructures for Sensing and Photocatalysis. Accounts of Chemical Research, 2022, 55, 831-843.	15.6	38
23	Metalâ€“semiconductor ternary hybrids for efficient visible-light photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 13225-13235.	10.3	37
24	Dendritic Ternary Alloy Nanocrystals for Enhanced Electrocatalytic Oxidation Reactions. ACS Applied Materials & Interfaces, 2017, 9, 44018-44026.	8.0	36
25	The surface plasmon-induced hot carrier effect on the catalytic activity of CO oxidation on a Cu₂O/hexoctahedral Au inverse catalyst. Nanoscale, 2018, 10, 10835-10843.	5.6	35
26	Ultrathin Freeâ€Standing Ternaryâ€Alloy Nanosheets. Angewandte Chemie, 2016, 128, 2803-2808.	2.0	34
27	Ultrathinâ€Polyanilineâ€Coated Ptâ€“Ni Alloy Nanooctahedra for the Electrochemical Methanol Oxidation Reaction. Chemistry - A European Journal, 2019, 25, 7185-7190.	3.3	30
28	Surface elemental distribution effect of Pt-Pb hexagonal nanoplates for electrocatalytic methanol oxidation reaction. Chinese Journal of Catalysis, 2020, 41, 813-819.	14.0	25
29	Single gold bipyramids with sharp tips as sensitive single particle orientation sensors in biological studies. Nanoscale, 2017, 9, 12060-12067.	5.6	19
30	Shape-controlled Pd nanocrystalâ€“polyaniline heteronanostructures with modulated polyaniline thickness for efficient electrochemical ethanol oxidation. Journal of Materials Chemistry A, 2019, 7, 22029-22035.	10.3	19
31	Anisotropic heteronanocrystals of Cu2Oâ€“2D MoS2 for efficient visible light driven photocatalysis. Applied Surface Science, 2021, 538, 148159.	6.1	19
32	The controlled synthesis of plasmonic nanoparticle clusters as efficient surface-enhanced Raman scattering platforms. Chemical Communications, 2015, 51, 8793-8796.	4.1	17
33	Controlled synthesis of highly multi-branched Pt-based alloy nanocrystals with high catalytic performance. CrystEngComm, 2016, 18, 2356-2362.	2.6	14
34	Synthesis of Pdâ€Pt Ultrathin Assembled Nanosheets as Highly Efficient Electrocatalysts for Ethanol Oxidation. Chemistry - an Asian Journal, 2020, 15, 1324-1329.	3.3	12
35	Highly Active Binary Exfoliated <scp>MoS₂</scp> Sheetâ€“<scp>Cu₂O</scp> Nanocrystal Hybrids for Efficient Photocatalytic Pollutant Degradation. Bulletin of the Korean Chemical Society, 2020, 41, 1147-1152.	1.9	7
36	Sustainable Surface-Enhanced Raman Substrate with Hexagonal Boron Nitride Dielectric Spacer for Preventing Electric Field Cancellation at Auâ€“Au Nanogap. ACS Applied Materials & Interfaces, 2021, 13, 42176-42182.	8.0	7

#	Article	IF	Citations
37	Highly Porous Auâ€“Pt Bimetallic Urchin-Like Nanocrystals for Efficient Electrochemical Methanol Oxidation. Nanomaterials, 2021, 11, 112.	4.1	6
38	Shape- and Size-Controlled Palladium Nanocrystals and Their Electrocatalytic Properties in the Oxidation of Ethanol. Materials, 2021, 14, 2970.	2.9	6
39	Development of Visible-Light-Driven Rhâ€“TiO2â€“CeO2 Hybrid Photocatalysts for Hydrogen Production. Catalysts, 2021, 11, 848.	3.5	6
40	Surface Engineering of Palladium Nanocrystals: Decoupling the Activity of Different Surface Sites on Nanocrystal Catalysts. Angewandte Chemie - International Edition, 2022, , .	13.8	5
41	Shape-dependent adhesion and friction of Au nanoparticles probed with atomic force microscopy. Nanotechnology, 2015, 26, 135707.	2.6	4
42	Active Bumpy Ptï£¿Pd Nanocubes for Methanol Oxidation Reaction. Bulletin of the Korean Chemical Society, 2020, 41, 237-240.	1.9	4
43	Size-controlled palladium dendritic nanocrystals and their electrocatalytic property toward formic acid oxidation and SERS performance. Materials Letters, 2021, 284, 128988.	2.6	4
44	Controlled Synthesis of Pd Nanocubeâ€Polyaniline Hybrids for Ethanol Oxidation Reaction. Bulletin of the Korean Chemical Society, 2018, 40, 78.	1.9	3
45	Highly Enhanced Electrocatalytic Performances with Dendritic Bimetallic Palladium-Based Nanocrystals. Catalysts, 2021, 11, 1337.	3.5	3
46	Alloy Nanocrystals: Kinetically Controlled Growth of Polyhedral Bimetallic Alloy Nanocrystals Exclusively Bound by Highâ€Index Facets: Auâ€“Pd Hexoctahedra (Small 5/2013). Small, 2013, 9, 646-646.	10.0	1
47	Surface Engineering of Palladium Nanocrystals: Decoupling the Activity of Different Surface Sites on Nanocrystal Catalysts. Angewandte Chemie, 0, , .	2.0	0