

Hui Wang

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.

60
papers

4,011
citations

29
h-index

63
g-index

64
ext. papers

4,442
ext. citations

8.2
avg, IF

5.79
L-index

#	Paper	IF	Citations
60	Interfacial Dynamics, Chemistry, and Photochemistry of Molecular Ligands on Plasmonic Nanoparticle Surfaces: Insights From Surface-Enhanced Raman Spectroscopy 2021 ,		
59	Plasmon-driven photocatalytic molecular transformations on metallic nanostructure surfaces: mechanistic insights gained from plasmon-enhanced Raman spectroscopy. <i>Molecular Systems Design and Engineering</i> , 2021 , 6, 250-280	4.6	9
58	Hot-Hole-Induced Molecular Scissoring: A Case Study of Plasmon-Driven Decarboxylation of Aromatic Carboxylates. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20958-20971	3.8	4
57	Nanoscale surface curvature modulates nanoparticle-protein interactions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 190, 110960	6	6
56	Complementing Nanoscale Galvanic Exchange with Redox Manipulation toward Architectural Control of Multimetallic Hollow Nanostructures. <i>ChemNanoMat</i> , 2020 , 6, 998-1013	3.5	6
55	Complex modeling for the quantification of nanoscale disorder using genetic algorithms, density functional theory and line-profile analysis. <i>Journal of Applied Crystallography</i> , 2020 , 53, 1087-1100	3.8	1
54	Plasmonic Nanozymes: Engineered Gold Nanoparticles Exhibit Tunable Plasmon-Enhanced Peroxidase-Mimicking Activity. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9321-9328	6.4	16
53	Dual-Plasmonic Gold@Copper Sulfide Core-Shell Nanoparticles: Phase-Selective Synthesis and Multimodal Photothermal and Photocatalytic Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46146-46161	9.5	24
52	Real-Time Tracking the Electrochemical Synthesis of Au@Metal Core-Shell Nanoparticles toward Photo Enhanced Methanol Oxidation. <i>Analytical Chemistry</i> , 2020 , 92, 14006-14011	7.8	11
51	Aromatic thiol-modulated Ag overgrowth on gold nanoparticles: tracking the thiolX position in the core-shell nanoparticles. <i>Nanoscale</i> , 2019 , 11, 17471-17477	7.7	8
50	Thermodynamics and kinetics of ordered and disordered Cu/Au alloys from first principles calculations. <i>Journal of Alloys and Compounds</i> , 2019 , 809, 151615	5.7	2
49	Photothermal Effect, Local Field Dependence, and Charge Carrier Relaying Species in Plasmon-Driven Photocatalysis: A Case Study of Aerobic Nitrothiophenol Coupling Reaction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26695-26704	3.8	22
48	Tweaking the Interplay among Galvanic Exchange, Oxidative Etching, and Seed-Mediated Deposition toward Architectural Control of Multimetallic Nanoelectrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23482-23494	9.5	5
47	Hot carriers in action: multimodal photocatalysis on Au@SnO core-shell nanoparticles. <i>Nanoscale</i> , 2019 , 11, 7324-7334	7.7	19
46	Colorimetric paper sensor for sensitive detection of explosive nitroaromatics based on Au@Ag nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 206, 16-22	4.4	20
45	Thermally induced transformations of Au@Cu ₂ O core-shell nanoparticles into AuCu nanoparticles from temperature-programmed in situ powder X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2019 , 52, 579-586	3.8	6
44	Mechanistic Insights on Plasmon-Driven Photocatalytic Oxidative Coupling of Thiophenol Derivatives: Evidence for Steady-State Photoactivated Oxygen. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5686-5697	3.8	28

43	Overcoming the Interfacial Lattice Mismatch: Geometry Control of Gold-Nickel Bimetallic Heteronanostructures. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700361	3.1	4
42	Cellulose Microfiber-Supported TiO ₂ @Ag Nanocomposites: A Dual-Functional Platform for Photocatalysis and in Situ Reaction Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4277-4286	3.9	20
41	Galvanic Replacement-Driven Transformations of Atomically Intermixed Bimetallic Colloidal Nanocrystals: Effects of Compositional Stoichiometry and Structural Ordering. <i>Langmuir</i> , 2018 , 34, 4340-4350	4.10	10
40	Hierarchical Materials as Tailored Nuclear Waste Forms: A Perspective. <i>Chemistry of Materials</i> , 2018 , 30, 4475-4488	9.6	69
39	Dealloyed Nanoporous Gold Catalysts: From Macroscopic Foams to Nanoparticulate Architectures. <i>ChemNanoMat</i> , 2018 , 4, 897-908	3.5	17
38	Carving growing nanocrystals: coupling seed-mediated growth with oxidative etching. <i>Nanoscale</i> , 2018 , 10, 18457-18462	7.7	5
37	Multifaceted Gold-Palladium Bimetallic Nanorods and Their Geometric, Compositional, and Catalytic Tunabilities. <i>ACS Nano</i> , 2017 , 11, 3213-3228	16.7	43
36	Nanoscale Surface Curvature Effects on Ligand-Nanoparticle Interactions: A Plasmon-Enhanced Spectroscopic Study of Thiolated Ligand Adsorption, Desorption, and Exchange on Gold Nanoparticles. <i>Nano Letters</i> , 2017 , 17, 4443-4452	11.5	54
35	Controlled Dealloying of Alloy Nanoparticles toward Optimization of Electrocatalysis on Spongy Metallic Nanoframes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23920-31	9.5	28
34	Gold-Nanosponge-Based Multistimuli-Responsive Drug Vehicles for Targeted Chemo-Photothermal Therapy. <i>Advanced Materials</i> , 2016 , 28, 8218-8226	24	129
33	Facet Control of Gold Nanorods. <i>ACS Nano</i> , 2016 , 10, 2960-74	16.7	87
32	Intertwining Roles of Silver Ions, Surfactants, and Reducing Agents in Gold Nanorod Overgrowth: Pathway Switch between Silver Underpotential Deposition and Gold-Silver Codeposition. <i>Chemistry of Materials</i> , 2016 , 28, 2728-2741	9.6	44
31	Residual Silver Remarkably Enhances Electrocatalytic Activity and Durability of Dealloyed Gold Nanosponge Particles. <i>Nano Letters</i> , 2016 , 16, 7248-7253	11.5	36
30	Faceted Gold Nanorods: Nanocuboids, Convex Nanocuboids, and Concave Nanocuboids. <i>Nano Letters</i> , 2015 , 15, 4161-9	11.5	94
29	Structural Evolution of Ag-Pd Bimetallic Nanoparticles through Controlled Galvanic Replacement: Effects of Mild Reducing Agents. <i>Chemistry of Materials</i> , 2015 , 27, 2172-2180	9.6	84
28	Hydrogen-Terminated Si Nanowires as Label-Free Colorimetric Sensors in the Ultrasensitive and Highly Selective Detection of Fluoride Anions in Pure Water Phase. <i>Advanced Functional Materials</i> , 2015 , 25, 1506-1510	15.6	13
27	Porous Au Nanoparticles with Tunable Plasmon Resonances and Intense Field Enhancements for Single-Particle SERS. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 370-4	6.4	146
26	Epitaxial Growth of Cu ₂ O on Ag Allows for Fine Control Over Particle Geometries and Optical Properties of Ag-Cu ₂ O Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19948-19963	3.8	57

25	Controlled overgrowth of Pd on Au nanorods. <i>CrystEngComm</i> , 2014 , 16, 9469-9477	3.3	27
24	Nanoporosity-Enhanced Catalysis on Subwavelength Au Nanoparticles: a Plasmon-Enhanced Spectroscopic Study. <i>Chemistry of Materials</i> , 2014 , 26, 5131-5142	9.6	52
23	Facet-Dependent Catalytic Activities of Au Nanoparticles Enclosed by High-Index Facets. <i>ACS Catalysis</i> , 2014 , 4, 4027-4033	13.1	106
22	Robust nonenzymatic hybrid nanoelectrocatalysts for signal amplification toward ultrasensitive electrochemical cytosensing. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2288-91	16.4	168
21	Gold nanoparticles with tipped surface structures as substrates for single-particle surface-enhanced Raman spectroscopy: concave nanocubes, nanotrisoctahedra, and nanostars. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17255-67	9.5	107
20	Tunable plasmonic nanoparticles with catalytically active high-index facets. <i>Nano Letters</i> , 2014 , 14, 3674-825	11.5	131
19	Multiplex acute leukemia cytosensing using multifunctional hybrid electrochemical nanoprobe at a hierarchically nanoarchitected electrode interface. <i>Nanoscale</i> , 2013 , 5, 10360-8	7.7	47
18	Ultrasensitive dual-channel detection of matrix metalloproteinase-2 in human serum using gold-quantum dot core-satellite nanoprobe. <i>Chemical Communications</i> , 2013 , 49, 7881-3	5.8	23
17	Nanoarchitected electrochemical cytosensors for selective detection of leukemia cells and quantitative evaluation of death receptor expression on cell surfaces. <i>Analytical Chemistry</i> , 2013 , 85, 5609-16	7.8	51
16	Single-molecule spectroscopic study of dynamic nanoscale DNA bending behavior of HIV-1 nucleocapsid protein. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4183-96	3.4	11
15	Coarsening of silver nanoparticles in polyelectrolyte multilayers. <i>Langmuir</i> , 2013 , 29, 11413-9	4	11
14	Surface-Enhanced Raman Scattering on Hierarchical Porous Cuprous Oxide Nanostructures in Nanoshell and Thin-Film Geometries. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 651-7	6.4	54
13	Fabrication of Au@Ag core-shell nanoparticles using polyelectrolyte multilayers as nanoreactors. <i>Langmuir</i> , 2012 , 28, 15705-12	4	37
12	Geometry control and optical tunability of metal-cuprous oxide core-shell nanoparticles. <i>ACS Nano</i> , 2012 , 6, 3514-27	16.7	106
11	Au@Cu ₂ O Core-Shell Nanoparticles: A Hybrid Metal-Semiconductor Heteronanostructure with Geometrically Tunable Optical Properties. <i>Chemistry of Materials</i> , 2011 , 23, 4587-4598	9.6	246
10	Interior Structural Tailoring of Cu ₂ O Shell-in-Shell Nanostructures through Multistep Ostwald Ripening. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18479-18485	3.8	61
9	Cuprous oxide nanoshells with geometrically tunable optical properties. <i>ACS Nano</i> , 2011 , 5, 3257-67	16.7	121
8	Comparative analysis of RNA/protein dynamics for the arginine-rich-binding motif and zinc-finger-binding motif proteins encoded by HIV-1. <i>Biophysical Journal</i> , 2010 , 99, 3454-62	2.9	3

7	Controlled synthesis of Cu ₂ O cubic and octahedral nano- and microcrystals. <i>Crystal Research and Technology</i> , 2009 , 44, 624-628	1.3	40
6	HIV-1 nucleocapsid protein bends double-stranded nucleic acids. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15534-43	16.4	15
5	Plasmonic nanostructures: artificial molecules. <i>Accounts of Chemical Research</i> , 2007 , 40, 53-62	24.3	580
4	Controlled texturing modifies the surface topography and plasmonic properties of Au nanoshells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11083-7	3.4	148
3	Cu nanoshells: effects of interband transitions on the nanoparticle plasmon resonance. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18218-22	3.4	166
2	Nanosphere arrays with controlled sub-10-nm gaps as surface-enhanced raman spectroscopy substrates. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14992-3	16.4	568
1	Covellite Nanodisks and Digenite Nanorings: Colloidal Synthesis, Phase Transitions, and Optical Properties. <i>Chemistry of Materials</i> ,	9.6	1