

# Jiawen Hu

## List of Publications by Year in descending order

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62  
papers

2,543  
citations

236612

25  
h-index

197535

49  
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63  
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63  
docs citations

63  
times ranked

3666  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient Solid Electrolyte Interphase and Lithium Ion Solvation Regulated by Bisfluoroacetamide for Stable Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6600-6608.	7.2	249
2	Palladium-Coated Gold Nanoparticles with a Controlled Shell Thickness Used as Surface-Enhanced Raman Scattering Substrate. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1105-1112.	1.5	159
3	Direct Room Temperature Welding and Chemical Protection of Silver Nanowire Thin Films for High Performance Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2018, 140, 193-199.	6.6	153
4	Surface-enhanced Raman spectroscopy study on the structure changes of 4-mercaptopyridine adsorbed on silver substrates and silver colloids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002, 58, 2827-2834.	2.0	152
5	Hierarchically Porous N-Doped Carbon Fibers as a Free-Standing Anode for High-Capacity Potassium-Based Dual-Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1901663.	10.2	128
6	Recent advances in cathode materials for rechargeable lithium-sulfur batteries. <i>Nanoscale</i> , 2019, 11, 15418-15439.	2.8	125
7	Surface-enhanced Raman scattering from transition metals with special surface morphology and nanoparticle shape. <i>Faraday Discussions</i> , 2006, 132, 159-170.	1.6	123
8	Synthesis of Au@Pd core-shell nanoparticles with controllable size and their application in surface-enhanced Raman spectroscopy. <i>Chemical Physics Letters</i> , 2005, 408, 354-359.	1.2	110
9	Holey graphene hydrogel with in-plane pores for high-performance capacitive desalination. <i>Nano Research</i> , 2016, 9, 2458-2466.	5.8	110
10	Simple Method for Preparing Controllably Aggregated Silver Particle Films Used as Surface-Enhanced Raman Scattering Active Substrates. <i>Langmuir</i> , 2002, 18, 6839-6844.	1.6	95
11	Correlating the Shape, Surface Plasmon Resonance, and Surface-Enhanced Raman Scattering of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10459-10464.	1.5	83
12	Aggregation of Silver Particles Trapped at an Air-Water Interface for Preparing New SERS Active Substrates. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6500-6506.	1.2	76
13	Hierarchical composite of N-doped carbon sphere and holey graphene hydrogel for high-performance capacitive deionization. <i>Desalination</i> , 2019, 464, 18-24.	4.0	75
14	Hydrophobic coating- and surface active solvent-mediated self-assembly of charged gold and silver nanoparticles at water-air and water-oil interfaces. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6490.	1.3	65
15	Nitrogen-doped hierarchical porous carbon aerogel for high-performance capacitive deionization. <i>Separation and Purification Technology</i> , 2019, 224, 44-50.	3.9	64
16	Ultrasensitive electrochemical assay for microRNA-21 based on CRISPR/Cas13a-assisted catalytic hairpin assembly. <i>Talanta</i> , 2021, 224, 121878.	2.9	62
17	Theoretical Consideration on Preparing Silver Particle Films by Adsorbing Nanoparticles from Bulk Colloids to an Air-Water Interface. <i>Langmuir</i> , 2004, 20, 8831-8838.	1.6	56
18	Characterization of surface water on Au core Pt-group metal shell nanoparticles coated electrodes by surface-enhanced Raman spectroscopy. <i>Chemical Communications</i> , 2007, , 4608.	2.2	47

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19	Nickel-iron layered double hydroxides and reduced graphene oxide composite with robust lithium ion adsorption ability for high-capacity energy storage systems. <i>Electrochimica Acta</i> , 2019, 296, 190-197.	2.6	42
20	An investigation of the adsorption of pyrazine and pyridine on nickel electrodes by in situ surface-enhanced Raman spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2004, 563, 121-131.	1.9	41
21	Three-dimensional N- and S-codoped graphene hydrogel with in-plane pores for high performance supercapacitor. <i>Microporous and Mesoporous Materials</i> , 2018, 268, 260-267.	2.2	39
22	Rapid Electrochemical Cleaning Silver Nanowire Thin Films for High-Performance Transparent Conductors. <i>Journal of the American Chemical Society</i> , 2019, 141, 12251-12257.	6.6	37
23	Synthesis of ultrathin two-dimensional nanosheets and van der Waals heterostructures from non-layered $\text{I}^3\text{-CuI}$ . <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	34
24	Au nanoparticle monolayers: preparation, structural conversion and their surface-enhanced Raman scattering effects. <i>Nanotechnology</i> , 2010, 21, 145608.	1.3	31
25	Holey Co, N-codoped graphene aerogel with in-plane pores and multiple active sites for efficient oxygen reduction. <i>Electrochimica Acta</i> , 2018, 269, 544-552.	2.6	29
26	Villiform carbon fiber paper as current collector for capacitive deionization devices with high areal electrosorption capacity. <i>Desalination</i> , 2019, 459, 1-9.	4.0	29
27	A High Capacity and Working Voltage Potassium-Based Dual Ion Batteries. <i>Energy and Environmental Materials</i> , 2021, 4, 413-420.	7.3	23
28	Gradient Solid Electrolyte Interphase and Lithium-Ion Solvation Regulated by Bisfluoroacetamide for Stable Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 6674-6682.	1.6	23
29	Salt- and pH-resistant gold nanoparticles decorated with mixed-charge zwitterionic ligands, and their pH-induced concentration behavior. <i>RSC Advances</i> , 2012, 2, 12648.	1.7	22
30	Fano Interference Between Higher Localized and Propagating Surface Plasmon Modes in Nanovoid Arrays. <i>Plasmonics</i> , 2015, 10, 71-76.	1.8	21
31	Recent progresses on $\text{SnO}_2$ anode materials for sodium storage. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 353001.	1.3	18
32	Surface-Enhanced Raman Scattering on Uniform Pd and Pt Films: From Ill-Defined to Structured Surfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24843-24850.	1.5	14
33	Plasma Cleaning and Self-Limited Welding of Silver Nanowire Films for Flexible Transparent Conductors. <i>ACS Applied Nano Materials</i> , 2021, 4, 1664-1671.	2.4	14
34	Fe1-S/reduced graphene oxide composite as anode material for aqueous rechargeable Ni/Fe batteries. <i>Journal of Alloys and Compounds</i> , 2019, 800, 99-106.	2.8	13
35	Salt-induced size-selective separation, concentration, and preservation of zwitterion-modified gold nanoparticles. <i>RSC Advances</i> , 2012, 2, 2671.	1.7	12
36	Light welding nanoparticles: from metal colloids to free-standing conductive metallic nanoparticle film. <i>Science China Materials</i> , 2017, 60, 39-48.	3.5	12

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37	Study of plasmonics in hybrids made from a quantum emitter and double metallic nanoshell dimer. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 185301.	0.7	12
38	Convenient synthesis of three-dimensional hierarchical CuS@Pd core-shell cauliflowers decorated on nitrogen-doped reduced graphene oxide for non-enzymatic electrochemical sensing of xanthine. <i>Mikrochimica Acta</i> , 2020, 187, 589.	2.5	12
39	Can "Hot Spots" Be Stable Enough for Surface-Enhanced Raman Scattering?. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13443-13448.	1.5	11
40	Sub-5 nm nanobowl gaps electrochemically templated by SiO <sub>2</sub> -coated Au nanoparticles as surface-enhanced Raman scattering hot spots. <i>Chemical Communications</i> , 2014, 50, 3958-3961.	2.2	10
41	Surface sol-gel growth of ultrathin SiO <sub>2</sub> films on roughened Au electrodes: Extending borrowed SERS to a SERS inactive material. <i>Chemical Physics Letters</i> , 2014, 608, 35-39.	1.2	9
42	Light welding Au nanoparticles assembled at water-air interface for monolayered nanoporous gold films with tunable electrocatalytic activity. <i>Electrochimica Acta</i> , 2020, 334, 135626.	2.6	9
43	Optimizing the energy levels and crystallinity of 2,2'-bithiophene-3,3'-dicarboximide-based polymer donors for high-performance non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7575-7582.	2.7	9
44	Facile synthesis of reduced graphene oxide-modified, nitrogen-doped carbon xerogel with enhanced electrochemical capacitance. <i>Materials Chemistry and Physics</i> , 2014, 148, 1171-1177.	2.0	8
45	Mixed polyvinyl pyrrolidone hydrogel-mediated synthesis of high-quality Ag nanowires for high-performance transparent conductors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21062-21069.	5.2	8
46	Synthesis of gold nanoparticles, their interfacial self-assembly, and plasma welding: A solution-processable strategy to interdigital electrodes. <i>Chemical Physics Letters</i> , 2020, 754, 137603.	1.2	8
47	Ligand exchange based water-soluble, surface-enhanced Raman scattering-tagged gold nanorod probes with improved stability. <i>Chemical Physics Letters</i> , 2011, 513, 241-245.	1.2	7
48	Overcurrent Electrodeposition of Fractal Plasmonic Black Gold with Broad-Band Absorption Properties for Excitation-Immune SERS. <i>ACS Omega</i> , 2020, 5, 8293-8298.	1.6	7
49	Electroless deposition of Ag through-void arrays for integrated extraordinary optical transmission-based plasmonic sensing and surface-enhanced Raman scattering. <i>Chemical Physics Letters</i> , 2015, 636, 78-83.	1.2	6
50	Bulk Phase-Encoded Gold Nanoparticles: The Fourth-Generation Surface-Enhanced Raman Scattering Tag for Hg <sup>2+</sup> Ion Detection. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19267-19272.	1.5	6
51	Strong Fluorescence Enhancement with Silica-Coated Au Nanoshell Dimers. <i>Plasmonics</i> , 2017, 12, 263-269.	1.8	5
52	Iodine ion modification enables Ag nanowire film with improved carrier transport properties and stability as high-performance transparent conductor. <i>Nano Research</i> , 0, , 1.	5.8	5
53	Plasmon-enhanced second-harmonic generation from hybrid ZnO-covered silver-bowl array. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 214003.	0.7	4
54	Tuning the SERS Activity of Au@Pd Core-shell Nanoparticles by Controlling the Thickness of the Pd Shell. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2005, 21, 825-828.	2.2	4

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55	External field-strengthened Ostwald nanowelding. <i>Nano Research</i> , 2022, 15, 4525-4535.	5.8	4
56	Citrate-stabilized large Au nanoparticles: Seed-mediated synthesis and their size-optimized enhanced Raman at Pd overlayers. <i>Chemical Physics Letters</i> , 2015, 628, 91-95.	1.2	3
57	pH-induced aggregation growth of large Au nanoparticles from zwitterionic ligand-modified small Au nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 6-12.	2.3	3
58	pH-Induced Concentration and Preservation of Zwitterion-Modified Gold Nanoparticles. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2013, 29, 319-326.	2.2	3
59	Bottom-up fabrication of three-dimensional nanoporous gold from Au nanoparticles using nanowelding. <i>Science China Materials</i> , 2022, 65, 2755-2762.	3.5	2
60	Surface-Enhanced Raman Scattering from Self-Assembled Film of Thiolated Peg-Modified Gold Nanoparticles. <i>Journal of Applied Spectroscopy</i> , 2017, 84, 407-412.	0.3	1
61	Particle-dressed, Silica Shell-isolated Cavity Architectures for Surface-enhanced Raman Scattering. <i>Chemistry Letters</i> , 2015, 44, 989-991.	0.7	0
62	Sterically Stabilized, Surface-Enhanced Raman Scattering-Tagged Gold Nanorod Probes for Immunoassay. <i>Acta Chimica Sinica</i> , 2012, 70, 65.	0.5	0