

# Haibing Xia

## List of Publications by Year in descending order

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97  
papers

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citations

71061

41  
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66  
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98  
docs citations

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times ranked

7431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk crystal growth of hybrid perovskite material $\text{CH}_3\text{NH}_3\text{PbI}_3$ . CrystEngComm, 2015, 17, 665-670.	1.3	483
2	Formation of Hybrid Perovskite Tin Iodide Single Crystals by Top-Seeded Solution Growth. Angewandte Chemie - International Edition, 2016, 55, 3447-3450.	7.2	238
3	Efficient Synthesis of $\text{MCu}$ (M = Pd, Pt, and Au) Aerogels with Accelerated Gelation Kinetics and their High Electrocatalytic Activity. Advanced Materials, 2016, 28, 8779-8783.	11.1	213
4	Synthesis of Monodisperse Quasi-Spherical Gold Nanoparticles in Water via Silver(I)-Assisted Citrate Reduction. Langmuir, 2010, 26, 3585-3589.	1.6	169
5	Novel Method for the Preparation of Polymeric Hollow Nanospheres Containing Silver Cores with Different Sizes. Chemistry of Materials, 2005, 17, 3578-3581.	3.2	152
6	Nanovoid Incorporated $\text{Ir}_x\text{Cu}$ Metallic Aerogels for Oxygen Evolution Reaction Catalysis. ACS Energy Letters, 2018, 3, 2038-2044.	8.8	129
7	Rapid Seeded Growth of Monodisperse, Quasi-Spherical, Citrate-Stabilized Gold Nanoparticles via $\text{H}_2\text{O}_2$ Reduction. Langmuir, 2012, 28, 13720-13726.	1.6	114
8	Fabrication of Macroscopic Freestanding Films of Metallic Nanoparticle Monolayers by Interfacial Self-Assembly. Advanced Materials, 2008, 20, 4253-4256.	11.1	108
9	Simple Synthesis of Monodisperse, Quasi-spherical, Citrate-Stabilized Silver Nanocrystals in Water. Langmuir, 2013, 29, 5074-5079.	1.6	106
10	Revitalizing the Frens Method To Synthesize Uniform, Quasi-Spherical Gold Nanoparticles with Deliberately Regulated Sizes from 2 to 330 nm. Langmuir, 2016, 32, 5870-5880.	1.6	93
11	Crystallographic Investigations into Properties of Acentric Hybrid Perovskite Single Crystals $\text{NH}(\text{CH}_3)_3\text{SnX}_3$ (X = Cl, Br). Chemistry of Materials, 2016, 28, 6968-6974.	3.2	92
12	Facile Fabrication of $\text{AgCl}@$ Polypyrrole~Chitosan Core~Shell Nanoparticles and Polymeric Hollow Nanospheres. Langmuir, 2004, 20, 9909-9912.	1.6	85
13	Realizing a Record Photothermal Conversion Efficiency of Spiky Gold Nanoparticles in the Second Near-Infrared Window by Structure-Based Rational Design. Chemistry of Materials, 2018, 30, 2709-2718.	3.2	85
14	Intermetallic $\text{Pd}_3\text{Pb}$ nanowire networks boost ethanol oxidation and oxygen reduction reactions with significantly improved methanol tolerance. Journal of Materials Chemistry A, 2017, 5, 23952-23959.	5.2	78
15	Synthesis of open-mouthed, yolk-shell $\text{Au}@$ $\text{AgPd}$ nanoparticles with access to interior surfaces for enhanced electrocatalysis. Chemical Science, 2015, 6, 4350-4357.	3.7	77
16	Tumor microenvironment-responsive multifunctional peptide coated ultrasmall gold nanoparticles and their application in cancer radiotherapy. Theranostics, 2020, 10, 5195-5208.	4.6	75
17	Facile Fabrication of Water-Soluble Magnetic Nanoparticles and Their Spherical Aggregates. Chemistry of Materials, 2007, 19, 4087-4091.	3.2	69
18	Top-Seeded Solution Growth, Morphology, and Properties of a Polar Crystal $\text{Cs}_2\text{TeMo}_3\text{O}_{12}$ . Crystal Growth and Design, 2011, 11, 1863-1868.	1.4	69

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19	PdCuPt Nanocrystals with Multibranches for Enzyme-Free Glucose Detection. ACS Applied Materials & Interfaces, 2016, 8, 22196-22200.	4.0	68
20	Low Pt-content ternary PdCuPt nanodendrites: an efficient electrocatalyst for oxygen reduction reaction. Nanoscale, 2017, 9, 1279-1284.	2.8	66
21	Synthesis and Characterization of Surface-Functionalized Conducting Polyaniline-Chitosan Nanocomposite. Journal of Nanoscience and Nanotechnology, 2005, 5, 466-473.	0.9	65
22	Controlled chelation between tannic acid and Fe precursors to obtain N, S co-doped carbon with high density Fe-single atom-nanoclusters for highly efficient oxygen reduction reaction in Zn-air batteries. Journal of Materials Chemistry A, 2020, 8, 17136-17149.	5.2	64
23	A Facile Method for Synthesizing Dendritic Core-Shell Structured Ternary Metallic Aerogels and Their Enhanced Electrochemical Performances. Chemistry of Materials, 2016, 28, 7928-7934.	3.2	60
24	Synthesis of core-shell Au-Pt nanodendrites with high catalytic performance via overgrowth of platinum on in situ gold nanoparticles. Journal of Materials Chemistry A, 2015, 3, 368-376.	5.2	59
25	Effect and mechanism analysis of MnO <sub>2</sub> on permeable reactive barrier (PRB) system for the removal of tetracycline. Chemosphere, 2018, 193, 702-710.	4.2	59
26	Synthesis of Monodisperse, Quasi-Spherical Silver Nanoparticles with Sizes Defined by the Nature of Silver Precursors. Langmuir, 2014, 30, 2498-2504.	1.6	55
27	Highly branched PtCu bimetallic alloy nanodendrites with superior electrocatalytic activities for oxygen reduction reactions. Nanoscale, 2016, 8, 5076-5081.	2.8	55
28	Size Control Synthesis of Monodisperse, Quasi-Spherical Silver Nanoparticles To Realize Surface-Enhanced Raman Scattering Uniformity and Reproducibility. ACS Applied Materials & Interfaces, 2019, 11, 17637-17646.	4.0	55
29	Ultrathin dendritic IrTe nanotubes for an efficient oxygen evolution reaction in a wide pH range. Journal of Materials Chemistry A, 2018, 6, 8855-8859.	5.2	54
30	Formation of Ordered Arrays of Oriented Polyaniline Nanoparticle Nanorods. Journal of Physical Chemistry B, 2005, 109, 12677-12684.	1.2	53
31	Kinetically Controlled Synthesis of Pt-Based One-Dimensional Hierarchically Porous Nanostructures with Large Mesopores as Highly Efficient ORR Catalysts. ACS Applied Materials & Interfaces, 2016, 8, 35213-35218.	4.0	53
32	Understanding the effect of ultrathin AuPd alloy shells of irregularly shaped Au@AuPd nanoparticles with high-index facets on enhanced performance of ethanol oxidation. Nanoscale, 2015, 7, 20105-20116.	2.8	50
33	Size-Dependent Electrostatic Chain Growth of pH-Sensitive Hairy Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 3726-3730.	7.2	49
34	Directed self-assembly of gold nanoparticles into plasmonic chains. Soft Matter, 2015, 11, 4562-4571.	1.2	49
35	High-Yield Production of Uniform Gold Nanoparticles with Sizes from 31 to 577 nm via One-Pot Seeded Growth and Size-Dependent SERS Property. Particle and Particle Systems Characterization, 2016, 33, 924-932.	1.2	47
36	The impact of size and surface ligand of gold nanorods on liver cancer accumulation and photothermal therapy in the second near-infrared window. Journal of Colloid and Interface Science, 2020, 565, 186-196.	5.0	47

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37	{331}-Faceted trisoctahedral gold nanocrystals: synthesis, superior electrocatalytic performance and highly efficient SERS activity. <i>Nanoscale</i> , 2015, 7, 8405-8415.	2.8	46
38	Correlation of Surface Ag Content in AgPd Shells of Ultrasmall Core-Shell Au@AgPd Nanoparticles with Enhanced Electrocatalytic Performance for Ethanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18434-18443.	1.5	45
39	Aggregation-induced emission enhancement of polycyclic aromatic alkaloid derivatives and the crucial role of excited-state proton-transfer. <i>Chemical Communications</i> , 2011, 47, 2907.	2.2	44
40	Kinetically controlled synthesis of AuPt bi-metallic aerogels and their enhanced electrocatalytic performances. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19626-19631.	5.2	44
41	Freestanding monolayered nanoporous gold films with high electrocatalytic activity via interfacial self-assembly and overgrowth. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4678.	5.2	42
42	High Yield Seedless Synthesis of High-Quality Gold Nanocrystals with Various Shapes. <i>Langmuir</i> , 2014, 30, 2480-2489.	1.6	42
43	Eu/Tb codoped spindle-shaped fluorinated hydroxyapatite nanoparticles for dual-color cell imaging. <i>Nanoscale</i> , 2016, 8, 11580-11587.	2.8	41
44	Hydrogen-Bond-Selective Phase Transfer of Nanoparticles across Liquid/Gel Interfaces. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4953-4956.	7.2	39
45	Water-soluble gold nanoclusters with pH-dependent fluorescence and high colloidal stability over a wide pH range via co-reduction of glutathione and citrate. <i>RSC Advances</i> , 2014, 4, 22651-22659.	1.7	38
46	Fe-Ni Alloy Nanoclusters Anchored on Carbon Aerogels as High-Efficiency Oxygen Electrocatalysts in Rechargeable Zn-Air Batteries. <i>Small</i> , 2021, 17, e2102002.	5.2	38
47	Water-Dispersible Spherically Hollow Clusters of Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2009, 21, 2442-2451.	3.2	37
48	Controlled synthesis of polyaniline nanostructures with junctions using in situ self-assembly of magnetic nanoparticles. <i>Journal of Materials Chemistry</i> , 2005, 15, 4161.	6.7	36
49	Fabrication of polymeric hollow nanospheres, hollow nanocubes and hollow plates. <i>Nanotechnology</i> , 2006, 17, 1661-1667.	1.3	36
50	Simple Synthesis of Au-Pd Alloy Nanowire Networks as Macroscopic, Flexible Electrocatalysts with Excellent Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 602-613.	4.0	36
51	Flux method growth of bulk MoS <sub>2</sub> single crystals and their application as a saturable absorber. <i>CrystEngComm</i> , 2015, 17, 4026-4032.	1.3	35
52	Self-assembled oriented conducting polyaniline nanotubes. <i>Nanotechnology</i> , 2004, 15, 1807-1811.	1.3	34
53	Template-directed synthesis of nitrogen- and sulfur-codoped carbon nanowire aerogels with enhanced electrocatalytic performance for oxygen reduction. <i>Nano Research</i> , 2017, 10, 1888-1895.	5.8	34
54	Synthesis of S-doped AuPbPt alloy nanowire-networks as superior catalysts towards the ORR and HER. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23906-23918.	5.2	32

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55	Modulation of Localized Surface Plasmon Resonance of Nanostructured Gold Crystals by Tuning Their Tip Curvature with Assistance of Iodide and Silver(I) Ions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7887-7895.	1.5	28
56	Effect of Latent Heat in Boiling Water on the Synthesis of Gold Nanoparticles of Different Sizes by using the Turkevich Method. <i>ChemPhysChem</i> , 2015, 16, 447-454.	1.0	28
57	Formation of Hybrid Perovskite Tin Iodide Single Crystals by Top-Seed Solution Growth. <i>Angewandte Chemie</i> , 2016, 128, 3508-3511.	1.6	28
58	Simple synthesis and surface facet-tuning of ultrathin alloy-shells of Au@AuPd nanoparticles via silver-assisted co-reduction onto facet-controlled Au nanoparticles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7675-7685.	5.2	28
59	Fe ultra-small particles anchored on carbon aerogels to enhance the oxygen reduction reaction in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6861-6871.	5.2	28
60	Empirical structural design of core-shell Au@Ag nanoparticles for SERS applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6649-6656.	2.7	27
61	Passively Q-switched mid-infrared laser pulse generation with gold nanospheres as a saturable absorber. <i>Optics Letters</i> , 2018, 43, 1179.	1.7	27
62	Regulating Surface Facets of Metallic Aerogel Electrocatalysts by Size-Dependent Localized Ostwald Ripening. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23081-23093.	4.0	26
63	Radiation preparation of nano-powdered styrene-butadiene rubber (SBR) and its toughening effect for polystyrene and high-impact polystyrene. <i>Radiation Physics and Chemistry</i> , 2007, 76, 1732-1735.	1.4	25
64	Rationalized Fabrication of Structure-Tailored Multishelled Hollow Silica Spheres. <i>Chemistry of Materials</i> , 2019, 31, 7470-7477.	3.2	25
65	Compressive Strain in Core-Shell Au-Pd Nanoparticles Introduced by Lateral Confinement of Deformation Twinning to Enhance the Oxidation Reduction Reaction Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 46902-46911.	4.0	25
66	Promoting charge transfer in hyperbranched, trisoctahedral-shaped core-shell Au@PdPt nanoparticles by facet-dependent construction of transition layers as high performance electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18878-18887.	5.2	24
67	Enhanced p-i-n type perovskite solar cells by doping AuAg@AuAg core-shell alloy nanocrystals into PEDOT:PSS layer. <i>Organic Electronics</i> , 2018, 52, 309-316.	1.4	22
68	Fe-Assisted one-pot synthesis of ultra-small core-shell Au-Pt nanoparticles as superior catalysts towards the HER and ORR. <i>Nanoscale</i> , 2020, 12, 20456-20466.	2.8	22
69	Cyclodextrin-assisted synthesis of water-dispersible polyaniline nanofibers by controlling secondary growth. <i>Materials Chemistry and Physics</i> , 2012, 133, 459-464.	2.0	21
70	In situ crystals as templates to fabricate rectangular shaped hollow polyaniline tubes and their application in drug release. <i>Journal of Materials Chemistry</i> , 2011, 21, 2463.	6.7	19
71	Synthesis of Janus Particles via Strain-Driven Microphase Separation and Their Assembly into Nanoscale Vesicles. <i>ACS Nano</i> , 2014, 8, 11206-11213.	7.3	19
72	Large-Area Monolayer Films of Hexagonal Close-Packed Au@Ag Nanoparticles as Substrates for SERS-Based Quantitative Determination. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13480-13489.	4.0	19

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73	Crown ether derivative assisted growth of oriented polyaniline nanotubes. <i>Nanotechnology</i> , 2006, 17, 3957-3961.	1.3	16
74	Revitalizing spherical Au@Pd nanoparticles with controlled surface-defect density as high performance electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6992-7000.	5.2	16
75	Realizing enhanced luminescence of silver nanocluster-peptide soft hydrogels by PEI reinforcement. <i>Soft Matter</i> , 2018, 14, 8352-8360.	1.2	16
76	Facet-Dependent Long-Term Stability of Gold Aerogels toward Ethylene Glycol Oxidation Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39033-39042.	4.0	15
77	Simple synthesis of uniformly small gold nanoparticles for sensitivity enhancement in colorimetric detection of Pb <sup>2+</sup> by improving nanoparticle reactivity and stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 637-645.	2.7	12
78	pH-Dependent growth of atomic Pd layers on trisoctahedral gold nanoparticles to realize enhanced performance in electrocatalysis and chemical catalysis. <i>Nanoscale</i> , 2018, 10, 22302-22311.	2.8	12
79	Two-dimensional Au & Ag hybrid plasmonic nanoparticle network: broadband nonlinear optical response and applications for pulsed laser generation. <i>Nanophotonics</i> , 2020, 9, 2537-2548.	2.9	12
80	Transition metal ion-assisted synthesis of monodisperse, quasi-spherical gold nanocrystals via citrate reduction. <i>CrystEngComm</i> , 2014, 16, 5268.	1.3	11
81	Fabrication of Au aerogels with {110}-rich facets by size-dependent surface reconstruction for enzyme-free glucose detection. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7588-7598.	2.9	10
82	Nano-Architecture by Molecular Structure-Directing Agent. <i>Chemistry of Materials</i> , 2008, 20, 2432-2434.	3.2	9
83	Synthesis of large gold nanoparticles with deformation twinings by one-step seeded growth with Cu(II)-mediated Ostwald ripening for determining nitrile and isonitrile groups. <i>Nanoscale</i> , 2020, 12, 16934-16943.	2.8	9
84	Macroscopical monolayer films of ordered arrays of gold nanoparticles as SERS substrates for <i>in situ</i> quantitative detection in aqueous solutions. <i>Nanoscale</i> , 2021, 13, 14925-14934.	2.8	9
85	Radiation-induced graft polymerization of maleic acid and maleic anhydride onto ultra-fine powdered styrene-butadiene rubber (UFSBR). <i>Radiation Physics and Chemistry</i> , 2007, 76, 1741-1745.	1.4	8
86	Synthesis of composition and size controlled AuAg alloy nanocrystals via Fe <sup>2+</sup> -assisted citrate reduction. <i>CrystEngComm</i> , 2016, 18, 7154-7162.	1.3	7
87	S-doped AuPd aerogels as high efficiency catalysts for the oxygen reduction reaction by balancing the ratio between bridging S <sub>2</sub> <sup>2-</sup> and apical S <sup>2-</sup> ligands. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7800-7810.	5.2	5
88	Controlled Synthesis of Y-Junction Polyaniline Nanorods and Nanotubes Using <i>In Situ</i> Self-Assembly of Magnetic Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3950-3954.	0.9	3
89	Oriented Gold Nanoparticle-Polyaniline Nanorods with Nanofibers of Controlled Density on Their Surface. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2409-2415.	0.9	3
90	Synthesis of Uniform Gold Nanorods with Large Width to Realize Ultralow SERS Detection. <i>Chemistry - A European Journal</i> , 2021, 27, 7549-7560.	1.7	3

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91	Realization of the dehydrogenation pathway of formic acid oxidation by ultra-small core-shell Au-Pt nanoparticles with discrete Pt shells. <i>Materials Advances</i> , 2022, 3, 2786-2792.	2.6	3
92	A detailed study of growth of nanostructured poly(aniline) particles in the light of thermodynamic interaction balance. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11905.	1.3	2
93	Shape transformation of gold nanoparticles in aqueous CTAB/CTAC solution to generate high-index facets for electrocatalysis and SERS activity. <i>ChemPhysMater</i> , 2023, 2, 97-113.	1.4	2
94	Preparation of Porous Hollow Polyaniline Microspheres and Study on Their &In Vitro& Release Behavior. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 3004-3010.	0.9	1
95	Synthesis of Polyaniline-Coated Carbon Nanotubes and Study on Their pH-Sensitive Conductivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 3087-3094.	0.9	0
96	High Yield Seedless Synthesis of Uniform Silver Nanoparticles with Different Sizes. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5824-5828.	0.9	0
97	<i>A Special Section on</i> Nanomaterial for Energy, Environment and Biology. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5433-5434.	0.9	0