

Haibing Xia

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94
papers

3,726
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35
h-index

58
g-index

98
ext. papers

4,285
ext. citations

7.6
avg, IF

5.48
L-index

#	Paper	IF	Citations
94	Bulk crystal growth of hybrid perovskite material CH ₃ NH ₃ PbI ₃ . <i>CrystEngComm</i> , 2015 , 17, 665-670	3.3	390
93	Formation of Hybrid Perovskite Tin Iodide Single Crystals by Top-Seeded Solution Growth. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3447-50	16.4	176
92	Efficient Synthesis of MCu (M = Pd, Pt, and Au) Aerogels with Accelerated Gelation Kinetics and their High Electrocatalytic Activity. <i>Advanced Materials</i> , 2016 , 28, 8779-8783	24	161
91	Synthesis of monodisperse quasi-spherical gold nanoparticles in water via silver(I)-assisted citrate reduction. <i>Langmuir</i> , 2010 , 26, 3585-9	4	149
90	Novel Method for the Preparation of Polymeric Hollow Nanospheres Containing Silver Cores with Different Sizes. <i>Chemistry of Materials</i> , 2005 , 17, 3578-3581	9.6	144
89	Rapid seeded growth of monodisperse, quasi-spherical, citrate-stabilized gold nanoparticles via H ₂ O ₂ reduction. <i>Langmuir</i> , 2012 , 28, 13720-6	4	99
88	Fabrication of Macroscopic Freestanding Films of Metallic Nanoparticle Monolayers by Interfacial Self-Assembly. <i>Advanced Materials</i> , 2008 , 20, 4253-4256	24	97
87	Nanovoid Incorporated IrxCu Metallic Aerogels for Oxygen Evolution Reaction Catalysis. <i>ACS Energy Letters</i> , 2018 , 3, 2038-2044	20.1	94
86	Simple synthesis of monodisperse, quasi-spherical, citrate-stabilized silver nanocrystals in water. <i>Langmuir</i> , 2013 , 29, 5074-9	4	85
85	Facile fabrication of AgCl@polypyrrole-chitosan core-shell nanoparticles and polymeric hollow nanospheres. <i>Langmuir</i> , 2004 , 20, 9909-12	4	80
84	Synthesis of open-mouthed, yolk-shell Au@AgPd nanoparticles with access to interior surfaces for enhanced electrocatalysis. <i>Chemical Science</i> , 2015 , 6, 4350-4357	9.4	72
83	Crystallographic Investigations into Properties of Acentric Hybrid Perovskite Single Crystals NH(CH ₃) ₃ SnX ₃ (X = Cl, Br). <i>Chemistry of Materials</i> , 2016 , 28, 6968-6974	9.6	69
82	Facile Fabrication of Water-Soluble Magnetic Nanoparticles and Their Spherical Aggregates. <i>Chemistry of Materials</i> , 2007 , 19, 4087-4091	9.6	66
81	Synthesis and characterization of surface-functionalized conducting polyaniline-chitosan nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 466-73	1.3	63
80	Realizing a Record Photothermal Conversion Efficiency of Spiky Gold Nanoparticles in the Second Near-Infrared Window by Structure-Based Rational Design. <i>Chemistry of Materials</i> , 2018 , 30, 2709-2718	9.6	62
79	Low Pt-content ternary PdCuPt nanodendrites: an efficient electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2017 , 9, 1279-1284	7.7	59
78	PdCuPt Nanocrystals with Multibranches for Enzyme-Free Glucose Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22196-200	9.5	59

77	Top-Seeded Solution Growth, Morphology, and Properties of a Polar Crystal Cs ₂ TeMo ₃ O ₁₂ . <i>Crystal Growth and Design</i> , 2011 , 11, 1863-1868	3.5	58
76	Revitalizing the Frens Method To Synthesize Uniform, Quasi-Spherical Gold Nanoparticles with Deliberately Regulated Sizes from 2 to 330 nm. <i>Langmuir</i> , 2016 , 32, 5870-80	4	56
75	Intermetallic Pd ₃ Pb nanowire networks boost ethanol oxidation and oxygen reduction reactions with significantly improved methanol tolerance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23952-23959	13	53
74	A Facile Method for Synthesizing Dendritic Core-Shell Structured Ternary Metallic Aerogels and Their Enhanced Electrochemical Performances. <i>Chemistry of Materials</i> , 2016 , 28, 7928-7934	9.6	50
73	Synthesis of core-shell Au@Pt nanodendrites with high catalytic performance via overgrowth of platinum on in situ gold nanoparticles. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 368-376	13	48
72	Highly branched PtCu bimetallic alloy nanodendrites with superior electrocatalytic activities for oxygen reduction reactions. <i>Nanoscale</i> , 2016 , 8, 5076-81	7.7	48
71	Formation of ordered arrays of oriented polyaniline nanoparticle nanorods. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12677-84	3.4	48
70	Size-dependent electrostatic chain growth of pH-sensitive hairy nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3726-30	16.4	44
69	Kinetically Controlled Synthesis of Pt-Based One-Dimensional Hierarchically Porous Nanostructures with Large Mesopores as Highly Efficient ORR Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35213-35218	9.5	44
68	Directed self-assembly of gold nanoparticles into plasmonic chains. <i>Soft Matter</i> , 2015 , 11, 4562-71	3.6	43
67	Aggregation-induced emission enhancement of polycyclic aromatic alkaloid derivatives and the crucial role of excited-state proton-transfer. <i>Chemical Communications</i> , 2011 , 47, 2907-9	5.8	43
66	Correlation of Surface Ag Content in AgPd Shells of Ultrasmall Core-Shell Nanoparticles with Enhanced Electrocatalytic Performance for Ethanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18434-18443	3.8	42
65	Understanding the effect of ultrathin AuPd alloy shells of irregularly shaped Au@AuPd nanoparticles with high-index facets on enhanced performance of ethanol oxidation. <i>Nanoscale</i> , 2015 , 7, 20105-16	7.7	39
64	Synthesis of monodisperse, quasi-spherical silver nanoparticles with sizes defined by the nature of silver precursors. <i>Langmuir</i> , 2014 , 30, 2498-504	4	39
63	{331}-Faceted trisoctahedral gold nanocrystals: synthesis, superior electrocatalytic performance and highly efficient SERS activity. <i>Nanoscale</i> , 2015 , 7, 8405-15	7.7	39
62	Ultrathin dendritic IrTe nanotubes for an efficient oxygen evolution reaction in a wide pH range. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8855-8859	13	37
61	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	13	36
60	Fabrication of polymeric hollow nanospheres, hollow nanocubes and hollow plates. <i>Nanotechnology</i> , 2006 , 17, 1661-7	3.4	36

59	High yield seedless synthesis of high-quality gold nanocrystals with various shapes. <i>Langmuir</i> , 2014 , 30, 2480-9	4	35
58	Kinetically controlled synthesis of AuPt bi-metallic aerogels and their enhanced electrocatalytic performances. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19626-19631	13	35
57	Hydrogen-bond-selective phase transfer of nanoparticles across liquid/gel interfaces. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4953-6	16.4	35
56	Water-Dispersible Spherically Hollow Clusters of Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2009 , 21, 2442-2451	9.6	35
55	Controlled synthesis of polyaniline nanostructures with junctions using in situ self-assembly of magnetic nanoparticles. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4161		35
54	Effect and mechanism analysis of MnO on permeable reactive barrier (PRB) system for the removal of tetracycline. <i>Chemosphere</i> , 2018 , 193, 702-710	8.4	35
53	Tumor microenvironment-responsive multifunctional peptide coated ultrasmall gold nanoparticles and their application in cancer radiotherapy. <i>Theranostics</i> , 2020 , 10, 5195-5208	12.1	34
52	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	3.7	34
51	Eu/Tb codoped spindle-shaped fluorinated hydroxyapatite nanoparticles for dual-color cell imaging. <i>Nanoscale</i> , 2016 , 8, 11580-7	7.7	34
50	High Yield Production of Uniform Gold Nanoparticles with Sizes from 31 to 577 nm via One-Pot Seeded Growth and Size-Dependent SERS Property. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 924-932	3.1	33
49	Self-assembled oriented conducting polyaniline nanotubes. <i>Nanotechnology</i> , 2004 , 15, 1807-1811	3.4	32
48	Size Control Synthesis of Monodisperse, Quasi-Spherical Silver Nanoparticles To Realize Surface-Enhanced Raman Scattering Uniformity and Reproducibility. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17637-17646	9.5	30
47	Simple Synthesis of Au-Pd Alloy Nanowire Networks as Macroscopic, Flexible Electrocatalysts with Excellent Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 602-613	9.5	28
46	Flux method growth of bulk MoS ₂ single crystals and their application as a saturable absorber. <i>CrystEngComm</i> , 2015 , 17, 4026-4032	3.3	26
45	Formation of Hybrid Perovskite Tin Iodide Single Crystals by Top-Seeded Solution Growth. <i>Angewandte Chemie</i> , 2016 , 128, 3508-3511	3.6	26
44	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	3.8	25
43	The impact of size and surface ligand of gold nanorods on liver cancer accumulation and photothermal therapy in the second near-infrared window. <i>Journal of Colloid and Interface Science</i> , 2020 , 565, 186-196	9.3	24
42	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	10	23

41	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	2.5	23
40	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. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17136-17149	13	23
39	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, 447-54	3.2	21
38	Passively Q-switched mid-infrared laser pulse generation with gold nanospheres as a saturable absorber. <i>Optics Letters</i> , 2018 , 43, 1179-1182	3	21
37	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	13	20
36	Regulating Surface Facets of Metallic Aerogel Electrocatalysts by Size-Dependent Localized Ostwald Ripening. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23081-23093	9.5	19
35	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	3.5	19
34	Empirical structural design of core@shell Au@Ag nanoparticles for SERS applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6649-6656	7.1	18
33	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		18
32	Rationalized Fabrication of Structure-Tailored Multishelled Hollow Silica Spheres. <i>Chemistry of Materials</i> , 2019 , 31, 7470-7477	9.6	17
31	Cyclodextrin-assisted synthesis of water-dispersible polyaniline nanofibers by controlling secondary growth. <i>Materials Chemistry and Physics</i> , 2012 , 133, 459-464	4.4	17
30	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	13	17
29	Crown ether derivative assisted growth of oriented polyaniline nanotubes. <i>Nanotechnology</i> , 2006 , 17, 3957-3961	3.4	16
28	Synthesis of Janus particles via strain-driven microphase separation and their assembly into nanoscale vesicles. <i>ACS Nano</i> , 2014 , 8, 11206-13	16.7	15
27	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 & Interfaces</i> , 2019 , 11, 46902-46911	9.5	15
26	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	13	14
25	Realizing enhanced luminescence of silver nanocluster-peptide soft hydrogels by PEI reinforcement. <i>Soft Matter</i> , 2018 , 14, 8352-8360	3.6	14
24	Simple synthesis of uniformly small gold nanoparticles for sensitivity enhancement in colorimetric detection of Pb ²⁺ by improving nanoparticle reactivity and stability. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 637-645	7.1	11

23	Size-Dependent Electrostatic Chain Growth of pH-Sensitive Hairy Nanoparticles. <i>Angewandte Chemie</i> , 2013 , 125, 3814-3818	3.6	10
22	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	13	10
21	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	13	10
20	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	7.7	9
19	Transition metal ion-assisted synthesis of monodisperse, quasi-spherical gold nanocrystals via citrate reduction. <i>CrystEngComm</i> , 2014 , 16, 5268	3.3	8
18	Nano-Architecture by Molecular Structure-Directing Agent. <i>Chemistry of Materials</i> , 2008 , 20, 2432-2434	9.6	8
17	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	2.5	8
16	Facet-Dependent Long-Term Stability of Gold Aerogels toward Ethylene Glycol Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39033-39042	9.5	8
15	Fe(II)-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	7.7	7
14	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	7.3	7
13	Fe-Ni Alloy Nanoclusters Anchored on Carbon Aerogels as High-Efficiency Oxygen Electrocatalysts in Rechargeable Zn-Air Batteries. <i>Small</i> , 2021 , 17, e2102002	11	7
12	Synthesis of composition and size controlled AuAg alloy nanocrystals via Fe ²⁺ -assisted citrate reduction. <i>CrystEngComm</i> , 2016 , 18, 7154-7162	3.3	6
11	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	6.3	5
10	Oriented gold nanoparticle-polyaniline nanorods with nanofibers of controlled density on their surface. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2409-15	1.3	3
9	Controlled synthesis of Y-junction polyaniline nanorods and nanotubes using in situ self-assembly of magnetic nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3950-4	1.3	3
8	Macroscopical monolayer films of ordered arrays of gold nanoparticles as SERS substrates for quantitative detection in aqueous solutions. <i>Nanoscale</i> , 2021 , 13, 14925-14934	7.7	3
7	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, 11905-11	3.6	2
6	Synthesis of large gold nanoparticles with deformation twinnings by one-step seeded growth with Cu(II)-mediated Ostwald ripening for determining nitrile and isonitrile groups. <i>Nanoscale</i> , 2020 , 12, 16934-16943	7.7	3

- 5 S-doped AuPd aerogels as high efficiency catalysts for the oxygen reduction reaction by balancing the ratio between bridging S₂ and apical S ligands. *Journal of Materials Chemistry A*, **2022**, 10, 7800-7810 13 2
- 4 Preparation of porous hollow polyaniline microspheres and study on their in vitro release behavior. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 3004-10 13 1
- 3 Synthesis of Uniform Gold Nanorods with Large Width to Realize Ultralow SERS Detection. *Chemistry - A European Journal*, **2021**, 27, 7549-7560 4.8 0
- 2 High Yield Seedless Synthesis of Uniform Silver Nanoparticles with Different Sizes. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 5824-8 13
- 1 A Special Section on Nanomaterial for Energy, Environment and Biology. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 5433-4 13