Xin Du

List of Publications by Year in Descending Order

107 papers	6,761 citations	42 h-index	81 g-index
112 ext. papers	7,624 ext. citations	8.4 avg, IF	6.41 L-index

#	Paper	IF	Citations
107	One-pot fabrication of crosslinked nanochains composed of resorcinol–formaldehyde resin hollow nanospheres with tunable shell thickness by using poly(acrylic acid) as template. *Materials Today Communications*, **2022**, 103281	2.5	0
106	"Gold Inlaid with Hair": Permanent Fluorescent Hair Dyeing Using Fast Protein-Assisted Biomineralization of Gold Nanoclusters. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 305-313	8.3	1
105	Dendritic porous silica nanoparticles with high-curvature structures for a dual-mode DNA sensor based on fluorometer and person glucose meter. *Mikrochimica Acta*, **2021**, 188, 407	5.8	2
104	Mesoporous silica nanosheets with well-dispersed small Ag nanoparticles for the construction of robust transparent antibacterial nanocoatings. *Microporous and Mesoporous Materials*, **2021**, 328, 111478	5.3	1
103	Stellate porous silica based surface-enhanced Raman scattering system for traceable gene delivery. *Chinese Chemical Letters*, **2021**, 32, 1942-1946	8.1	2
102	Well-dispersed Pt nanoparticles with tunable sizes on dendritic porous silica nanospheres as an artificial enzyme. *Journal of Alloys and Compounds*, **2021**, 865, 158862	5.7	3
101	Synthesis of dendritic porous silica nanospheres coated by polymer layer with well-dispersed ultrasmall Pt nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 618, 126407	5.1	
100	Advanced micro/nanomotors for enhanced bioadhesion and tissue penetration. *Applied Materials Today*, **2021**, 23, 101034	6.6	8
99	Nano-Au-modified TiO2 grown on dendritic porous silica particles for enhanced CO2 photoreduction. *Microporous and Mesoporous Materials*, **2021**, 310, 110635	5.3	7
98	Near-infrared light-driven yolk@shell carbon@silica nanomotors for fuel-free triglyceride degradation. *Nano Research*, **2021**, 14, 654-659	10	7
97	Dendritic mesoporous organosilica nanoparticles (DMONs): Chemical composition, structural architecture, and promising applications. *Nano Today*, **2021**, 39, 101231	17.9	13
96	Simple and low cost fabrication of large area nanocoatings with mechanical robustness, enhanced broadband transmittance and antifogging. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 629, 127522	5.1	3
95	Polyethylenimine-modified graphitic carbon nitride nanosheets: a label-free Raman traceable siRNA delivery system. *Journal of Materials Chemistry B*, **2021**, 9, 6895-6901	7.3	1
94	Label-free physical and electrochemical imaging of latent fingerprints by water and SECM. *Electrochimica Acta*, **2020**, 350, 136373	6.7	5
93	Construction of dendritic Janus nanomotors with HO and NIR light dual-propulsion via a Pickering emulsion. *Soft Matter*, **2020**, 16, 4961-4968	3.6	16
92	Thioether-bridged mesoporous organosilica nanocapsules with weak acid-triggered charge reversal for drug delivery. *Microporous and Mesoporous Materials*, **2020**, 302, 110242	5.3	7
91	Core@Satellite Janus Nanomotors with pH-Responsive Multi-phoretic Propulsion. *Angewandte Chemie*, **2020**, 132, 14474-14478	3.6	10

90	Core@Satellite Janus Nanomotors with pH-Responsive Multi-phoretic Propulsion. *Angewandte Chemie - International Edition*, **2020**, 59, 14368-14372	16.4	22
89	Facet-charge-induced coupling dependent interfacial photocharge separation: A case of BiOI/g-C3N4 p-n junction. *Applied Catalysis B: Environmental*, **2020**, 267, 118697	21.8	104
88	A facile strategy to form three-dimensional network structure for mechanically robust superhydrophobic nanocoatings with enhanced transmittance. *Journal of Colloid and Interface Science*, **2020**, 563, 42-53	9.3	17
87	NIR powered Janus nanocarrier for deep tumor penetration. *Applied Materials Today*, **2020**, 18, 100504	6.6	21
86	Cancer Therapy: Cancer Cell Membrane Camouflaged Semi-Yolk@Spiky-Shell Nanomotor for Enhanced Cell Adhesion and Synergistic Therapy (Small 39/2020). *Small*, **2020**, 16, 2070215	11	
85	Ultrafine nano-TiO2 loaded on dendritic porous silica nanoparticles for robust transparent antifogging self-cleaning nanocoatings. *Ceramics International*, **2020**, 46, 23651-23661	5.1	3
84	Growth of Cu-BTC MOFs on dendrimer-like porous silica nanospheres for the catalytic aerobic epoxidation of olefins. *New Journal of Chemistry*, **2020**, 44, 14350-14357	3.6	4
83	Cancer Cell Membrane Camouflaged Semi-Yolk@Spiky-Shell Nanomotor for Enhanced Cell Adhesion and Synergistic Therapy. *Small*, **2020**, 16, e2003834	11	29
82	Janus dendritic silica/carbon@Pt nanomotors with multiengines for HO, near-infrared light and lipase powered propulsion. *Soft Matter*, **2020**, 16, 9553-9558	3.6	10
81	Exploration of accessibility of internal pore surface by using rigid nanoparticles as a probe for constructing the integrated nanocomposites. *Journal of Alloys and Compounds*, **2020**, 815, 152641	5.7	5
80	Dendritic fibrous nano-particles (DFNPs): rising stars of mesoporous materials. *Journal of Materials Chemistry A*, **2019**, 7, 5111-5152	13	73
79	Size-dependent selectivity and activity of CO2 photoreduction over black nano-titanias grown on dendritic porous silica particles. *Applied Catalysis B: Environmental*, **2019**, 255, 117768	21.8	20
78	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. *Journal of Materials Chemistry A*, **2019**, 7, 11584-11612	13	109
77	Dendritic Janus Nanomotors with Precisely Modulated Coverages and Their Effects on Propulsion. *ACS Applied Materials & Interfaces*, **2019**, 11, 10426-10433	9.5	29
76	Hollow mesoporous carbon@Pt Janus nanomotors with dual response of H2O2 and near-infrared light for active cargo delivery. *Applied Materials Today*, **2019**, 17, 85-91	6.6	27
75	Effect of surface topology morphologies of silica nanocarriers on the loading of Ag nanoparticles and antibacterial performance. *Journal of Alloys and Compounds*, **2019**, 783, 136-144	5.7	20
74	Broadband antireflective superhydrophilic antifogging nano-coatings based on three-layer system. *Microporous and Mesoporous Materials*, **2018**, 255, 84-93	5.3	31
73	Ferroelectric spontaneous polarization steering charge carriers migration for promoting photocatalysis and molecular oxygen activation. *Journal of Colloid and Interface Science*, **2018**, 509, 113-122	9.3	75

72	Facile synthesis of mesoporous organosilica nanobowls with bridged silsesquioxane framework by one-pot growth and dissolution mechanism. *Journal of Colloid and Interface Science*, **2018**, 528, 379-388	9.3	15
71	Homodimerization of 2H-chromenes catalyzed by Brønsted-acid derived UiO-66 MOFs. *Catalysis Science and Technology*, **2018**, 8, 3406-3413	5.5	11
70	Tunable dendrimer-like porous silica nanospheres: Effects of structures and stacking manners on surface wettability. *Journal of Alloys and Compounds*, **2018**, 732, 70-79	5.7	15
69	Disulfide-Bridged Organosilica Frameworks: Designed, Synthesis, Redox-Triggered Biodegradation, and Nanobiomedical Applications. *Advanced Functional Materials*, **2018**, 28, 1707325	15.6	106
68	Dendritic Silica Particles with Well-Dispersed Ag Nanoparticles for Robust Antireflective and Antibacterial Nanocoatings on Polymeric Glass. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14071-14081	8.3	28
67	Wettability alteration in a functional capillary tube for visual quantitative point of care testing. *Analyst, The*, **2018**, 143, 3001-3005	5	2
66	A facile 2H-chromene dimerization through an ortho-quinone methide intermediate catalyzed by a sulfonyl derived MIL-101 MOF. *New Journal of Chemistry*, **2018**, 42, 12722-12728	3.6	9
65	Novel yolk-shell polymer/carbon@Au nanocomposites by using dendrimer-like mesoporous silica nanoparticles as hard template. *Journal of Alloys and Compounds*, **2017**, 700, 83-91	5.7	22
64	Achieving highly promoted visible-light sensitive photocatalytic activity on BiOIO3 via facile iodine doping. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 518, 158-165	5.1	24
63	One-pot synthesis of redox-triggered biodegradable hybrid nanocapsules with a disulfide-bridged silsesquioxane framework for promising drug delivery. *Journal of Materials Chemistry B*, **2017**, 5, 4455-4469	7.3	41
62	A Voltage-Responsive Free-Blockage Controlled-Release System Based on Hydrophobicity Switching. *ChemPhysChem*, **2017**, 18, 1317-1323	3.2	4
61	Bismuth oxychloride homogeneous phasejunction BiOCl/Bi 12 O 17 Cl 2 with unselectively efficient photocatalytic activity and mechanism insight. *Applied Surface Science*, **2017**, 420, 303-312	6.7	68
60	Picolinoyl functionalized MOF ligands for an air-promoted secondary alcohol oxidation with CuBr. *New Journal of Chemistry*, **2017**, 41, 4400-4405	3.6	8
59	Vertically Aligned Nanosheets-Array-like BiOI Homojunction: Three-in-One Promoting Photocatalytic Oxidation and Reduction Abilities. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5253-5264	8.3	51
58	Precursor-reforming protocol to 3D mesoporous g-C3N4 established by ultrathin self-doped nanosheets for superior hydrogen evolution. *Nano Energy*, **2017**, 38, 72-81	17.1	441
57	Smart Design of Small Pd Nanoparticles Confined in Hollow Carbon Nanospheres with Large Center-Radial Mesopores. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2516-2516	2.3	
56	Multifunctional Hybrid Nanoparticles for Traceable Drug Delivery and Intracellular Microenvironment-Controlled Multistage Drug-Release in Neurons. *Small*, **2017**, 13, 1603966	11	18
55	Smart Design of Small Pd Nanoparticles Confined in Hollow Carbon Nanospheres with Large Center-Radial Mesopores. *European Journal of Inorganic Chemistry*, **2017**, 2017, 2517-2524	2.3	8

54	Intermediate-mediated strategy to horn-like hollow mesoporous ultrathin g-C3N4 tube with spatial anisotropic charge separation for superior photocatalytic H2 evolution. *Nano Energy*, **2017**, 41, 738-748	17.1	179
53	In-depth insight into facet-dependent charge movement behaviors and photo-redox catalysis: A case of {001} and {010} facets BiOCl. *Journal of Colloid and Interface Science*, **2017**, 508, 174-183	9.3	30
52	Dendritic porous yolk@ordered mesoporous shell structured heterogeneous nanocatalysts with enhanced stability. *Journal of Materials Chemistry A*, **2017**, 5, 21560-21569	13	37
51	Achieving Enhanced UV and Visible Light Photocatalytic Activity for Ternary Ag/AgBr/BiOIO3: Decomposition for Diverse Industrial Contaminants with Distinct Mechanisms and Complete Mineralization Ability. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7777-7791	8.3	65
50	Template-free precursor-surface-etching route to porous, thin g-C3N4 nanosheets for enhancing photocatalytic reduction and oxidation activity. *Journal of Materials Chemistry A*, **2017**, 5, 17452-17463	13	260
49	Universal and one-step visualization of latent fingermarks on various surfaces using hydrophilic cellulose membrane and dye aqueous solution. *Science China Chemistry*, **2017**, 60, 1250-1257	7.9	8
48	Hollow Carbon Nanospheres with Tunable Hierarchical Pores for Drug, Gene, and Photothermal Synergistic Treatment. *Small*, **2017**, 13, 1602592	11	92
47	Systematic study of dye loaded small mesoporous silica nanoparticles for detecting latent fingerprints on various substrates. *Journal of Porous Materials*, **2017**, 24, 13-20	2.4	25
46	Non-noble metal Bi deposition by utilizing Bi2WO6 as the self-sacrificing template for enhancing visible light photocatalytic activity. *Applied Surface Science*, **2017**, 391, 491-498	6.7	78
45	Dual visible-light active components containing self-doped Bi 2 O 2 CO 3 /g-C 3 N 4 2D-2D heterojunction with enhanced visible-light-driven photocatalytic activity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 511, 64-72	5.1	22
44	In situ assembly of BiOI@Bi 12 O 17 Cl 2 p - n junction: charge induced unique front-lateral surfaces coupling heterostructure with high exposure of BiOI {001} active facets for robust and nonselective photocatalysis. *Applied Catalysis B: Environmental*, **2016**, 199, 75-86	21.8	494
43	Mesoporous silica nanoparticles with organo-bridged silsesquioxane framework as innovative platforms for bioimaging and therapeutic agent delivery. *Biomaterials*, **2016**, 91, 90-127	15.6	199
42	Broadband antireflective superhydrophobic self-cleaning coatings based on novel dendritic porous particles. *RSC Advances*, **2016**, 6, 7864-7871	3.7	28
41	Dendrimer-like nanoparticles based β-galactosidase assembly for enhancing its selectivity toward transgalactosylation. *Enzyme and Microbial Technology*, **2016**, 84, 68-77	3.8	11
40	Simultaneously promoting charge separation and photoabsorption of BiOX (X = Cl, Br) for efficient visible-light photocatalysis and photosensitization by compositing low-cost biochar. *Applied Surface Science*, **2016**, 386, 285-295	6.7	87
39	Easily and Synchronously Ameliorating Charge Separation and Band Energy Level in Porous g-C3N4 for Boosting Photooxidation and Photoreduction Ability. *Journal of Physical Chemistry C*, **2016**, 120, 10381-10389	3.8	81
38	Achieving tunable photocatalytic activity enhancement by elaborately engineering composition-adjustable polynary heterojunctions photocatalysts. *Applied Catalysis B: Environmental* , **2016**, 194, 62-73	21.8	61
37	Sulfur-doping synchronously ameliorating band energy structure and charge separation achieving decent visible-light photocatalysis of Bi2O2CO3. *RSC Advances*, **2016**, 6, 94361-94364	3.7	14

36	PGA-coated mesoporous silica nanoparticles with covalently attached prodrugs for enhanced cellular uptake and intracellular GSH-responsive release. *Advanced Healthcare Materials*, **2015**, 4, 771-81	10.1	42
35	Wettability behavior of special microscale ZnO nail-coated mesh films for oil-water separation. *Journal of Colloid and Interface Science*, **2015**, 458, 79-86	9.3	42
34	In Situ Co-Crystallization for Fabrication of g-C3N4/Bi5O7I Heterojunction for Enhanced Visible-Light Photocatalysis. *Journal of Physical Chemistry C*, **2015**, 119, 17156-17165	3.8	138
33	In situ co-pyrolysis fabrication of CeO2/g-C3N4 n type heterojunction for synchronously promoting photo-induced oxidation and reduction properties. *Journal of Materials Chemistry A*, **2015**, 3, 17120-17129	13	256
32	Dendrimer-like hybrid particles with tunable hierarchical pores. *Nanoscale*, **2015**, 7, 6173-84	7.7	53
31	A General and Facile Approach to Heterostructured Core/Shell BiVO4/BiOI p Junction: Room-Temperature in Situ Assembly and Highly Boosted Visible-Light Photocatalysis. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 3262-3273	8.3	251
30	Bi2O2(OH)(NO3) as a desirable [Bi2O2]2+ layered photocatalyst: strong intrinsic polarity, rational band structure and {001} active facets co-beneficial for robust photooxidation capability. *Journal of Materials Chemistry A*, **2015**, 3, 24547-24556	13	310
29	Tunable stellate mesoporous silica nanoparticles for intracellular drug delivery. *Journal of Materials Chemistry B*, **2015**, 3, 1712-1721	7.3	53
28	Dendritic silica particles with center-radial pore channels: promising platforms for catalysis and biomedical applications. *Small*, **2015**, 11, 392-413	11	217
27	Cancer-Cell-Specific Nuclear-Targeted Drug Delivery by Dual-Ligand-Modified Mesoporous Silica Nanoparticles. *Small*, **2015**, 11, 5919-26	11	68
26	Label-free dendrimer-like silica nanohybrids for traceable and controlled gene delivery. *Biomaterials*, **2014**, 35, 5580-90	15.6	54
25	Intracellular microenvironment responsive polymers: a multiple-stage transport platform for high-performance gene delivery. *Small*, **2014**, 10, 871-7	11	20
24	Intracellular Microenvironment-Responsive Dendrimer-Like Mesoporous Nanohybrids for Traceable, Effective, and Safe Gene Delivery. *Advanced Functional Materials*, **2014**, 24, 7627-7637	15.6	53
23	N-doped graphene natively grown on hierarchical ordered porous carbon for enhanced oxygen reduction. *Advanced Materials*, **2013**, 25, 6226-31	24	358
22	Developing functionalized dendrimer-like silica nanoparticles with hierarchical pores as advanced delivery nanocarriers. *Advanced Materials*, **2013**, 25, 5981-5	24	173
21	Graphene: N-Doped Graphene Natively Grown on Hierarchical Ordered Porous Carbon for Enhanced Oxygen Reduction (Adv. Mater. 43/2013). *Advanced Materials*, **2013**, 25, 6150-6150	24	1
20	Structurally colored surfaces with antireflective, self-cleaning, and antifogging properties. *Journal of Colloid and Interface Science*, **2012**, 381, 189-97	9.3	33
19	Carrier effect in the synthesis of rattle-type Au@hollow silica nanospheres by impregnation and thermal decomposition method. *Microporous and Mesoporous Materials*, **2012**, 163, 201-210	5.3	18

18	Amino-functionalized silica nanoparticles with center-radially hierarchical mesopores as ideal catalyst carriers. *Nanoscale*, **2012**, 4, 852-9	7.7	109
17	One-pot fabrication of noble-metal nanoparticles that are encapsulated in hollow silica nanospheres: dual roles of poly(acrylic acid). *Chemistry - A European Journal*, **2012**, 18, 7878-85	4.8	35
16	A self-templated etching route to surface-rough silica nanoparticles for superhydrophobic coatings. *ACS Applied Materials & Interfaces*, **2011**, 3, 1269-76	9.5	72
15	Spherical silica micro/nanomaterials with hierarchical structures: synthesis and applications. *Nanoscale*, **2011**, 3, 3984-4002	7.7	149
14	Hierarchically mesoporous silica nanoparticles: extraction, amino-functionalization, and their multipurpose potentials. *Langmuir*, **2011**, 27, 2972-9	4	72
13	Rapid assessment of DNA damage induced by polystyrene nanosphere suspension using a photoelectrochemical DNA sensor. *Science China Chemistry*, **2011**, 54, 1260-1265	7.9	5
12	Facile fabrication of hollow mesoporous silica nanospheres for superhydrophilic and visible/near-IR antireflection coatings. *Chemistry - A European Journal*, **2011**, 17, 8165-74	4.8	70
11	Self-cleaning antireflective coatings assembled from peculiar mesoporous silica nanoparticles. *Langmuir*, **2010**, 26, 13528-34	4	154
10	Fine-tuning of silica nanosphere structure by simple regulation of the volume ratio of cosolvents. *Langmuir*, **2010**, 26, 10057-62	4	92
9	Elaborate control over the morphology and structure of mercapto-functionalized mesoporous silicas as multipurpose carriers. *Dalton Transactions*, **2010**, 39, 9063-72	4.3	23
8	Facile fabrication of hierarchically structured silica coatings from hierarchically mesoporous silica nanoparticles and their excellent superhydrophilicity and superhydrophobicity. *ACS Applied Materials & Interfaces*, **2010**, 2, 2365-72	9.5	95
7	Regulation role of ibuprofen toward the morphology of porous silica nanospheres during its in situ encapsulation. *Journal of Colloid and Interface Science*, **2010**, 345, 269-77	9.3	29
6	Effects of F doping on TiO2 acidic sites and their application in QCM based gas sensors. *Sensors and Actuators B: Chemical*, **2010**, 151, 205-211	8.5	28
5	Facile preparation of titania hollow spheres by combination of the mixed solvent method and the sol–gel process and post-calcination. *Materials Research Bulletin*, **2009**, 44, 1238-1243	5.1	13
4	Facile Fabrication of Raspberry-like Composite Nanoparticles and Their Application as Building Blocks for Constructing Superhydrophilic Coatings. *Journal of Physical Chemistry C*, **2009**, 113, 9063-9070	3.8	129
3	Facile Preparation of F and N Codoped Pinecone-Like Titania Hollow Microparticles with Visible Light Photocatalytic Activity. *Journal of Physical Chemistry C*, **2009**, 113, 14151-14158	3.8	37
2	Hierarchically structured porous films of silica hollow spheres via layer-by-layer assembly and their superhydrophilic and antifogging properties. *ChemPhysChem*, **2008**, 9, 305-9	3.2	85
1	Facile size-controllable syntheses of highly monodisperse polystyrene nano- and microspheres by polyvinylpyrrolidone-mediated emulsifier-free emulsion polymerization. *Journal of Applied Polymer Science*, **2008**, 108, 1755-1760	2.9	95