

# Ziwei Deng

## List of Publications by Year in descending order

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72  
papers

4,590  
citations

101543

36  
h-index

98798

67  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin Co <sub>3</sub> O <sub>4</sub> Nanomeshes for the Oxygen Evolution Reaction. ACS Catalysis, 2018, 8, 1913-1920.	11.2	435
2	A Facile Method to Fabricate ZnO Hollow Spheres and Their Photocatalytic Property. Journal of Physical Chemistry B, 2008, 112, 16-22.	2.6	328
3	Hollow chitosan-silica nanospheres as pH-sensitive targeted delivery carriers in breast cancer therapy. Biomaterials, 2011, 32, 4976-4986.	11.4	245
4	Novel Method to Fabricate SiO <sub>2</sub> /Ag Composite Spheres and Their Catalytic, Surface-Enhanced Raman Scattering Properties. Journal of Physical Chemistry C, 2007, 111, 11692-11698.	3.1	221
5	A Novel Method for the Fabrication of Monodisperse Hollow Silica Spheres. Langmuir, 2006, 22, 6403-6407.	3.5	205
6	Mussel-inspired polydopamine coating as a versatile platform for synthesizing polystyrene/Ag nanocomposite particles with enhanced antibacterial activities. Journal of Materials Chemistry B, 2014, 2, 3450-3461.	5.8	203
7	Porous Pd-PdO Nanotubes for Methanol Electrooxidation. Advanced Functional Materials, 2020, 30, 2000534.	14.9	138
8	Magnetite-loaded fluorine-containing polymeric micelles for magnetic resonance imaging and drug delivery. Biomaterials, 2012, 33, 3013-3024.	11.4	136
9	Atomically ultrathin RhCo alloy nanosheet aggregates for efficient water electrolysis in broad pH range. Journal of Materials Chemistry A, 2019, 7, 16437-16446.	10.3	136
10	Au Nanowires@Pd-Polyethylenimine Nanohybrids as Highly Active and Methanol-Tolerant Electrocatalysts toward Oxygen Reduction Reaction in Alkaline Media. ACS Catalysis, 2018, 8, 11287-11295.	11.2	129
11	Perfluoropentane-Encapsulated Hollow Mesoporous Prussian Blue Nanocubes for Activated Ultrasound Imaging and Photothermal Therapy of Cancer. ACS Applied Materials & Interfaces, 2015, 7, 4579-4588.	8.0	126
12	Synthesis of PS/Ag Nanocomposite Spheres with Catalytic and Antibacterial Activities. ACS Applied Materials & Interfaces, 2012, 4, 5625-5632.	8.0	123
13	Morphological and Interfacial Control of Platinum Nanostructures for Electrocatalytic Oxygen Reduction. ACS Catalysis, 2016, 6, 5260-5267.	11.2	117
14	Bioinspired polydopamine particles-assisted construction of superhydrophobic surfaces for oil/water separation. Journal of Colloid and Interface Science, 2016, 482, 240-251.	9.4	100
15	Unexpected catalytic activity of rhodium nanodendrites with nanosheet subunits for methanol electrooxidation in an alkaline medium. Nano Research, 2016, 9, 3893-3902.	10.4	86
16	Bioinspired synthesis of polydopamine/Ag nanocomposite particles with antibacterial activities. Materials Science and Engineering C, 2015, 55, 155-165.	7.3	84
17	Ultrasonication-assisted and gram-scale synthesis of Co-LDH nanosheet aggregates for oxygen evolution reaction. Nano Research, 2020, 13, 79-85.	10.4	83
18	Selective Etching Induced Synthesis of Hollow Rh Nanospheres Electrocatalyst for Alcohol Oxidation Reactions. Small, 2018, 14, e1801239.	10.0	82

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19	Bioinspired one-step construction of hierarchical superhydrophobic surfaces for oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 300-310.	9.4	78
20	3D nitrogen-doped graphene aerogels as efficient electrocatalyst for the oxygen reduction reaction. <i>Carbon</i> , 2018, 139, 137-144.	10.3	75
21	Polydopamine Based Colloidal Materials: Synthesis and Applications. <i>Chemical Record</i> , 2018, 18, 410-432.	5.8	67
22	From monometallic Au nanowires to trimetallic AuPtRh nanowires: interface control for the formic acid electrooxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17164-17170.	10.3	67
23	Holey platinum nanotubes for ethanol electrochemical reforming in aqueous solution. <i>Science Bulletin</i> , 2021, 66, 2079-2089.	9.0	66
24	Ultrathin Rhodium Oxide Nanosheet Nanoassemblies: Synthesis, Morphological Stability, and Electrocatalytic Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17195-17200.	8.0	65
25	Synthesis of magnetic, durable and superhydrophobic carbon sponges for oil/water separation. <i>Materials Research Bulletin</i> , 2019, 115, 19-26.	5.2	60
26	Temperature Control of Mussel-Inspired Chemistry toward Hierarchical Superhydrophobic Surfaces for Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600727.	3.7	55
27	Polydopamine-assisted synthesis of raspberry-like nanocomposite particles for superhydrophobic and superoleophilic surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 470, 80-91.	4.7	54
28	A facile in situ hydrophobic layer protected selective etching strategy for the synchronous synthesis/modification of hollow or rattle-type silica nanoconstructs. <i>Journal of Materials Chemistry</i> , 2012, 22, 12553.	6.7	53
29	Self-template synthesis of defect-rich NiO nanotubes as efficient electrocatalysts for methanol oxidation reaction. <i>Nanoscale</i> , 2019, 11, 19783-19790.	5.6	50
30	Synthesis of superhydrophobic polydopamine-Ag microbowl/nanoparticle array substrates for highly sensitive, durable and reproducible surface-enhanced Raman scattering detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 995-1005.	7.8	48
31	Hollow PtNi alloy nanospheres with enhanced activity and methanol tolerance for the oxygen reduction reaction. <i>Nano Research</i> , 2016, 9, 3494-3503.	10.4	46
32	Polydopamine-functionalized polymer particles as templates for mineralization of hydroxyapatite: biomimetic and in vitro bioactivity. <i>RSC Advances</i> , 2016, 6, 6747-6755.	3.6	46
33	Monodisperse polystyrene microspheres prepared by dispersion polymerization with microwave irradiation. <i>Journal of Polymer Science Part A</i> , 2005, 43, 2368-2376.	2.3	43
34	Hollow polydopamine colloidal composite particles: Structure tuning, functionalization and applications. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 43-52.	9.4	41
35	Preparation of silver decorated silica nanocomposite rods for catalytic and surface-enhanced Raman scattering applications. <i>RSC Advances</i> , 2015, 5, 52726-52736.	3.6	40
36	Anodic hydrazine electrooxidation boosted overall water electrolysis by bifunctional porous nickel phosphide nanotubes on nickel foam. <i>Nanoscale</i> , 2020, 12, 11526-11535.	5.6	37

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37	Self-template synthesis of nickel silicate and nickel silicate/nickel composite nanotubes and their applications in wastewater treatment. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 191-199.	9.4	35
38	Fabrication of silver-decorated sulfonated polystyrene microspheres for surface-enhanced Raman scattering and antibacterial applications. <i>RSC Advances</i> , 2015, 5, 69543-69554.	3.6	34
39	Ethanol-tolerant polyethyleneimine functionalized palladium nanowires in alkaline media: the "molecular window gauze"-induced the selectivity for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21083-21089.	10.3	32
40	Preparation of colloidal polydopamine/Au hollow spheres for enhanced ultrasound contrast imaging and photothermal therapy. <i>Materials Science and Engineering C</i> , 2020, 106, 110174.	7.3	29
41	Synthesis of sandwich-structured silver@polydopamine@silver shells with enhanced antibacterial activities. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 47-54.	9.4	28
42	Bifunctional Pd@RhPd Core-Shell Nanodendrites for Methanol Electrolysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35767-35776.	8.0	28
43	Design and Synthesis of Self-Healable Superhydrophobic Coatings for Oil/Water Separation. <i>Langmuir</i> , 2020, 36, 15309-15318.	3.5	27
44	Preparation and characterization of melamine-formaldehyde/Ag composite microspheres with surface-enhanced Raman scattering and antibacterial activities. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 544-554.	9.4	26
45	Bioinspired polydopamine coating as a versatile platform for synthesizing asymmetric Janus particles at an air-water interface. <i>Applied Surface Science</i> , 2020, 509, 145360.	6.1	26
46	Hollow polydopamine nanoparticles loading with peptide RL-QN15: a new pro-regenerative therapeutic agent for skin wounds. <i>Journal of Nanobiotechnology</i> , 2021, 19, 304.	9.1	26
47	Mesoporous polydopamine nanoparticles carrying peptide RL-QN15 show potential for skin wound therapy. <i>Journal of Nanobiotechnology</i> , 2021, 19, 309.	9.1	26
48	Controllable synthesis of hierarchical nickel hydroxide nanotubes for high performance supercapacitors. <i>Chemical Communications</i> , 2018, 54, 559-562.	4.1	25
49	A versatile colloidal Janus platform: surface asymmetry control, functionalization, and applications. <i>Chemical Communications</i> , 2018, 54, 12726-12729.	4.1	23
50	Zn <sup>2+</sup> Cross-Linked Alginate Carrying Hollow Silica Nanoparticles Loaded with RL-QN15 Peptides Provides Promising Treatment for Chronic Skin Wounds. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29491-29505.	8.0	23
51	Preparation of hierarchical superhydrophobic melamine-formaldehyde/Ag nanocomposite arrays as surface-enhanced Raman scattering substrates for ultrasensitive and reproducible detection of biomolecules. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 20-26.	7.8	22
52	Co nanoparticles supported on three-dimensionally N-doped holey graphene aerogels for electrocatalytic oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 143-151.	9.4	21
53	Monodisperse thermosensitive particles prepared by emulsifier-free emulsion polymerization with microwave irradiation. <i>Colloid and Polymer Science</i> , 2005, 283, 1259-1266.	2.1	18
54	Fluorescein functionalized random amino acid copolymers in the biomimetic synthesis of CaCO <sub>3</sub> . <i>Soft Matter</i> , 2011, 7, 9685.	2.7	18

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55	Nisin-loaded polydopamine/hydroxyapatite composites: Biomimetic synthesis, and in vitro bioactivity and antibacterial activity evaluations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125101.	4.7	17
56	Composite polydopamine-based TiO <sub>2</sub> coated mesh with restorable superhydrophobic surfaces for wastewater treatment. <i>Journal of Materials Science</i> , 2021, 56, 7321-7333.	3.7	16
57	A water supply tunable bilayer evaporator for high-quality solar vapor generation. <i>Nanoscale</i> , 2022, 14, 7913-7918.	5.6	15
58	Reproducible and fast preparation of superhydrophobic surfaces via an ultrasound-accelerated one-pot approach for oil collection. <i>Separation and Purification Technology</i> , 2021, 258, 118036.	7.9	14
59	Sacrificial template synthesis of hierarchical nickel hydroxidenitrate hollow colloidal particles for electrochemical energy storage. <i>Chemical Engineering Science</i> , 2020, 217, 115548.	3.8	11
60	Multifunctional CuO-coated Mesh for Wastewater Treatment: Effective Oil/Water Separation, Organic Contaminants Photodegradation, and Bacterial Photodynamic Inactivation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101179.	3.7	11
61	Self-assembled poly(styrene-co-N-isopropylacrylamide) film induced by capillary force. <i>Journal of Applied Polymer Science</i> , 2006, 99, 3514-3519.	2.6	9
62	One-Step Preparation of Hydrophobic Surfaces Containing Hydrophilic Groups for Efficient Water Harvesting. <i>Langmuir</i> , 2021, 37, 9630-9636.	3.5	9
63	Multifunctional Ag-coated CuO microbowl arrays for highly efficient, ultrasensitive, and recyclable surface-enhanced Raman scattering. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131097.	7.8	9
64	Study on the Interaction Between Bovine Serum Albumin and Terbium Complex Containing Polymer. <i>Soft Materials</i> , 2014, 12, 277-283.	1.7	8
65	Ultrasonication-assisted Waterborne Synthesis of Self-restorable Superhydrophobic Surfaces with Prolonged Lifespan in Oil Collection. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001886.	3.7	7
66	Superhydrophobic Ag-decorated CuO Nanowire Arrays with Analyte-concentrating and Self-cleaning Binary Functions for Ultrasensitive and Recyclable Surface-enhanced Raman Scattering. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	7
67	Preparation, characterization, and DNA interaction studies of cationic europium luminescent copolymer. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 16-31.	3.5	5
68	Biomimetic synthesis of calcium carbonate films on bioinspired polydopamine matrices. <i>Journal of Coatings Technology Research</i> , 2017, 14, 1095-1105.	2.5	5
69	Functionalized Ultrafine Rhodium Nanoparticles on Graphene Aerogels for the Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2021, 8, 1759-1765.	3.4	5
70	One-dimensional cobalt oxide nanotubes with rich defect for oxygen evolution reaction. <i>Nanotechnology</i> , 2022, 33, 075401.	2.6	5
71	Self-Assembled Amphiphilic Block Copolymers. <i>Microscopy and Microanalysis</i> , 2010, 16, 832-833.	0.4	2
72	Polymer Inclusions in Biomimetic Calcite. <i>Microscopy and Microanalysis</i> , 2012, 18, 574-575.	0.4	0