

# Yajun Wang

## List of Publications by Year in descending order

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77  
papers

8,595  
citations

46984

47  
h-index

66879

78  
g-index

80  
all docs

80  
docs citations

80  
times ranked

10733  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomedical Applications of Layer-by-Layer Assembly: From Biomimetics to Tissue Engineering. <i>Advanced Materials</i> , 2006, 18, 3203-3224.	11.1	1,214
2	Template Synthesis of Nanostructured Materials via Layer-by-Layer Assembly. <i>Chemistry of Materials</i> , 2008, 20, 848-858.	3.2	733
3	Mesoporous Silica Spheres as Supports for Enzyme Immobilization and Encapsulation. <i>Chemistry of Materials</i> , 2005, 17, 953-961.	3.2	509
4	Self-Polymerization of Dopamine as a Versatile and Robust Technique to Prepare Polymer Capsules. <i>Chemistry of Materials</i> , 2009, 21, 3042-3044.	3.2	454
5	Monodisperse Polymer Capsules: Tailoring Size, Shell Thickness, and Hydrophobic Cargo Loading via Emulsion Templating. <i>Advanced Functional Materials</i> , 2010, 20, 1625-1631.	7.8	272
6	Templated Synthesis of Single-Component Polymer Capsules and Their Application in Drug Delivery. <i>Nano Letters</i> , 2008, 8, 1741-1745.	4.5	242
7	Zeolitic Tissue Through Wood Cell Templating. <i>Advanced Materials</i> , 2002, 14, 926.	11.1	238
8	General Synthesis of Mesoporous Spheres of Metal Oxides and Phosphates. <i>Journal of the American Chemical Society</i> , 2003, 125, 4976-4977.	6.6	237
9	Mesoporous Silica Particles as Templates for Preparing Enzyme-Loaded Biocompatible Microcapsules. <i>Advanced Materials</i> , 2005, 17, 1737-1741.	11.1	225
10	Some New Developments in the Synthesis, Functionalization, and Utilization of Monodisperse Colloidal Spheres. <i>Advanced Functional Materials</i> , 2005, 15, 1907-1921.	7.8	210
11	Nanoporous Polyelectrolyte Spheres Prepared by Sequentially Coating Sacrificial Mesoporous Silica Spheres. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2888-2892.	7.2	190
12	Enzyme encapsulation in nanoporous silica spheres Electronic supplementary information (ESI) available: experimental details, and details of particle characterization. See <a href="http://www.rsc.org/suppdata/cc/b4/b403871a/">http://www.rsc.org/suppdata/cc/b4/b403871a/</a> . <i>Chemical Communications</i> , 2004, , 1528.	2.2	184
13	Encapsulation of Water-insoluble Drugs in Polymer Capsules Prepared Using Mesoporous Silica Templates for Intracellular Drug Delivery. <i>Advanced Materials</i> , 2010, 22, 4293-4297.	11.1	180
14	Near-Infrared Laser-Triggered Nitric Oxide Nanogenerators for the Reversal of Multidrug Resistance in Cancer. <i>Advanced Functional Materials</i> , 2017, 27, 1606398.	7.8	152
15	Hollow Zeolite Capsules: A Novel Approach for Fabrication and Guest Encapsulation. <i>Chemistry of Materials</i> , 2002, 14, 3217-3219.	3.2	149
16	Shape-Dependent Cellular Processing of Polyelectrolyte Capsules. <i>ACS Nano</i> , 2013, 7, 522-530.	7.3	138
17	Nanoporous colloids: building blocks for a new generation of structured materials. <i>Journal of Materials Chemistry</i> , 2009, 19, 6451.	6.7	137
18	Templated Assembly of pH-Labile Polymer-Drug Particles for Intracellular Drug Delivery. <i>Advanced Functional Materials</i> , 2012, 22, 4718-4723.	7.8	124

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19	Macroporous Zeolitic Membrane Bioreactors. <i>Advanced Functional Materials</i> , 2004, 14, 1012-1018.	7.8	115
20	Nanoporous Protein Particles Through Templating Mesoporous Silica Spheres. <i>Advanced Materials</i> , 2006, 18, 795-800.	11.1	115
21	Mechanically Stable Zeolite Monoliths with Three-Dimensional Ordered Macropores by the Transformation of Mesoporous Silica Spheres. <i>Advanced Materials</i> , 2002, 14, 1506-1510.	11.1	111
22	Zeolitization of diatomite to prepare hierarchical porous zeolite materials through a vapor-phase transport process. <i>Journal of Materials Chemistry</i> , 2002, 12, 1812-1818.	6.7	109
23	Nuclear-Targeted Multifunctional Magnetic Nanoparticles for Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601289.	3.9	103
24	Triggered Enzymatic Degradation of DNA within Selectively Permeable Polymer Capsule Microreactors. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 329-332.	7.2	101
25	Preparation of Hollow Zeolite Spheres and Three-Dimensionally Ordered Macroporous Zeolite Monoliths with Functionalized Interiors. <i>Advanced Functional Materials</i> , 2003, 13, 943-948.	7.8	100
26	Cellular Association and Cargo Release of Redox-Responsive Polymer Capsules Mediated by Exofacial Thiols. <i>Advanced Materials</i> , 2011, 23, 3916-3921.	11.1	96
27	Synthesis of silver nanoparticles via electrochemical reduction on compact zeolite film modified electrodes Electronic supplementary information (ESI) available: Fig. S1: TEM images of silver nanoparticles prepared from CZFMEs-FAU with different silver exchange degree. Fig. S2: Electron dispersive spectrum analyses of CZFMEs-FAU with different silver exchange degree and electron diffraction analysis of silver nanoparticles with an intermediate size. See <a href="http://www.rsc.org/suppdata/cc/b2/b208222e/">http://www.rsc.org/suppdata/cc/b2/b208222e/</a> . <i>Chemical Communications</i> , 2002, 2814-2815.	2.2	92
28	Template Synthesis of Stimuli-Responsive Nanoporous Polymer-Based Spheres via Sequential Assembly. <i>Chemistry of Materials</i> , 2006, 18, 4089-4100.	3.2	92
29	Stabilization of Polymer-Hydrogel Capsules via Thiol-Disulfide Exchange. <i>Small</i> , 2009, 5, 2601-2610.	5.2	90
30	Fabrication of hollow zeolite microcapsules with tailored shapes and functionalized interiors. <i>Microporous and Mesoporous Materials</i> , 2003, 64, 69-81.	2.2	86
31	Poly(L-lysine) nanostructured particles for gene delivery and hormone stimulation. <i>Biomaterials</i> , 2010, 31, 1699-1706.	5.7	83
32	Nanostructured polymer assemblies formed at interfaces: applications from immobilization and encapsulation to stimuli-responsive release. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4782.	1.3	82
33	A Novel Hierarchical Nanozeolite Composite as Sorbent for Protein Separation in Immobilized Metal-Ion Affinity Chromatography. <i>Advanced Materials</i> , 2003, 15, 1751-1753.	11.1	81
34	Synthesis of Chemically Asymmetric Silica Nanobottles and Their Application for Cargo Loading and as Nanoreactors and Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14733-14737.	7.2	80
35	Carbon-Dot-Based Nanosensors for the Detection of Intracellular Redox State. <i>Advanced Materials</i> , 2015, 27, 7156-7160.	11.1	75
36	Nanoporous Peptide Particles for Encapsulating and Releasing Neurotrophic Factors in an Animal Model of Neurodegeneration. <i>Advanced Materials</i> , 2012, 24, 3362-3366.	11.1	73

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37	Controlled Degradation of DNA Capsules with Engineered Restriction Enzyme Cut Sites. <i>Small</i> , 2009, 5, 1418-1421.	5.2	71
38	Synthesis of Discrete Alkyl-Silica Hybrid Nanowires and Their Assembly into Nanostructured Superhydrophobic Membranes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8375-8380.	7.2	65
39	Infiltration of Macromolecules into Nanoporous Silica Particles. <i>Macromolecules</i> , 2007, 40, 7594-7600.	2.2	64
40	Polylysine-modified MXene nanosheets with highly loaded glucose oxidase as cascade nanoreactor for glucose decomposition and electrochemical sensing. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 20-29.	5.0	61
41	Near-Infrared Light-Responsive Nanogels with Diselenide Cross-Linkers for On-Demand Degradation and Triggered Drug Release. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 547-551.	1.2	60
42	Self-Supporting Porous Zeolite Membranes with Sponge-like Architecture and Zeolitic Microtubes. <i>Advanced Materials</i> , 2002, 14, 994-997.	11.1	60
43	Improved Auditory Nerve Survival with Nanoengineered Supraparticles for Neurotrophin Delivery into the Deafened Cochlea. <i>PLoS ONE</i> , 2016, 11, e0164867.	1.1	59
44	Redox stimuli-responsive hollow mesoporous silica nanocarriers for targeted drug delivery in cancer therapy. <i>Nanoscale Horizons</i> , 2016, 1, 480-487.	4.1	58
45	Probing the Permeability of Polyelectrolyte Multilayer Capsules via a Molecular Beacon Approach. <i>Langmuir</i> , 2007, 23, 4554-4562.	1.6	56
46	Preparation of Nanoporous Polyelectrolyte Multilayer Films via Nanoparticle Templating. <i>Chemistry of Materials</i> , 2006, 18, 5480-5485.	3.2	51
47	LAYER-BY-LAYER ASSEMBLY OF NANOZEOLITE BASED ON POLYMERIC MICROSPHERE: ZEOLITE COATED SPHERE AND HOLLOW ZEOLITE SPHERE. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2002, 39, 509-526.	1.2	50
48	Conversion of Fly Ash Cenosphere to Hollow Microspheres with Zeolite/Mullite Composite Shells. <i>Advanced Functional Materials</i> , 2003, 13, 563-567.	7.8	44
49	Bromo- <i>iso</i> -butyramide as an Intermolecular Surface Binder for the Preparation of Free-standing Biopolymer Assemblies. <i>Advanced Materials</i> , 2011, 23, 5668-5673.	11.1	42
50	Mesoporous Silica Supraparticles for Sustained Inner Ear Drug Delivery. <i>Small</i> , 2014, 10, 4244-4248.	5.2	41
51	Engineering of dendritic mesoporous silica nanoparticles for efficient delivery of water-insoluble paclitaxel in cancer therapy. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 424-433.	5.0	38
52	One-Pot Synthesis of Redox-Labile Polymer Capsules via Emulsion Droplet-Mediated Precipitation Polymerization. <i>Chemistry of Materials</i> , 2015, 27, 1262-1268.	3.2	36
53	Coordination-Induced Assembly of Intelligent Polysaccharide-Based Phototherapeutic Nanoparticles for Cancer Treatment. <i>Advanced Healthcare Materials</i> , 2016, 5, 3099-3104.	3.9	36
54	Probing the Conformation of Polyelectrolytes in Mesoporous Silica Spheres. <i>Langmuir</i> , 2008, 24, 4224-4230.	1.6	34

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55	A Partially Graphitic Mesoporous Carbon Membrane with Three-Dimensionally Networked Nanotunnels for Ultrasensitive Electrochemical Detection. <i>Chemistry of Materials</i> , 2017, 29, 5286-5293.	3.2	34
56	Drug Delivery: Mesoporous Silica Supraparticles for Sustained Inner Ear Drug Delivery (Small 21/2014). <i>Small</i> , 2014, 10, 4243-4243.	5.2	27
57	Hydrothermal Conversion of Solid Silica Beads to Hollow Silicalite-1 Sphere. <i>Chemistry Letters</i> , 2003, 32, 790-791.	0.7	25
58	Mesoporous Silica-Templated Assembly of Luminescent Polyester Particles. <i>Chemistry of Materials</i> , 2009, 21, 4310-4315.	3.2	24
59	Silica nanowire assemblies as three-dimensional, optically transparent platforms for constructing highly active SERS substrates. <i>Nanoscale</i> , 2017, 9, 15901-15910.	2.8	23
60	Silica nanowires with tunable hydrophobicity for lipase immobilization and biocatalytic membrane assembly. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 555-563.	5.0	22
61	Temperature and Redox Dual-Responsive Biodegradable Nanogels for Optimizing Antitumor Drug Delivery. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1092-1101.	1.2	20
62	MoC nanodots toward efficient electrocatalytic hydrogen evolution: an interlayer-confined strategy with a 2D-zeolite precursor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4724-4733.	5.2	19
63	Template-Free Synthesis of Chemically Asymmetric Silica Nanotubes for Selective Cargo Loading and Sustained Drug Release. <i>Chemistry of Materials</i> , 2019, 31, 4291-4298.	3.2	18
64	Fabrication of zeolite coatings on stainless steel grids. <i>Journal of Materials Science Letters</i> , 2001, 20, 2091-2094.	0.5	17
65	Synthesis of Chemically Asymmetric Silica Nanobottles and Their Application for Cargo Loading and as Nanoreactors and Nanomotors. <i>Angewandte Chemie</i> , 2016, 128, 14953-14957.	1.6	17
66	A Yolk-Shell Nanoplatform for Gene Silencing-Enhanced Photolytic Ablation of Cancer. <i>Advanced Functional Materials</i> , 2018, 28, 1706398.	7.8	17
67	Synthesis of Meso-/Macroporous Zeolite (Fe,Al)-ZSM-5 Microspheres from Diatomite. <i>Chemistry Letters</i> , 2004, 33, 270-271.	0.7	15
68	Synthesis of Discrete Alkyl-Silica Hybrid Nanowires and Their Assembly into Nanostructured Superhydrophobic Membranes. <i>Angewandte Chemie</i> , 2016, 128, 8515-8520.	1.6	15
69	Phytantriol-Based Cubosome Formulation as an Antimicrobial against Lipopolysaccharide-Deficient Gram-Negative Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 44485-44498.	4.0	12
70	Targeted delivery of LM22A-4 by cubosomes protects retinal ganglion cells in an experimental glaucoma model. <i>Acta Biomaterialia</i> , 2021, 126, 433-444.	4.1	12
71	Hierarchical covalent organic frameworks-modified diatomite for efficient separation of bisphenol A from water in a convenient column mode. <i>Separation and Purification Technology</i> , 2022, 298, 121611.	3.9	11
72	Fabrication of Hierarchical Structured Zeolitic Materials through Vapor-phase Transforming of the Seeded Diatomite. <i>Chemistry Letters</i> , 2002, 31, 862-863.	0.7	6

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73	Dendritic Mesoporous Silica Hollow Spheres for Nano-Bioreactor Application. <i>Nanomaterials</i> , 2022, 12, 1940.	1.9	5
74	Hierarchically porous graphitic carbon membrane with homogeneously encapsulated metallic nanoparticles as monolith electrodes for high-performance electrocatalysis and sensing. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 223-231.	5.0	4
75	One-pot synthesis of few-layered molybdenum disulfide anchored on N, S-codoped carbon for enhanced hydrogen generation. <i>Materials Today Energy</i> , 2021, 19, 100600.	2.5	4
76	3-Dimensional stable polyelectrolyte hollow capsules: preparation and spontaneous encapsulation. <i>RSC Advances</i> , 2017, 7, 1260-1265.	1.7	2
77	Nanostructured Porous Materials for Biosensor Applications. , 2016, , 245-290.		1