

# Yannan Yang

## List of Publications by Year in descending order

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88  
papers

4,621  
citations

117571

34  
h-index

102432

66  
g-index

90  
all docs

90  
docs citations

90  
times ranked

5399  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes. <i>ACS Nano</i> , 2016, 10, 4579-4586.	7.3	374
2	Antibiotic-Free Antibacterial Strategies Enabled by Nanomaterials: Progress and Perspectives. <i>Advanced Materials</i> , 2020, 32, e1904106.	11.1	368
3	Silica Nanopollens Enhance Adhesion for Long-Term Bacterial Inhibition. <i>Journal of the American Chemical Society</i> , 2016, 138, 6455-6462.	6.6	219
4	Anion Assisted Synthesis of Large Pore Hollow Dendritic Mesoporous Organosilica Nanoparticles: Understanding the Composition Gradient. <i>Chemistry of Materials</i> , 2016, 28, 704-707.	3.2	199
5	Advances in silica based nanoparticles for targeted cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 317-332.	1.7	145
6	Structure-Dependent and Glutathione-Responsive Biodegradable Dendritic Mesoporous Organosilica Nanoparticles for Safe Protein Delivery. <i>Chemistry of Materials</i> , 2016, 28, 9008-9016.	3.2	142
7	Core-Cone Structured Monodispersed Mesoporous Silica Nanoparticles with Ultra-Large Cavity for Protein Delivery. <i>Small</i> , 2015, 11, 5949-5955.	5.2	140
8	Glutathione-depletion mesoporous organosilica nanoparticles as a self-adjuvant and Co-delivery platform for enhanced cancer immunotherapy. <i>Biomaterials</i> , 2018, 175, 82-92.	5.7	135
9	Multi-shelled Dendritic Mesoporous Organosilica Hollow Spheres: Roles of Composition and Architecture in Cancer Immunotherapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8446-8450.	7.2	128
10	Silica-Based Nanoparticles for Biomedical Applications: From Nanocarriers to Biomodulators. <i>Accounts of Chemical Research</i> , 2020, 53, 1545-1556.	7.6	128
11	Mechanism of Iron Oxide-Induced Macrophage Activation: The Impact of Composition and the Underlying Signaling Pathway. <i>Journal of the American Chemical Society</i> , 2019, 141, 6122-6126.	6.6	126
12	FeOOH@Metal-Organic Framework Core-Satellite Nanocomposites for the Serum Metabolic Fingerprinting of Gynecological Cancers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10831-10835.	7.2	113
13	Plasmid DNA Delivery: Nanotopography Matters. <i>Journal of the American Chemical Society</i> , 2017, 139, 18247-18254.	6.6	109
14	Hybrid Nanoreactors: Enabling an Off-the-Shelf Strategy for Concurrently Enhanced Chemo-Immunotherapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11764-11769.	7.2	108
15	Asymmetric Silica Nanoparticles with Tunable Head-Tail Structures Enhance Hemocompatibility and Maturation of Immune Cells. <i>Journal of the American Chemical Society</i> , 2017, 139, 6321-6328.	6.6	105
16	Hollow Mesoporous Carbon Nanocubes: Rigid-Interface-Induced Outward Contraction of Metal-Organic Frameworks. <i>Advanced Functional Materials</i> , 2018, 28, 1705253.	7.8	100
17	Self-Organized Mesostructured Hollow Carbon Nanoparticles via a Surfactant-Free Sequential Heterogeneous Nucleation Pathway. <i>Chemistry of Materials</i> , 2015, 27, 6297-6304.	3.2	99
18	Stepwise Degradable Nanocarriers Enabled Cascade Delivery for Synergistic Cancer Therapy. <i>Advanced Functional Materials</i> , 2018, 28, 1800706.	7.8	96

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19	Small-sized and large-pore dendritic mesoporous silica nanoparticles enhance antimicrobial enzyme delivery. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2646-2653.	2.9	87
20	Biphasic Synthesis of Large-pore and Well-dispersed Benzene Bridged Mesoporous Organosilica Nanoparticles for Intracellular Protein Delivery. <i>Small</i> , 2015, 11, 2743-2749.	5.2	82
21	Al-modified dendritic mesoporous silica nanospheres-supported NiMo catalysts for the hydrodesulfurization of dibenzothiophene: Efficient accessibility of active sites and suitable metal-support interaction. <i>Journal of Catalysis</i> , 2017, 356, 269-282.	3.1	81
22	Eliciting Immunogenic Cell Death via a Unitized Nanoinducer. <i>Nano Letters</i> , 2020, 20, 6246-6254.	4.5	80
23	Openwork@Dendritic Mesoporous Silica Nanoparticles for Lactate Depletion and Tumor Microenvironment Regulation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22054-22062.	7.2	76
24	Understanding the contribution of surface roughness and hydrophobic modification of silica nanoparticles to enhanced therapeutic protein delivery. <i>Journal of Materials Chemistry B</i> , 2016, 4, 212-219.	2.9	75
25	Mesoporous Magnesium Oxide Hollow Spheres as Superior Arsenite Adsorbent: Synthesis and Adsorption Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25306-25312.	4.0	69
26	Ferroptosis-Strengthened Metabolic and Inflammatory Regulation of Tumor-Associated Macrophages Provokes Potent Tumoricidal Activities. <i>Nano Letters</i> , 2021, 21, 6471-6479.	4.5	65
27	Tailoring mesoporous-silica nanoparticles for robust immobilization of lipase and biocatalysis. <i>Nano Research</i> , 2017, 10, 605-617.	5.8	63
28	Room temperature synthesis of dendritic mesoporous silica nanoparticles with small sizes and enhanced mRNA delivery performance. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4089-4095.	2.9	52
29	Functional Nanoparticles with a Reducible Tetrasulfide Motif to Upregulate mRNA Translation and Enhance Transfection in Hard-to-transfect Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2695-2699.	7.2	49
30	Kinetically Controlled Dendritic Mesoporous Silica Nanoparticles: From Dahlia- to Pomegranate-like Structures by Micelle Filling. <i>Chemistry of Materials</i> , 2018, 30, 5770-5776.	3.2	45
31	Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures. <i>Advanced Materials</i> , 2019, 31, e1801564.	11.1	43
32	Asymmetric mesoporous silica nanoparticles as potent and safe immunoadjuvants provoke high immune responses. <i>Chemical Communications</i> , 2018, 54, 2020-2023.	2.2	41
33	Amine functionalized cubic mesoporous silica nanoparticles as an oral delivery system for curcumin bioavailability enhancement. <i>Nanotechnology</i> , 2016, 27, 505605.	1.3	40
34	Synthesis of silica nanoparticles with controllable surface roughness for therapeutic protein delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8477-8485.	2.9	36
35	Understanding the Effect of Surface Chemistry of Mesoporous Silica Nanorods on Their Vaccine Adjuvant Potency. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700466.	3.9	36
36	Nanostructured Organosilica Nitric Oxide Donors Intrinsically Regulate Macrophage Polarization with Antitumor Effect. <i>ACS Nano</i> , 2022, 16, 10943-10957.	7.3	33

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37	Designed synthesis of organosilica nanoparticles for enzymatic biodiesel production. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1334-1342.	3.2	31
38	Size-dependent gene delivery of amine-modified silica nanoparticles. <i>Nano Research</i> , 2016, 9, 291-305.	5.8	30
39	Responsively Aggregatable Sub-6 nm Nanochelators Induce Simultaneous Antiangiogenesis and Vascular Obstruction for Enhanced Tumor Vasculature Targeted Therapy. <i>Nano Letters</i> , 2019, 19, 7750-7759.	4.5	29
40	Immune-regulating bimetallic metal-organic framework nanoparticles designed for cancer immunotherapy. <i>Biomaterials</i> , 2022, 280, 121261.	5.7	29
41	Nanotechnology enabled reactive species regulation in biosystems for boosting cancer immunotherapy. <i>Nano Today</i> , 2021, 36, 101035.	6.2	28
42	Hybrid Nanoreactors: Enabling an Off-the-Shelf Strategy for Concurrently Enhanced Chemotherapy. <i>Angewandte Chemie</i> , 2018, 130, 11938-11943.	1.6	27
43	Mg(OH) <sub>2</sub> @MgO@reduced graphene oxide nanocomposites: the roles of composition and nanostructure in arsenite sorption. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24484-24492.	5.2	26
44	Bottom-up self-assembly of heterotrimeric nanoparticles and their secondary Janus generations. <i>Chemical Science</i> , 2019, 10, 10388-10394.	3.7	26
45	Preparation of fluorescent mesoporous hollow silica@fullerene nanoparticles via selective etching for combined chemotherapy and photodynamic therapy. <i>Nanoscale</i> , 2015, 7, 11894-11898.	2.8	25
46	Synthesis of biphenyl bridged dendritic mesoporous organosilica with extremely high adsorption of pyrene. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12029-12037.	5.2	25
47	Synthesis of SBA-15 rods with small sizes for enhanced cellular uptake. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4929-4934.	2.9	23
48	Core-Shell Structured Dendritic Mesoporous Silica Nanoparticles for Combined Photodynamic Therapy and Antibody Delivery. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1465-1469.	1.7	23
49	Dendritic Mesoporous Silica Nanoparticle Adjuvants Modified with Binuclear Aluminum Complex: Coordination Chemistry Dictates Adjuvanticity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19610-19617.	7.2	22
50	Kinetically Controlled Assembly of Nitrogen-Doped Invaginated Carbon Nanospheres with Tunable Mesopores. <i>Chemistry - A European Journal</i> , 2016, 22, 14962-14967.	1.7	21
51	Confined growth of ZIF-8 in dendritic mesoporous organosilica nanoparticles as bioregulators for enhanced mRNA delivery <i>in vivo</i> . <i>National Science Review</i> , 2021, 8, nwaa268.	4.6	21
52	A Sub-6 nm MnFe <sub>2</sub> O <sub>4</sub> -dichloroacetic acid nanocomposite modulates tumor metabolism and catabolism for reversing tumor immunosuppressive microenvironment and boosting immunotherapy. <i>Biomaterials</i> , 2022, 284, 121533.	5.7	19
53	An Approach to Prepare Polyethylenimine Functionalized Silica-Based Spheres with Small Size for siRNA Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15626-15631.	4.0	17
54	DNA Vaccine Mediated by Rambutan-Like Mesoporous Silica Nanoparticles. <i>Advanced Therapeutics</i> , 2020, 3, 1900154.	1.6	17

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55	Multi-shelled Dendritic Mesoporous Organosilica Hollow Spheres: Roles of Composition and Architecture in Cancer Immunotherapy. <i>Angewandte Chemie</i> , 2017, 129, 8566-8570.	1.6	16
56	Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 654-658.	7.2	16
57	Superhydrophobic dendritic mesoporous organosilica nano-particles with ultrahigh-content of gradient organic moieties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17579-17586.	5.2	16
58	Openwork@Dendritic Mesoporous Silica Nanoparticles for Lactate Depletion and Tumor Microenvironment Regulation. <i>Angewandte Chemie</i> , 2020, 132, 22238-22246.	1.6	16
59	Nanodispersed UV blockers in skin-friendly silica vesicles with superior UV-attenuating efficiency. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7673-7678.	2.9	15
60	Facile synthesis of ultra-small hybrid silica spheres for enhanced penetration in 3D glioma spheroids. <i>Chemical Communications</i> , 2014, 50, 1527-1529.	2.2	15
61	Dendritic mesoporous silica-titania nanospheres with enhanced photocatalytic activities. <i>New Journal of Chemistry</i> , 2017, 41, 8754-8760.	1.4	15
62	Post translational modification-assisted cancer immunotherapy for effective breast cancer treatment. <i>Chemical Science</i> , 2020, 11, 10421-10430.	3.7	14
63	Antibiotic-Free Strategies: Antibiotic-Free Antibacterial Strategies Enabled by Nanomaterials: Progress and Perspectives ( <i>Adv. Mater.</i> 18/2020). <i>Advanced Materials</i> , 2020, 32, 2070138.	11.1	14
64	FeOOH@Metal-Organic Framework Core-Satellite Nanocomposites for the Serum Metabolic Fingerprinting of Gynecological Cancers. <i>Angewandte Chemie</i> , 2020, 132, 10923-10927.	1.6	14
65	Asymmetric Silica Nanoparticles with Tailored Spiky Coverage Derived from Silica-Polymer Cooperative Assembly for Enhanced Hemocompatibility and Gene Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50695-50704.	4.0	14
66	Functional Nanoparticles with a Reducible Tetrasulfide Motif to Upregulate mRNA Translation and Enhance Transfection in Hard-to-Transfect Cells. <i>Angewandte Chemie</i> , 2020, 132, 2717-2721.	1.6	13
67	Quantum dots size matters for balancing their quantity and quality in label materials to improve lateral flow immunoassay performance for C-reactive protein determination. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113892.	5.3	12
68	Solvothermal-assisted evaporation-induced self-assembly of ordered mesoporous alumina with improved performance. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 432-443.	5.0	10
69	Pore architecture influences the enzyme immobilization performance of mesoporous silica nanospheres. <i>Microporous and Mesoporous Materials</i> , 2022, 338, 111963.	2.2	10
70	Large scale synthesis of self-assembled shuttlecock-shaped silica nanoparticles with minimized drag as advanced catalytic nanomotors. <i>Chemical Engineering Journal</i> , 2021, 417, 127971.	6.6	9
71	Nano-resoles Enabled Elegant Nanostructured Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 14598-14607.	1.7	8
72	Designer Anticancer Nanoprodugs with Self-toxicity Activity Realized by Acid-triggered Biodegradation and In-situ Fragment Complexation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11504-11513.	7.2	8

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73	Modulating the Void Space of Nitrogen-Doped Hollow Mesoporous Carbon Spheres for Lithium-Sulfur Batteries. <i>ChemNanoMat</i> , 2020, 6, 925-929.	1.5	7
74	Surfactant-free synthesis of monodispersed organosilica particles with pure sulfide-bridged silsesquioxane framework chemistry via extension of Stober method. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 129-138.	5.0	7
75	In-situ synthesis of Drug-Containing bactericidal rough silica nanoparticles for antibacterial coating. <i>Chemical Engineering Journal</i> , 2022, 440, 135837.	6.6	7
76	Silica-based Nanoparticles for Enzyme Immobilization and Delivery. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	7
77	A Concentration-Dependent Insulin Immobilization Behavior of Alkyl-Modified Silica Vesicles: The Impact of Alkyl Chain Length. <i>Langmuir</i> , 2018, 34, 5011-5019.	1.6	6
78	Lyophilization enabled disentanglement of polyethylenimine on rambutan-like silica nanoparticles for enhanced plasmid DNA delivery. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4593-4600.	2.9	5
79	Effects of synthetic routes on the compositional and structural properties of dendritic mesoporous organosilica nanoparticles: The unexpected reversed "double-edged sword" role of reaction time. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109914.	2.2	4
80	Synthesis of dendritic mesoporous organosilica nanoparticles under a mild acidic condition with homogeneous wall structure and near-neutral surface. <i>Chemical Communications</i> , 2021, 57, 4416-4419.	2.2	4
81	Dendritic Mesoporous Silica Nanoparticle Adjuvants Modified with Binuclear Aluminum Complex: Coordination Chemistry Dictates Adjuvanticity. <i>Angewandte Chemie</i> , 2020, 132, 19778-19785.	1.6	3
82	3D-Nanosponge enabled segregation: a versatile approach for highly dispersed and high content functionalization of metal oxide species. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1739-1746.	3.2	3
83	Designer Anticancer Nanoprodugs with Self-Toxicification Activity Realized by Acid-triggered Biodegradation and In-Situ Fragment Complexation. <i>Angewandte Chemie</i> , 2021, 133, 11605-11614.	1.6	3
84	Synthesis of Silica Vesicles with Small Sizes and Reduced Aggregation for Photodynamic Therapy. <i>Chemistry Letters</i> , 2014, 43, 316-318.	0.7	2
85	Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. <i>Angewandte Chemie</i> , 2018, 130, 662-666.	1.6	1
86	Hollow Nanostructures: Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures ( <i>Adv. Mater.</i> 38/2019). <i>Advanced Materials</i> , 2019, 31, 1970272.	11.1	1
87	Übersicht: Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures ( <i>Angew. Chem.</i> 3/2018). <i>Angewandte Chemie</i> , 2018, 130, 862-862.	1.6	0
88	Frontispiece: Nano-resoles-Enabled Elegant Nanostructured Materials. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0