

Yannan Yang

List of Publications by Year in descending order

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88
papers

4,621
citations

117625
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docs citations

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times ranked

5399
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes. ACS Nano, 2016, 10, 4579-4586. | 14.6 | 374 |
| 2 | Antibiotic-Free Antibacterial Strategies Enabled by Nanomaterials: Progress and Perspectives. Advanced Materials, 2020, 32, e1904106. | 21.0 | 368 |
| 3 | Silica Nanopollens Enhance Adhesion for Long-Term Bacterial Inhibition. Journal of the American Chemical Society, 2016, 138, 6455-6462. | 13.7 | 219 |
| 4 | Anion Assisted Synthesis of Large Pore Hollow Dendritic Mesoporous Organosilica Nanoparticles: Understanding the Composition Gradient. Chemistry of Materials, 2016, 28, 704-707. | 6.7 | 199 |
| 5 | Advances in silica based nanoparticles for targeted cancer therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 317-332. | 3.3 | 145 |
| 6 | Structure-Dependent and Glutathione-Responsive Biodegradable Dendritic Mesoporous Organosilica Nanoparticles for Safe Protein Delivery. Chemistry of Materials, 2016, 28, 9008-9016. | 6.7 | 142 |
| 7 | Core-Cone Structured Monodispersed Mesoporous Silica Nanoparticles with Ultra-Large Cavity for Protein Delivery. Small, 2015, 11, 5949-5955. | 10.0 | 140 |
| 8 | Glutathione-depletion mesoporous organosilica nanoparticles as a self-adjuvant and Co-delivery platform for enhanced cancer immunotherapy. Biomaterials, 2018, 175, 82-92. | 11.4 | 135 |
| 9 | Multi-shelled Dendritic Mesoporous Organosilica Hollow Spheres: Roles of Composition and Architecture in Cancer Immunotherapy. Angewandte Chemie - International Edition, 2017, 56, 8446-8450. | 13.8 | 128 |
| 10 | Silica-Based Nanoparticles for Biomedical Applications: From Nanocarriers to Biomodulators. Accounts of Chemical Research, 2020, 53, 1545-1556. | 15.6 | 128 |
| 11 | Mechanism of Iron Oxide-Induced Macrophage Activation: The Impact of Composition and the Underlying Signaling Pathway. Journal of the American Chemical Society, 2019, 141, 6122-6126. | 13.7 | 126 |
| 12 | FeOOH@Metal-Organic Framework Core-Satellite Nanocomposites for the Serum Metabolic Fingerprinting of Gynecological Cancers. Angewandte Chemie - International Edition, 2020, 59, 10831-10835. | 13.8 | 113 |
| 13 | Plasmid DNA Delivery: Nanotopography Matters. Journal of the American Chemical Society, 2017, 139, 18247-18254. | 13.7 | 109 |
| 14 | Hybrid Nanoreactors: Enabling an Off-the-Shelf Strategy for Concurrently Enhanced Chemo-Immunotherapy. Angewandte Chemie - International Edition, 2018, 57, 11764-11769. | 13.8 | 108 |
| 15 | Asymmetric Silica Nanoparticles with Tunable Head-Tail Structures Enhance Hemocompatibility and Maturation of Immune Cells. Journal of the American Chemical Society, 2017, 139, 6321-6328. | 13.7 | 105 |
| 16 | Hollow Mesoporous Carbon Nanocubes: Rigid-Interface-Induced Outward Contraction of Metal-Organic Frameworks. Advanced Functional Materials, 2018, 28, 1705253. | 14.9 | 100 |
| 17 | Self-Organized Mesostructured Hollow Carbon Nanoparticles via a Surfactant-Free Sequential Heterogeneous Nucleation Pathway. Chemistry of Materials, 2015, 27, 6297-6304. | 6.7 | 99 |
| 18 | Stepwise Degradable Nanocarriers Enabled Cascade Delivery for Synergistic Cancer Therapy. Advanced Functional Materials, 2018, 28, 1800706. | 14.9 | 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. | 5.8 | 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. | 10.0 | 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. | 6.2 | 81 |
| 22 | Eliciting Immunogenic Cell Death via a Unitized Nanoinducer. <i>Nano Letters</i> , 2020, 20, 6246-6254. | 9.1 | 80 |
| 23 | Openwork@Dendritic Mesoporous Silica Nanoparticles for Lactate Depletion and Tumor Microenvironment Regulation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22054-22062. | 13.8 | 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. | 5.8 | 75 |
| 25 | Mesoporous Magnesium Oxide Hollow Spheres as Superior Arsenite Adsorbent: Synthesis and Adsorption Behavior. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25306-25312. | 8.0 | 69 |
| 26 | Ferroptosis-Strengthened Metabolic and Inflammatory Regulation of Tumor-Associated Macrophages Provokes Potent Tumoricidal Activities. <i>Nano Letters</i> , 2021, 21, 6471-6479. | 9.1 | 65 |
| 27 | Tailoring mesoporous-silica nanoparticles for robust immobilization of lipase and biocatalysis. <i>Nano Research</i> , 2017, 10, 605-617. | 10.4 | 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. | 5.8 | 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. | 13.8 | 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. | 6.7 | 45 |
| 31 | Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures. <i>Advanced Materials</i> , 2019, 31, e1801564. | 21.0 | 43 |
| 32 | Asymmetric mesoporous silica nanoparticles as potent and safe immunoadjuvants provoke high immune responses. <i>Chemical Communications</i> , 2018, 54, 2020-2023. | 4.1 | 41 |
| 33 | Amine functionalized cubic mesoporous silica nanoparticles as an oral delivery system for curcumin bioavailability enhancement. <i>Nanotechnology</i> , 2016, 27, 505605. | 2.6 | 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. | 5.8 | 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. | 7.6 | 36 |
| 36 | Nanostructured Organosilica Nitric Oxide Donors Intrinsically Regulate Macrophage Polarization with Antitumor Effect. <i>ACS Nano</i> , 2022, 16, 10943-10957. | 14.6 | 33 |

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|----|--|------|-----------|
| 37 | Designed synthesis of organosilica nanoparticles for enzymatic biodiesel production. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1334-1342. | 5.9 | 31 |
| 38 | Size-dependent gene delivery of amine-modified silica nanoparticles. <i>Nano Research</i> , 2016, 9, 291-305. | 10.4 | 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. | 9.1 | 29 |
| 40 | Immune-regulating bimetallic metal-organic framework nanoparticles designed for cancer immunotherapy. <i>Biomaterials</i> , 2022, 280, 121261. | 11.4 | 29 |
| 41 | Nanotechnology enabled reactive species regulation in biosystems for boosting cancer immunotherapy. <i>Nano Today</i> , 2021, 36, 101035. | 11.9 | 28 |
| 42 | Hybrid Nanoreactors: Enabling an Off-the-Shelf Strategy for Concurrently Enhanced Chemo-immunotherapy. <i>Angewandte Chemie</i> , 2018, 130, 11938-11943. | 2.0 | 27 |
| 43 | Mg(OH) ₂ @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. | 10.3 | 26 |
| 44 | Bottom-up self-assembly of heterotrimeric nanoparticles and their secondary Janus generations. <i>Chemical Science</i> , 2019, 10, 10388-10394. | 7.4 | 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. | 5.6 | 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. | 10.3 | 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. | 5.8 | 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. | 3.3 | 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. | 13.8 | 22 |
| 50 | Kinetically Controlled Assembly of Nitrogen-Doped Invaginated Carbon Nanospheres with Tunable Mesopores. <i>Chemistry - A European Journal</i> , 2016, 22, 14962-14967. | 3.3 | 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. | 9.5 | 21 |
| 52 | A Sub-6 nm MnFe ₂ O ₄ -dichloroacetic acid nanocomposite modulates tumor metabolism and catabolism for reversing tumor immunosuppressive microenvironment and boosting immunotherapy. <i>Biomaterials</i> , 2022, 284, 121533. | 11.4 | 19 |
| 53 | An Approach to Prepare Polyethylenimine Functionalized Silica-Based Spheres with Small Size for siRNA Delivery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15626-15631. | 8.0 | 17 |
| 54 | DNA Vaccine Mediated by Rambutan-Like Mesoporous Silica Nanoparticles. <i>Advanced Therapeutics</i> , 2020, 3, 1900154. | 3.2 | 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. | 2.0 | 16 |
| 56 | Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 654-658. | 13.8 | 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. | 10.3 | 16 |
| 58 | Openwork@Dendritic Mesoporous Silica Nanoparticles for Lactate Depletion and Tumor Microenvironment Regulation. <i>Angewandte Chemie</i> , 2020, 132, 22238-22246. | 2.0 | 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. | 5.8 | 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. | 4.1 | 15 |
| 61 | Dendritic mesoporous silica-titania nanospheres with enhanced photocatalytic activities. <i>New Journal of Chemistry</i> , 2017, 41, 8754-8760. | 2.8 | 15 |
| 62 | Post translational modification-assisted cancer immunotherapy for effective breast cancer treatment. <i>Chemical Science</i> , 2020, 11, 10421-10430. | 7.4 | 14 |
| 63 | Antibiotic-Free Strategies: Antibiotic-Free Antibacterial Strategies Enabled by Nanomaterials: Progress and Perspectives (Adv. Mater. 18/2020). <i>Advanced Materials</i> , 2020, 32, 2070138. | 21.0 | 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. | 2.0 | 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 & Interfaces</i> , 2021, 13, 50695-50704. | 8.0 | 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. | 2.0 | 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. | 10.1 | 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. | 9.4 | 10 |
| 69 | Pore architecture influences the enzyme immobilization performance of mesoporous silica nanospheres. <i>Microporous and Mesoporous Materials</i> , 2022, 338, 111963. | 4.4 | 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. | 12.7 | 9 |
| 71 | Nano-resoles Enabled Elegant Nanostructured Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 14598-14607. | 3.3 | 8 |
| 72 | Designer Anticancer Nanoprodugs with Self-toxicification Activity Realized by Acid-triggered Biodegradation and In-situ Fragment Complexation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11504-11513. | 13.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Modulating the Void Space of Nitrogen-Doped Hollow Mesoporous Carbon Spheres for Lithium-Sulfur Batteries. ChemNanoMat, 2020, 6, 925-929. | 2.8 | 7 |
| 74 | Surfactant-free synthesis of monodispersed organosilica particles with pure sulfide-bridged silsesquioxane framework chemistry via extension of Stober method. Journal of Colloid and Interface Science, 2021, 591, 129-138. | 9.4 | 7 |
| 75 | In-situ synthesis of Drug-Containing bactericidal rough silica nanoparticles for antibacterial coating. Chemical Engineering Journal, 2022, 440, 135837. | 12.7 | 7 |
| 76 | Silica-based Nanoparticles for Enzyme Immobilization and Delivery. Chemistry - an Asian Journal, 2022, 17, . | 3.3 | 7 |
| 77 | A Concentration-Dependent Insulin Immobilization Behavior of Alkyl-Modified Silica Vesicles: The Impact of Alkyl Chain Length. Langmuir, 2018, 34, 5011-5019. | 3.5 | 6 |
| 78 | Lyophilization enabled disentanglement of polyethylenimine on rambutan-like silica nanoparticles for enhanced plasmid DNA delivery. Journal of Materials Chemistry B, 2020, 8, 4593-4600. | 5.8 | 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. Microporous and Mesoporous Materials, 2020, 294, 109914. | 4.4 | 4 |
| 80 | Synthesis of dendritic mesoporous organosilica nanoparticles under a mild acidic condition with homogeneous wall structure and near-neutral surface. Chemical Communications, 2021, 57, 4416-4419. | 4.1 | 4 |
| 81 | Dendritic Mesoporous Silica Nanoparticle Adjuvants Modified with Binuclear Aluminum Complex: Coordination Chemistry Dictates Adjuvanticity. Angewandte Chemie, 2020, 132, 19778-19785. | 2.0 | 3 |
| 82 | 3D-Nanosponge enabled segregation: a versatile approach for highly dispersed and high content functionalization of metal oxide species. Materials Chemistry Frontiers, 2020, 4, 1739-1746. | 5.9 | 3 |
| 83 | Designer Anticancer Nanoprodugs with Self-Toxicification Activity Realized by Acid-triggered Biodegradation and In-Situ Fragment Complexation. Angewandte Chemie, 2021, 133, 11605-11614. | 2.0 | 3 |
| 84 | Synthesis of Silica Vesicles with Small Sizes and Reduced Aggregation for Photodynamic Therapy. Chemistry Letters, 2014, 43, 316-318. | 1.3 | 2 |
| 85 | Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. Angewandte Chemie, 2018, 130, 662-666. | 2.0 | 1 |
| 86 | Hollow Nanostructures: Electron Tomography: A Unique Tool Solving Intricate Hollow Nanostructures (Adv. Mater. 38/2019). Advanced Materials, 2019, 31, 1970272. | 21.0 | 1 |
| 87 | Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures (Angew. Chem. 3/2018). Angewandte Chemie, 2018, 130, 862-862. | 2.0 | 0 |
| 88 | Frontispiece: Nano-resoles-Enabled Elegant Nanostructured Materials. Chemistry - A European Journal, 2018, 24, . | 3.3 | 0 |