

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	4,996 citations	33 h-index	70 g-index
79 ext. papers	5,388 ext. citations	7.3 avg, IF	5.8 L-index

#	Paper	IF	Citations
78	Mesoporous silica nanoparticles in medicine--recent advances. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 689-702	18.5	509
77	Influences of Material Characteristics on Ibuprofen Drug Loading and Release Profiles from Ordered Micro- and Mesoporous Silica Matrices. <i>Chemistry of Materials</i> , 2004 , 16, 4160-4167	9.6	507
76	Towards multifunctional, targeted drug delivery systems using mesoporous silica nanoparticles--opportunities & challenges. <i>Nanoscale</i> , 2010 , 2, 1870-83	7.7	442
75	Targeting of porous hybrid silica nanoparticles to cancer cells. <i>ACS Nano</i> , 2009 , 3, 197-206	16.7	438
74	Versatile Double-Templating Synthesis Route to Silica Monoliths Exhibiting a Multimodal Hierarchical Porosity. <i>Chemistry of Materials</i> , 2003 , 15, 2354-2361	9.6	210
73	Nanoparticles in targeted cancer therapy: mesoporous silica nanoparticles entering preclinical development stage. <i>Nanomedicine</i> , 2012 , 7, 111-20	5.6	205
72	Targeted intracellular delivery of hydrophobic agents using mesoporous hybrid silica nanoparticles as carrier systems. <i>Nano Letters</i> , 2009 , 9, 3308-11	11.5	194
71	Mesoporous silica nanoparticles as drug delivery systems for targeted inhibition of Notch signaling in cancer. <i>Molecular Therapy</i> , 2011 , 19, 1538-46	11.7	176
70	Towards establishing structure-activity relationships for mesoporous silica in drug delivery applications. <i>Journal of Controlled Release</i> , 2008 , 128, 157-64	11.7	164
69	Efficiency Improvement of Solution-Processed Dithienopyrrole-Based A-D-A Oligothiophene Bulk-Heterojunction Solar Cells by Solvent Vapor Annealing. <i>Advanced Energy Materials</i> , 2014 , 4, 1400266	21.8	137
68	On the nature of the Brønsted acidic groups on native and functionalized mesoporous siliceous SBA-15 as studied by benzylamine adsorption from solution. <i>Langmuir</i> , 2007 , 23, 4315-23	4	129
67	Multifunctional mesoporous silica nanoparticles for combined therapeutic, diagnostic and targeted action in cancer treatment. <i>Current Drug Targets</i> , 2011 , 12, 1166-86	3	122
66	Membrane interactions of mesoporous silica nanoparticles as carriers of antimicrobial peptides. <i>Journal of Colloid and Interface Science</i> , 2016 , 475, 161-170	9.3	109
65	Cancer-cell targeting and cell-specific delivery by mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2707		86
64	Hyperbranching Surface Polymerization as a Tool for Preferential Functionalization of the Outer Surface of Mesoporous Silica. <i>Chemistry of Materials</i> , 2008 , 20, 1126-1133	9.6	79
63	Unusual, Vesicle-like Patterned, Mesoscopically Ordered Silica. <i>Chemistry of Materials</i> , 2003 , 15, 813-818	9.6	77
62	Inhibiting Notch Activity in Breast Cancer Stem Cells by Glucose Functionalized Nanoparticles Carrying β-secretase Inhibitors. <i>Molecular Therapy</i> , 2016 , 24, 926-36	11.7	76

61	Super-Resolution Microscopy Unveils Dynamic Heterogeneities in Nanoparticle Protein Corona. <i>Small</i> , 2017 , 13, 1701631	11	75
60	Phase Behavior and Wall Formation in Zr(SO ₄) ₂ /CTABr and TiOSO ₄ /CTABr Mesophases. <i>Chemistry of Materials</i> , 1999 , 11, 3002-3008	9.6	70
59	Dissolution kinetics of mesoporous silica nanoparticles in different simulated body fluids. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 79, 319-327	2.3	68
58	Mesoporous silica nanoparticles in tissue engineering--a perspective. <i>Nanomedicine</i> , 2016 , 11, 391-402	5.6	67
57	Tin Dioxide Microspheres as a Promising Material for Phosphopeptide Enrichment Prior to Liquid Chromatography-(Tandem) Mass Spectrometry Analysis. <i>Advanced Functional Materials</i> , 2008 , 18, 2381-2389	15.6	67
56	Combined Surface and Volume Templating of Highly Porous Nanocast Carbon Monoliths. <i>Advanced Functional Materials</i> , 2005 , 15, 865-871	15.6	59
55	Synthesis, characterization, and biodistribution of multiple ⁸⁹ Zr-labeled pore-expanded mesoporous silica nanoparticles for PET. <i>Nanoscale</i> , 2014 , 6, 4928-35	7.7	58
54	Dithienopyrrole-based oligothiophenes for solution-processed organic solar cells. <i>Chemical Communications</i> , 2013 , 49, 10865-7	5.8	52
53	Silica nanoparticles: A promising platform for enhanced oral delivery of macromolecules. <i>Journal of Controlled Release</i> , 2020 , 326, 544-555	11.7	44
52	Control of Nanoparticle Release Kinetics from 3D Printed Hydrogel Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4623-4628	16.4	43
51	Solubilization of Oil in Silicate Surfactant Mesostructures. <i>Langmuir</i> , 2000 , 16, 5831-5836	4	39
50	Nanocasted mesoporous nanocrystalline ZnO thin films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 537-542		37
49	In situ Synchrotron SAXS/XRD Study on the Formation of Ordered Mesoscopic Hybrid Materials with Crystal-Like Walls. <i>Chemistry of Materials</i> , 2004 , 16, 5564-5566	9.6	37
48	Effective delivery of the anti-mycobacterial peptide NZX in mesoporous silica nanoparticles. <i>PLoS ONE</i> , 2019 , 14, e0212858	3.7	37
47	Mesoporous silica nanoparticle-based substrates for cell directed delivery of Notch signalling modulators to control myoblast differentiation. <i>Nanoscale</i> , 2014 , 6, 1490-8	7.7	35
46	Comparison of different cytotoxicity assays for in vitro evaluation of mesoporous silica nanoparticles. <i>Toxicology in Vitro</i> , 2018 , 52, 214-221	3.6	34
45	Mesoporous silica particle-PLA-PANI hybrid scaffolds for cell-directed intracellular drug delivery and tissue vascularization. <i>Nanoscale</i> , 2015 , 7, 14434-43	7.7	33
44	Serum Protein Adsorption Enhances Active Leukemia Stem Cell Targeting of Mesoporous Silica Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18566-18574	9.5	30

43	Mesoporous silica particles grafted with poly(ethyleneoxide-block-N-vinylcaprolactam). <i>Journal of Polymer Science Part A</i> , 2013 , 51, 5012-5020	2.5	30
42	Cargo-influences on the biodistribution of hollow mesoporous silica nanoparticles as studied by quantitative F-magnetic resonance imaging. <i>Journal of Colloid and Interface Science</i> , 2017 , 488, 1-9	9.3	29
41	Active targeting of mesoporous silica drug carriers enhances secretase inhibitor efficacy in an in vivo model for breast cancer. <i>Nanomedicine</i> , 2014 , 9, 971-87	5.6	25
40	On the Complexity of Electrostatic Suspension Stabilization of Functionalized Silica Nanoparticles for Biotargeting and Imaging Applications. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-9	3.2	24
39	Biodistribution and Excretion of Intravenously Injected Mesoporous Silica Nanoparticles: Implications for Drug Delivery Efficiency and Safety. <i>The Enzymes</i> , 2018 , 43, 155-180	2.3	24
38	Quantitative and correlative biodistribution analysis of Zr-labeled mesoporous silica nanoparticles intravenously injected into tumor-bearing mice. <i>Nanoscale</i> , 2017 , 9, 9743-9753	7.7	23
37	Template-Free Sol-Gel Synthesis of Hierarchically Macro- and Mesoporous Monolithic TiO ₂ . <i>Journal of Dispersion Science and Technology</i> , 2007 , 28, 115-119	1.5	22
36	Mesoporous silica nanoparticles in injectable hydrogels: factors influencing cellular uptake and viability. <i>Nanoscale</i> , 2017 , 9, 12379-12390	7.7	21
35	Silicon carboxylate derived silicon oxycarbides as anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10190-10199	13	19
34	Nanogold-Decorated Silica Monoliths as Highly Efficient Solid-Phase Adsorbent for Ultratrace Mercury Analysis in Natural Waters. <i>Analytical Chemistry</i> , 2015 , 87, 11122-9	7.8	17
33	Hierarchical inorganic nanopatterning (INP) through direct easy block-copolymer templating. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3638		17
32	Preparation, characterization, and preliminary biocompatibility evaluation of particulate spin-coated mesoporous silica films. <i>Microporous and Mesoporous Materials</i> , 2014 , 188, 203-209	5.3	16
31	Physical properties and in vitro bioactivity of hierarchical porous silica-BAP composites. <i>Journal of Materials Chemistry</i> , 2007 , 17, 463-468		16
30	Preparation of efficient oligomer-based bulk-heterojunction solar cells from eco-friendly solvents. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9920-9928	7.1	15
29	Influence of mesopore size and peptide aggregation on the adsorption and release of a model antimicrobial peptide onto/from mesoporous silica nanoparticles in vitro. <i>Molecular Systems Design and Engineering</i> , 2017 , 2, 393-400	4.6	13
28	Influence of serum concentration and surface functionalization on the protein adsorption to mesoporous silica nanoparticles.. <i>RSC Advances</i> , 2019 , 9, 33912-33921	3.7	13
27	Diffusion and Molecular Exchange in Hollow Core-Shell Silica Nanoparticles. <i>Langmuir</i> , 2015 , 31, 10285-95		11
26	Template-Derived Submicrometric Carbon Spheres for LithiumSulfur and Sodium-Ion Battery Electrodes. <i>Energy Technology</i> , 2018 , 6, 1797-1804	3.5	11

25	A fast sol-gel synthesis leading to highly crystalline birnessites under non-hydrothermal conditions. <i>Dalton Transactions</i> , 2017 , 46, 4582-4588	4.3	10
24	Biodegradable and bioactive hybrid organic/inorganic PEG-siloxane fibers. Preparation and characterization. <i>Colloid and Polymer Science</i> , 2004 , 282, 495-501	2.4	10
23	Multi-Modal PET and MR Imaging in the Hen's Egg Test-Chorioallantoic Membrane (HET-CAM) Model for Initial Testing of Target-Specific Radioligands. <i>Cancers</i> , 2020 , 12,	6.6	9
22	On the importance of the linking chemistry for the PEGylation of mesoporous silica nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2021 , 589, 453-461	9.3	9
21	Biphenyl-Bridged Organosilica as a Precursor for Mesoporous Silicon Oxycarbide and Its Application in Lithium and Sodium Ion Batteries. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
20	Quantitative F MRI of perfluoro-15-crown-5-ether using uniformity correction of the spin excitation and signal reception. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019 , 32, 25-36	2.8	8
19	Cell adherence and drug delivery from particle based mesoporous silica films.. <i>RSC Advances</i> , 2019 , 9, 17745-17753	3.7	6
18	Nickel modified large pore mesoporous silica as catalysts for methanol decomposition. <i>Reaction Kinetics and Catalysis Letters</i> , 2005 , 86, 275-280		6
17	Delivery by Dendritic Mesoporous Silica Nanoparticles Enhances the Antimicrobial Activity of a Napsin-Derived Peptide Against Intracellular Mycobacterium tuberculosis. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100453	10.1	5
16	Mesoporous Silica-gold Films for Straightforward, Highly Reproducible Monitoring of Mercury Traces in Water. <i>Nanomaterials</i> , 2018 , 9,	5.4	5
15	Sustainable and reagent-free mercury trace determination in natural waters using nanogold dipsticks. <i>Microchemical Journal</i> , 2019 , 147, 253-262	4.8	4
14	Correlation between Electrical Conductivity, Relative Humidity, and Pore Connectivity in Mesoporous Silica Monoliths. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8710-8716	3.8	4
13	XRD/Raman spectroscopy studies of the mechanism of (de)intercalation of Na ⁺ from/into highly crystalline birnessite. <i>Materials Advances</i> , 2021 , 2, 3940-3953	3.3	4
12	Control of particle uptake kinetics from particulate mesoporous silica films by cells through covalent linking of particles to the substrate - towards sequential drug delivery for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7669-7675	7.3	3
11	Dissolution and morphology evolution of mesoporous silica nanoparticles under biologically relevant conditions. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 995-1004	9.3	3
10	The hidden impact of structural water: how interlayer water largely controls the Raman spectroscopic response of birnessite-type manganese oxide. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18466-18476	13	3
9	Inhibition of crystal growth during drying in gels derived from a cheap, mixed metal oxide precursor. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 347-353	2.3	2
8	Irreversible Adsorption of Serum Proteins onto Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2000273	3.1	2

7	Kontrolle der Freisetzungskinetik von Nanopartikeln aus 3D-gedruckten Hydrogelgerüsten. <i>Angewandte Chemie</i> , 2017 , 129, 4694-4699	3.6	1
6	Water stability of a cheap sol-gel-based adhesive. <i>Adsorption</i> , 2009 , 15, 329-335	2.6	1
5	Surface Nanopatterning by Organic/Inorganic Self-Assembly and Selective Local Functionalization. <i>Small</i> , 2006 , 2, 587-587	11	1
4	In Vitro Evaluation of a Peptide-Mesoporous Silica Nanoparticle Drug Release System against HIV-1. <i>Inorganics</i> , 2020 , 8, 42	2.9	1
3	Modular Hydrogel/Mesoporous Silica Nanoparticle Constructs for Therapy and Diagnostics. <i>Advanced NanoBiomed Research</i> , 2022 , 2, 2100125	0	0
2	Development of Ultrahigh Surface Area Porous Electrodes using Simultaneous and Sequential Meso- and Micro-structuring Methods. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1127, 1		
1	Synthesis of highly monodisperse superparamagnetic iron oxide core@mesoporous silica shell particles with independently tunable size, and porosity. <i>Microporous and Mesoporous Materials</i> , 2022 , 112027	5.3	