

Synthetic amorphous silica nanoparticles: toxicity, bioimplications

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Nanosystems Applied to HIV Infection: Prevention and Treatments. International Journal of Molecular Sciences, 2020, 21, 8647.	1.8	10
2	Are nearly free silanols a unifying structural determinant of silica particle toxicity?. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30006-30008.	3.3	9
3	Smart Cargo Delivery System based on Mesoporous Nanoparticles for Bone Disease Diagnosis and Treatment. Advanced Science, 2021, 8, e2004586.	5.6	28
4	Bioinspired Cell Silicification: From Extracellular to Intracellular. Journal of the American Chemical Society, 2021, 143, 6305-6322.	6.6	32
5	General Synthesis of Ultrafine Monodispersed Hybrid Nanoparticles from Highly Stable Monomicelles. Advanced Materials, 2021, 33, e2100820.	11.1	30
6	Recent Advances for Improving Functionality, Biocompatibility, and Longevity of Implantable Medical Devices and Deliverable Drug Delivery Systems. Advanced Functional Materials, 2021, 31, 2010929.	7.8	18
7	Magnetism, Ultrasound, and Light-Stimulated Mesoporous Silica Nanocarriers for Theranostics and Beyond. Journal of the American Chemical Society, 2021, 143, 6025-6036.	6.6	52
8	Stability and Performance Study of Fluorescent Organosilica pH Nanosensors. Langmuir, 2021, 37, 6578-6587.	1.6	3
9	Interdependency of influential parameters in therapeutic nanomedicine. Expert Opinion on Drug Delivery, 2021, 18, 1379-1394.	2.4	8
10	Issues currently complicating the risk assessment of synthetic amorphous silica (SAS) nanoparticles after oral exposure. Nanotoxicology, 2021, 15, 1-29.	1.6	9
11	Silica Jarâ€withâ€Lid as Chemoâ€Enzymatic Nanoâ€Compartment for Enantioselective Synthesis inside Living Cells. Angewandte Chemie - International Edition, 2021, 60, 16337-16342.	7.2	6
12	Silica Jarâ€withâ€Lid as Chemoâ€Enzymatic Nanoâ€Compartment for Enantioselective Synthesis inside Living Cells. Angewandte Chemie, 2021, 133, 16473-16478.	1.6	0
13	A novel and facile green synthesis of SiO ₂ nanoparticles for removal of toxic water pollutants. Applied Nanoscience (Switzerland), 2023, 13, 735-747.	1.6	21
14	Photoluminescent Nanoparticles for Chemical and Biological Analysis and Imaging. Chemical Reviews, 2021, 121, 9243-9358.	23.0	162
15	Consideration for the scaleâ€up manufacture of nanotherapeuticsâ€”A critical step for technology transfer. View, 2021, 2, 20200190.	2.7	34
16	Silica nanoparticles as pesticide against insects of different feeding types and their non-target attraction of predators. Scientific Reports, 2021, 11, 14484.	1.6	38
17	Defect Engineering of Mesoporous Silica Nanoparticles for Biomedical Applications. Accounts of Materials Research, 2021, 2, 581-593.	5.9	20
18	The impact of metal doping on fumed silica structure and amino acid thermal condensation catalytic properties. Journal of Materials Science, 2021, 56, 16916-16927.	1.7	1

#	ARTICLE	IF	CITATIONS
19	Robust Antiwater and Anti-oil-fouling Double-Sided Tape Enabled by SiO ₂ Reinforcement and a Liquefied Surface. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43404-43413.	4.0	6
21	Electro-Mechanochemical Gating of a Metal-Phenolic Nanocage for Controlled Guest-Release Self-Powered Patches and Injectable Gels. <i>ACS Nano</i> , 2021, 15, 14580-14586.	7.3	16
22	An injectable mesoporous silica-based analgesic delivery system prolongs the duration of sciatic nerve block in mice with minimal toxicity. <i>Acta Biomaterialia</i> , 2021, 135, 638-649.	4.1	8
23	Cell membrane coating integrity affects the internalization mechanism of biomimetic nanoparticles. <i>Nature Communications</i> , 2021, 12, 5726.	5.8	126
24	Advanced mesoporous silica nanocarriers in cancer theranostics and gene editing applications. <i>Journal of Controlled Release</i> , 2021, 337, 193-211.	4.8	45
25	The combined toxicity of ultra-small SiO ₂ nanoparticles and bisphenol A (BPA) in the development of zebrafish. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 248, 109125.	1.3	4
26	Recent advances in nanoparticles associated ecological harms and their biodegradation: Global environmental safety from nano-invaders. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106093.	3.3	12
27	Ecotoxicity of silica nanoparticles in aquatic organisms: An updated review. <i>Environmental Toxicology and Pharmacology</i> , 2021, 87, 103689.	2.0	29
28	Insights on toxicity, safe handling and disposal of silica aerogels and amorphous nanoparticles. <i>Environmental Science: Nano</i> , 2021, 8, 1177-1195.	2.2	23
29	Functionalized silica nanoparticles: classification, synthetic approaches and recent advances in adsorption applications. <i>Nanoscale</i> , 2021, 13, 15998-16016.	2.8	77
30	Pathogen Infection-Responsive Nanoplatform Targeting Macrophage Endoplasmic Reticulum for Alleviating Sepsis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
31	Nanocarriers of Eu ³⁺ doped silica nanoparticles modified by APTES for luminescent monitoring of cloxacillin. <i>AIMS Materials Science</i> , 2021, 8, 760-775.	0.7	1
32	Our contributions to applications of mesoporous silica nanoparticles. <i>Acta Biomaterialia</i> , 2022, 137, 44-52.	4.1	49
33	Nano-photosensitizers for enhanced photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 36, 102597.	1.3	36
34	Synthetic Amorphous Silica Nanoparticles Promote Human Dendritic Cell Maturation and CD4+ T-Lymphocyte Activation. <i>Toxicological Sciences</i> , 2021, 185, 105-116.	1.4	13
35	Mesoporous Silica and Titania-Based Materials for Stability Enhancement of Polyphenols. <i>Materials</i> , 2021, 14, 6457.	1.3	3
36	Synthesis of Cell-Penetrating Peptide Coated Silica Nanoparticles and Their Physicochemical and Biological Characterization. <i>Methods in Molecular Biology</i> , 2022, 2383, 105-117.	0.4	1
37	In Vivo Sol-Gel Reaction of Tantalum Alkoxide for Endovascular Embolization. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101908.	3.9	3

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38	Emerging investigator series: long-term exposure of amorphous silica nanoparticles disrupts the lysosomal and cholesterol homeostasis in macrophages. <i>Environmental Science: Nano</i> , 2022, 9, 105-117.	2.2	3
39	Interaction of ornidazole with initial and functionalized silicas. <i>Applied Surface Science</i> , 2022, 580, 152218.	3.1	5
40	Monitoring the distribution of internalized silica nanoparticles inside cells via direct stochastic optical reconstruction microscopy. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 248-255.	5.0	2
41	Resveratrol Encapsulation and Release from Pristine and Functionalized Mesoporous Silica Carriers. <i>Pharmaceutics</i> , 2022, 14, 203.	2.0	14
42	Aptamer-Enabled Nanomaterials for Therapeutics, Drug Targeting and Imaging. <i>Cells</i> , 2022, 11, 159.	1.8	30
43	In Situ Detection of Nanotoxicity in Living Cells Based on Multiple miRNAs Probed by a Peptide Functionalized Nanoprobe. <i>Analytical Chemistry</i> , 2022, 94, 2399-2407.	3.2	4
44	High Doses of Silica Nanoparticles Obtained by Microemulsion and Green Routes Compromise Human Alveolar Cells Morphology and Stiffness Differently. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-23.	1.8	4
45	Nanoparticles: Excellent Materials Yet Dangerous When They Become Airborne. <i>Toxics</i> , 2022, 10, 50.	1.6	7
46	Ghost-Template-Faceted Synthesis of Tunable Amorphous Hollow Silica Nanostructures and Their Ordered Mesoscale Assembly. <i>Nano Letters</i> , 2022, 22, 1159-1166.	4.5	0
47	Intracellular Co-delivery of native antibody and siRNA for combination therapy by using biodegradable silica nanocapsules. <i>Biomaterials</i> , 2022, 281, 121376.	5.7	16
48	A glutathione-responsive silica-based nanosystem capped with in-situ polymerized cell-penetrating poly(disulfide)s for precisely modulating immuno-inflammatory responses. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 322-336.	5.0	9
49	Nanotechnology as a Versatile Tool for ¹⁹ F-MRI Agent [™] s Formulation: A Glimpse into the Use of Perfluorinated and Fluorinated Compounds in Nanoparticles. <i>Pharmaceutics</i> , 2022, 14, 382.	2.0	10
50	Role of Silica Nanoparticles in Abiotic and Biotic Stress Tolerance in Plants: A Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1947.	1.8	63
51	Single Copolymer Chain [™] -templated Synthesis of Ultrasmall Symmetric and Asymmetric Silica [™] -Based Nanoparticles. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	10
52	Agricultural and industrial waste-derived mesoporous silica nanoparticles: A review on chemical synthesis route. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107322.	3.3	26
53	Adaptive Recombinant Nanoworms from Genetically Encodable Star Amphiphiles. <i>Biomacromolecules</i> , 2022, 23, 863-876.	2.6	4
54	Highly emissive hybrid mesoporous organometallo-silica nanoparticles for bioimaging. <i>Materials Advances</i> , 2022, 3, 3582-3592.	2.6	4
55	A comprehensive estimate of the aggregation and transport of nSiO ₂ in static and dynamic aqueous systems. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 675-688.	1.7	2

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56	A Single-Step Digestion for the Quantification and Characterization of Trace Particulate Silica Content in Biological Matrices Using Single Particle Inductively Coupled Plasma-Mass Spectrometry. <i>Biological Trace Element Research</i> , 2023, 201, 816-827.	1.9	4
57	Surfactant-Inspired Coassembly Strategy to Integrate Aggregation-Induced Emission Photosensitizer with Organosilica Nanoparticles for Efficient Theranostics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	23
58	Single-step acid-catalyzed synthesis of luminescent colloidal organosilica nanobeads. <i>Nano Convergence</i> , 2022, 9, 12.	6.3	3
59	Biocidal activity of green synthesized silver nanoformulation by <i>Azadirachta indica</i> extract a biorational approach against notorious cotton pest whitefly, <i>Bemisia tabaci</i> (Homoptera); <i>Tj ETQq1 1 0.784314 rgBT4Overlook 10 Tf 50</i>		
60	Large and Small Solids: A Journey Through Inorganic Chemistry. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	0.6	0
61	Porous Silicon Nanocarriers with Stimulus-Cleavable Linkers for Effective Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200076.	3.9	11
62	Pathogen infection-responsive nanoplatform targeting macrophage endoplasmic reticulum for treating life-threatening systemic infection. <i>Nano Research</i> , 2022, 15, 6243-6255.	5.8	8
63	Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials. <i>Nano Research</i> , 2023, 16, 4289-4309.	5.8	17
64	Radioiodination of Modified Porous Silica Nanoparticles as a Potential Candidate of Iodine-131 Drugs Vehicle. <i>ACS Omega</i> , 2022, 7, 13494-13506.	1.6	3
65	Recent progress in the applications of silica-based nanoparticles. <i>RSC Advances</i> , 2022, 12, 13706-13726.	1.7	60
66	One-Pot Bifunctionalization of Silica Nanoparticles Conjugated with Bioorthogonal Linkers: Application in Dual-modal Imaging. <i>Biomaterials Science</i> , 0, , .	2.6	2
67	Engineered extracellular vesicles as intelligent nanosystems for next-generation nanomedicine. <i>Nanoscale Horizons</i> , 2022, 7, 682-714.	4.1	37
68	Nano-SiO ₂ transport and retention in saturated porous medium: Influence of pH, ionic strength, and natural organics. <i>Journal of Contaminant Hydrology</i> , 2022, 248, 104029.	1.6	5
69	Surface-modified nanomaterial-based catalytic materials for modern industry applications. , 2022, , 267-288.		0
70	“One Stone, Four Birds” Ion Engineering to Fabricate Versatile Core-Shell Organosilica Nanoparticles for Intelligent Nanotheranostics. <i>ACS Nano</i> , 2022, 16, 9785-9798.	7.3	19
71	Safe-by-Design Flame Spray Pyrolysis of SiO ₂ Nanostructures for Minimizing Acute Toxicity. <i>ACS Applied Nano Materials</i> , 2022, 5, 8184-8195.	2.4	6
72	Protein corona alters the mechanisms of interaction between silica nanoparticles and lipid vesicles. <i>Soft Matter</i> , 2022, 18, 5021-5026.	1.2	3
73	Surface Treatment With Hydrophobic Coating Reagents (Organosilanes) Strongly Reduces the Bioactivity of Synthetic Amorphous Silica in vitro. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	2

#	ARTICLE	IF	CITATIONS
74	Molecular recognition between membrane epitopes and nearly free surface silanols explains silica membranolytic activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112625.	2.5	16
75	A General Route to Flame Aerosol Synthesis and In Situ Functionalization of Mesoporous Silica. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	6
76	A General Route to Flame Aerosol Synthesis and in situ Functionalization of Mesoporous Silica. <i>Angewandte Chemie</i> , 0, , .	1.6	1
77	Exploiting mesoporous silica, silver and gold nanoparticles for neurodegenerative diseases treatment. <i>International Journal of Pharmaceutics</i> , 2022, 624, 121978.	2.6	8
78	Non-surgical in vivo germ cell-mediated gene editing by CRISPR mutagenic chain reaction with the aid of magnetic nanoparticles.. <i>Current Medicinal Chemistry</i> , 2022, 29, .	1.2	0
79	In Situ Surface-Directed Assembly of 2D Metal Nanoplatelets for Drug-Free Treatment of Antibiotic-Resistant Bacteria. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	2
80	A toxicological profile of silica nanoparticles. <i>Toxicology Research</i> , 2022, 11, 565-582.	0.9	22
81	In Vivo Application of Silica-Derived Inks for Bone Tissue Engineering: A 10-Year Systematic Review. <i>Bioengineering</i> , 2022, 9, 388.	1.6	0
82	Investigating the impact of growth time of CdSe quantum dots on the structure and optical properties of its nanocomposites with SiO ₂ for improvement of optical devices. <i>Journal of Alloys and Compounds</i> , 2022, 925, 166729.	2.8	7
83	Cobalt protoporphyrin-induced nano-self-assembly for CT imaging, magnetic-guidance, and antioxidative protection of stem cells in pulmonary fibrosis treatment. <i>Bioactive Materials</i> , 2023, 21, 129-141.	8.6	6
84	Stimulus-responsive inorganic semiconductor nanomaterials for tumor-specific theranostics. <i>Coordination Chemistry Reviews</i> , 2022, 473, 214821.	9.5	4
85	Nanoclays in medicine: a new frontier of an ancient medical practice. <i>Materials Advances</i> , 2022, 3, 7484-7500.	2.6	11
86	Atomic-level flatness on oxygen-free copper surface in lapping and chemical mechanical polishing. <i>Nanoscale Advances</i> , 2022, 4, 4263-4271.	2.2	17
87	Silica nanoparticles synthesis and applications in agriculture for plant fertilization and protection: a review. <i>Environmental Chemistry Letters</i> , 2023, 21, 539-559.	8.3	12
88	Surface Engineering Promoted Insulin-Sensitizing Activities of Sub-Nanoscale Vanadate Clusters through Regulated Pharmacokinetics and Bioavailability. <i>Small</i> , 2022, 18, .	5.2	5
90	Tuning Mesoporous Silica Nanoparticles in Novel Avenues of Cancer Therapy. <i>Molecular Pharmaceutics</i> , 2022, 19, 4428-4452.	2.3	13
91	Fabrication of hollow fibrous nanosilica with large pore channels. <i>Chemical Communications</i> , 0, , .	2.2	0
92	Development of a transferable coarse-grained model of polydimethylsiloxane. <i>Soft Matter</i> , 2022, 18, 7887-7896.	1.2	4

#	ARTICLE	IF	CITATIONS
93	Environment-friendly chemical mechanical polishing for copper with atomic surface confirmed by transmission electron microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 656, 130500.	2.3	10
94	Advances in stimuli-responsive systems for pesticides delivery: Recent efforts and future outlook. <i>Journal of Controlled Release</i> , 2022, 352, 288-312.	4.8	22
95	Mycogenic nanoparticles: synthesis, risk assessment, safety, and regulation. , 2023, , 393-420.		0
96	Clinical big-data-based design of GLUT2-targeted carbon nanodots for accurate diagnosis of hepatocellular carcinoma. <i>Nanoscale</i> , 2022, 14, 17053-17064.	2.8	1
97	Engineering Multishelled Nanostructures Enables Stepwise Self-Degradability for Drug-Release Optimization. <i>Nano Letters</i> , 2022, 22, 9181-9189.	4.5	1
98	Precision Nanotoxicology in Drug Development: Current Trends and Challenges in Safety and Toxicity Implications of Customized Multifunctional Nanocarriers for Drug-Delivery Applications. <i>Pharmaceutics</i> , 2022, 14, 2463.	2.0	14
99	Fluorescent silica nanoparticles as an internal marker in fruit flies and their effects on survivorship and fertility. <i>Scientific Reports</i> , 2022, 12, .	1.6	0
100	Engineered extracellular vesicles as drug delivery systems for the next generation of nanomedicine. , 2023, , 105-128.		0
101	Ultras-small silica nanoparticles in translational biomedical research: Overview and outlook. <i>Advanced Drug Delivery Reviews</i> , 2023, 192, 114638.	6.6	7
102	Towards quantitative determination of atomic structures of amorphous materials in three dimensions. , 2023, 2, 20220048.		3
103	Biosafety of inorganic nanomaterials for theranostic applications. <i>Emergent Materials</i> , 2022, 5, 1995-2029.	3.2	7
104	Mesoporous Silica Nanoparticlesâ€Based Nanoplatforms: Basic Construction, Current State, and Emerging Applications in Anticancer Therapeutics. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	16
105	Bridging the <i>In Vitro</i> to <i>In Vivo</i> gap: Using the Chick Embryo Model to Accelerate Nanoparticle Validation and Qualification for <i>In Vivo</i> studies. <i>ACS Nano</i> , 2022, 16, 19626-19650.	7.3	5
106	Lycopene, Mesoporous Silica Nanoparticles and Their Association: A Possible Alternative against Vulvovaginal Candidiasis?. <i>Molecules</i> , 2022, 27, 8558.	1.7	2
107	Top-Down Preparation of Nanoquartz for Toxicological Investigations. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15425.	1.8	2
108	Grouping of orally ingested silica nanomaterials via use of an integrated approach to testing and assessment to streamline risk assessment. <i>Particle and Fibre Toxicology</i> , 2022, 19, .	2.8	3
109	From Synthetic Route of Silica Nanoparticles to Theranostic Applications. <i>Processes</i> , 2022, 10, 2595.	1.3	5
110	Nearly free silanols drive the interaction of crystalline silica polymorphs with membranes: Implications for mineral toxicity. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	1

#	ARTICLE	IF	CITATIONS
111	Engineered silica nanomaterials in pesticide delivery: Challenges and perspectives. <i>Environmental Pollution</i> , 2023, 320, 121045.	3.7	14
112	Recent Advances in Targeted Nanocarriers for the Management of Triple Negative Breast Cancer. <i>Pharmaceutics</i> , 2023, 15, 246.	2.0	7
113	The bioreaction and immune responses of PEG-coated silica NPs and the role of the surface density coating after oral administration into mice. <i>Applied Nanoscience (Switzerland)</i> , 0, , .	1.6	0
115	Emerging ultras-small luminescent nanoprobe for <i>in vivo</i> bioimaging. <i>Chemical Society Reviews</i> , 2023, 52, 1672-1696.	18.7	27
116	Gasdermin D membrane pores orchestrate IL-1 β secretion from necrotic macrophages after NFS-rich silica exposure. <i>Archives of Toxicology</i> , 2023, 97, 1001-1015.	1.9	3
117	Environmental geochemical characteristics of Xuanwei Formation coal and their controlling geological factors, with comments on the relationship with lung cancer incidence and distribution. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2023, 23, .	0.5	2
118	Temperature-free Mass Tracking of a Levitated Nanoparticle. <i>Chinese Physics B</i> , 0, , .	0.7	0
119	One-pot synthesis of compact DNA silica particles for gene delivery and extraordinary DNA preservation. <i>Materials Today Advances</i> , 2023, 18, 100357.	2.5	2
120	Phytolith particulate matter and its potential human and environmental effects. <i>Environmental Pollution</i> , 2023, 327, 121541.	3.7	3
121	Probing the coverage of nanoparticles by biomimetic membranes through nanoplasmonics. <i>Journal of Colloid and Interface Science</i> , 2023, 640, 100-109.	5.0	4
122	Neurogenic Hypertension, the Blood-Brain Barrier, and the Potential Role of Targeted Nanotherapeutics. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2213.	1.8	2
123	Cu ₂ O nanoparticles synthesized by green and chemical routes, and evaluation of their antibacterial and antifungal effect on functionalized textiles. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2023, 37, e00785.	2.1	5
124	Doxorubicin-Loaded Silica Nanocomposites for Cancer Treatment. <i>Coatings</i> , 2023, 13, 324.	1.2	8
125	Study of the Embryonic Toxicity of TiO ₂ and ZrO ₂ Nanoparticles. <i>Micromachines</i> , 2023, 14, 363.	1.4	8
126	Dissolution control and stability improvement of silica nanoparticles in aqueous media. <i>Journal of Nanoparticle Research</i> , 2023, 25, .	0.8	6
127	Chelating silica nanoparticles for efficient antibiotic delivery and particle imaging in Gram-negative bacteria. <i>Nanoscale Advances</i> , 2023, 5, 2453-2461.	2.2	1
128	Exploiting Nanomedicine for Cancer Polychemotherapy: Recent Advances and Clinical Applications. <i>Pharmaceutics</i> , 2023, 15, 937.	2.0	1
129	Synthesis of Organoalkoxysilanes: Versatile Organic-Inorganic Building Blocks. <i>Compounds</i> , 2023, 3, 280-297.	1.0	2

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130	Mesoporous Silica Nanoparticles as a Potential Nanoplatform: Therapeutic Applications and Considerations. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6349.	1.8	15
131	Pore-engineered nanoarchitectonics for cancer therapy. <i>NPG Asia Materials</i> , 2023, 15, .	3.8	15
132	Insight into the Binding Mechanisms of Quartz-Selective Peptides: Toward Greener Flotation Processes. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 17922-17937.	4.0	2
133	Revisiting the impacts of silica nanoparticles on endothelial cell junctions and tumor metastasis. <i>CheM</i> , 2023, 9, 1865-1881.	5.8	3
135	Human dendritic cell maturation induced by amorphous silica nanoparticles is Syk-dependent and triggered by lipid raft aggregation. <i>Particle and Fibre Toxicology</i> , 2023, 20, .	2.8	2
136	Recent Advances of Magnetite (Fe ₃ O ₄)-Based Magnetic Materials in Catalytic Applications. <i>Magnetochemistry</i> , 2023, 9, 110.	1.0	20
140	Silica NPsâ€™ Cytotoxicity Cross-Talk: Physicochemical Principles and Cell Biology Responses. <i>Silicon</i> , 0, , .	1.8	0
142	Silica nanoparticles for sensing applications. , 2023, , 591-630.		0
157	Recent Progress of Amorphous Nanomaterials. <i>Chemical Reviews</i> , 2023, 123, 8859-8941.	23.0	29
180	Multifunctional mesoporous silica nanoparticles for biomedical applications. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	7
185	Tumor Microenvironment-Responsive Degradable Silica Nanoparticles: Design Principles and Precision Theranostic Applications. <i>Nanoscale Horizons</i> , 0, , .	4.1	0
188	Review on green synthesis of silica nanoparticle functionalized graphene oxide acrylic resin for anti-corrosion applications. , 0, , .		0
193	Fabrication of Mesoporous Silica Nanoparticles and Its Applications in Drug Delivery. , 0, , .		0
196	Silicon-containing nanomedicine and biomaterials: materials chemistry, multi-dimensional design, and biomedical application. <i>Chemical Society Reviews</i> , 2024, 53, 1167-1315.	18.7	1
199	Environmental challenges and perspectives in the development of nanocomposites for enhanced flame-retardant properties. , 2024, , 369-424.		0