

# Jeffrey I Zink

## List of Publications by Citations

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169  
papers

25,081  
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69  
h-index

158  
g-index

173  
ext. papers

26,658  
ext. citations

10.1  
avg, IF

6.95  
L-index

#	Paper	IF	Citations
169	Comparison of the mechanism of toxicity of zinc oxide and cerium oxide nanoparticles based on dissolution and oxidative stress properties. <i>ACS Nano</i> , <b>2008</b> , 2, 2121-34	16.7	1868
168	Multifunctional inorganic nanoparticles for imaging, targeting, and drug delivery. <i>ACS Nano</i> , <b>2008</b> , 2, 889-96	16.7	1612
167	Mesoporous silica nanoparticles in biomedical applications. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 2590-605	58.5	1480
166	Continuous formation of supported cubic and hexagonal mesoporous films by sol-gel dip-coating. <i>Nature</i> , <b>1997</b> , 389, 364-368	50.4	1281
165	Mesoporous silica nanoparticles as a delivery system for hydrophobic anticancer drugs. <i>Small</i> , <b>2007</b> , 3, 1341-6	11	848
164	Biocompatibility, biodistribution, and drug-delivery efficiency of mesoporous silica nanoparticles for cancer therapy in animals. <i>Small</i> , <b>2010</b> , 6, 1794-805	11	841
163	Engineered design of mesoporous silica nanoparticles to deliver doxorubicin and P-glycoprotein siRNA to overcome drug resistance in a cancer cell line. <i>ACS Nano</i> , <b>2010</b> , 4, 4539-50	16.7	748
162	Polyethyleneimine coating enhances the cellular uptake of mesoporous silica nanoparticles and allows safe delivery of siRNA and DNA constructs. <i>ACS Nano</i> , <b>2009</b> , 3, 3273-86	16.7	725
161	Mesoporous silica nanoparticle nanocarriers: biofunctionality and biocompatibility. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 792-801	24.3	696
160	Use of metal oxide nanoparticle band gap to develop a predictive paradigm for oxidative stress and acute pulmonary inflammation. <i>ACS Nano</i> , <b>2012</b> , 6, 4349-68	16.7	631
159	Enzyme-responsive snap-top covered silica nanocontainers. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 2382-3	16.4	544
158	Noninvasive remote-controlled release of drug molecules in vitro using magnetic actuation of mechanized nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 10623-5	16.4	539
157	Mechanized silica nanoparticles: a new frontier in theranostic nanomedicine. <i>Accounts of Chemical Research</i> , <b>2011</b> , 44, 903-13	24.3	533
156	Autonomous in vitro anticancer drug release from mesoporous silica nanoparticles by pH-sensitive nanovalves. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12690-7	16.4	511
155	Codelivery of an optimal drug/siRNA combination using mesoporous silica nanoparticles to overcome drug resistance in breast cancer in vitro and in vivo. <i>ACS Nano</i> , <b>2013</b> , 7, 994-1005	16.7	456
154	Light-operated mechanized nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1686-8	16.4	455
153	Mechanised nanoparticles for drug delivery. <i>Nanoscale</i> , <b>2009</b> , 1, 16-39	7.7	448

152	An operational supramolecular nanovalve. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3370-1	16.4	417
151	Light-activated nanoimpeller-controlled drug release in cancer cells. <i>Small</i> , <b>2008</b> , 4, 421-6	11	404
150	Use of size and a copolymer design feature to improve the biodistribution and the enhanced permeability and retention effect of doxorubicin-loaded mesoporous silica nanoparticles in a murine xenograft tumor model. <i>ACS Nano</i> , <b>2011</b> , 5, 4131-44	16.7	402
149	Processing pathway dependence of amorphous silica nanoparticle toxicity: colloidal vs pyrolytic. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15790-804	16.4	315
148	pH clock-operated mechanized nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12912-4	16.4	301
147	Aspect ratio determines the quantity of mesoporous silica nanoparticle uptake by a small GTPase-dependent macropinocytosis mechanism. <i>ACS Nano</i> , <b>2011</b> , 5, 4434-47	16.7	287
146	Dual-controlled nanoparticles exhibiting AND logic. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 11344-6	16.4	278
145	Designed synthesis of CeO <sub>2</sub> nanorods and nanowires for studying toxicological effects of high aspect ratio nanomaterials. <i>ACS Nano</i> , <b>2012</b> , 6, 5366-80	16.7	275
144	Controlled-access hollow mechanized silica nanocontainers. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15136-42	16.4	263
143	Construction of a pH-driven supramolecular nanovalve. <i>Organic Letters</i> , <b>2006</b> , 8, 3363-6	6.2	229
142	Synthesis and electrochromic properties of mesoporous tungsten oxide. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 92-97		224
141	Antimicrobial Activity of Silver Nanocrystals Encapsulated in Mesoporous Silica Nanoparticles. <i>Advanced Materials</i> , <b>2009</b> , 21, 1684-1689	24	222
140	Photophysical pore control in an azobenzene-containing metal-organic framework. <i>Chemical Science</i> , <b>2013</b> , 4, 2858	9.4	208
139	Photo-Driven Expulsion of Molecules from Mesostructured Silica Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6589-6592	3.8	206
138	Tailored Synthesis of Octopus-type Janus Nanoparticles for Synergistic Actively-Targeted and Chemo-Photothermal Therapy. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2118-21	16.4	199
137	Mesostructured multifunctional nanoparticles for imaging and drug delivery. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6251		196
136	Nanovalve-controlled cargo release activated by plasmonic heating. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7628-31	16.4	193
135	Synthesis of biomolecule-modified mesoporous silica nanoparticles for targeted hydrophobic drug delivery to cancer cells. <i>Small</i> , <b>2011</b> , 7, 1816-26	11	188

134	Supramolecular Nanovalves Controlled by Proton Abstraction and Competitive Binding. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5919-5928	9.6	182
133	Nanomachines and Other Caps on Mesoporous Silica Nanoparticles for Drug Delivery. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1531-1542	24.3	175
132	Targeted intracellular delivery of antituberculosis drugs to Mycobacterium tuberculosis-infected macrophages via functionalized mesoporous silica nanoparticles. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2012</b> , 56, 2535-45	5.9	175
131	In vivo tumor suppression efficacy of mesoporous silica nanoparticles-based drug-delivery system: enhanced efficacy by folate modification. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 212-20	6	174
130	Stimulated release of size-selected cargos in succession from mesoporous silica nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5460-5	16.4	147
129	Creating Lithium-Ion Electrolytes with Biomimetic Ionic Channels in Metal-Organic Frameworks. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707476	24	146
128	Controlled placement of luminescent molecules and polymers in mesostructured sol-gel thin films. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 1248-9	16.4	140
127	pH-Operated mechanized porous silicon nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8798-801	16.4	135
126	Two-wave nanotherapy to target the stroma and optimize gemcitabine delivery to a human pancreatic cancer model in mice. <i>ACS Nano</i> , <b>2013</b> , 7, 10048-65	16.7	131
125	Protein-gold clusters-capped mesoporous silica nanoparticles for high drug loading, autonomous gemcitabine/doxorubicin co-delivery, and in-vivo tumor imaging. <i>Journal of Controlled Release</i> , <b>2016</b> , 229, 183-191	11.7	128
124	Taking the temperature of the interiors of magnetically heated nanoparticles. <i>ACS Nano</i> , <b>2014</b> , 8, 5199-2077	16.7	127
123	Activation of snap-top capped mesoporous silica nanocontainers using two near-infrared photons. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14000-3	16.4	127
122	Patterned Hexagonal Arrays of Living Cells in Sol-Gel Silica Films. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 6488-6489	16.4	124
121	Structure and Assignment of the Luminescence of a New Mixed-Ligand Copper(I) Polymer. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 796-801	5.1	120
120	A reversible light-operated nanovalve on mesoporous silica nanoparticles. <i>Nanoscale</i> , <b>2014</b> , 6, 3335-43	7.7	105
119	Snap-top nanocarriers. <i>Organic Letters</i> , <b>2010</b> , 12, 3304-7	6.2	102
118	Two-photon-triggered drug delivery via fluorescent nanovalves. <i>Small</i> , <b>2014</b> , 10, 1752-5	11	101
117	A photoactive molecular triad as a nanoscale power supply for a supramolecular machine. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 6846-58	4.8	99

116	Working Supramolecular Machines Trapped in Glass and Mounted on a Film Surface. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 2447-2451	16.4	97
115	Mesostructured Silica for Optical Functionality, Nanomachines, and Drug Delivery. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, s2-s10	3.8	92
114	Two-photon-triggered drug delivery in cancer cells using nanoimpellers. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13813-7	16.4	91
113	Redox- and pH-Controlled Mechanized Nanoparticles. <i>European Journal of Organic Chemistry</i> , <b>2009</b> , 2009, 1669-1673	3.2	89
112	Mesoporous Silica Nanoparticles with pH-Sensitive Nanovalves for Delivery of Moxifloxacin Provide Improved Treatment of Lethal Pneumonic Tularemia. <i>ACS Nano</i> , <b>2015</b> , 9, 10778-89	16.7	88
111	In Situ Fluorescence Probing of the Chemical Changes during Sol-Gel Thin Film Formation. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 1640-1648	3.8	86
110	Integration of molecular and enzymatic catalysts on graphene for biomimetic generation of antithrombotic species. <i>Nature Communications</i> , <b>2014</b> , 5, 3200	17.4	83
109	In Situ Luminescence Probing of the Chemical and Structural Changes during Formation of Dip-Coated Lamellar Phase Sodium Dodecyl Sulfate Sol-Gel Thin Films. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 3739-3745	16.4	82
108	In Situ Probing by Fluorescence Spectroscopy of the Formation of Continuous Highly-Ordered Lamellar-Phase Mesostructured Thin Films. <i>Langmuir</i> , <b>1998</b> , 14, 7331-7333	4	77
107	Measurement of Dissolved Oxygen in Water Using Glass-Encapsulated Myoglobin. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 1505-1509	7.8	77
106	Synthesis of Protein-Doped Sol-Gel SiO <sub>2</sub> Thin Films: Evidence for Rotational Mobility of Encapsulated Cytochrome c. <i>Chemistry of Materials</i> , <b>1995</b> , 7, 1431-1434	9.6	74
105	Mechanical characteristics and mechanism of the triboluminescence of fluorescent molecular crystals. <i>Journal of Chemical Physics</i> , <b>1980</b> , 73, 5933-5941	3.9	74
104	Spatial, Temporal, and Dose Control of Drug Delivery using Noninvasive Magnetic Stimulation. <i>ACS Nano</i> , <b>2019</b> , 13, 1292-1308	16.7	73
103	Shortwave Infrared Imaging with J-Aggregates Stabilized in Hollow Mesoporous Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12475-12480	16.4	71
102	Synthetic amorphous silica nanoparticles: toxicity, biomedical and environmental implications. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 886-909	73.3	69
101	Supramolecular Assemblies of Heterogeneous Mesoporous Silica Nanoparticles to Co-deliver Antimicrobial Peptides and Antibiotics for Synergistic Eradication of Pathogenic Biofilms. <i>ACS Nano</i> , <b>2020</b> , 14, 5926-5937	16.7	69
100	Laser and Thermal Vapor Deposition of Metal Sulfide (NiS, PdS) Films and in Situ Gas-Phase Luminescence of Photofragments from M(S <sub>2</sub> COCHMe <sub>2</sub> ) <sub>2</sub> . <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1208-1212	9.6	67
99	Biodegradable Oxamide-Phenylene-Based Mesoporous Organosilica Nanoparticles with Unprecedented Drug Payloads for Delivery in Cells. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 14806-14818	11.8	67

98	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , <b>2018</b> , 17, 341-348	27	66
97	pH-responsive dual cargo delivery from mesoporous silica nanoparticles with a metal-latched nanogate. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 2044-9	5.1	66
96	Redox-Triggered Release of Moxifloxacin from Mesoporous Silica Nanoparticles Functionalized with Disulfide Snap-Tops Enhances Efficacy Against Pneumonic Tularemia in Mice. <i>Small</i> , <b>2016</b> , 12, 3690-702	11.2	64
95	Nano-QSAR modeling for predicting the cytotoxicity of metal oxide nanoparticles using novel descriptors. <i>RSC Advances</i> , <b>2016</b> , 6, 25766-25775	3.7	61
94	Externally Controlled Nanomachines on Mesoporous Silica Nanoparticles for Biomedical Applications. <i>ChemPhysChem</i> , <b>2016</b> , 17, 1769-79	3.2	60
93	Functional nanovalves on protein-coated nanoparticles for in vitro and in vivo controlled drug delivery. <i>Small</i> , <b>2015</b> , 11, 319-328	11	58
92	Photonic Materials by the Sol-Gel Process. <i>Journal of the Ceramic Society of Japan</i> , <b>1991</b> , 99, 878-893		56
91	Supramolecular Nanomachines as Stimuli-Responsive Gatekeepers on Mesoporous Silica Nanoparticles for Antibiotic and Cancer Drug Delivery. <i>Theranostics</i> , <b>2019</b> , 9, 3341-3364	12.1	55
90	pH-Responsive Isoniazid-Loaded Nanoparticles Markedly Improve Tuberculosis Treatment in Mice. <i>Small</i> , <b>2015</b> , 11, 5066-78	11	54
89	Hyaluronic acid conjugated nanoparticle delivery of siRNA against TWIST reduces tumor burden and enhances sensitivity to cisplatin in ovarian cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 1381-1394	6	53
88	Nanoparticle delivery of siRNA against TWIST to reduce drug resistance and tumor growth in ovarian cancer models. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2017</b> , 13, 965-976	6	52
87	Measurement of Uptake and Release Capacities of Mesoporous Silica Nanoparticles Enabled by Nanovalve Gates. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19496-19506	3.8	51
86	In Situ Fluorescence Probing of Molecular Mobility and Chemical Changes during Formation of Dip-Coated Sol-Gel Silica Thin Films. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 231-235	9.6	50
85	A Pathogen-Specific Cargo Delivery Platform Based on Mesoporous Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6663-6668	16.4	49
84	Synthesis, Structure, Luminescence, and Raman-Determined Excited State Distortions of a Trinuclear Gold(I) Phosphine Thiolate Complex. <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 5813-5819	5.1	48
83	Comparison of the effects of commercial coated and uncoated ZnO nanomaterials and Zn compounds in kidney bean ( <i>Phaseolus vulgaris</i> ) plants. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 332, 214-222	12.8	47
82	Interference dips in molecular absorption spectra calculated for coupled electronic state potential surfaces. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 2681-2690	3.9	47
81	Disulfide-gated mesoporous silica nanoparticles designed for two-photon-triggered drug release and imaging. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 6456-6461	7.3	43

80	Mesoporous silica nanoparticle delivery of chemically modified siRNA against TWIST1 leads to reduced tumor burden. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 1657-66	6	42
79	Light or Heat? The Origin of Cargo Release from Nanoimpeller Particles Containing Upconversion Nanocrystals under IR Irradiation. <i>Small</i> , <b>2015</b> , 11, 4165-72	11	42
78	Two-Photon-Triggered Drug Delivery in Cancer Cells Using Nanoimpellers. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 14058-14062	3.6	42
77	A Responsive Mesoporous Silica Nanoparticle Platform for Magnetic Resonance Imaging-Guided High-Intensity Focused Ultrasound-Stimulated Cargo Delivery with Controllable Location, Time, and Dose. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17670-17684	16.4	41
76	Light-activated functional mesostructured silica. <i>Journal of Sol-Gel Science and Technology</i> , <b>2008</b> , 46, 313-322	2.3	41
75	Unusual Intensities in the Resonance Raman Spectra and Excitation Profiles of an Intervalence Metal-to-Metal Charge Transfer Complex. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 1895-1900	16.4	38
74	Periodic Mesoporous Organosilica Nanoparticles with Controlled Morphologies and High Drug/Dye Loadings for Multicargo Delivery in Cancer Cells. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9607-15	4.8	38
73	Facile Strategy Enabling Both High Loading and High Release Amounts of the Water-Insoluble Drug Clofazimine Using Mesoporous Silica Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31870-31881	9.5	38
72	Photo-redox activated drug delivery systems operating under two photon excitation in the near-IR. <i>Nanoscale</i> , <b>2014</b> , 6, 4652-8	7.7	37
71	An enzymatic chemical amplifier based on mechanized nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 17659-62	16.4	35
70	Alternate State Variables for Emerging Nanoelectronic Devices. <i>IEEE Nanotechnology Magazine</i> , <b>2009</b> , 8, 66-75	2.6	32
69	Ligand to ligand charge transfer in (hydrotris(pyrazolyl)borato)(triphenylarsine)copper(I). <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 427-32	5.1	31
68	Two-Photon-Excited Silica and Organosilica Nanoparticles for Spatiotemporal Cancer Treatment. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1701248	10.1	30
67	Unusual Features in Absorption Spectra Arising from Coupled Potential Surfaces. <i>Comments on Inorganic Chemistry</i> , <b>1992</b> , 13, 177-220	3.9	29
66	Porous Sol-Gel Silicates Containing Gold Particles as Matrices for Surface-Enhanced Raman Spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>1996</b> , 27, 775-783	2.3	28
65	Molecular Motion and Environmental Rigidity in the Framework and Ionic Interface Regions of Mesostructured Silica Thin Films. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 10335-10339	3.4	26
64	Laser-driven chemical vapor deposition of platinum at atmospheric pressure and room temperature from CpPt(CH <sub>3</sub> ) <sub>3</sub> . <i>Applied Physics Letters</i> , <b>1988</b> , 53, 1705-1707	3.4	26
63	Continuous spectroscopic measurements of photo-stimulated release of molecules by nanomachines in a single living cell. <i>Nanoscale</i> , <b>2012</b> , 4, 3482-9	7.7	24

62	Improving pore exposure in mesoporous silica films for mechanized control of the pores. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 132, 435-441	5.3	24
61	Biomolecular materials based on sol-gel encapsulated proteins. <i>Journal of Sol-Gel Science and Technology</i> , <b>1994</b> , 2, 791-795	2.3	23
60	Bis-clickable Mesoporous Silica Nanoparticles: Straightforward Preparation of Light-Actuated Nanomachines for Controlled Drug Delivery with Active Targeting. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9624-30	4.8	23
59	Probing the Local Nanoscale Heating Mechanism of a Magnetic Core in Mesoporous Silica Drug-Delivery Nanoparticles Using Fluorescence Depolarization. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 5212-5220	16.4	21
58	Synthesis and luminescence spectroscopy of a series of [eta(5)-CpFe(CO) <sub>2</sub> ] complexes containing 1,12-dicarba-closo-dodecaboranyl and -ylene ligands. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 5428-33	5.1	21
57	Magnetism, Ultrasound, and Light-Stimulated Mesoporous Silica Nanocarriers for Theranostics and Beyond. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 6025-6036	16.4	21
56	Aerosol droplet delivery of mesoporous silica nanoparticles: A strategy for respiratory-based therapeutics. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 1377-85	6	20
55	Stimulated Release of Size-Selected Cargos in Succession from Mesoporous Silica Nanoparticles. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 5556-5561	3.6	20
54	Encapsulation of the ferritin protein in sol-gel derived silica glasses. <i>Journal of Sol-Gel Science and Technology</i> , <b>1996</b> , 7, 109-116	2.3	20
53	Magnetically Stimulated Drug Release Using Nanoparticles Capped by Self-Assembling Peptides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 43835-43842	9.5	19
52	Probing the Microenvironment in the Confined Pores of Mesoporous Silica Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 839-842	6.4	19
51	Luminescent Photofragments of (1,1,1,5,5,5-Hexafluoro-2,4-pentanedionato) Metal Complexes in the Gas Phase. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 2880-2887	5.1	19
50	Tailored Synthesis of Octopus-type Janus Nanoparticles for Synergistic Actively-Targeted and Chemo-Photothermal Therapy. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2158-2161	3.6	18
49	Nanoconfined Proteins and Enzymes: Sol-Gel-Based Biomolecular Materials. <i>ACS Symposium Series</i> , <b>1996</b> , 351-365	0.4	17
48	Enzymatic activity of oxalate oxidase and kinetic measurements by optical methods in transparent sol-gel monoliths. <i>Journal of Sol-Gel Science and Technology</i> , <b>1996</b> , 7, 117-121	2.3	17
47	Laser-assisted organometallic chemical vapor deposition of films of rhodium and iridium. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 1402-1403	3.4	16
46	Surface Immobilized Heteroleptic Copper Compounds as State Variables that Show Negative Differential Resistance. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 589-593	6.4	15
45	Wavelength Dependence of Photooxidation vs Photofragmentation of Chromocene. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 8665-8671	2.8	15

44	Engineering the Internal Structure of Magnetic Silica Nanoparticles by Thermal Control. <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 307-312	3.1	14
43	Interference Effects of Multiple Excited States in the Resonance Raman Spectroscopy of CpCoCOD. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 10743-10749	3.4	14
42	Analyte-responsive gated hollow mesoporous silica nanoparticles exhibiting inverse functionality and an AND logic response. <i>Nanoscale</i> , <b>2016</b> , 8, 18296-18300	7.7	13
41	Magnetic Heating Stimulated Cargo Release with Dose Control using Multifunctional MR and Thermosensitive Liposome. <i>Nanotheranostics</i> , <b>2019</b> , 3, 166-178	5.6	13
40	Stimuli-Responsive Nanomachines and Caps for Drug Delivery. <i>The Enzymes</i> , <b>2018</b> , 43, 31-65	2.3	13
39	Use of Ferritin Capped Mesoporous Silica Nanoparticles for Redox and pH Triggered Drug Release In Vitro and In Vivo. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002043	15.6	11
38	Magnetic resonance imaging of high-intensity focused ultrasound-stimulated drug release from a self-reporting core@shell nanoparticle platform. <i>Chemical Communications</i> , <b>2020</b> , 56, 10297-10300	5.8	11
37	Hard Pd Nanorods in the Soft Surfactant Mixture of CTAB and Pluronics: Seedless Synthesis and Their Self-Assembly. <i>Langmuir</i> , <b>2018</b> , 34, 4271-4281	4	10
36	Drug Release from Three-Dimensional Cubic Mesoporous Silica Nanoparticles Controlled by Nanoimpellers. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 588-594	1.3	10
35	In vitro delivery of calcium ions by nanogated mesoporous silica nanoparticles to induce cancer cellular apoptosis. <i>Molecular Systems Design and Engineering</i> , <b>2017</b> , 2, 384-392	4.6	10
34	In situ fluorescence probing of the chemical and structural changes during formation of hexagonal phase cetyltrimethylammonium bromide and lamellar phase CTAB/Poly(dodecylmethacrylate) sol-gel silica thin films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2008</b> , 47, 300-310	2.3	10
33	Allosteric Regulation of Enzymatic Reactions in a Transparent Inorganic Sol-Gel Material. <i>Journal of Sol-Gel Science and Technology</i> , <b>1999</b> , 15, 57-62	2.3	10
32	Nanoparticle Formulation of Moxifloxacin and Intramuscular Route of Delivery Improve Antibiotic Pharmacokinetics and Treatment of Pneumonic Tularemia in a Mouse Model. <i>ACS Infectious Diseases</i> , <b>2019</b> , 5, 281-291	5.5	9
31	Activity and electrochemical properties: iron complexes of the anticancer drug triapine and its analogs. <i>Journal of Biological Inorganic Chemistry</i> , <b>2019</b> , 24, 621-632	3.7	8
30	Excited-State Raman Spectroscopy of Inorganic Compounds. <i>Photochemistry and Photobiology</i> , <b>1997</b> , 65, 65-72	3.6	8
29	Luminescence of dimethylgallium(III) azide. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 3252-4	5.1	7
28	The Epithelial-Mesenchymal Transcription Factor Represses Transcription of the Tumor Suppressor miRNA in Cancer. <i>Cancers</i> , <b>2021</b> , 13,	6.6	7
27	Inorganic Sol-Gel Glasses as Matrices for Nonlinear Optical Materials. <i>ACS Symposium Series</i> , <b>1991</b> , 541-552.4		6

26	Effect of Pore Wall Charge and Probe Molecule Size on Molecular Motion inside Mesoporous Silica Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23780-23787	3.8	6
25	Tuberculosis: pH-Responsive Isoniazid-Loaded Nanoparticles Markedly Improve Tuberculosis Treatment in Mice (Small 38/2015). <i>Small</i> , <b>2015</b> , 11, 5065	11	5
24	Mixed valence of a delocalized system: a resonance Raman study of the tetracyanoquinodimethane radical anion. <i>Journal of Physical Organic Chemistry</i> , <b>2009</b> , 22, 522-526	2.1	5
23	Room temperature negative differential resistance of a monolayer molecular rotor device. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 093503	3.4	5
22	Ag(i)-mediated self-assembly of anisotropic rods and plates in the surfactant mixture of CTAB and Pluronics.. <i>RSC Advances</i> , <b>2019</b> , 9, 4380-4389	3.7	5
21	Isoquinoline thiosemicarbazone displays potent anticancer activity with efficacy against aggressive leukemias. <i>RSC Medicinal Chemistry</i> , <b>2020</b> , 11, 392-410	3.5	4
20	Encapsulation and reactivity of the enzyme oxalate oxidase in a sol-gel derived glass. <i>Journal of Sol-Gel Science and Technology</i> , <b>1994</b> , 2, 827-829	2.3	4
19	Simultaneous spectroscopic measurements of the interior temperature and induced cargo release from pore-restricted mesoporous silica nanoparticles. <i>Nanoscale</i> , <b>2016</b> , 8, 10558-63	7.7	4
18	EELS Study of Differential Diffusion of Fe and Co in Magnetized Silica Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25578-25587	3.8	3
17	A nanoparticle enabled focused ultrasound-stimulated magnetic resonance imaging spotlight. <i>Chemical Communications</i> , <b>2019</b> , 55, 10261-10264	5.8	3
16	Excited State Distortions Determined by Electronic and Raman Spectroscopy. <i>ACS Symposium Series</i> , <b>1986</b> , 39-56	0.4	3
15	Self-Contained Nanocapsules Carrying Anticancer Peptides for Magnetically Activated and Enzyme-Cleaved Drug Delivery. <i>ACS Applied Nano Materials</i> ,	5.6	3
14	Excited state mixed valence in a dual-bridged three-chromophore system. <i>Journal of Physical Organic Chemistry</i> , <b>2012</b> , 25, 578-585	2.1	2
13	Rigidochromism as a Probe of Gelation, Aging, and Drying in SOL-GEL Derived Ormosils. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 271, 651		2
12	Nanoscience and Nanotechnology at UCLA. <i>ACS Nano</i> , <b>2019</b> , 13, 6127-6129	16.7	1
11	Structures of photo-produced transient species. <i>Research on Chemical Intermediates</i> , <b>2000</b> , 26, 69-84	2.8	1
10	Laser Spectroscopy of Materials Used in Paintings. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 185, 133		1
9	Luminescence of Alizarin and its Metal Complexes. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 185, 139		1

8	Magnetic transitions and structural characteristics of Mn-doped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /silica nanocomposites. <i>AIP Advances</i> , <b>2021</b> , 11, 065313	1.5	1
7	Expanding nanoparticle multifunctionality: size-selected cargo release and multiple logic operations. <i>Nanoscale</i> , <b>2021</b> , 13, 5497-5506	7.7	1
6	Responsive Nanoparticles to Enable a Focused Ultrasound-Stimulated Magnetic Resonance Imaging Spotlight. <i>ACS Nano</i> , <b>2021</b> , 15, 14618-14630	16.7	0
5	Cancer Treatment: Two-Photon-Excited Silica and Organosilica Nanoparticles for Spatiotemporal Cancer Treatment (Adv. Healthcare Mater. 7/2018). <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1870032	10.1	
4	Intracellular Delivery: Redox-Triggered Release of Moxifloxacin from Mesoporous Silica Nanoparticles Functionalized with Disulfide Snap-Tops Enhances Efficacy Against Pneumonic Tularemia in Mice (Small 27/2016). <i>Small</i> , <b>2016</b> , 12, 3740-3740	11	
3	Luminescence Properties of Rare-Earth Ions in Organic-Inorganic Hybrid Mesostructured Thin Films. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 726, 1		
2	Optical Sol-Gel Materials Based on Binding and Catalysis by Biomolecules. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 346, 1017		
1	Encapsulation and Reactivity of Proteins in Optically Transparent Porous Silicate Glasses Prepared by the Sol-Gel Method. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 277, 99		