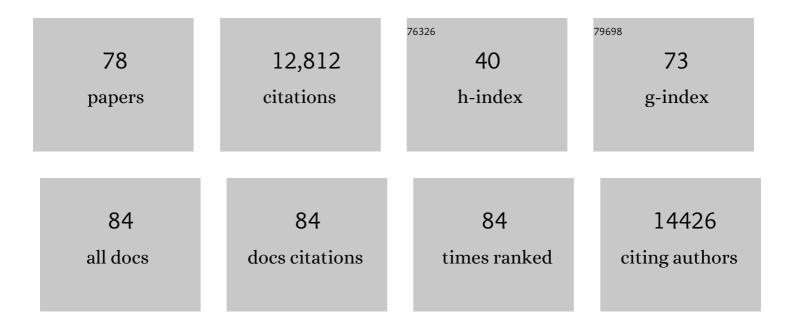
Brian G Trewyn

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Strategies for post-synthetic functionalization of mesoporous carbon nanomaterial surfaces. Microporous and Mesoporous Materials, 2022, 329, 111453.	4.4	5
2	Best Practices in the Characterization of MOF@MSN Composites. Inorganic Chemistry, 2022, 61, 4219-4234.	4.0	7
3	Breaking the fibrinolytic speed limit with microwheel coâ€delivery of tissue plasminogen activator and plasminogen. Journal of Thrombosis and Haemostasis, 2022, 20, 486-497.	3.8	13
4	Direct synthesis of silver nanoparticles modified spherical mesoporous silica as efficient antibacterial materials. Microporous and Mesoporous Materials, 2021, 313, 110824.	4.4	19
5	Tandem Catalytic Systems Integrating Biocatalysts and Inorganic Catalysts Using Functionalized Porous Materials. ACS Catalysis, 2021, 11, 110-122.	11.2	19
6	Decarboxylation of stearic acid over Ni/MOR catalysts. Journal of Chemical Technology and Biotechnology, 2020, 95, 102-110.	3.2	9
7	Multiscale investigations of europium(<scp>iii</scp>) complexation with tetra- <i>n</i> -octyl diglycolamide confined in porous solid supports. CrystEngComm, 2020, 22, 6886-6899.	2.6	3
8	Vacancy Healing as a Desorption Tool: Oxygen Triggered Removal of Stored Ammonia from NiO _{1–<i>x</i>} /MOR Validated by Experiments and Simulations. ACS Applied Energy Materials, 2020, 3, 8233-8239.	5.1	6
9	Electrochemical reduction of europium(<scp>iii</scp>) using tetra- <i>n</i> -octyl diglycolamide functionalized ordered mesoporous carbon microelectrodes. Journal of Materials Chemistry C, 2020, 8, 6689-6700.	5.5	11
10	Targeted Catalyst Design to Combat Deactivation in the Liquid Phase. ACS Symposium Series, 2020, , 267-293.	0.5	0
11	Microcolumn lanthanide separation using bis-(2-ethylhexyl) phosphoric acid functionalized ordered mesoporous carbon materials. Journal of Chromatography A, 2019, 1595, 248-256.	3.7	17
12	Direct synthesis of Fe rich SBA-15â€at low pH by in-situ formation of iron phosphate phase. Microporous and Mesoporous Materials, 2019, 276, 270-279.	4.4	10
13	Monitoring the Stimulated Uncapping Process of Gold-Capped Mesoporous Silica Nanoparticles. Analytical Chemistry, 2018, 90, 3183-3188.	6.5	6
14	Aerobic oxidative esterification of primary alcohols over Pd-Au bimetallic catalysts supported on mesoporous silica nanoparticles. Catalysis Today, 2018, 306, 81-88.	4.4	24
15	Conserved Activity of Reassociated Homotetrameric Protein Subunits Released from Mesoporous Silica Nanoparticles. Langmuir, 2018, 34, 228-233.	3.5	6
16	Review of the harvesting and extraction program within the National Alliance for Advanced Biofuels and Bioproducts. Algal Research, 2018, 33, 470-485.	4.6	50
17	Electroreduction as a facile method for one-pot synthesis of CuZSM-5 nanostructures. Nano Structures Nano Objects, 2018, 16, 354-362.	3.5	0
18	Hybrid Mesoporous Silica/Noble-Metal Nanoparticle Materials—Synthesis and Catalytic Applications. ACS Applied Nano Materials, 2018, 1, 4386-4400.	5.0	103

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19	Palladium Intercalated into the Walls of Mesoporous Silica as Robust and Regenerable Catalysts for Hydrodeoxygenation of Phenolic Compounds. ACS Omega, 2018, 3, 7681-7691.	3.5	23
20	Deactivation of Multilayered MFI Nanosheet Zeolite during Upgrading of Biomass Pyrolysis Vapors. ACS Sustainable Chemistry and Engineering, 2017, 5, 5477-5484.	6.7	44
21	Inâ€Situ Formation of Metal Carbide Catalysts. ChemCatChem, 2017, 9, 3090-3101.	3.7	18
22	Controlled release and intracellular protein delivery from mesoporous silica nanoparticles. Biotechnology Journal, 2017, 12, 1600408.	3.5	81
23	Nanoparticle-Mediated Recombinase Delivery into Maize. Methods in Molecular Biology, 2017, 1642, 169-180.	0.9	5
24	Aerobic Epoxidation of Olefin by Platinum Catalysts Supported on Mesoporous Silica Nanoparticles. ACS Catalysis, 2016, 6, 4584-4593.	11.2	28
25	Elucidating Zeolite Deactivation Mechanisms During Biomass Catalytic Fast Pyrolysis from Model Reactions and Zeolite Syntheses. Topics in Catalysis, 2016, 59, 73-85.	2.8	19
26	Organometallic Complexes Anchored to Conductive Carbon for Electrocatalytic Oxidation of Methane at Low Temperature. Journal of the American Chemical Society, 2016, 138, 116-125.	13.7	34
27	Chemistry in Confined Pore Domains. World Scientific Series in Nanoscience and Nanotechnology, 2015, , 435-456.	0.1	0
28	Molybdenum incorporated mesoporous silica catalyst for production of biofuels and value-added chemicals via catalytic fast pyrolysis. Green Chemistry, 2015, 17, 3035-3046.	9.0	45
29	Enhanced metal loading in SBA-15-type catalysts facilitated by salt addition: Synthesis, characterization and catalytic epoxide alcoholysis activity of molybdenum incorporated porous silica. Applied Catalysis A: General, 2014, 475, 469-476.	4.3	12
30	Mimicking Red Blood Cell Lipid Membrane To Enhance the Hemocompatibility of Large-Pore Mesoporous Silica. ACS Applied Materials & Interfaces, 2014, 6, 1675-1681.	8.0	30
31	Universal and Versatile Route for Selective Covalent Tethering of Single-Site Catalysts and Functional Groups on the Surface of Ordered Mesoporous Carbons. Chemistry of Materials, 2014, 26, 2873-2882.	6.7	16
32	Mesoporous Silica Nanoparticle-Mediated Intracellular Cre Protein Delivery for Maize Genome Editing via <i>loxP</i> Site Excision [,] . Plant Physiology, 2014, 164, 537-547.	4.8	190
33	Polymerâ€based stimuliâ€responsive nanosystems for biomedical applications. Biotechnology Journal, 2013, 8, 931-945.	3.5	88
34	Interaction effects of mesoporous silica nanoparticles with different morphologies on human red blood cells. RSC Advances, 2013, 3, 2454.	3.6	45
35	Solvent-Induced Reversal of Activities between Two Closely Related Heterogeneous Catalysts in the Aldol Reaction. ACS Catalysis, 2013, 3, 265-271.	11.2	54
36	High-Throughput Analysis of Algal Crude Oils Using High Resolution Mass Spectrometry. Lipids, 2013, 48, 297-305.	1.7	13

3

#	Article	IF	CITATIONS
37	Application of Mesoporous Silica Nanoparticles in Intracellular Delivery of Molecules and Proteins. Methods in Enzymology, 2012, 508, 41-59.	1.0	42
38	Functional Mesoporous Silica Nanoparticles for the Selective Sequestration of Free Fatty Acids from Microalgal Oil. ACS Applied Materials & amp; Interfaces, 2012, 4, 1003-1009.	8.0	36
39	Chemically Reducible Lipid Bilayer Coated Mesoporous Silica Nanoparticles Demonstrating Controlled Release and HeLa and Normal Mouse Liver Cell Biocompatibility and Cellular Internalization. Molecular Pharmaceutics, 2012, 9, 2770-2777.	4.6	52
40	Parameters Affecting the Efficient Delivery of Mesoporous Silica Nanoparticle Materials and Gold Nanorods into Plant Tissues by the Biolistic Method. Small, 2012, 8, 413-422.	10.0	64
41	Gold Functionalized Mesoporous Silica Nanoparticle Mediated Protein and DNA Codelivery to Plant Cells Via the Biolistic Method. Advanced Functional Materials, 2012, 22, 3576-3582.	14.9	137
42	Mesoporous Silica Nanoparticle‣tabilized and Manganeseâ€Modified Rhodium Nanoparticles as Catalysts for Highly Selective Synthesis of Ethanol and Acetaldehyde from Syngas. ChemCatChem, 2012, 4, 674-680.	3.7	28
43	Ligand Conformation Dictates Membrane and Endosomal Trafficking of Arginineâ€Glycineâ€Aspartate (RGD)â€Functionalized Mesoporous Silica Nanoparticles. Chemistry - A European Journal, 2012, 18, 7787-7792.	3.3	48
44	Substrate inhibition in the heterogeneous catalyzed aldol condensation: A mechanistic study of supported organocatalysts. Journal of Catalysis, 2012, 291, 63-68.	6.2	76
45	Interaction of Mesoporous Silica Nanoparticles with Human Red Blood Cell Membranes: Size and Surface Effects. ACS Nano, 2011, 5, 1366-1375.	14.6	493
46	Luciferase and Luciferin Co-immobilized Mesoporous Silica Nanoparticle Materials for Intracellular Biocatalysis. Journal of the American Chemical Society, 2011, 133, 18554-18557.	13.7	86
47	Exocytosis of Mesoporous Silica Nanoparticles from Mammalian Cells: From Asymmetric Cellâ€ŧoâ€Cell Transfer to Protein Harvesting. Small, 2011, 7, 1526-1532.	10.0	84
48	Drug Delivery: Exocytosis of Mesoporous Silica Nanoparticles from Mammalian Cells: From Asymmetric Cell-to-Cell Transfer to Protein Harvesting (Small 11/2011). Small, 2011, 7, 1498-1498.	10.0	0
49	Light―and pHâ€Responsive Release of Doxorubicin from a Mesoporous Silicaâ€Based Nanocarrier. Chemistry - A European Journal, 2011, 17, 3338-3342.	3.3	118
50	Surfactant-assisted controlled release of hydrophobic drugs using anionic surfactant templated mesoporous silica nanoparticles. Biomaterials, 2011, 32, 6234-6244.	11.4	74
51	Poly(lactic acid)-coated mesoporous silica nanosphere for controlled release of venlafaxine. Journal of Colloid and Interface Science, 2011, 360, 488-496.	9.4	41
52	Urea and Thiourea-Functionalized Mesoporous Silica Nanoparticle Catalysts with Enhanced Catalytic Activity for Diels–Alder Reaction. Topics in Catalysis, 2010, 53, 187-191.	2.8	47
53	Mesoporous Silica Nanoparticles for Intracellular Controlled Drug Delivery. Small, 2010, 6, 1952-1967.	10.0	907
54	Synthesis of nanotubes via cationic polymerization of styrene and divinylbenzene. Polymer Chemistry, 2010, 1, 1427.	3.9	9

4

#	Article	IF	CITATIONS
55	Capped mesoporous silica nanoparticles as stimuli-responsive controlled release systems for intracellular drug/gene delivery. Expert Opinion on Drug Delivery, 2010, 7, 1013-1029.	5.0	157
56	Mesoporous silica nanoparticles: structural design and applications. Journal of Materials Chemistry, 2010, 20, 7924.	6.7	363
57	Mesoporous Silica Nanoparticle-Based Double Drug Delivery System for Glucose-Responsive Controlled Release of Insulin and Cyclic AMP. Journal of the American Chemical Society, 2009, 131, 8398-8400.	13.7	707
58	Catalytic Reactions of Carbene Precursors on Bulk Gold Metal. Journal of the American Chemical Society, 2009, 131, 11734-11743.	13.7	83
59	Solid-State 13C NMR Characterization of Carbon-Modified TiO2. Chemistry of Materials, 2009, 21, 1187-1197.	6.7	42
60	MESOPOROUS SILICA NANOPARTICLES: SYNTHESIS AND APPLICATIONS. Annual Review of Nano Research, 2009, , 191-231.	0.2	16
61	Endocytosis of a single mesoporous silica nanoparticle into a human lung cancer cell observed by differential interference contrast microscopy. Analytical and Bioanalytical Chemistry, 2008, 391, 2119-2125.	3.7	75
62	Aerobic oxidation of amines to imines catalyzed by bulk gold powder and by alumina-supported gold. Journal of Catalysis, 2008, 260, 1-6.	6.2	200
63	One-pot reaction cascades catalyzed by base- and acid-functionalized mesoporous silica nanoparticles. New Journal of Chemistry, 2008, 32, 1311.	2.8	62
64	Mesoporous Silica Nanoparticles for Intracellular Delivery of Membrane-Impermeable Proteins. Journal of the American Chemical Society, 2007, 129, 8845-8849.	13.7	734
65	Synthesis and Functionalization of a Mesoporous Silica Nanoparticle Based on the Sol–Gel Process and Applications in Controlled Release. Accounts of Chemical Research, 2007, 40, 846-853.	15.6	1,027
66	Mesoporous Aluminum Silicate Catalyst with Single-Type Active Sites:  Characterization by Solid-State NMR and Studies of Reactivity for Claisen Rearrangement Reactions. Journal of Physical Chemistry C, 2007, 111, 1480-1486.	3.1	16
67	Mesoporous silica nanoparticle based controlled release, drug delivery, and biosensor systems. Chemical Communications, 2007, , 3236.	4.1	532
68	Mesoporous silica nanomaterial-based biotechnological and biomedical delivery systems. Nanomedicine, 2007, 2, 99-111.	3.3	146
69	Mesoporous silica nanoparticles deliver DNA and chemicals into plants. Nature Nanotechnology, 2007, 2, 295-300.	31.5	1,242
70	Effect of Surface Functionalization of MCM-41-Type Mesoporous Silica Nanoparticles on the Endocytosis by Human Cancer Cells. Journal of the American Chemical Society, 2006, 128, 14792-14793.	13.7	779
71	Stimuli-Responsive Controlled-Release Delivery System Based on Mesoporous Silica Nanorods Capped with Magnetic Nanoparticles. Angewandte Chemie - International Edition, 2005, 44, 5038-5044.	13.8	938
72	Mesoporous Silica-Supported Uranyl:Â Synthesis and Photoreactivity. Inorganic Chemistry, 2005, 44, 5641-5648.	4.0	24

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73	Encapsulation, stabilization, and release of BSA-FITC from polyanhydride microspheres. Journal of Controlled Release, 2004, 100, 97-109.	9.9	114
74	Morphological Control of Room-Temperature Ionic Liquid Templated Mesoporous Silica Nanoparticles for Controlled Release of Antibacterial Agents. Nano Letters, 2004, 4, 2139-2143.	9.1	413
75	A Mesoporous Silica Nanosphere-Based Carrier System with Chemically Removable CdS Nanoparticle Caps for Stimuli-Responsive Controlled Release of Neurotransmitters and Drug Molecules. Journal of the American Chemical Society, 2003, 125, 4451-4459.	13.7	1,618
76	Surface-Functionalized Nanoporous Catalysts for Renewable Chemistry. , 0, , 15-47.		2
77	Surface-Functionalized Nanoporous Catalysts towards Biofuel Applications. , 0, , 319-357.		1
78	MgO(111) Nanocatalyst for Biomass Conversion: A Study of Carbon Coating Effects on Catalyst Faceting and Performance. Catalysis Letters, 0, , 1.	2.6	1