Sarah C Larsen

List of Publications by Year
in descending order

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97	4,252	94433 37	118850 62
papers	citations	h-index	g-index

100	100	100	5459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Building Bridges between Sustainability and Chemistry in Education and Outreach. ACS Symposium Series, 2020, , 45-53.	0.5	1
2	Mechanochemically-assisted solvent-free and template-free synthesis of zeolites ZSM-5 and mordenite. Nanoscale Advances, 2019, 1, 3918-3928.	4.6	28
3	Solvent-free synthesis of crystalline ZSM-5 zeolite: Investigation of mechanochemical pre-reaction impact on growth of thermally stable zeolite structures. Solid State Sciences, 2019, 94, 15-22.	3.2	16
4	Zeolites and Mesoporous Silica: From Greener Synthesis to Surface Chemistry of Environmental and Biological Interactions. , 2019, , 375-397.		2
5	Mechanochemical reaction pathways in solvent-free synthesis of ZSM-5. Microporous and Mesoporous Materials, 2019, 276, 23-28.	4.4	30
6	Recent Advances in Connecting Structure, Dynamics, and Function of Biomolecules by NMR. Journal of Physical Chemistry B, 2018, 122, 4195-4195.	2.6	1
7	Surface Adsorption of Suwannee River Humic Acid on TiO₂ Nanoparticles: A Study of pH and Particle Size. Langmuir, 2018, 34, 3136-3145.	3.5	76
8	Surface adsorption of Nordic aquatic fulvic acid on amine-functionalized and non-functionalized mesoporous silica nanoparticles. Environmental Science: Nano, 2018, 5, 2162-2171.	4.3	21
9	NMR Developments and Applications. Analytical Chemistry, 2017, 89, 1391-1391.	6.5	3
10	Effects of pore topology and iron oxide core on doxorubicin loading and release from mesoporous silica nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	6
11	New Physical Insights: Magnetic Resonance Methods and Applications. Journal of Physical Chemistry A, 2017, 121, 6199-6199.	2.5	0
12	New Physical Insights: Magnetic Resonance Methods and Applications. Journal of Physical Chemistry C, 2017, 121, 17560-17560.	3.1	0
13	New Physical Insights: Magnetic Resonance Methods and Applications. Journal of Physical Chemistry B, 2017, 121, 7749-7749.	2.6	0
14	Quantification of gabapentin polymorphs in gabapentin/excipient mixtures using solid state 13 C NMR spectroscopy and X-ray powder diffraction. Journal of Pharmaceutical and Biomedical Analysis, 2017, 146, 29-36.	2.8	16
15	Sequestration of U(VI) from Acidic, Alkaline, and High Ionic-Strength Aqueous Media by Functionalized Magnetic Mesoporous Silica Nanoparticles: Capacity and Binding Mechanisms. Environmental Science & Technology, 2017, 51, 14330-14341.	10.0	31
16	Insight into seed-assisted template free synthesis of ZSM-5 zeolites. Microporous and Mesoporous Materials, 2017, 239, 444-452.	4.4	82
17	Solvent effects in the development of a drug delivery system for 5-fluorouracil using magnetic mesoporous silica nanoparticles. Microporous and Mesoporous Materials, 2017, 237, 108-116.	4.4	42
18	Electrospun hematite nanofiber/mesoporous silica core/shell nanomaterials as an efficient adsorbent for heavy metals. RSC Advances, 2016, 6, 90516-90525.	3.6	17

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19	Functionalized magnetic mesoporous silica nanoparticles for U removal from low and high pH groundwater. Journal of Hazardous Materials, 2016, 317, 494-502.	12.4	63
20	Amine modification of nonporous silica nanoparticles reduces inflammatory response following intratracheal instillation in murine lungs. Toxicology Letters, 2016, 241, 207-215.	0.8	43
21	Nanoâ€"Bio Interactions of Porous and Nonporous Silica Nanoparticles of Varied Surface Chemistry: A Structural, Kinetic, and Thermodynamic Study of Protein Adsorption from RPMI Culture Medium. Langmuir, 2016, 32, 731-742.	3.5	45
22	Silica nanoparticle-generated ROS as a predictor of cellular toxicity: mechanistic insights and safety by design. Environmental Science: Nano, 2016, 3, 56-66.	4.3	128
23	NanoEHS â€" defining fundamental science needs: no easy feat when the simple itself is complex. Environmental Science: Nano, 2016, 3, 15-27.	4.3	53
24	Chemical Insight into the Adsorption of Chromium(III) on Iron Oxide/Mesoporous Silica Nanocomposites. Langmuir, 2015, 31, 7553-7562.	3.5	93
25	One-pot synthesis of iron oxide mesoporous silica core/shell nanocomposites. Microporous and Mesoporous Materials, 2015, 204, 173-179.	4.4	12
26	Ligand Characterization of Covalently Functionalized Mesoporous Silica Nanoparticles: An NMR Toolbox Approach. Journal of Physical Chemistry C, 2014, 118, 29943-29951.	3.1	29
27	Zeolite and mesoporous silica nanomaterials: greener syntheses, environmental applications and biological toxicity. Environmental Science: Nano, 2014, 1, 200-213.	4.3	114
28	Incorporation of germanium into the framework of nanocrystalline faujasite. Microporous and Mesoporous Materials, 2013, 180, 229-234.	4.4	4
29	Loading and release of 5-fluorouracil from HY zeolites with varying SiO2/Al2O3 ratios. Microporous and Mesoporous Materials, 2013, 167, 182-187.	4.4	68
30	Development of Porous Nanomaterials for Applications in Drug Delivery and Imaging. ACS Symposium Series, 2012, , 239-258.	0.5	11
31	Adsorption and Photochemical Properties of a Molecular CO₂ Reduction Catalyst in Hierarchical Mesoporous ZSM-5: An In Situ FTIR Study. Journal of Physical Chemistry Letters, 2012, 3, 486-492.	4.6	30
32	Surface-Selective Solution NMR Studies of Functionalized Zeolite Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 425-429.	4.6	16
33	Aspirin Loading and Release from MCM-41 Functionalized with Aminopropyl Groups via Co-condensation or Postsynthesis Modification Methods. Journal of Physical Chemistry C, 2012, 116, 18358-18366.	3.1	97
34	An Experimental and Computational Study of the Loading and Release of Aspirin from Zeolite HY. Journal of Physical Chemistry C, 2012, 116, 21382-21390.	3.1	56
35	Preparation of a Versatile Bifunctional Zeolite for Targeted Imaging Applications. Langmuir, 2011, 27, 2904-2909.	3.5	26
36	Synthesis of hierarchical nanocrystalline ZSM-5 with controlled particle size and mesoporosity. Microporous and Mesoporous Materials, 2011, 137, 92-100.	4.4	125

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37	From nanoparticles to hierarchical structures: Controlling the morphology of zeolite beta. Microporous and Mesoporous Materials, 2011, 143, 97-103.	4.4	46
38	Development of Hands-on Nanotechnology Content Materials: Undergraduate Chemistry and Beyond. ACS Symposium Series, 2010, , 87-99.	0.5	3
39	Chromate adsorption on bifunctional, magnetic zeolite composites. Microporous and Mesoporous Materials, 2010, 130, 197-202.	4.4	84
40	DFT Calculations of EPR Parameters for Copper(II)-Exchanged Zeolites Using Cluster Models. Journal of Physical Chemistry A, 2010, 114, 589-594.	2.5	15
41	Framework Stability of Nanocrystalline NaY in Aqueous Solution at Varying pH. Langmuir, 2010, 26, 6695-6701.	3.5	20
42	Toxicity of Silica Nanomaterials: Zeolites, Mesoporous Silica, and Amorphous Silica Nanoparticles. Advances in Molecular Toxicology, 2010, 4, 223-266.	0.4	47
43	Hyperfine and Quadrupolar Interactions in Vanadyl Proteins and Model Complexes: Theory and Experiment. Biological Magnetic Resonance, 2010, , 371-409.	0.4	10
44	Insight into the copper coordination environment in the prion protein through density functional theory calculations of EPR parameters. Journal of Biological Inorganic Chemistry, 2009, 14, 547-557.	2.6	14
45	Effect of Crystal Size and Surface Functionalization on the Cytotoxicity of Silicalite-1 Nanoparticles. Chemical Research in Toxicology, 2009, 22, 1359-1368.	3.3	70
46	Carbon dioxide (C16O2 and C18O2) adsorption in zeolite Y materials: effect of cation, adsorbed water and particle size. Energy and Environmental Science, 2009, 2, 401.	30.8	76
47	DFT calculations of the EPR parameters for Cu(ii) DETA imidazole complexes. Physical Chemistry Chemical Physics, 2009, 11, 8266.	2.8	23
48	Density Functional Theory Investigation of EPR Parameters for Tetragonal Cu(II) Model Complexes with Oxygen Ligands. Journal of Physical Chemistry A, 2009, 113, 4305-4312.	2.5	31
49	Chromate adsorption on amine-functionalized nanocrystalline silicalite-1. Microporous and Mesoporous Materials, 2008, 116, 365-369.	4.4	28
50	Transition metal and organic functionalization of hollow zeolite structures. Microporous and Mesoporous Materials, 2008, 113, 554-561.	4.4	14
51	FTIR study of the selective catalytic reduction of NO2 with ammonia on nanocrystalline NaY and CuY. Journal of Molecular Catalysis A, 2008, 285, 48-57.	4.8	43
52	ATRâ€“FTIR Spectroscopy in the Undergraduate Chemistry Laboratory. Part II: A Physical Chemistry Laboratory Experiment on Surface Adsorption. Journal of Chemical Education, 2008, 85, 282.	2.3	11
53	Silicalite nanoparticles that promote transgene expression. Nanotechnology, 2008, 19, 175103.	2.6	26
54	Nanocrystalline Zeolites and Zeolite Structures:â€‰ Synthesis, Characterization, and Applications. Journal of Physical Chemistry C, 2007, 111, 18464-18474.	3.1	280

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55	Visible light photoreduction of Cr(VI) in aqueous solution using iron-containing zeolite tubes. Microporous and Mesoporous Materials, 2007, 100, 340-349.	4.4	19
56	Adsorption, desorption and thermal oxidation of 2-CEES on nanocrystalline zeolites. Microporous and Mesoporous Materials, 2007, 100, 77-86.	4.4	35
57	Solid-State MAS NMR Studies of Sulfonic Acid-Functionalized SBA-15. Applied Magnetic Resonance, 2007, 32, 513-526.	1.2	19
58	Adsorption and Thermal Reaction of DMMP in Nanocrystalline NaY. Langmuir, 2006, 22, 11077-11084.	3.5	37
59	Integration of a Communicating Science Module into an Advanced Chemistry Laboratory Course. Journal of Chemical Education, 2006, 83, 1029.	2.3	22
60	Fiber and film formation by self-assembly of colloidal silicalite-1 and copper coated silicalite-1 nanocrystals. Microporous and Mesoporous Materials, 2006, 88, 77-83.	4.4	9
61	Catalytic reduction of NO2 in nanocrystalline NaY zeolite. Journal of Molecular Catalysis A, 2005, 227, 25-35.	4.8	39
62	DFT calculations of EPR parameters of transition metal complexes: Implications for catalysis. Catalysis Today, 2005, 105, 122-133.	4.4	66
63	Selective catalytic reduction of NO2 with urea in nanocrystalline NaY zeolite. Journal of Catalysis, 2005, 234, 401-413.	6.2	65
64	DFT Calculations of EPR Parameters of Transition Metal Complexes: Implications for Catalysis. ChemInform, 2005, 36, no.	0.0	0
65	An FT-IR Study of NO2 Reduction in Nanocrystalline NaY Zeolite: Effect of Zeolite Crystal Size and Adsorbed Water. Catalysis Letters, 2005, 103, 23-32.	2.6	29
66	Magnetic Resonance Investigation of Vanadia and Vanadiumâ"Molybdenum Gels Synthesized with Peroxovanadate Precursors. Journal of Physical Chemistry B, 2005, 109, 1756-1762.	2.6	12
67	Development of Improved Materials for Environmental Applications:Â Nanocrystalline NaY Zeolites. Environmental Science & Technology, 2005, 39, 1214-1220.	10.0	88
68	Microscopic and Macroscopic Characterization of Organosilane-Functionalized Nanocrystalline NaZSM-5. Langmuir, 2005, 21, 7009-7014.	3.5	43
69	Applications of Zeolites in Environmental Catalysis. , 2005, , 269-286.		3
70	Nanocatalysts for Environmental Technology. ACS Symposium Series, 2004, , 268-271.	0.5	0
71	Magnetic resonance studies of reactions of urea and nitric oxide on FeZSM-5, HZSM-5 and silicalite. Journal of Molecular Catalysis A, 2004, 212, 329-336.	4.8	18
72	Two-Dimensional Pulsed EPR Studies of Vanadium-Exchanged ZSM-5. Journal of Physical Chemistry B, 2004, 108, 16128-16134.	2.6	20

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73	Synthesis, Characterization, and Adsorption Properties of Nanocrystalline ZSM-5. Langmuir, 2004, 20, 8301-8306.	3.5	213
74	Size-Dependent Properties of Nanocrystalline Silicalite Synthesized with Systematically Varied Crystal Sizes. Langmuir, 2004, 20, 4696-4702.	3.5	109
75	Photooxidation of cyclohexane and cyclohexene in BaY. Journal of Molecular Catalysis A, 2003, 194, 169-180.	4.8	20
76	Density Functional Theory Calculations of the Electron Paramagnetic Resonance Parameters for VO2+ Complexes. Journal of Physical Chemistry A, 2003, 107, 1872-1878.	2.5	61
77	Density Functional Theory Calculations of Nitrogen Hyperfine and Quadrupole Coupling Constants in Oxovanadium(IV) Complexes. Journal of Physical Chemistry A, 2003, 107, 4735-4740.	2.5	12
78	Relativistic DFT Calculations of Copper Hyperfine Coupling Constants:â€‰ Effect of Spinâ^'Orbit Coupling. Journal of Physical Chemistry A, 2003, 107, 5583-5587.	2.5	14
79	Computational Study of the Effect of the Imidazole Ring Orientation on the EPR Parameters for Vanadylâ^'Imidazole Complexes. Journal of Physical Chemistry A, 2002, 106, 10444-10451.	2.5	22
80	A 13C and 15N Solid State NMR Study of the Reactions of Acetone Oxime Adsorbed on FeZSM-5. Catalysis Letters, 2002, 78, 243-249.	2.6	8
81	Combining Theory and Experiment to Interpret the EPR Spectra of VO2+-Exchanged Zeolites. Journal of Physical Chemistry A, 2001, 105, 4563-4573.	2.5	47
82	DFT Calculations of Proton Hyperfine Coupling Constants for [VO(H2O)5]2+:â€‰ Comparison with Proton ENDOR Data. Journal of Physical Chemistry A, 2001, 105, 8333-8338.	2.5	45
83	A Kinetic Study of the Thermal and Photochemical Partial Oxidation of Cyclohexane with Molecular Oxygen in Zeolite Y. Journal of Catalysis, 2001, 204, 440-449.	6.2	33
84	Title is missing!. Catalysis Letters, 2000, 70, 43-50.	2.6	7
85	Characterization of Ruthenium-Exchanged Zeolites (Beta, Y, and ZSM-5) by EPR Spectroscopy. Journal of Catalysis, 2000, 196, 352-361.	6.2	26
86	Photooxidation of Toluene andp-Xylene in Cation-Exchanged Zeolites X, Y, ZSM-5, and Beta:Â The Role of Zeolite Physicochemical Properties in Product Yield and Selectivity. Journal of Physical Chemistry B, 2000, 104, 5706-5714.	2.6	36
87	Interpretation of the EPR Spectra of Nitrogen-Containing Compounds Adsorbed on Copper-Exchanged Zeolites. Journal of Physical Chemistry B, 2000, 104, 8848-8854.	2.6	21
88	EPR Study of Copper-Exchanged Zeolites:â€‰ Effects of Correlated g- and A-Strain, Si/Al Ratio, and Parent Zeolite. Journal of Physical Chemistry B, 2000, 104, 6568-6575.	2.6	96
89	Variable-Temperature Electron Paramagnetic Resonance Studies of Copper-Exchanged Zeolites. Journal of Catalysis, 1999, 182, 208-218.	6.2	43
90	Solid-State Nuclear Magnetic Resonance Study of Acetone Oxime Adsorbed on CuZSM-5 and on HZSM-5. Journal of Catalysis, 1999, 182, 244-256.	6.2	20

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91	CO Adsorption as a Probe of Acid Sites and the Electric Field in Alkaline Earth Exchanged Zeolite Beta Using FT-IR and ab Initio Quantum Calculations. Journal of Physical Chemistry B, 1999, 103, 5058-5062.	2.6	48
92	Photooxidation of 1-Alkenes in Zeolites:â€‰ A Study of the Factors that Influence Product Selectivity and Formation. Journal of the American Chemical Society, 1999, 121, 5063-5072.	13.7	55
93	Selective photooxidation reactions in zeolites X, Y and ZSM-5. Catalysis Letters, 1997, 48, 199-202.	2.6	18
94	An Infrared Study of NO Decomposition over Cu-ZSM-5. Journal of Catalysis, 1995, 157, 592-602.	6.2	209
95	Radical Anion Complexes of Tris(1,3-diphenyltriazenido)aluminum. Journal of the American Chemical Society, 1995, 117, 1736-1745.	13.7	20
96	Electronic Structure of the Tris(1,3-diphenyltriazenido)aluminum Radical Anion: A Theoretical and Experimental ESEEM and EPR Study. Journal of the American Chemical Society, 1995, 117, 1746-1753.	13.7	5
97	Electron Paramagnetic Resonance Studies of Copper Ion-Exchanged ZSM-5. The Journal of Physical Chemistry, 1994, 98, 11533-11540.	2.9	302