Anne Galarneau

List of Publications by Year
in descending order

83 papers	5,043 citations	101384 36 h-index	88477 70 g-index
85 all docs	85 docs citations	85 times ranked	5480 citing authors

#	Article	IF	Citations
1	Microporosity and connections between pores in SBA-15 mesostructured silicas as a function of the temperature of synthesis. New Journal of Chemistry, 2003, 27, 73-79.	1.4	497
2	True Microporosity and Surface Area of Mesoporous SBA-15 Silicas as a Function of Synthesis Temperature. Langmuir, 2001, 17, 8328-8335.	1.6	384
3	Micelle-templated silicates as a test bed for methods of mesopore size evaluation. Microporous and Mesoporous Materials, 1999, 27, 297-308.	2.2	249
4	Validity of the t-plot Method to Assess Microporosity in Hierarchical Micro/Mesoporous Materials. Langmuir, 2014, 30, 13266-13274.	1.6	232
5	Adsorption, intrusion and freezing in porous silica: the view from the nanoscale. Chemical Society Reviews, 2013, 42, 4141.	18.7	204
6	Understanding the Stability in Water of Mesoporous SBA-15 and MCM-41. Journal of Physical Chemistry C, 2007, 111, 8268-8277.	1.5	187
7	Thermal and mechanical stability of micelle-templated silica supports for catalysis. Catalysis Today, 2001, 68, 191-200.	2.2	152
8	In situ synthesis of Cuâ€“BTC (HKUST-1) in macro-/mesoporous silica monoliths for continuous flow catalysis. Chemical Communications, 2012, 48, 4749.	2.2	151
9	Functionalized Inorganic Monolithic Microreactors for High Productivity in Fine Chemicals Catalytic Synthesis. Angewandte Chemie - International Edition, 2009, 48, 4969-4972.	7.2	141
10	Great Improvement of Chromatographic Performance Using MCM-41 Spheres as Stationary Phase in HPLC. Chemistry of Materials, 2004, 16, 1725-1731.	3.2	123
11	Kinetics of Formation of Micelle-Templated Silica Mesophases Monitored by Electron Paramagnetic Resonance. Journal of Colloid and Interface Science, 1998, 201, 105-117.	5.0	108
12	Reduction of CO2 to methanol by a polyenzymatic system encapsulated in phospholipidsâ€“silica nanocapsules. New Journal of Chemistry, 2013, 37, 3721.	1.4	100
13	Functional silica monoliths with hierarchical uniform porosity as continuous flow catalytic reactors. Microporous and Mesoporous Materials, 2011, 140, 58-68.	2.2	98
14	Spherical ordered mesoporous silicas and silica monoliths as stationary phases for liquid chromatography. Journal of Separation Science, 2006, 29, 844-855.	1.3	93
15	Catalytic ozonation with Î³-Al 2 O 3 to enhance the degradation of refractory organics in water. Applied Catalysis A: General, 2015, 504, 519-532.	2.2	91
16	Hierarchical porous silica monoliths: A novel class of microreactors for process intensification in catalysis and adsorption. Comptes Rendus Chimie, 2016, 19, 231-247.	0.2	91
17	Monolithic flow microreactors improve fine chemicals synthesis. New Journal of Chemistry, 2011, 35, 259.	1.4	86
18	Immobilization of lipase on silicas. Relevance of textural and interfacial properties on activity and selectivity. New Journal of Chemistry, 2006, 30, 562.	1.4	85

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19	Synthesis of Micelle-Templated Silicas from Cetyltrimethylammonium Bromide/1,3,5-Trimethylbenzene Micelles. Journal of Physical Chemistry B, 2004, 108, 12123-12129.	1.2	80
20	Gas Adsorption in Mesoporous Micelle-Templated Silicas:Â MCM-41, MCM-48, and SBA-15. Langmuir, 2006, 22, 11097-11105.	1.6	78
21	MCM-41 silica monoliths with independent control of meso- and macroporosity. New Journal of Chemistry, 2007, 31, 1907.	1.4	77
22	Advanced porous materials: New developments and emerging trends. Microporous and Mesoporous Materials, 2005, 82, 227-239.	2.2	74
23	Specific Surface Area Determination for Microporous/Mesoporous Materials: The Case of Mesoporous FAU-Y Zeolites. Langmuir, 2018, 34, 14134-14142.	1.6	72
24	A New Mesoporous Micelle-Templated Silica Route for Enzyme Encapsulation. Langmuir, 2005, 21, 4648-4655.	1.6	64
25	Macroporous LTA-monoliths for in-flow removal of radioactive strontium from aqueous effluents: Application to the case of Fukushima. Microporous and Mesoporous Materials, 2012, 164, 251-258.	2.2	64
26	Molecular Simulation of Adsorption and Transport in Hierarchical Porous Materials. Langmuir, 2013, 29, 7864-7875.	1.6	64
27	Probing Interconnectivity in Hierarchical Microporous/Mesoporous Materials Using Adsorption and Nuclear Magnetic Resonance Diffusion. Journal of Physical Chemistry C, 2016, 120, 1562-1569.	1.5	59
28	Continuous Partial Hydrogenation Reactions by Pd@unconventional Bimodal Porous Titania Monolith Catalysts. ACS Catalysis, 2012, 2, 2194-2198.	5.5	58
29	Effect of Morphological Defects on Gas Adsorption in Nanoporous Silicasâ€. Journal of Physical Chemistry C, 2007, 111, 15759-15770.	1.5	57
30	EPR investigations on the formation of micelle-templated silica. Microporous and Mesoporous Materials, 2001, 44-45, 1-8.	2.2	53
31	Synthesis of Zeolite Monoliths for Flow Continuous Processes. The Case of Sodalite as a Basic Catalyst. Chemistry of Materials, 2010, 22, 4123-4125.	3.2	53
32	Synthesis of Discrete Micrometer-Sized Spherical Particles of MCM-48. Chemistry of Materials, 2005, 17, 2120-2130.	3.2	50
33	Synthesis and Textural Characterization of Mesoporous and Meso-/Macroporous Silica Monoliths Obtained by Spinodal Decomposition. Inorganics, 2016, 4, 9.	1.2	50
34	Selective Cu2+ adsorption and recovery from contaminated water using mesoporous hybrid silica bio-adsorbents. Microporous and Mesoporous Materials, 2011, 146, 141-150.	2.2	46
35	Selective hydrogenation over Pd nanoparticles supported on a pore-flow-through silica monolith microreactor with hierarchical porosity. Dalton Transactions, 2013, 42, 1378-1384.	1.6	45
36	LTA zeolite monoliths with hierarchical trimodal porosity as highly efficient microreactors for strontium capture in continuous flow. Microporous and Mesoporous Materials, 2016, 232, 39-52.	2.2	42

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37	Challenges and Strategies in the Synthesis of Mesoporous Alumina Powders and Hierarchical Alumina Monoliths. Materials, 2012, 5, 336-349.	1.3	36
38	Characterization of mesoporous silica and its pseudomorphically transformed derivative by gas and liquid adsorption. Microporous and Mesoporous Materials, 2007, 102, 111-121.	2.2	35
39	Effect of post-synthesis treatment on the stability and surface properties of MCM-48 silica. Microporous and Mesoporous Materials, 2005, 83, 172-180.	2.2	34
40	Epoxy-functionalized large-pore SBA-15 and KIT-6 as affinity chromatography supports. Comptes Rendus Chimie, 2010, 13, 199-206.	0.2	34
41	Hemoglobin immobilized on mesoporous silica as effective material for the removal of polycyclic aromatic hydrocarbons pollutants from water. New Journal of Chemistry, 2010, 34, 2153.	1.4	34
42	Enhancement of lithium transport by controlling the mesoporosity of silica monoliths filled by ionic liquids. New Journal of Chemistry, 2016, 40, 4269-4276.	1.4	34
43	Diffusion Properties of Hexane in Pseudomorphic MCM-41 Mesoporous Silicas Explored by Pulsed Field Gradient NMR. Journal of Physical Chemistry C, 2012, 116, 13749-13759.	1.5	33
44	Mesoporous materials for antihydrogen production. Chemical Society Reviews, 2013, 42, 3821-3832.	18.7	32
45	Electrochromatographic behavior of silica monolithic capillaries of different skeleton sizes synthesized with a simplified and shortened solâ€“gel procedure. Electrophoresis, 2006, 27, 3971-3980.	1.3	31
46	Immobilisation of a biological chelate in porous mesostructured silica for selective metal removal from wastewater and its recovery. New Journal of Chemistry, 2005, 29, 912.	1.4	29
47	Synthesis of binderless zeolite aggregates (SOD, LTA, FAU) beads of 10, 70Î¼m and 1mm by direct pseudomorphic transformation. Microporous and Mesoporous Materials, 2013, 176, 145-154.	2.2	27
48	Sponge Mesoporous Silica Formation Using Disordered Phospholipid Bilayers as Template. Journal of Physical Chemistry B, 2010, 114, 2140-2152.	1.2	25
49	Adsorption and Dynamics in Hierarchical Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2014, 118, 7423-7433.	1.5	25
50	C,N-doped TiO2 monoliths with hierarchical macro-/mesoporosity for water treatment under visible light. Microporous and Mesoporous Materials, 2019, 280, 37-45.	2.2	25
51	Intrusion and Retraction of Fluids in Nanopores: Effect of Morphological Heterogeneity. Journal of Physical Chemistry C, 2009, 113, 1953-1962.	1.5	24
52	Hosting Ability of Mesoporous Micelle-Templated Silicas toward Organic Molecules of Different Polarity. Journal of Physical Chemistry B, 2004, 108, 18580-18589.	1.2	22
53	Removal of 2,4-dimethylphenol pollutant in water by ozonation catalyzed by SOD, LTA, FAU-X zeolites particles obtained by pseudomorphic transformation (binderless). Microporous and Mesoporous Materials, 2014, 189, 200-209.	2.2	22
54	Unconventional Pd@Sulfonated Silica Monoliths Catalysts for Selective Partial Hydrogenation Reactions under Continuous Flow. ChemCatChem, 2017, 9, 3245-3258.	1.8	22

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55	Bimodal porous silica monoliths obtained by phase separation in non-aqueous media. Journal of Materials Chemistry, 2010, 20, 964-971.	6.7	21
56	Production of formate from CO₂ gas under ambient conditions: towards flow-through enzyme reactors. Green Chemistry, 2020, 22, 3727-3733.	4.6	21
57	Selective continuous flow extractive denitrogenation of oil containing S- and N-heteroaromatics using metal-containing ionic liquids supported on monolithic silica with hierarchical porosity. RSC Advances, 2014, 4, 1045-1054.	1.7	20
58	Synthesis of Micelle Templated Silicoâ"Aluminas with Different Alumina Contents. Journal of Physical Chemistry B, 2006, 110, 4058-4065.	1.2	19
59	Pore structural characteristics, size exclusion properties and column performance of two mesoporous amorphous silicas and their pseudomorphically transformed MCMâ€41 type derivatives. Journal of Separation Science, 2007, 30, 3089-3103.	1.3	18
60	Optimization of the Properties of Macroporous Chromatography Silica Supports through Surface Roughness Control. Chemistry of Materials, 2009, 21, 1884-1892.	3.2	18
61	Phospholipid-templated silica nanocapsules as efficient polyenzymatic biocatalysts. Dalton Transactions, 2010, 39, 8511.	1.6	18
62	Noninvasive Experimental Evidence of the Linear Pore Size Dependence of Water Diffusion in Nanoconfinement. Journal of Physical Chemistry Letters, 2016, 7, 393-398.	2.1	18
63	Catalaseâ€like activity of bovine metâ€hemoglobin: Interaction with the pseudoâ€catalytic peroxidation of anthracene traces in aqueous medium. Biotechnology Journal, 2009, 4, 1460-1470.	1.8	17
64	Removal of perfluorooctanoic acid from water by adsorption on high surface area mesoporous materials. Journal of Porous Materials, 2014, 21, 423.	1.3	15
65	Size control of self-supported LTA zeolite nanoparticles monoliths. Microporous and Mesoporous Materials, 2016, 227, 176-190.	2.2	14
66	Revelation on the Complex Nature of Mesoporous Hierarchical FAU-Y Zeolites. Langmuir, 2018, 34, 11414-11423.	1.6	14
67	Synthesis of Large-Pore Micelle-Templated Silico-Aluminas at Different Alumina Contents. Journal of Physical Chemistry B, 2006, 110, 20202-20210.	1.2	13
68	Nanocrystals FAU-X monoliths as highly efficient microreactors for cesium capture in continuous flow. Microporous and Mesoporous Materials, 2019, 285, 185-194.	2.2	13
69	Synthesis of binderless FAU-X (13X) monoliths with hierarchical porosity. Microporous and Mesoporous Materials, 2019, 281, 57-65.	2.2	13
70	Determination of Microporous and Mesoporous Surface Areas and Volumes of Mesoporous Zeolites by Corrected tâ€Plot Analysis. ChemNanoMat, 2022, 8, .	1.5	12
71	Mechanical strength of nanosized hexagonal silica honeycombs. Materials Science and Engineering C, 2003, 23, 727-732.	3.8	10
72	Biocatalytic Elimination of Pharmaceutics Found in Water With Hierarchical Silica Monoliths in Continuous Flow. Frontiers in Chemical Engineering, 2022, 4, .	1.3	9

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73	Combining Phase Separation with Pseudomorphic Transformation for the Control of the Pore Architecture of Functional Materials: A Review. Petroleum Chemistry, 2019, 59, 761-769.	0.4	8
74	Hierarchical ZSM-5 beads composed of zeolite nanosheets obtained by pseudomorphic transformation. Microporous and Mesoporous Materials, 2019, 288, 109565.	2.2	8
75	Adsorption-based characterization of hierarchical metalâ€“organic frameworks. Adsorption, 2014, 20, 349-357.	1.4	7
76	Impact of Pore Architecture on the Hydroconversion of Long Chain Alkanes over Micro and Mesoporous Catalysts. Petroleum Chemistry, 2020, 60, 479-489.	0.4	7
77	Silica based ionogels: interface effects with aprotic and protic ionic liquids with lithium. Physical Chemistry Chemical Physics, 2020, 22, 24051-24058.	1.3	6
78	Synthesis of Hierarchical Zeolites with Morphology Control: Plain and Hollow Spherical Beads of Silicalite-1 Nanosheets. Molecules, 2020, 25, 2563.	1.7	5
79	An autonomous plant growing miniaturized incubator for a Cubesat. Acta Astronautica, 2021, 179, 439-449.	1.7	2
80	Experimental and modeling of tetracycline degradation in water in a flow-through enzymatic monolithic reactor. Environmental Science and Pollution Research, 2022, 29, 75896-75906.	2.7	2
81	Phospholipidâ€“silica mesophases formed in hydroalcoholic solution as precursors of mesoporous silica. New Journal of Chemistry, 2016, 40, 4314-4318.	1.4	0
82	Highly Efficient Mesoporous Mg/Î³-Al2O3 Catalysts for Ozonation of Saline Petroleum Effluents. Petroleum Chemistry, 2020, 60, 858-880.	0.4	0
83	Editorial: Hierarchical and Multifunctional Materials in Chemical Engineering: Synthesis Strategies and Processing Challenges. Frontiers in Chemical Engineering, 2022, 4, .	1.3	0