

Mary K Carroll

List of Publications by Year in descending order

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29
papers

542
citations

759233

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23
g-index

30
all docs

30
docs citations

30
times ranked

422
citing authors

#	ARTICLE	IF	CITATIONS
1	Aesthetic Aerogel Window Design for Sustainable Buildings. Sustainability, 2022, 14, 2887.	3.2	12
2	Effect of slurry processing on the properties of catalytically active copper-alumina aerogel material for applications in three-way catalysis. Journal of Sol-Gel Science and Technology, 2022, 102, 422-436.	2.4	2
3	Aesthetically Enhanced Silica Aerogel Via Incorporation of Laser Etching and Dyes. Journal of Visualized Experiments, 2021, , .	0.3	1
4	Effect of Copper Loading in Copper-Alumina Aerogels on Three-Way Catalytic Performance. Emission Control Science and Technology, 2020, 6, 324-335.	1.5	2
5	Analysis and characterization of etched silica aerogels. Journal of Sol-Gel Science and Technology, 2020, 94, 406-415.	2.4	3
6	Inclusion of Ceria in Alumina- and Silica-Based Aerogels for Catalytic Applications. Journal of Supercritical Fluids, 2019, 152, 104536.	3.2	15
7	Optical and visual experimental characterization of a glazing system with monolithic silica aerogel. Solar Energy, 2019, 183, 30-39.	6.1	50
8	Life Cycle Assessment of Aerogel Manufacture on Small and Large Scales: Weighing the Use of Advanced Materials in Oil Spill Remediation. Journal of Industrial Ecology, 2018, 22, 1365-1377.	5.5	15
9	Fabrication and Testing of Catalytic Aerogels Prepared Via Rapid Supercritical Extraction. Journal of Visualized Experiments, 2018, , .	0.3	3
10	Acoustic measurements on monolithic aerogel samples and application of the selected solutions to standard window systems. Applied Acoustics, 2018, 142, 123-131.	3.3	31
11	Facile method for surface etching of silica aerogel monoliths. Journal of Sol-Gel Science and Technology, 2018, 87, 22-26.	2.4	8
12	Preparation and characterization of copper-containing alumina and silica aerogels for catalytic applications. Journal of Sol-Gel Science and Technology, 2017, 84, 432-445.	2.4	12
13	Synthesis and Characterization of Copper-Nanoparticle-Containing Silica Aerogel Prepared via Rapid Supercritical Extraction for Applications in Three-Way Catalysis. MRS Advances, 2017, 2, 3485-3490.	0.9	7
14	Preparation of vanadia-containing aerogels by rapid supercritical extraction for applications in catalysis. Journal of Sol-Gel Science and Technology, 2016, 77, 160-171.	2.4	12
15	Cobalt-alumina sol gels: Effects of heat treatment on structure and catalytic ability. Journal of Non-Crystalline Solids, 2016, 453, 94-102.	3.1	13
16	Preparation of Monolithic Silica Aerogel for Fenestration Applications: Scaling up, Reducing Cycle Time, and Improving Performance. Industrial & Engineering Chemistry Research, 2016, 55, 6971-6981.	3.7	41
17	Epoxide-assisted alumina aerogels by rapid supercritical extraction. Journal of Non-Crystalline Solids, 2015, 426, 141-149.	3.1	38
18	Fabrication and characterization of TEOS-based silica aerogels prepared using rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2014, 70, 371-377.	2.4	13

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19	Hydrophobicity and drag reduction properties of surfaces coated with silica aerogels and xerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 490-500.	2.4	12
20	Preparing Silica Aerogel Monoliths via a Rapid Supercritical Extraction Method. <i>Journal of Visualized Experiments</i> , 2014, , e51421.	0.3	15
21	Moving from Recommendations to Innovations: Increasing the Relevancy and Effectiveness of Chemistry Education. <i>Journal of Chemical Education</i> , 2013, 90, 816-819.	2.3	8
22	Fabrication of titania and titania-silica aerogels using rapid supercritical extraction. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 404-413.	2.4	22
23	Hydrophobic silica aerogels prepared via rapid supercritical extraction. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 199-207.	2.4	43
24	Alumina aerogels prepared via rapid supercritical extraction. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 216-226.	2.4	31
25	Analysis of a rapid supercritical extraction aerogel fabrication process: Prediction of thermodynamic conditions during processing. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3685-3693.	3.1	30
26	Density Determination by Water Displacement and Flotation: An Introductory Experiment in Forensic Chemistry. <i>Journal of Chemical Education</i> , 2006, 83, 1187.	2.3	7
27	A fast supercritical extraction technique for aerogel fabrication. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 238-243.	3.1	86
28	Intermolecular Forces in Introductory Chemistry Studied by Gas Chromatography, Computer Models, and Viscometry. <i>Journal of Chemical Education</i> , 1998, 75, 885.	2.3	10
29	The Evolution of a Laboratory Syllabus for Quantitative Analysis. <i>The Chemical Educator</i> , 1997, 2, 1-13.	0.0	0