

# Chariklia Sotiriou-Leventis

## List of Publications by Year in descending order

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55  
papers

2,914  
citations

186265  
28  
h-index

161849  
54  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-temperature catalytic synthesis of graphite aerogels from polyacrylonitrile-crosslinked iron oxide and cobalt oxide xerogel powders. <i>Carbon</i> , 2022, 193, 107-127.	10.3	6
2	Preparation of Carbon Aerogels from Polymer-Cross-Linked Xerogel Powders without Supercritical Fluid Drying and Their Application in Highly Selective CO <sub>2</sub> Adsorption. <i>Chemistry of Materials</i> , 2022, 34, 4828-4847.	6.7	8
3	Metamaterial-like aerogels for broadband vibration mitigation. <i>Soft Matter</i> , 2021, 17, 4496-4503.	2.7	6
4	Meta-Aerogels: Auxetic Shape-Memory Polyurethane Aerogels. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5727-5738.	4.4	15
5	Transparent, mechanically strong, thermally insulating cross-linked silica aerogels for energy-efficient windows. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 84-100.	2.4	34
6	Low-Cost, Ambient-Dried, Superhydrophobic, High Strength, Thermally Insulating, and Thermally Resilient Polybenzoxazine Aerogels. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2322-2333.	4.4	37
7	Polyurethane Aerogels Based on Cyclodextrins: High-Capacity Desiccants Regenerated at Room Temperature by Reducing the Relative Humidity of the Environment. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 34292-34304.	8.0	8
8	Experimental deconvolution of depressurization from capillary shrinkage during drying of silica wet-gels with SCF CO <sub>2</sub> why aerogels shrink?. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 662-680.	2.4	16
9	A Cobalt Sunrise: Thermites Based on LiClO <sub>4</sub> -Filled Co(0) Aerogels Prepared from Polymer-Cross-Linked Cobaltia Xerogel Powders. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22668-22676.	8.0	19
10	<i>K</i> -Index: A Descriptor, Predictor, and Correlator of Complex Nanomorphology to Other Material Properties. <i>ACS Nano</i> , 2019, 13, 3677-3690.	14.6	29
11	Light scattering and haze in TMOS-co-APTES silica aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 127-139.	2.4	21
12	Exceptionally High CO <sub>2</sub> Adsorption at 273 K by Microporous Carbons from Phenolic Aerogels: The Role of Heteroatoms in Comparison with Carbons from Polybenzoxazine and Other Organic Aerogels. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800333.	2.2	25
13	Sturdy, Monolithic SiC and Si <sub>3</sub> N <sub>4</sub> Aerogels from Compressed Polymer-Cross-Linked Silica Xerogel Powders. <i>Chemistry of Materials</i> , 2018, 30, 1635-1647.	6.7	59
14	Nanostructure-Dependent Marcus-Type Correlation of the Shape Recovery Rate and the Young's Modulus in Shape Memory Polymer Aerogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23321-23334.	8.0	33
15	Scalable, hydrophobic and highly-stretchable poly(isocyanurate-urethane) aerogels. <i>RSC Advances</i> , 2018, 8, 21214-21223.	3.6	26
16	Selective CO <sub>2</sub> Sequestration with Monolithic Bimodal Micro/Macroporous Carbon Aerogels Derived from Stepwise Pyrolytic Decomposition of Polyamide-Polyimide-Polyurea Random Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13520-13536.	8.0	48
17	Shape Memory Superelastic Poly(isocyanurate-urethane) Aerogels (PIR-PUR) for Deployable Panels and Biomimetic Applications. <i>Chemistry of Materials</i> , 2017, 29, 4461-4477.	6.7	56
18	Air-oxidation of phenolic resin aerogels: backbone reorganization, formation of ring-fused pyrylium cations, and the effect on microporous carbons with enhanced surface areas. <i>RSC Advances</i> , 2017, 7, 51104-51120.	3.6	25

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19	Economical synthesis of vanadia aerogels via epoxide-assisted gelation of VOCl <sub>3</sub> . Journal of Sol-Gel Science and Technology, 2016, 77, 244-256.	2.4	15
20	Reuseable Monolithic Nanoporous Graphite-Supported Nanocatalysts (Fe, Au, Pt, Pd, Ni, and Rh) from Pyrolysis and Galvanic Transmetalation of Ferrocene-Based Polyamide Aerogels. Chemistry of Materials, 2016, 28, 4867-4877.	6.7	33
21	Nanoporous Polyurea from a Triisocyanate and Boric Acid: A Paradigm of a General Reaction Pathway for Isocyanates and Mineral Acids. Chemistry of Materials, 2016, 28, 67-78.	6.7	34
22	Explosive versus Thermite Behavior in Iron(0) Aerogels Infiltrated with Perchlorates. Chemistry of Materials, 2015, 27, 8126-8137.	6.7	16
23	Synthesis and mechanical characterization of mechanically strong, polyurea-crosslinked, ordered mesoporous silica aerogels. Journal of Sol-Gel Science and Technology, 2015, 75, 98-123.	2.4	34
24	Polydicyclopentadiene aerogels from first- versus second-generation Grubbs's catalysts: a molecular versus a nanoscopic perspective. Journal of Sol-Gel Science and Technology, 2015, 75, 460-474.	2.4	22
25	Polybenzoxazine Aerogels. 2. Interpenetrating Networks with Iron Oxide and the Carbothermal Synthesis of Highly Porous Monolithic Pure Iron(0) Aerogels as Energetic Materials. Chemistry of Materials, 2014, 26, 1318-1331.	6.7	68
26	Polybenzoxazine Aerogels. 1. High-Yield Room-Temperature Acid-Catalyzed Synthesis of Robust Monoliths, Oxidative Aromatization, and Conversion to Microporous Carbons. Chemistry of Materials, 2014, 26, 1303-1317.	6.7	89
27	Polydicyclopentadiene aerogels grafted with PMMA: I. Molecular and interparticle crosslinking. Soft Matter, 2013, 9, 1516-1530.	2.7	43
28	Polydicyclopentadiene aerogels grafted with PMMA: II. Nanoscopic characterization and origin of macroscopic deformation. Soft Matter, 2013, 9, 1531-1539.	2.7	36
29	Robust monolithic multiscale nanoporous polyimides and conversion to isomorphous carbons. RSC Advances, 2013, 3, 26459.	3.6	43
30	One Pot Synthesis of Multifunctional Aramid Aerogels. Materials Research Society Symposia Proceedings, 2012, 1403, 126.	0.1	2
31	From Flexible to Hard Polyurethane Aerogels: The Effect of Molecular Functionality vs. Molecular Rigidity. Materials Research Society Symposia Proceedings, 2012, 1403, 114.	0.1	2
32	From "Green" Aerogels to Porous Graphite by Emulsion Gelation of Acrylonitrile. Chemistry of Materials, 2012, 24, 26-47.	6.7	49
33	Robust PEDOT films by covalent bonding to substrates using in tandem sol-gel, surface initiated free-radical and redox polymerization. Journal of Materials Chemistry, 2012, 22, 100-108.	6.7	23
34	Multifunctional porous aramids (aerogels) by efficient reaction of carboxylic acids and isocyanates. Journal of Materials Chemistry, 2011, 21, 11981.	6.7	84
35	Isocyanate-Derived Organic Aerogels: Polyureas, Polyimides, Polyamides. Materials Research Society Symposia Proceedings, 2011, 1306, 1.	0.1	10
36	The effect of compactness on the carbothermal conversion of interpenetrating metal oxide/resorcinol-formaldehyde nanoparticle networks to porous metals and carbides. Journal of Materials Chemistry, 2010, 20, 7456.	6.7	100

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37	Click Synthesis of Monolithic Silicon Carbide Aerogels from Polyacrylonitrile-Coated 3D Silica Networks. <i>Chemistry of Materials</i> , 2010, 22, 2790-2803.	6.7	167
38	One-step room-temperature synthesis of fibrous polyimide aerogels from anhydrides and isocyanates and conversion to isomorphous carbons. <i>Journal of Materials Chemistry</i> , 2010, 20, 9666.	6.7	134
39	Multifunctional Polyurea Aerogels from Isocyanates and Water. A Structure-Property Case Study. <i>Chemistry of Materials</i> , 2010, 22, 6692-6710.	6.7	163
40	Smelting in the age of nano: iron aerogels. <i>Journal of Materials Chemistry</i> , 2009, 19, 63-65.	6.7	91
41	Cross-Linking 3D Assemblies of Nanoparticles into Mechanically Strong Aerogels by Surface-Initiated Free-Radical Polymerization. <i>Chemistry of Materials</i> , 2008, 20, 5035-5046.	6.7	112
42	Immobilization of Pd Catalysts on Mesoporous Silica for Amine- and Copper-Free Sonogashira Coupling Reactions. <i>Synthetic Communications</i> , 2008, 38, 2285-2298.	2.1	14
43	Time-Efficient Acid-Catalyzed Synthesis of Resorcinol-Formaldehyde Aerogels. <i>Chemistry of Materials</i> , 2007, 19, 6138-6144.	6.7	164
44	Nanoengineered Silica-Polymer Composite Aerogels with No Need for Supercritical Fluid Drying. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 35, 99-105.	2.4	80
45	Multiple Substitution Effects and Three-Dimensional Nonlinear Free-Energy Relationships in the Electrochemical Reduction of the N,N'-Dibenzyl Viologen and the 4-Benzoyl-N-benzylpyridinium Cation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11228-11235.	2.6	4
46	Isocyanate-crosslinked silica aerogel monoliths: preparation and characterization. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 152-164.	3.1	221
47	Coupling of 3,8-Dibromo-1,10-phenanthroline with 3,5-Diethynylheptyloxybenzene: A Suzuki/Miyaura Versus a Sonogashira Perspective. <i>Synthetic Communications</i> , 2003, 33, 3317-3325.	2.1	3
48	Synthesis of Aerogel-Metal Cluster Composites by Gamma Radiolysis. <i>Materials Research Society Symposia Proceedings</i> , 2002, 740, 1.	0.1	0
49	Synthesis and Spectroscopic Properties of the Elusive 3a,9a-Diazaperylenium Dication. <i>Organic Letters</i> , 2002, 4, 4113-4116.	4.6	6
50	Nanoengineering Strong Silica Aerogels. <i>Nano Letters</i> , 2002, 2, 957-960.	9.1	478
51	Photolithographic Patterning and Doping of Silica Xerogel Films. <i>Journal of Sol-Gel Science and Technology</i> , 2002, 23, 235-245.	2.4	19
52	One-step synthesis and redox properties of dodecahydro-3a,9a-diazaperylene—the most easily oxidized p-phenylenediamine. <i>Chemical Communications</i> , 2001, , 1742-1743.	4.1	18
53	SYNTHESIS AND HYDROLYTIC STABILITY OF TERT-BUTOXYDIMETHYLSILYL ENOL ETHERS. <i>Synthetic Communications</i> , 2001, 31, 2379-2389.	2.1	3
54	A facile synthesis of 2,7-diazapyrene. <i>Journal of Heterocyclic Chemistry</i> , 2000, 37, 1665-1667.	2.6	29

#	ARTICLE	IF	CITATIONS
55	A Three-Dimensional Energy Surface for the Conformational Inversion of Cyclohexane. Journal of Chemical Education, 1997, 74, 813.	2.3	34