

Thierry Woignier

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,939
citations

186265
28
h-index

161849
54
g-index

61
all docs

61
docs citations

61
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and self-similarity of silica aerogels. Physical Review B, 1988, 37, 6500-6503.	3.2	412
2	Brillouin-scattering measurements of phonon-fracton crossover in silica aerogels. Physical Review Letters, 1987, 58, 128-131.	7.8	199
3	Different kinds of structure in aerogels: relationships with the mechanical properties. Journal of Non-Crystalline Solids, 1998, 241, 45-52.	3.1	184
4	Acoustic properties and potential applications of silica aerogels. Journal of Non-Crystalline Solids, 1995, 186, 244-255.	3.1	135
5	Mechanical strength of silica aerogels. Journal of Non-Crystalline Solids, 1988, 100, 404-408.	3.1	121
6	Observation of Fractons in Silica Aerogels. Europhysics Letters, 1988, 6, 245-250.	2.0	109
7	Glasses from aerogels. Journal of Materials Science, 1990, 25, 3118-3126.	3.7	104
8	Organic carbon stabilization in the fractal pore structure of Andosols. Geoderma, 2010, 159, 182-188.	5.1	84
9	Different kinds of fractal structures in silica aerogels. Journal of Non-Crystalline Solids, 1990, 121, 198-201.	3.1	80
10	Skeletal density of silica aerogels. Journal of Non-Crystalline Solids, 1987, 93, 17-21.	3.1	78
11	Comparison between flexural and uniaxial compression tests to measure the elastic modulus of silica aerogel. Journal of Non-Crystalline Solids, 2008, 354, 4556-4561.	3.1	72
12	Plastic behaviour of aerogels under isostatic pressure. Journal of Non-Crystalline Solids, 1995, 186, 321-327.	3.1	71
13	Mechanical Properties and Brittle Behavior of Silica Aerogels. Gels, 2015, 1, 256-275.	4.5	71
14	Biot's theory of acoustic propagation in porous media applied to aerogels and alcogels. Journal of Non-Crystalline Solids, 1998, 225, 287-292.	3.1	67
15	Permeability measurement in composite aerogels: application to nuclear waste storage. Journal of Non-Crystalline Solids, 2001, 285, 323-327.	3.1	62
16	Analysis of the elastic behaviour of silica aerogels taken as a percolating system. Journal De Physique, 1988, 49, 289-293.	1.8	60
17	Elastic properties of silica aerogels. Journal of Non-Crystalline Solids, 1987, 95-96, 1197-1202.	3.1	54
18	A SAXS study of silica aerogels. Journal of Non-Crystalline Solids, 1986, 86, 394-406.	3.1	53

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19	Stress in aerogel during depressurization of autoclave: II. Silica gels. <i>Journal of Sol-Gel Science and Technology</i> , 1994, 3, 141-150.	2.4	53
20	Evolution of mechanical properties during the alcogel-aerogel-glass process. <i>Journal of Non-Crystalline Solids</i> , 1992, 147-148, 672-680.	3.1	51
21	Fractal structure of base catalyzed and densified silica aerogels. <i>Journal of Non-Crystalline Solids</i> , 1988, 106, 161-165.	3.1	47
22	Two fractal structures in aerogel. <i>Journal of Non-Crystalline Solids</i> , 2001, 285, 175-180.	3.1	47
23	Determination of soil content in chlordecone (organochlorine pesticide) using near infrared reflectance spectroscopy (NIRS). <i>Environmental Pollution</i> , 2009, 157, 3120-3125.	7.5	43
24	Chlordecone retention in the fractal structure of volcanic clay. <i>Journal of Hazardous Materials</i> , 2012, 241-242, 224-230.	12.4	42
25	Fractal structure in natural gels: effect on carbon sequestration in volcanic soils. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 48, 231-238.	2.4	41
26	Natural Chlordecone Degradation Revealed by Numerous Transformation Products Characterized in Key French West Indies Environmental Compartments. <i>Environmental Science & Technology</i> , 2019, 53, 6133-6143.	10.0	32
27	Very large-scale structures in sintered silica aerogels as evidenced by atomic force microscopy and ultra-small angle X-ray scattering experiments. <i>Journal of Non-Crystalline Solids</i> , 2001, 285, 148-153.	3.1	31
28	Mechanical Properties of Gel-Derived Materials. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 163-169.	2.4	29
29	High fidelity of sea turtles to their foraging grounds revealed by satellite tracking and capture-mark-recapture: New insights for the establishment of key marine conservation areas. <i>Biological Conservation</i> , 2020, 250, 108742.	4.1	29
30	Gas and liquid permeability in nano composites gels: Comparison of Knudsen and Klinkenberg correction factors. <i>Microporous and Mesoporous Materials</i> , 2014, 200, 79-85.	4.4	28
31	Nuclear Waste Storage in Gel-Derived Materials. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 833-837.	2.4	27
32	Supercritical Drying Applied to Natural "Gels" Allophanic Soils. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 36, 61-68.	2.4	26
33	Fractal Structure in Silica and Composites Aerogels. <i>Gels</i> , 2021, 7, 1.	4.5	26
34	Linking current river pollution to historical pesticide use: Insights for territorial management?. <i>Science of the Total Environment</i> , 2017, 574, 1232-1242.	8.0	25
35	Connecting paths between juvenile and adult habitats in the Atlantic green turtle using genetics and satellite tracking. <i>Ecology and Evolution</i> , 2018, 8, 12790-12802.	1.9	25
36	Soil microstructure and organic matter: Keys for chlordecone sequestration. <i>Journal of Hazardous Materials</i> , 2013, 262, 357-364.	12.4	23

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37	Numerical Study of Pore Sizes Distribution in Gels. Journal of Sol-Gel Science and Technology, 2003, 26, 671-675.	2.4	22
38	Mechanical behaviour of nano composite aerogels. Journal of Sol-Gel Science and Technology, 2011, 58, 385-393.	2.4	19
39	Sequestration of chlordecone in the porous structure of an andosol and effects of added organic matter: an alternative to decontamination. European Journal of Soil Science, 2012, 63, 717-723.	3.9	19
40	Techniques for characterizing the mechanical properties of aerogels. Journal of Sol-Gel Science and Technology, 2020, 93, 6-27.	2.4	19
41	The sintering of silica aerogels studied by thermoporometry. Journal of Sol-Gel Science and Technology, 1994, 2, 277-281.	2.4	18
42	Slow crack growth in aerogels. Journal of Non-Crystalline Solids, 1995, 188, 19-26.	3.1	18
43	Field validation of chlordecone soil sequestration by organic matter addition. Journal of Soils and Sediments, 2014, 14, 23-33.	3.0	18
44	Pore Structure Simulation of Gels with a Binary Monomer Size Distribution. Journal of Sol-Gel Science and Technology, 2005, 34, 273-280.	2.4	17
45	Stress intensity factor in silica alcogels and aerogels. Journal of Non-Crystalline Solids, 2000, 265, 29-35.	3.1	15
46	Nanostructural damage associated with isostatic compression of silica aerogels. Journal of Non-Crystalline Solids, 2004, 333, 68-73.	3.1	15
47	Compost addition reduces porosity and chlordecone transfer in soil microstructure. Environmental Science and Pollution Research, 2016, 23, 98-108.	5.3	15
48	Densification and Strengthening of Aerogels by Sintering Heat Treatments or Plastic Compression. Gels, 2018, 4, 12.	4.5	15
49	Application of the DLCA model to "natural" gels: The allophanic soils. Journal of Sol-Gel Science and Technology, 2006, 40, 201-207.	2.4	14
50	Aerogels Materials as Space Debris Collectors. Advances in Materials Science and Engineering, 2013, 1-6.	1.8	12
51	Gas slippage in fractal porous material. Journal of Natural Gas Science and Engineering, 2018, 57, 11-20.	4.4	11
52	Mechanical Properties of Aerogels : Brittle or Plastic Solids?. Key Engineering Materials, 2008, 391, 27-44.	0.4	10
53	Nanoporous clay with carbon sink and pesticide trapping properties. European Physical Journal: Special Topics, 2015, 224, 1945-1962.	2.6	9
54	The pesticide chlordecone is trapped in the tortuous mesoporosity of allophane clays. Environmental Science and Pollution Research, 2018, 25, 21350-21361.	5.3	8

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55	From Nanocomposite Aerogels to Glass Ceramics for Nuclear Wastes Containment. Solid State Phenomena, 0, 172-174, 791-796.	0.3	6
56	Structural Effect on the Plastic Behavior in Highly Porous Glasses. Key Engineering Materials, 0, 423, 15-24.	0.4	4
57	Fine scale geographic residence and annual primary production drive body condition of wild immature green turtles (<i>Chelonia mydas</i>) in Martinique Island (Lesser Antilles). Biology Open, 2019, 8, .	1.2	4
58	Sintering of aerogels for glass synthesis. Journal of Sol-Gel Science and Technology, 2019, 90, 76-86.	2.4	4
59	Physical limitation of pesticides (chlordecone) decontamination in volcanic soils: fractal approach and numerical simulation. Environmental Science and Pollution Research, 2020, 27, 40980-40991.	5.3	4
60	Porous glasses from aerogels: from organic liquid to mineral materials. Journal of Sol-Gel Science and Technology, 2022, 102, 589-595.	2.4	1