Thierry Woignier

List of Publications by Year
in descending order

60	2,939	186265 28	161849 54
papers	citations	h-index	g-index

61	61	61	1746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Porous glasses from aerogels: from organic liquid to mineral materials. Journal of Sol-Gel Science and Technology, 2022, 102, 589-595.	2.4	1
2	Fractal Structure in Silica and Composites Aerogels. Gels, 2021, 7, 1.	4.5	26
3	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
4	Techniques for characterizing the mechanical properties of aerogels. Journal of Sol-Gel Science and Technology, 2020, 93, 6-27.	2.4	19
5	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. Biological Conservation, 2020, 250, 108742.	4.1	29
6	Natural Chlordecone Degradation Revealed by Numerous Transformation Products Characterized in Key French West Indies Environmental Compartments. Environmental Science & Technology, 2019, 53, 6133-6143.	10.0	32
7	Fine scale geographic residence and annual primary production drive body condition of wild immature green turtles (Chelonia mydas) in Martinique Island (Lesser Antilles). Biology Open, 2019, 8, .	1.2	4
8	Sintering of aerogels for glass synthesis. Journal of Sol-Gel Science and Technology, 2019, 90, 76-86.	2.4	4
9	The pesticide chlordecone is trapped in the tortuous mesoporosity of allophane clays. Environmental Science and Pollution Research, 2018, 25, 21350-21361.	5.3	8
10	Connecting paths between juvenile and adult habitats in the Atlantic green turtle using genetics and satellite tracking. Ecology and Evolution, 2018, 8, 12790-12802.	1.9	25
11	Densification and Strengthening of Aerogels by Sintering Heat Treatments or Plastic Compression. Gels, 2018, 4, 12.	4.5	15
12	Gas slippage in fractal porous material. Journal of Natural Gas Science and Engineering, 2018, 57, 11-20.	4.4	11
13	Linking current river pollution to historical pesticide use: Insights for territorial management?. Science of the Total Environment, 2017, 574, 1232-1242.	8.0	25
14	Compost addition reduces porosity and chlordecone transfer in soil microstructure. Environmental Science and Pollution Research, 2016, 23, 98-108.	5.3	15
15	Nanoporous clay with carbon sink and pesticide trapping properties. European Physical Journal: Special Topics, 2015, 224, 1945-1962.	2.6	9
16	Mechanical Properties and Brittle Behavior of Silica Aerogels. Gels, 2015, 1, 256-275.	4.5	71
17	Gas and liquid permeability in nano composites gels: Comparison of Knudsen and Klinkenberg correction factors. Microporous and Mesoporous Materials, 2014, 200, 79-85.	4.4	28
18	Field validation of chlordecone soil sequestration by organic matter addition. Journal of Soils and Sediments, 2014, 14, 23-33.	3.0	18

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19	Soil microstructure and organic matter: Keys for chlordecone sequestration. Journal of Hazardous Materials, 2013, 262, 357-364.	12.4	23
20	Aerogels Materials as Space Debris Collectors. Advances in Materials Science and Engineering, 2013, 2013, 1-6.	1.8	12
21	Chlordecone retention in the fractal structure of volcanic clay. Journal of Hazardous Materials, 2012, 241-242, 224-230.	12.4	42
22	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
23	Mechanical behaviour of nano composite aerogels. Journal of Sol-Gel Science and Technology, 2011, 58, 385-393.	2.4	19
24	Organic carbon stabilization in the fractal pore structure of Andosols. Geoderma, 2010, 159, 182-188.	5.1	84
25	Determination of soil content in chlordecone (organochlorine pesticide) using near infrared reflectance spectroscopy (NIRS). Environmental Pollution, 2009, 157, 3120-3125.	7.5	43
26	Fractal structure in natural gels: effect on carbon sequestration in volcanic soils. Journal of Sol-Gel Science and Technology, 2008, 48, 231-238.	2.4	41
27	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
28	Mechanical Properties of Aerogels : Brittle or Plastic Solids?. Key Engineering Materials, 2008, 391, 27-44.	0.4	10
29	Application of the DLCA model to â€œnaturalâ€•gels: The allophanic soils. Journal of Sol-Gel Science and Technology, 2006, 40, 201-207.	2.4	14
30	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
31	Supercritical Drying Applied to Natural â€œGelsâ€• Allophanic Soils. Journal of Sol-Gel Science and Technology, 2005, 36, 61-68.	2.4	26
32	Nanostructural damage associated with isostatic compression of silica aerogels. Journal of Non-Crystalline Solids, 2004, 333, 68-73.	3.1	15
33	Numerical Study of Pore Sizes Distribution in Gels. Journal of Sol-Gel Science and Technology, 2003, 26, 671-675.	2.4	22
34	Two fractal structures in aerogel. Journal of Non-Crystalline Solids, 2001, 285, 175-180.	3.1	47
35	Very large-scale structures in sintered silica aerogels as evidenced by atomic force microscopy and ultra-small angle X-ray scattering experiments. Journal of Non-Crystalline Solids, 2001, 285, 148-153.	3.1	31
36	Permeability measurement in composite aerogels: application to nuclear waste storage. Journal of Non-Crystalline Solids, 2001, 285, 323-327.	3.1	62

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37	Mechanical Properties of Gel-Derived Materials. Journal of Sol-Gel Science and Technology, 2000, 19, 163-169.	2.4	29
38	Nuclear Waste Storage in Gel-Derived Materials. Journal of Sol-Gel Science and Technology, 2000, 19, 833-837.	2.4	27
39	Stress intensity factor in silica alcogels and aerogels. Journal of Non-Crystalline Solids, 2000, 265, 29-35.	3.1	15
40	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
41	Different kinds of structure in aerogels: relationships with the mechanical properties. Journal of Non-Crystalline Solids, 1998, 241, 45-52.	3.1	184
42	Slow crack growth in aerogels. Journal of Non-Crystalline Solids, 1995, 188, 19-26.	3.1	18
43	Acoustic properties and potential applications of silica aerogels. Journal of Non-Crystalline Solids, 1995, 186, 244-255.	3.1	135
44	Plastic behaviour of aerogels under isostatic pressure. Journal of Non-Crystalline Solids, 1995, 186, 321-327.	3.1	71
45	The sintering of silica aerogels studied by thermoporometry. Journal of Sol-Gel Science and Technology, 1994, 2, 277-281.	2.4	18
46	Stress in aerogel during depressurization of autoclave: II. Silica gels. Journal of Sol-Gel Science and Technology, 1994, 3, 141-150.	2.4	53
47	Evolution of mechanical properties during the alcogel-aerogel-glass process. Journal of Non-Crystalline Solids, 1992, 147-148, 672-680.	3.1	51
48	Glasses from aerogels. Journal of Materials Science, 1990, 25, 3118-3126.	3.7	104
49	Different kinds of fractal structures in silica aerogels. Journal of Non-Crystalline Solids, 1990, 121, 198-201.	3.1	80
50	Fractal structure of base catalyzed and densified silica aerogels. Journal of Non-Crystalline Solids, 1988, 106, 161-165.	3.1	47
51	Mechanical strength of silica aerogels. Journal of Non-Crystalline Solids, 1988, 100, 404-408.	3.1	121
52	Structure and self-similarity of silica aerogels. Physical Review B, 1988, 37, 6500-6503.	3.2	412
53	Observation of Fractons in Silica Aerogels. Europhysics Letters, 1988, 6, 245-250.	2.0	109
54	Analysis of the elastic behaviour of silica aerogels taken as a percolating system. Journal De Physique, 1988, 49, 289-293.	1.8	60

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55	Brillouin-scattering measurements of phonon-fracton crossover in silica aerogels. Physical Review Letters, 1987, 58, 128-131.	7.8	199
56	Skeletal density of silica aerogels. Journal of Non-Crystalline Solids, 1987, 93, 17-21.	3.1	78
57	Elastic properties of silica aerogels. Journal of Non-Crystalline Solids, 1987, 95-96, 1197-1202.	3.1	54
58	A SAXS study of silica aerogels. Journal of Non-Crystalline Solids, 1986, 86, 394-406.	3.1	53
59	Structural Effect on the Plastic Behavior in Highly Porous Glasses. Key Engineering Materials, 0, 423, 15-24.	0.4	4
60	From Nanocomposite Aerogels to Glass Ceramics for Nuclear Wastes Containment. Solid State Phenomena, 0, 172-174, 791-796.	0.3	6