

Luisa Durães

List of Publications by Year in descending order

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90
papers

4,578
citations

159585

30
h-index

102487

66
g-index

91
all docs

91
docs citations

91
times ranked

4470
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Kevlar® pulp-reinforced alumina-silica aerogel composites for thermal insulation at high temperature. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 101, 87-102.	2.4	7
2	Development of Passive Fire Protection Mortars. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2093.	2.5	4
3	A New Schiff Base Organically Modified Silica Aerogel-Like Material for Metal Ion Adsorption with Ni Selectivity. <i>Adsorption Science and Technology</i> , 2022, 2022, .	3.2	4
4	Textile waste-reinforced cotton-silica aerogel composites for moisture regulation and thermal/acoustic barrier. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 102, 574-588.	2.4	7
5	Triantennary GalNAc-Functionalized Multi-Responsive Mesoporous Silica Nanoparticles for Drug Delivery Targeted at Asialoglycoprotein Receptor. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6243.	4.1	7
6	Silica-Based Aerogel Composites Reinforced with Reticulated Polyurethane Foams: Thermal and Mechanical Properties. <i>Gels</i> , 2022, 8, 392.	4.5	7
7	Thermal Conductivity of Nanoporous Materials: Where Is the Limit?. <i>Polymers</i> , 2022, 14, 2556.	4.5	15
8	Validation of different numerical models with benchmark experiments for modelling microencapsulated-PCM-based applications for buildings. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106565.	4.9	38
9	Intermolecular interactions in composites of organically-modified silica aerogels and polymers: A molecular simulation study. <i>Microporous and Mesoporous Materials</i> , 2021, 314, 110838.	4.4	10
10	Adverse outcome pathway in immunotoxicity of perfluoroalkyls. <i>Current Opinion in Toxicology</i> , 2021, 25, 23-29.	5.0	13
11	Ligands as copper and nickel ionophores: Applications and implications on wastewater treatment. <i>Advances in Colloid and Interface Science</i> , 2021, 289, 102364.	14.7	3
12	Silica-based aerogel composites reinforced with different aramid fibres for thermal insulation in Space environments. <i>Journal of Materials Science</i> , 2021, 56, 13604-13619.	3.7	25
13	Progress in silica aerogel-containing materials for buildings' thermal insulation. <i>Construction and Building Materials</i> , 2021, 286, 122815.	7.2	92
14	Influence of 1D and 2D carbon nanostructures in silica-based aerogels. <i>Carbon</i> , 2021, 180, 146-162.	10.3	19
15	Insights on toxicity, safe handling and disposal of silica aerogels and amorphous nanoparticles. <i>Environmental Science: Nano</i> , 2021, 8, 1177-1195.	4.3	23
16	Can movable PCM-filled TES units be used to improve the performance of PV panels? Overview and experimental case-study. <i>Energy and Buildings</i> , 2020, 210, 109743.	6.7	19
17	Reinforcement Strategies of Silica Aerogels for Thermal Insulation Applications. <i>Proceedings (mdpi)</i> , 2020, 57, 2.	0.2	0
18	A study on the influence of prosthetic interface material in transtibial amputees' gait. <i>Bio-Medical Materials and Engineering</i> , 2020, 31, 211-223.	0.6	1

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19	Supercritically dried superparamagnetic mesoporous silica nanoparticles for cancer theranostics. <i>Materials Science and Engineering C</i> , 2020, 115, 111124.	7.3	28
20	Optimization of Polyamide Pulp-Reinforced Silica Aerogel Composites for Thermal Protection Systems. <i>Polymers</i> , 2020, 12, 1278.	4.5	18
21	An overview on alumina-silica-based aerogels. <i>Advances in Colloid and Interface Science</i> , 2020, 282, 102189.	14.7	50
22	Silica Aerogels/Xerogels Modified with Nitrogen-Containing Groups for Heavy Metal Adsorption. <i>Molecules</i> , 2020, 25, 2788.	3.8	19
23	Amine Modification of Silica Aerogels/Xerogels for Removal of Relevant Environmental Pollutants. <i>Molecules</i> , 2019, 24, 3701.	3.8	24
24	Synthesis of silica nanoparticles to enhance the fire resistance of cement mortars. <i>Fire Research</i> , 2019, 3, .	0.1	2
25	Overview of Multiscale Molecular Modeling and Simulation of Silica Aerogels. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18905-18929.	3.7	15
26	An Opinion Paper on Aerogels for Biomedical and Environmental Applications. <i>Molecules</i> , 2019, 24, 1815.	3.8	115
27	Biocompatible and high-magnetically responsive iron oxide nanoparticles for protein loading. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 134, 273-285.	4.0	12
28	Polysilsesquioxane-based silica aerogel monoliths with embedded CNTs. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109575.	4.4	26
29	Assessment of heavy metal pollution from anthropogenic activities and remediation strategies: A review. <i>Journal of Environmental Management</i> , 2019, 246, 101-118.	7.8	568
30	Influence of Structure-Directing Additives on the Properties of Poly(methylsilsesquioxane) Aerogel-Like Materials. <i>Gels</i> , 2019, 5, 6.	4.5	11
31	Effect of different silylation agents on the properties of ambient pressure dried and supercritically dried vinyl-modified silica aerogels. <i>Journal of Supercritical Fluids</i> , 2019, 147, 81-89.	3.2	62
32	Organically-modified silica aerogels: A density functional theory study. <i>Journal of Supercritical Fluids</i> , 2019, 147, 138-148.	3.2	12
33	Silica aerogel composites with embedded fibres: a review on their preparation, properties and applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22768-22802.	10.3	208
34	Efficient adsorption of multiple heavy metals with tailored silica aerogel-like materials. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 529-541.	2.2	41
35	Advances in carbon nanostructureâ€silica aerogel composites: a review. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1340-1369.	10.3	149
36	Synthesis, characterization and sorption studies of aromatic compounds by hydrogels of chitosan blended with Î²-cyclodextrin- and PVA-functionalized pectin. <i>RSC Advances</i> , 2018, 8, 14609-14622.	3.6	34

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37	Effect of different types of surfactants on the microstructure of methyltrimethoxysilane-derived silica aerogels: A combined experimental and computational approach. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 64-76.	9.4	44
38	A reconsideration on the definition of the term aerogel based on current drying trends. <i>Microporous and Mesoporous Materials</i> , 2018, 258, 211-216.	4.4	112
39	Facile preparation of ambient pressure dried aerogel-like monoliths with reduced shrinkage based on vinyl-modified silica networks. <i>Ceramics International</i> , 2018, 44, 17453-17458.	4.8	24
40	Development of a biocompatible magnetic nanofluid by incorporating SPIONs in Amazonian oils. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 172, 135-146.	3.9	18
41	Efficient simultaneous removal of petroleum hydrocarbon pollutants by a hydrophobic silica aerogel-like material. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 550-560.	4.7	27
42	Functionalized silica xerogels for adsorption of heavy metals from groundwater and soils. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 400-408.	2.4	26
43	Towards improved adsorption of phenolic compounds by surface chemistry tailoring of silica aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 409-421.	2.4	9
44	Exploring the Versatile Surface Chemistry of Silica Aerogels for Multipurpose Application. <i>MRS Advances</i> , 2017, 2, 3511-3519.	0.9	17
45	Superparamagnetic core-shell nanocomplexes doped with Yb 3+ : Er 3+ /Ho 3+ rare-earths for upconversion fluorescence. <i>Materials and Design</i> , 2017, 130, 263-274.	7.0	11
46	Spectroscopic characterization of silica aerogels prepared using several precursors " effect on the formation of molecular clusters. <i>New Journal of Chemistry</i> , 2017, 41, 6742-6759.	2.8	25
47	Multifunctional nanospheres for co-delivery of methotrexate and mild hyperthermia to colon cancer cells. <i>Materials Science and Engineering C</i> , 2017, 75, 1420-1426.	7.3	28
48	Adsorption of phenol on silica aerogels using a stirred tank and a fixed bed column. <i>Ciªncia & Tecnologia Dos Materiais</i> , 2017, 29, e229-e233.	0.5	6
49	Friction of prosthetic interfaces used by transtibial amputees. <i>Biotribology</i> , 2016, 6, 36-41.	1.9	8
50	A new trend for development of mechanically robust hybrid silica aerogels. <i>Materials Letters</i> , 2016, 179, 206-209.	2.6	19
51	High Antimicrobial Activity and Low Human Cell Cytotoxicity of Core"Shell Magnetic Nanoparticles Functionalized with an Antimicrobial Peptide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11366-11378.	8.0	56
52	Novel flexible, hybrid aerogels with vinyl- and methyltrimethoxysilane in the underlying silica structure. <i>Journal of Materials Science</i> , 2016, 51, 6781-6792.	3.7	48
53	Effect of supplementary cementitious materials on autogenous shrinkage of ultra-high performance concrete. <i>Construction and Building Materials</i> , 2016, 127, 43-48.	7.2	187
54	Flexible acrylate-grafted silica aerogels for insulation purposes: comparison of reinforcement strategies. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 306-317.	2.4	16

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55	Heavy metals in Iberian soils: Removal by current adsorbents/amendments and prospective for aerogels. <i>Advances in Colloid and Interface Science</i> , 2016, 237, 28-42.	14.7	70
56	Synthesis and biomedical applications of aerogels: Possibilities and challenges. <i>Advances in Colloid and Interface Science</i> , 2016, 236, 1-27.	14.7	270
57	Design of multifunctional magnetic hybrid silica aerogels with improved properties. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 227-237.	4.4	16
58	Truncated tetragonal bipyramidal anatase nanocrystals formed without use of capping agents from the supercritical drying of a TiO ₂ sol. <i>CrystEngComm</i> , 2016, 18, 164-176.	2.6	13
59	Nanocrystalline ZnO Thin Films – Influence of Sol-gel Conditions on the Underlying Chemistry and Film Microstructure and Transparency. <i>Materials Today: Proceedings</i> , 2015, 2, 49-56.	1.8	6
60	Mechanical and structural characterization of tibial prosthetic interfaces before and after aging under simulated service conditions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 43, 78-90.	3.1	4
61	Controlled phase formation of nanocrystalline iron oxides/hydroxides in solution – An insight on the phase transformation mechanisms. <i>Materials Chemistry and Physics</i> , 2015, 163, 88-98.	4.0	22
62	Effect of additives on the properties of silica based aerogels synthesized from methyltrimethoxysilane (MTMS). <i>Journal of Supercritical Fluids</i> , 2015, 106, 85-92.	3.2	39
63	Silica-based aerogels as adsorbents for phenol-derivative compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 260-269.	4.7	60
64	Development of Mechanically Strong Ambient Pressure Dried Silica Aerogels with Optimized Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7689-7703.	3.1	79
65	Synthesis of mechanically reinforced silica aerogels via surface-initiated reversible addition-fragmentation chain transfer (RAFT) polymerization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1594-1600.	10.3	85
66	The effect of nanosilica addition on flowability, strength and transport properties of ultra high performance concrete. <i>Materials & Design</i> , 2014, 59, 1-9.	5.1	318
67	An overview on silica aerogels synthesis and different mechanical reinforcing strategies. <i>Journal of Non-Crystalline Solids</i> , 2014, 385, 55-74.	3.1	555
68	Synthesis of lightweight polymer-reinforced silica aerogels with improved mechanical and thermal insulation properties for space applications. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 116-129.	4.4	115
69	Poly(ethylene glycol)-block-poly(4-vinyl pyridine) as a versatile block copolymer to prepare nanoaggregates of superparamagnetic iron oxide nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1565.	5.8	22
70	Novel nanoaggregates with peripheric superparamagnetic iron oxide nanoparticles and organic cores through self-assembly of tailor-made block copolymers. <i>RSC Advances</i> , 2014, 4, 24428-24432.	3.6	8
71	Silica based aerogel-like materials obtained by quick microwave drying. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013, 44, 380-385.	0.9	18
72	Effect of the Drying Conditions on the Microstructure of Silica Based Xerogels and Aerogels. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6828-6834.	0.9	56

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73	Sol-gel synthesis and washing of amorphous γ - $\text{FeO}(\text{OH})$ xerogels. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012, 43, 427-434.	0.9	4
74	Application of hydrophobic silica based aerogels and xerogels for removal of toxic organic compounds from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2012, 380, 134-140.	9.4	109
75	MgAl_2O_4 spinel synthesis by combustion and detonation reactions: A thermochemical evaluation. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3161-3170.	5.7	24
76	Study of the suitability of silica based xerogels synthesized using ethyltrimethoxysilane and/or methyltrimethoxysilane precursors for aerospace applications. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 151-160.	2.4	47
77	1D AND 2D MODELING AND SIMULATION OF RADIAL COMBUSTION PROPAGATION ON $\text{Fe}_2\text{O}_3/\text{Al}$ THERMITE SYSTEMS. <i>Computational Thermal Sciences</i> , 2012, 4, 137-149.	0.9	4
78	Characterization of iron(III) oxide/hydroxide nanostructured materials produced by sol-gel technology based on the $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} \cdot \text{C}_2\text{H}_5\text{OH} \cdot \text{CH}_3\text{CH}_2\text{O}$ system. <i>Materials Chemistry and Physics</i> , 2011, 130, 548-560.	4.0	15
79	Sol-gel synthesis of iron(III) oxyhydroxide nanostructured monoliths using $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}/\text{CH}_3\text{CH}_2\text{OH}/\text{NH}_4\text{OH}$ ternary system. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 678-684.	4.0	14
80	RADIAL COMBUSTION DYNAMICS IN $\text{Fe}_2\text{O}_3 \cdot \text{Al}$ THERMITE: VARIABILITY OF THE FLAME PROPAGATION PROFILES. , 2009, , .		1
81	Simulation of $\text{Fe}_2\text{O}_3/\text{Al}$ combustion: Sensitivity analysis. <i>Chemical Engineering Science</i> , 2007, 62, 5078-5083.	3.8	9
82	Fe_2O_3 /aluminum thermite reaction intermediate and final products characterization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 465, 199-210.	5.6	110
83	Modelling and simulation of $\text{Fe}_2\text{O}_3/\text{Aluminum}$ thermite combustion: Experimental validation. <i>Computer Aided Chemical Engineering</i> , 2006, , 365-370.	0.5	15
84	Radial Combustion Propagation in Iron(III) Oxide/Aluminum Thermite Mixtures. <i>Propellants, Explosives, Pyrotechnics</i> , 2006, 31, 42-49.	1.6	31
85	Thermal Behavior of $\text{Fe}_2\text{O}_3/\text{Al}$ Thermite Mixtures in Air and Vacuum Environments. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
86	Phase investigation of as-prepared iron oxide/hydroxide produced by sol-gel synthesis. <i>Materials Letters</i> , 2005, 59, 859-863.	2.6	50
87	Iron Oxide/Aluminum Fast Thermite Reaction. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
88	Reaction path of energetic materials using THOR code. , 1998, , .		0
89	New equation of state for the detonation products of explosives. <i>AIP Conference Proceedings</i> , 1996, , .	0.4	3
90	Tailored Silica Based Xerogels and Aerogels for Insulation in Space Environments. <i>Advances in Science and Technology</i> , 0, , .	0.2	15