

Alexandra Fidalgo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

2,042
citations

23
h-index

44
g-index

66
ext. papers

2,341
ext. citations

5.8
avg. IF

4.93
L-index

#	Paper	IF	Citations
59	The sol-gel route to advanced silica-based materials and recent applications. <i>Chemical Reviews</i> , 2013 , 113, 6592-620	68.1	413
58	The defect structure of sol-gel-derived silica/polytetrahydrofuran hybrid films by FTIR. <i>Journal of Non-Crystalline Solids</i> , 2001 , 283, 144-154	3.9	228
57	Role of the Alkylalkoxide Precursor on the Structure and Catalytic Properties of Hybrid Sol-gel Catalysts. <i>Chemistry of Materials</i> , 2005 , 17, 6686-6694	9.6	126
56	Chemical tailoring of porous silica xerogels: local structure by vibrational spectroscopy. <i>Chemistry - A European Journal</i> , 2004 , 10, 392-8	4.8	111
55	Eco-Friendly Extraction of Pectin and Essential Oils from Orange and Lemon Peels. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2243-2251	8.3	74
54	Chemical Control of Highly Porous Silica Xerogels: Physical Properties and Morphology. <i>Chemistry of Materials</i> , 2003 , 15, 2186-2192	9.6	71
53	Sol-gel encapsulation: an efficient and versatile immobilization technique for cutinase in non-aqueous media. <i>Journal of Biotechnology</i> , 2006 , 121, 23-33	3.7	67
52	Correlation between physical properties and structure of silica xerogels. <i>Journal of Non-Crystalline Solids</i> , 2004 , 347, 128-137	3.9	64
51	Hybrid Silica/Polymer Aerogels Dried at Ambient Pressure. <i>Chemistry of Materials</i> , 2007 , 19, 2603-2609	9.6	54
50	Lycopene: Emerging Production Methods and Applications of a Valued Carotenoid. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 643-650	8.3	51
49	Extraction, benefits and valorization of olive polyphenols. <i>European Journal of Lipid Science and Technology</i> , 2016 , 118, 503-511	3	50
48	Polymers of Limonene Oxide and Carbon Dioxide: Polycarbonates of the Solar Economy. <i>ACS Omega</i> , 2018 , 3, 4884-4890	3.9	48
47	Real-Scale Integral Valorization of Waste Orange Peel via Hydrodynamic Cavitation. <i>Processes</i> , 2019 , 7, 581	2.9	36
46	SiliaCat: A Versatile Catalyst Series for Synthetic Organic Chemistry. <i>Organic Process Research and Development</i> , 2015 , 19, 755-768	3.9	35
45	High-Quality Essential Oils Extracted by an Eco-Friendly Process from Different Citrus Fruits and Fruit Regions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5578-5587	8.3	29
44	Interactions of L-alanine with alumina as studied by vibrational spectroscopy. <i>Langmuir</i> , 2007 , 23, 10164-10175	4.7	29
43	Enhancing selectivity in oxidation catalysis with sol-gel nanocomposites. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2389-92	3.9	29

42	Dihydroxyacetone: An Updated Insight into an Important Bioproduct. <i>ChemistryOpen</i> , 2018 , 7, 233-236	2.3	28
41	The influence of the wet gels processing on the structure and properties of silica xerogels. <i>Microporous and Mesoporous Materials</i> , 2005 , 84, 229-235	5.3	27
40	The Structure of Hybrid Gels by Drift and NMR Spectroscopies. <i>Journal of Sol-Gel Science and Technology</i> , 2000 , 19, 403-407	2.3	27
39	Betainin: A Bioeconomy Insight into a Valued Betacyanin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2860-2865	8.3	24
38	The structural origins of superior performance in sol-gel catalysts. <i>Soft Matter</i> , 2005 , 1, 231-237	3.6	24
37	Vanillin: The Case for Greener Production Driven by Sustainability Megatrend. <i>ChemistryOpen</i> , 2019 , 8, 660-667	2.3	23
36	Flexible hybrid aerogels prepared under subcritical conditions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12044	13	23
35	Controlling the Degree of Esterification of Citrus Pectin for Demanding Applications by Selection of the Source. <i>ACS Omega</i> , 2017 , 2, 7991-7995	3.9	22
34	Wet sol-gel silica matrices as delivery devices for phenytoin. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 49, 320-328	2.3	18
33	Nanostructured silica/polymer subcritical aerogels. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2195		17
32	Herbicides based on pelargonic acid: Herbicides of the bioeconomy. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 1476-1482	5.3	15
31	Tailoring the structure and hydrophobic properties of amorphous silica by silylation. <i>Microporous and Mesoporous Materials</i> , 2012 , 158, 39-46	5.3	15
30	Pectin: A Long-Neglected Broad-Spectrum Antibacterial. <i>ChemMedChem</i> , 2020 , 15, 2228-2235	3.7	15
29	Integral Extraction of Opuntia ficus-indica Peel Bioproducts via Microwave-Assisted Hydrodiffusion and Hydrodistillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7884-7891	8.3	13
28	New Catalyst Series from the Sol-Gel-Entrapment of Gold Nanoparticles in Organically Modified Silica Matrices: Proof of Performance in a Model Oxidation Reaction. <i>ChemCatChem</i> , 2015 , 7, 254-260	5.2	11
27	Enhanced Biocatalytic Activity of ORMOSIL-Encapsulated Cutinase: The Matrix Structural Perspective. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2008-2015	3.8	11
26	The Case for a Lemon Bioeconomy. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000006	5.9	10
25	Towards waste free organic synthesis using nanostructured hybrid silicas. <i>Nanoscale</i> , 2014 , 6, 6293-300	7.7	10

24	The sol-gel entrapment of noble metals in hybrid silicas: a molecular insight. <i>Chemistry Central Journal</i> , 2013 , 7, 161		10
23	Smart polymer nanoparticles for high-performance water-borne coatings. <i>Langmuir</i> , 2014 , 30, 12345-53	4	9
22	Kinetic study of controlled release of VPA and DPH antiepileptic drugs using biocompatible nanostructured sol-gel TiO ₂ . <i>Journal of Materials Science</i> , 2009 , 44, 5459-5468	4.3	9
21	Thickness, Morphology and Structure of Sol-Gel Hybrid Films: The Role of the Solvent. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 357-362	2.3	8
20	Economic and Technical Feasibility of Betanin and Pectin Extraction from Peel via Microwave-Assisted Hydrodiffusion. <i>ACS Omega</i> , 2019 , 4, 12121-12124	3.9	7
19	Encapsulation of ruthenium nitrosyl nitrate and DNA purines in nanostructured sol-gel silica matrices. <i>Langmuir</i> , 2009 , 25, 10243-50	4	7
18	Thickness, Morphology and Structure of Sol-Gel Hybrid Films: The Role of the Precursor Solution Ageing. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 363-367	2.3	7
17	Nanohybrid silica/polymer aerogels: The combined influence of polymer nanoparticle size and content. <i>Materials and Design</i> , 2020 , 189, 108521	8.1	7
16	New Neuroprotective Effect of Lemon IntegroPectin on Neuronal Cellular Model. <i>Antioxidants</i> , 2021 , 10,	7.1	7
15	Sol-Gel Microencapsulation of Organic Molecules: A Structural and Chemical Insight. <i>ChemPlusChem</i> , 2012 , 77, 536-540	2.8	6
14	The grounds for the activity of TPAP in oxidation catalysis in supercritical carbon dioxide when confined in hybrid fluorinated silica matrices. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2026-32	3.6	6
13	A Transmission FTIR Spectroscopic Study on Mixed Langmuir-Blodgett Films of Cadmium Heptadecanoate-Chloro/Bromohexadecane. <i>Langmuir</i> , 1995 , 11, 2745-2750	4	6
12	Silica-Based Sol-Gel Coatings: A Critical Perspective from a Practical Viewpoint 2016 , 149-159		5
11	Lemon Essential Oil of Variable Composition by Changing the Conditions of the Extraction from Lemon Peel via Microwave Hydrodiffusion and Gravity. <i>ChemistrySelect</i> , 2017 , 2, 7123-7127	1.8	4
10	Specific surface area and salt weathering of limestones: a laboratory study. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2013 , 46, 477-484	1.4	3
9	Hybrid Silica Gel-Polytetrahydrofuran Thin Films. <i>Journal of Sol-Gel Science and Technology</i> , 1998 , 13, 433-437	2.3	3
8	Pectin: New science and forthcoming applications of the most valued hydrocolloid. <i>Food Hydrocolloids</i> , 2022 , 127, 107483	10.6	3
7	Sol-gel microspheres doped with glycerol: a structural insight in light of forthcoming applications in the polyurethane foam industry. <i>ChemistryOpen</i> , 2015 , 4, 120-6	2.3	2

6	Enhanced Mechanical Properties in Organofluorosilica Thin Films. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-5	3.2	2
5	Valued Bioproducts from Waste Opuntia ficus-indica Peel via Microwave-Assisted Hydrodiffusion and Hydrodistillation		2
4	AurOrGlass: ORMOSIL Sol-Gel Glasses Functionalized with Gold Nanoparticles for Advanced Optical Applications. <i>ChemistrySelect</i> , 2019 , 4, 8746-8750	1.8	1
3	Hydrophobic Silica Aerogels under Subcritical Conditions: Preparation and Characterization 2003 , 135-148		1
2	Hierarchical Cluster Analysis of Human Value Priorities and Associations with Subjective Well-Being, Subjective General Health, Social Life, and Depression across Europe. <i>Social Sciences</i> , 2021 , 10, 74	1.8	0
1	Red Orange and Bitter Orange IntegroPectin: Structure and Main Functional Compounds. <i>Molecules</i> , 2022 , 27, 3243	4.8	0