Alexandre F LÃ©onard

List of Publications by Year
in descending order

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60	2,533	147801 31	189892 50
papers	citations	h-index	g-index

63	63	63	2958
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical testing of electrospun PCL fibers. Acta Biomaterialia, 2012, 8, 218-224.	8.3	245
2	Hierarchically Mesoporous/Macroporous Metal Oxides Templated from Polyethylene Oxide Surfactant Assemblies. Angewandte Chemie - International Edition, 2003, 42, 2872-2875.	13.8	215
3	Self-formation phenomenon to hierarchically structured porous materials: design, synthesis, formation mechanism and applications. Chemical Communications, 2011, 47, 2763.	4.1	179
4	Well-Ordered Spherical Mesoporous Materials CMI-1 Synthesized via an Assembly of Decaoxyethylene Cetyl Ether and TMOS. Chemistry of Materials, 2001, 13, 3542-3553.	6.7	125
5	Whole-cell based hybrid materials for green energy production, environmental remediation and smart cell-therapy. Chemical Society Reviews, 2011, 40, 860.	38.1	117
6	Self-formation of hierarchical micro-meso-macroporous structures: Generation of the new concept â€œHierarchical Catalysisâ€• Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 300, 70-78.	4.7	95
7	Surfactant-assisted synthesis of unprecedented hierarchical meso-macrostructured zirconia. Chemical Communications, 2003, , 1558-1559.	4.1	83
8	Synthesis of Large Pore Disordered MSU-Type Mesoporous Silicas through the Assembly of C16(EO)10 Surfactant and TMOS Silica Source: Effect of the Hydrothermal Treatment and Thermal Stability of Materials. Journal of Physical Chemistry B, 2001, 105, 6070-6079.	2.6	68
9	Living hybrid materials capable of energy conversion and CO2 assimilation. Chemical Communications, 2010, 46, 3843.	4.1	64
10	Targeting photobioreactors: Immobilisation of cyanobacteria within porous silica gel using biocompatible methods. Journal of Materials Chemistry, 2008, 18, 1333.	6.7	61
11	Selective and Reusable Iron(II)-Based Molecular Sensor for the Vapor-Phase Detection of Alcohols. Inorganic Chemistry, 2014, 53, 1263-1265.	4.0	61
12	Cyanobacteria immobilised in porous silica gels: exploring biocompatible synthesis routes for the development of photobioreactors. Energy and Environmental Science, 2010, 3, 370.	30.8	56
13	Engineering Three-Dimensional Chains of Porous Nanoballs from a 1,2,4-Triazole-carboxylate Supramolecular Synthon. Crystal Growth and Design, 2010, 10, 1798-1807.	3.0	49
14	A novel and template-free method for the spontaneous formation of aluminosilicate macro-channels with mesoporous walls. Chemical Communications, 2004, , 1674-1675.	4.1	48
15	One-pot surfactant assisted synthesis of aluminosilicate macrochannels with tunable micro- or mesoporous wall structure. Chemical Communications, 2003, , 2568-2569.	4.1	47
16	Energy from photobioreactors: Bioencapsulation of photosynthetically active molecules, organelles, and whole cells within biologically inert matrices. Pure and Applied Chemistry, 2008, 80, 2345-2376.	1.9	47
17	Genesis of active and inactive species during the preparation of MoO3/SiO2â€“Al2O3 metathesis catalysts via wet impregnation. Catalysis Today, 2011, 169, 60-68.	4.4	45
18	Thermal Spreading As an Alternative for the Wet Impregnation Method: Advantages and Downsides in the Preparation of MoO3/SiO2â"Al2O3 Metathesis Catalysts. Journal of Physical Chemistry C, 2010, 114, 18664-18673.	3.1	42

#	Article	IF	Citations
19	Title is missing!. Angewandte Chemie, 2003, 115, 2978-2981.	2.0	41
20	Preparation and characterization of HMS supported 11-molybdo-vanado-phosphoric acid for selective oxidation of propylene. Microporous and Mesoporous Materials, 2010, 130, 103-114.	4.4	40
21	Insights on palladium decorated nitrogen-doped carbon xerogels for the hydrogen production from formic acid. Catalysis Today, 2019, 324, 90-96.	4.4	40
22	Toward a Better Control of Internal Structure and External Morphology of Mesoporous Silicas Synthesized Using a Nonionic Surfactant. Langmuir, 2003, 19, 5484-5490.	3.5	39
23	Chemistry of silica at different concentrations of non-ionic surfactant solutions: effect of pH of the synthesis gel on the preparation of mesoporous silicas. Microporous and Mesoporous Materials, 2003, 63, 59-73.	4.4	37
24	Design of photochemical materials for carbohydrate production via the immobilisation of whole plant cells into a porous silica matrix. Journal of Materials Chemistry, 2010, 20, 929-936.	6.7	37
25	Singleâ€Walled Metalâ€“Organic Nanotube Built from a Simple Synthon. Chemistry - A European Journal, 2015, 21, 4300-4307.	3.3	37
26	Photosynthesis within porous silica gel: viability and activity of encapsulated cyanobacteria. Journal of Materials Chemistry, 2008, 18, 2833.	6.7	36
27	Novel photosynthetic CO2bioconvertor based on green algae entrapped in low-sodium silica gels. Journal of Materials Chemistry, 2011, 21, 951-959.	6.7	36
28	Macroporous poly(ionic liquid) and poly(acrylamide) monoliths from CO2-in-water emulsion templates stabilized by sugar-based surfactants. Journal of Materials Chemistry A, 2013, 1, 8479.	10.3	36
29	State of health estimation for lithium ion batteries based on an equivalent-hydraulic model: An iron phosphate application. Journal of Energy Storage, 2019, 21, 259-271.	8.1	36
30	Insight into Cellular Response of Plant Cells Confined within Silica-Based Matrices. Langmuir, 2010, 26, 6568-6575.	3.5	34
31	Hierarchical aluminosilicate macrochannels with structured mesoporous walls: Towards a single catalyst for multistep reactions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 300, 129-135.	4.7	33
32	Highly ordered mesoporous CMI-n materials and hierarchically structured mesoâ€“macroporous compositions. Comptes Rendus Chimie, 2005, 8, 713-726.	0.5	31
33	Effect of nitrogen doping on the pore texture of carbon xerogels based on resorcinol-melamine-formaldehyde precursors. Microporous and Mesoporous Materials, 2018, 256, 190-198.	4.4	27
34	Superlative Scaffold of 1,2,4-Triazole Derivative of Glycine Steering Linear Chain to a Chiral Helicate. Crystal Growth and Design, 2011, 11, 1375-1384.	3.0	26
35	Characterization of H3+xPMo12â^'xVxO40 heteropolyacids supported on HMS mesoporous molecular sieve and their catalytic performance in propene oxidation. Microporous and Mesoporous Materials, 2012, 154, 153-163.	4.4	23
36	Safe and green Li-ion batteries based on LiFePO4 and Li4Ti5O12 sprayed as aqueous slurries with xanthan gum as common binder. Materials Today Energy, 2019, 12, 168-178.	4.7	23

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37	Aqueous and organic inks of carbon xerogels as models for studying the role of porosity in lithium-ion battery electrodes. Materials and Design, 2016, 109, 282-288.	7.0	22
38	How do the micropores of carbon xerogels influence their electrochemical behavior as anodes for lithium-ion batteries?. Microporous and Mesoporous Materials, 2019, 275, 278-287.	4.4	22
39	Hybrid photosynthetic materials derived from microalgae Cyanidium caldarium encapsulated within silica gel. Journal of Colloid and Interface Science, 2010, 344, 348-352.	9.4	21
40	Functionalization of carbon xerogels for the preparation of palladium supported catalysts applied in sugar transformations. Applied Catalysis B: Environmental, 2014, 148-149, 424-435.	20.2	20
41	Influence of the textural parameters of resorcinolâ€“formaldehyde dry polymers and carbon xerogels on particle sizes upon mechanical milling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 471, 124-132.	4.7	20
42	Carbon xerogels as model materials: toward a relationship between pore texture and electrochemical behavior as anodes for lithium-ion batteries. Journal of Materials Science, 2016, 51, 4358-4370.	3.7	18
43	Understanding the Influence of Surface Oxygen Groups on the Electrochemical Behavior of Porous Carbons as Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 36054-36065.	8.0	17
44	Designing Photobioreactors based on Living Cells Immobilized in Silica Gel for Carbon Dioxide Mitigation. ChemSusChem, 2011, 4, 1249-1257.	6.8	16
45	Synthesis of microsphere-loaded porous polymers by combining emulsion and dispersion polymerisations in supercritical carbon dioxide. Chemical Communications, 2012, 48, 8356.	4.1	15
46	Rapid aqueous synthesis of ordered mesoporous carbons: Investigation of synthesis variables and application as anode materials for Li-ion batteries. Microporous and Mesoporous Materials, 2014, 195, 92-101.	4.4	15
47	Highly Ordered Mesoporous and Hierarchically Nanostructured Meso-macroporous Materials for Nanotechnology, Biotechnology, Information Technology and Medical Applications. Nanopages, 2006, 1, 1-44.	0.2	14
48	Prolonging the lifetime and activity of silica immobilised Cyanidium caldarium. Journal of Colloid and Interface Science, 2011, 356, 159-164.	9.4	14
49	Correlation between morphology and electrical conductivity of dried and carbonized multi-walled carbon nanotube/resorcinolâ€“formaldehyde xerogel composites. Journal of Materials Science, 2015, 50, 6007-6020.	3.7	14
50	(Di)-aminoguanidine Functionalization through Transamination: An Avenue to an Auspicious Class of Supramolecular Synthons. Crystal Growth and Design, 2011, 11, 4034-4043.	3.0	12
51	Phosphine- and ammonium-functionalized ordered mesoporous carbons as supports for cluster-derived metal nanoparticles. Catalysis Today, 2014, 235, 112-126.	4.4	10
52	A practical method to characterize proton exchange membrane fuel cell catalyst layer topography: Application to two coating techniques and two carbon supports. Thin Solid Films, 2020, 695, 137751.	1.8	7
53	Understanding the effect of the mesopore volume of ordered mesoporous carbons on their electrochemical behavior as Li-ion battery anodes. Microporous and Mesoporous Materials, 2020, 306, 110417.	4.4	7
54	Control of ordered mesoporous molecular sieves synthesis using non-ionic surfactants by incorporation of transition metal ions in the micellar solution. Studies in Surface Science and Catalysis, 2003, 146, 243-246.	1.5	4

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55	Preparation of CMI-1 supported H3+xPMo12-xVxO40 for the selective oxidation of propylene. Studies in Surface Science and Catalysis, 2010, , 665-669.	1.5	2
56	A mechanistic study on the degradation of highly ordered, non-ionic surfactant templated aluminosilicate mesoporous materials Al-CMI-1 in boiling water. Studies in Surface Science and Catalysis, 2007, 165, 113-116.	1.5	1
57	HIERARCHICAL MACRO-MESOPOROUS OXIDES AND CARBONS: TOWARDS NEW AND MORE EFFICIENT HIERARCHICAL CATALYSIS. Annual Review of Nano Research, 2008, , 393-438.	0.2	1
58	Acute renal failure secondary to oxalosis in a recipient of a simultaneous kidney-pancreas transplant: was mycophenolate the cause?. Nephrology Dialysis Transplantation, 2008, 24, 326-326.	0.7	1
59	PrÃ©paration, caractÃ©risation et rÃ©activitÃ© de lâ€™acide 1-vanado-11-molybdo-phosphorique supportÃ© sur des matÃ©riaux silicatÃ©s mÃ©soporeux dans lâ€™oxydation du propÃ¨ne. Comptes Rendus Chimie, 2012, 15, 658-668.	0.5	1
60	Development of Novel Solid Materials for High Power Li Polymer Batteries (SOMABAT). Recyclability of Components. Lecture Notes in Mobility, 2015, , 19-32.	0.2	0