Alexandre A S Gonalves

List of Publications by Citations

63 papers	8,593 citations	32 h-index	63 g-index
63 ext. papers	9,539 ext. citations	10.5 avg, IF	6.62 L-index

#	Paper	IF	Citations
63	Gas Adsorption Characterization of Ordered Organic–Inorganic Nanocomposite Materials. *Chemistry of Materials*, **2001**, 13, 3169-3183	9.6	2680
62	Characterization of the Porous Structure of SBA-15. *Chemistry of Materials*, **2000**, 12, 1961-1968	9.6	1137
61	Molecular-based design and emerging applications of nanoporous carbon spheres. *Nature Materials* , **2015**, 14, 763-74	27	712
60	Anatase TiO2 with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. *Chemistry of Materials*, **2011**, 23, 4085-4093	9.6	615
59	Importance of small micropores in CO2 capture by phenolic resin-based activated carbon spheres. *Journal of Materials Chemistry A*, **2013**, 1, 112-116	13	324
58	Ordered mesoporous alumina-supported metal oxides. *Journal of the American Chemical Society*, **2008**, 130, 15210-6	16.4	314
57	Improvement of the Kruk-Jaroniec-Sayari method for pore size analysis of ordered silicas with cylindrical mesopores. *Langmuir*, **2006**, 22, 6757-60	4	251
56	Facile Synthesis of Ordered Mesoporous Alumina and Alumina-Supported Metal Oxides with Tailored Adsorption and Framework Properties. *Chemistry of Materials*, **2011**, 23, 1147-1157	9.6	246
55	Colloidal imprinting: a novel approach to the synthesis of mesoporous carbons. *Journal of the American Chemical Society*, **2001**, 123, 9208-9	16.4	209
54	Toward designing semiconductor-semiconductor heterojunctions for photocatalytic applications. *Applied Surface Science*, **2018**, 430, 2-17	6.7	141
53	Temperature-programmed microwave-assisted synthesis of SBA-15 ordered mesoporous silica. *Journal of the American Chemical Society*, **2006**, 128, 14408-14	16.4	127
52	Characterization of semiconductor photocatalysts. *Chemical Society Reviews*, **2019**, 48, 5184-5206	58.5	126
51	Coconut shell-based microporous carbons for CO2 capture. *Microporous and Mesoporous Materials*, **2013**, 180, 280-283	5.3	115
50	Enhancement of CO2 adsorption on phenolic resin-based mesoporous carbons by KOH activation. *Carbon*, **2013**, 65, 334-340	10.4	109
49	Potassium salt-assisted synthesis of highly microporous carbon spheres for CO2 adsorption. *Carbon* , **2015**, 82, 297-303	10.4	105
48	New opportunities in Stöber synthesis: preparation of microporous and mesoporous carbon spheres. *Journal of Materials Chemistry*, **2012**, 22, 12636		102
47	Gas adsorption properties of hybrid graphene-MOF materials. *Journal of Colloid and Interface Science*, **2018**, 514, 801-813	9.3	99

46	Development of microporous carbons for CO2 capture by KOH activation of African palm shells. *Journal of CO2 Utilization*, **2013**, 2, 35-38	7.6	92
45	CO2 adsorption on amine-functionalized periodic mesoporous benzenesilicas. *ACS Applied Materials & Interfaces*, **2015**, 7, 6792-802	9.5	78
44	Synthesis of mesoporous alumina from boehmite in the presence of triblock copolymer. *ACS Applied Materials & Interfaces*, **2010**, 2, 588-93	9.5	72
43	Mesoporous metal organic framework-boehmite and silica composites. *Chemical Communications*, **2010**, 46, 6798-800	5.8	65
42	Graphitic Mesoporous Carbons with Embedded Prussian Blue-Derived Iron Oxide Nanoparticles Synthesized by Soft Templating and Low-Temperature Graphitization. *Chemistry of Materials*, **2013**, 25, 2803-2811	9.6	59
41	Defect formation in metal–organic frameworks initiated by the crystal growth-rate and effect on catalytic performance. *Journal of Catalysis*, **2017**, 354, 84-91	7.3	49
40	Effect of acid concentration on pore size in polymer-templated mesoporous alumina. *Journal of Materials Chemistry*, **2012**, 22, 86-92		43
39	Effect of nonionic structure-directing agents on adsorption and structural properties of mesoporous alumina. *Journal of Materials Chemistry*, **2011**, 21, 9066		42
38	Major advances in the development of ordered mesoporous materials. *Chemical Communications*, **2020**, 56, 7836-7848	5.8	41
37	Soft-templating synthesis and properties of mesoporous alumina–titania. *Microporous and Mesoporous Materials*, **2010**, 128, 180-186	5.3	41
36	Facile formation of metallic bismuth/bismuth oxide heterojunction on porous carbon with enhanced photocatalytic activity. *Journal of Colloid and Interface Science*, **2018**, 513, 82-91	9.3	40
35	One-Pot Synthesis of MeAl2O4 (Me = Ni, Co, or Cu) Supported on γ-Al2O3 with Ultralarge Mesopores: Enhancing Interfacial Defects in γ-Al2O3 To Facilitate the Formation of Spinel Structures at Lower Temperatures. *Chemistry of Materials*, **2018**, 30, 436-446	9.6	38
34	One-Pot Synthesis of Mesoporous Ni-Ti-Al Ternary Oxides: Highly Active and Selective Catalysts for Steam Reforming of Ethanol. *ACS Applied Materials & Interfaces*, **2017**, 9, 6079-6092	9.5	35
33	Development of nickel-incorporated MCM-41–carbon composites and their application in nitrophenol reduction. *Journal of Materials Chemistry A*, **2019**, 7, 9618-9628	13	32
32	Mesoporous calcium oxide–silica and magnesium oxide–silica composites for CO2 capture at ambient and elevated temperatures. *Journal of Materials Chemistry A*, **2016**, 4, 10914-10924	13	32
31	Low temperature sulfonation of acai stone biomass derived carbons as acid catalysts for esterification reactions. *Energy Conversion and Management*, **2019**, 196, 821-830	10.6	32
30	Adsorption and structural properties of ordered mesoporous alumina synthesized in the presence of F127 block copolymer. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 385, 121-125	5.1	30
29	Functionalized MCM-41 and CeMCM-41 Materials Synthesized via Interfacial Reactions. *Journal of Physical Chemistry B*, **2000**, 104, 9713-9719	3.4	30

28	Identification of preferentially exposed crystal facets by X-ray diffraction.. *RSC Advances*, **2020**, 10, 5585-5589	3.9	25
27	Synthesis of Porous Crystalline Doped Titania Photocatalysts Using Modified Precursor Strategy. *Chemistry of Materials*, **2016**, 28, 7878-7888	9.6	20
26	Non-Noble Plasmonic Metal-Based Photocatalysts.. *Chemical Reviews*, **2022**,	68.1	20
25	Equilibrium isotherms and isosteric heat for CO2 adsorption on nanoporous carbons from polymers. *Adsorption*, **2016**, 22, 581-588	2.6	19
24	Tailoring porosity in carbon spheres for fast carbon dioxide adsorption. *Journal of Colloid and Interface Science*, **2017**, 487, 162-174	9.3	19
23	Dual optimization of microporosity in carbon spheres for CO2 adsorption by using pyrrole as the carbon precursor and potassium salt as the activator. *Journal of Materials Chemistry A*, **2017**, 5, 19456-19466	13	17
22	SBA-15 templating synthesis of mesoporous bismuth oxide for selective removal of iodide. *Journal of Colloid and Interface Science*, **2017**, 501, 248-255	9.3	16
21	Importance of surface modification of □alumina in creating its nanostructured composites with zeolitic imidazolate framework ZIF-67. *Journal of Colloid and Interface Science*, **2018**, 526, 497-504	9.3	16
20	Poly(ethylene oxide)-poly(butylene oxide)-poly(ethylene oxide)-templated synthesis of mesoporous alumina: effect of triblock copolymer and acid concentration. *ACS Applied Materials & Interfaces*, **2012**, 4, 3738-44	9.5	15
19	Hierarchical porous carbon derived from acai seed biowaste for supercapacitor electrode materials. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 12148-12157	2.1	14
18	Amino acid-assisted synthesis of porous graphitic carbon spheres with highly dispersed Ni nanoparticles. *Carbon*, **2019**, 153, 206-216	10.4	13
17	Effect of cosolvent organic molecules on the adsorption and structural properties of soft-templated ordered mesoporous alumina. *Journal of Colloid and Interface Science*, **2012**, 367, 129-34	9.3	13
16	Capture of Iodide by Bismuth Vanadate and Bismuth Oxide: An Insight into the Process and its Aftermath. *ChemSusChem*, **2018**, 11, 1486-1493	8.3	12
15	Effect of metal-ligand ratio on the CO adsorption properties of Cu-BTC metal-organic frameworks.. *RSC Advances*, **2018**, 8, 35551-35556	3.7	12
14	Standard nitrogen adsorption data for □alumina and their use for characterization of mesoporous alumina-based materials. *Adsorption*, **2013**, 19, 475-481	2.6	11
13	Mechanochemical synthesis of three-component graphene oxide/ordered mesoporous carbon/metal-organic framework composites. *Journal of Colloid and Interface Science*, **2020**, 577, 163-172	9.3	11
12	Evaporation-induced self-assembly synthesis of nanostructured alumina-based mixed metal oxides with tailored porosity. *Journal of Colloid and Interface Science*, **2019**, 537, 725-735	9.3	11
11	Utilization of acai stone biomass for the sustainable production of nanoporous carbon for CO2 capture. *Sustainable Materials and Technologies*, **2020**, 25, e00168	5.3	10

List of Publications

10	Microwave-assisted single-surfactant templating synthesis of mesoporous zeolites. *RSC Advances*, **2016**, 6, 54956-54963	3.7	9
9	Toward development of single-atom ceramic catalysts for selective catalytic reduction of NO with NH. *Journal of Hazardous Materials*, **2021**, 401, 123413	12.8	9
8	Advances in Microwave Synthesis of Nanoporous Materials. *Advanced Materials*, **2021**, 33, e2103477	24	9
7	Facile mechanochemical synthesis of highly mesoporous Al2O3 using boehmite. *Microporous and Mesoporous Materials*, **2021**, 312, 110792	5.3	7
6	One-pot synthesis of activated porous graphitic carbon spheres with cobalt nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 582, 123884	5.1	6
5	Recent advances in mechanochemical synthesis of mesoporous metal oxides. *Materials Advances*, **2021**, 2, 2510-2523	3.3	6
4	Fundamentals of adsorption for photocatalysis. *Interface Science and Technology*, **2020**, 39-62	2.3	5
3	A generalized strategy for synthesizing crystalline bismuth-containing nanomaterials. *Nanoscale*, **2020**, 12, 8277-8284	7.7	4
2	Polymer-templated mesoporous hybrid oxides of Al and Cu: highly porous sorbents for ammonia. *RSC Advances*, **2016**, 6, 38662-38670	3.7	1
1	Role of activated carbons as metal-free catalysts **2022**, 245-265		