JoÃ£o P LourenÃ§o

List of Publications by Year
in descending order

69 papers	1,399 citations	279701 23 h-index	414303 32 g-index
73 all docs	73 docs citations	73 times ranked	1733 citing authors

#	Article	IF	Citations
1	Nanostructured silica materials in olefin polymerisation: From catalytic behaviour to polymer characteristics. Progress in Polymer Science, 2012, 37, 1764-1804.	11.8	59
2	Sulfonic-functionalized SBA-15 as an active catalyst for the gas-phase dehydration of Glycerol. Catalysis Communications, 2012, 19, 105-109.	1.6	54
3	Spectroscopic Characterization of Hydroxyl Groups in SAPO-40. 1. Study of the Template-Free Samples and Their Interaction with Ammonia. The Journal of Physical Chemistry, 1996, 100, 11072-11079.	2.9	52
4	Al-containing MCM-41 type materials prepared by different synthesis methods: Hydrothermal stability and catalytic properties. Microporous and Mesoporous Materials, 2006, 94, 56-65.	2.2	52
5	The Infrared Spectrum of Solid <scp>l</scp>-Alanine: Influence of pH-Induced Structural Changes. Journal of Physical Chemistry A, 2008, 112, 8280-8287.	1.1	52
6	Comparison of liquid-phase olefin epoxidation catalysed by dichlorobis-(dimethylformamide)dioxomolybdenum(VI) in homogeneous phase and grafted onto MCM-41. Journal of Molecular Catalysis A, 2009, 297, 110-117.	4.8	42
7	Gas permeability properties of decorated MCM-41/polyethylene hybrids prepared by in-situ polymerization. Journal of Membrane Science, 2012, 415-416, 702-711.	4.1	42
8	Hybrid HDPE/MCM-41 nanocomposites: Crystalline structure and viscoelastic behaviour. Microporous and Mesoporous Materials, 2010, 130, 215-223.	2.2	40
9	Inhalable Antitubercular Therapy Mediated by Locust Bean Gum Microparticles. Molecules, 2016, 21, 702.	1.7	36
10	Self-Reinforced Hybrid Polyethylene/MCM-41 Nanocomposites: <I>In-Situ</I> Polymerisation and Effect of MCM-41 Content on Rigidity. Journal of Nanoscience and Nanotechnology, 2009, 9, 3966-3974.	0.9	34
11	Charged pullulan derivatives for the development of nanocarriers by polyelectrolyte complexation. International Journal of Biological Macromolecules, 2016, 86, 129-138.	3.6	34
12	Start-up, adjustment and long-term performance of a two-stage bioremediation process, treating real acid mine drainage, coupled with biosynthesis of ZnS nanoparticles and ZnS/TiO2 nanocomposites. Minerals Engineering, 2015, 75, 85-93.	1.8	33
13	Photodegradation of chloramphenicol and paracetamol using PbS/TiO2 nanocomposites produced by green synthesis. Journal of the Iranian Chemical Society, 2020, 17, 2013-2031.	1.2	32
14	Mild liquid-phase Friedel-Crafts acylation of heteroaromatic compounds over zeolite Beta. Journal of Molecular Catalysis A, 2009, 305, 100-103.	4.8	31
15	Ethylene polymerisation with zirconocene supported in Al-modified MCM-41: Catalytic behaviour and polymer properties. Journal of Molecular Catalysis A, 2007, 277, 93-101.	4.8	30
16	Structure analysis of the novel microporous aluminophosphate IST-1 using synchrotron powder diffraction data and HETCOR MAS NMR. Microporous and Mesoporous Materials, 2003, 65, 43-57.	2.2	29
17	Synthesis of nanocrystalline ZnS using biologically generated sulfide. Hydrometallurgy, 2012, 117-118, 57-63.	1.8	29
18	Synthesis and characterization of Locust Bean Gum derivatives and their application in the production of nanoparticles. Carbohydrate Polymers, 2018, 181, 974-985.	5.1	29

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19	Synthesis and characterization of new CoAPSO-40 and ZnAPSO-40 molecular sieves. Influence of the composition on the thermal and hydrothermal stability of AlPO4-40-based materials. Microporous and Mesoporous Materials, 2000, 38, 267-278.	2.2	26
20	Hybrid materials based on polyethylene and MCM-41 microparticles functionalized with silanes: Catalytic aspects of in situ polymerization, crystalline features and mechanical properties. Microporous and Mesoporous Materials, 2016, 232, 86-96.	2.2	26
21	Decorated MCM-41/polyethylene hybrids: Crystalline details and viscoelastic behavior. Polymer, 2013, 54, 2611-2620.	1.8	25
22	Dichlorodioxomolybdenum(vi) complexes bearing oxygen-donor ligands as olefin epoxidation catalysts. Dalton Transactions, 2015, 44, 14139-14148.	1.6	25
23	Impact of Biohybrid Magnetite Nanoparticles and Moroccan Propolis on Adherence of Methicillin Resistant Strains of Staphylococcus aureus. Molecules, 2016, 21, 1208.	1.7	25
24	Multiple-quantum 27Al MAS n.m.r. spectroscopy of microporous AlPO-40 and SAPO-40. Zeolites, 1997, 19, 156-160.	0.9	23
25	Bis(pyrazolyl)methanetetracarbonyl-molybdenum(0) as precursor to a molybdenum(VI) catalyst for olefin epoxidation. Journal of Organometallic Chemistry, 2013, 723, 56-64.	0.8	23
26	Synthesis, characterization, and catalytic properties of AlPO4-40, CoAPO-40, and ZnAPO-40. Zeolites, 1997, 18, 398-407.	0.9	22
27	Photochemistry of benzophenone adsorbed on MCM-41 surface. Microporous and Mesoporous Materials, 2005, 84, 1-10.	2.2	21
28	Mesoporous Ga-MCM-41: A very efficient support for the heterogenisation of metallocene catalysts. Catalysis Communications, 2008, 10, 71-73.	1.6	21
29	Gas-phase dehydration of glycerol over thermally-stable SAPO-40 catalyst. RSC Advances, 2015, 5, 10667-10674.	1.7	21
30	UHMWPE/SBA-15 nanocomposites synthesized by in situ polymerization. Microporous and Mesoporous Materials, 2016, 232, 13-25.	2.2	21
31	Study of Catalytic Properties of SAPO-40. Studies in Surface Science and Catalysis, 1994, 84, 867-874.	1.5	20
32	Mesoporous Ga-MCM-41 as support for metallocene catalysts: Acidityâ€“activity relationship. Journal of Molecular Catalysis A, 2009, 310, 1-8.	4.8	20
33	Green synthesis of covellite nanocrystals using biologically generated sulfide: Potential for bioremediation systems. Journal of Environmental Management, 2013, 128, 226-232.	3.8	20
34	Thermal and hydrothermal stability of the silicoaluminophosphate SAPO-40. Microporous Materials, 1995, 4, 445-453.	1.6	19
35	Spectroscopic Characterization of the Hydroxyl Groups in SAPO-40. 2. Interaction with CO and N2. Journal of Physical Chemistry B, 1997, 101, 9244-9249.	1.2	19
36	Structural State and Redox Behavior of Framework Co(II) in CoIST-2:â€‰ A Novel Cobalt-Substituted Aluminophosphate with AEN Topology. Journal of Physical Chemistry B, 2004, 108, 8344-8354.	1.2	19

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37	Gas-phase dehydration of glycerol over hierarchical silicoaluminophosphate SAPO-40. Catalysis Communications, 2017, 95, 16-20.	1.6	18
38	Gas-phase conversion of glycerol to allyl alcohol over vanadium-supported zeolite beta. Catalysis Communications, 2019, 127, 20-24.	1.6	18
39	Hydrotalcite catalysed [4+2] cycloaddition reactions of nitroso- and azo-alkenes. Tetrahedron Letters, 2009, 50, 1311-1313.	0.7	17
40	Superparamagnetic Iron Oxide Nanoparticles and Essential Oils: A New Tool for Biological Applications. International Journal of Molecular Sciences, 2020, 21, 6633.	1.8	17
41	An elegant way to increase acidity in SAPOs: use of methylamine as co-template during synthesis. Studies in Surface Science and Catalysis, 2008, 174, 281-284.	1.5	15
42	Spray-dried fucoidan microparticles for pulmonary delivery of antitubercular drugs. Journal of Microencapsulation, 2018, 35, 392-405.	1.2	15
43	UHMWPE/HDPE in-reactor blends, prepared by in situ polymerization: Synthetic aspects and characterization. EXPRESS Polymer Letters, 2017, 11, 344-361.	1.1	15
44	Functionalization of Mesoporous MCMâ€41 (Nano)particles: Preparation Methodologies, Role on Catalytic Features, and Dispersion Within Polyethylene Nanocomposites. ChemCatChem, 2013, 5, 966-976.	1.8	14
45	Two new aluminophosphates, IST-1 and IST-2: First examples of a dual templating role of water and methylamine in generating microporous structures. Microporous and Mesoporous Materials, 2006, 90, 112-128.	2.2	13
46	Magnetite nanoparticles functionalized with propolis against methicillin resistant strains ofÂStaphylococcus aureus. Journal of the Taiwan Institute of Chemical Engineers, 2019, 102, 25-33.	2.7	13
47	Cycloaddition reactions of nitrosoalkenes, azoalkenes and nitrile oxides mediated by hydrotalcite. Arkivoc, 2010, 2010, 170-182.	0.3	13
48	Characterization of stability and porosity of SAPO-40 using m-xylene as model reaction. Applied Catalysis A: General, 1996, 148, 167-180.	2.2	12
49	Extraordinary mechanical performance in disentangled UHMWPE films processed by compression molding. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 202-207.	1.5	11
50	Solid-state NMR and powder XRD studies of the structure of SAPO-40 upon hydrationâ€“dehydration cycles. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2213-2215.	1.7	9
51	Structural and magnetic properties of P25 TiO2 nanoparticles doped by Co. Journal of Magnetism and Magnetic Materials, 2020, 501, 166442.	1.0	9
52	Recovery of gold(0) nanoparticles from aqueous solutions using effluents from a bioremediation process. RSC Advances, 2016, 6, 112784-112794.	1.7	8
53	Conversion of glycerol over vanadium supported beta zeolite: Role of acidity and alkali cations. Microporous and Mesoporous Materials, 2022, 329, 111536.	2.2	8
54	Copolymerization of ethylene and non-conjugated diene with metallocene/methylaluminoxane system supported on MCM-41 mesoporous material. European Polymer Journal, 2004, 40, 2555-2563.	2.6	7

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55	Preparation of polypropyleneâ€based nanocomposites using nanosized <scp>MCM</scp>â€41 as support and in situ polymerization. Polymer International, 2016, 65, 320-326.	1.6	7
56	Hafnocene catalyst for polyethylene and its nanocomposites with SBA-15 by in situ polymerization: Immobilization approaches, catalytic behavior and properties evaluation. European Polymer Journal, 2016, 85, 298-312.	2.6	7
57	Photochemistry of benzophenone on Ti-MCM-41 surfaces. Microporous and Mesoporous Materials, 2006, 89, 143-149.	2.2	6
58	A New Application of Solvent Extraction to Separate Copper from Extreme Acid Mine Drainage Producing Solutions for Electrochemical and Biological Recovery Processes. Mine Water and the Environment, 2022, 41, 387-401.	0.9	6
59	Innovative route for the preparation of high-performance polyolefin materials based on unique dendrimeric silica particles. Polymer Chemistry, 2021, 12, 4546-4556.	1.9	5
60	Disproportionation of ethylbenzene over SAPO-40. Reaction Kinetics and Catalysis Letters, 1996, 59, 219-225.	0.6	4
61	Aluminum Containing Dendrimeric Silica Nanoparticles as Promising Metallocene Catalyst Supports for Ethylene Polymerization. ChemCatChem, 2018, 10, 3761-3769.	1.8	4
62	Encapsulation of Rosmarinus officinalis essential oil in Î²â€cyclodextrins. Journal of Food Processing and Preservation, 2021, 45, e15806.	0.9	4
63	Generation of acid sites by incorporation of cobalt in the AFR structure. Studies in Surface Science and Catalysis, 1997, , 1973-1980.	1.5	3
64	Unique stiffness-deformability features of dendrimeric silica reinforced HDPE nanocomposites obtained by an innovative route. Microporous and Mesoporous Materials, 2022, 331, 111619.	2.2	3
65	Unusual framework stabilization of Cu(II) and Cu(I) ions in a novel copper-substituted aluminophosphate with AEN topology prepared by one pot synthesis. Studies in Surface Science and Catalysis, 2007, , 185-192.	1.5	2
66	Evidence of a solvent screen effect affecting the redox properties of Co(II) ions in CoAPO-37, CoAPO-40 and CoIST-2 (AEN), by cyclic voltammetry. Studies in Surface Science and Catalysis, 2004, 154, 1649-1654.	1.5	1
67	Methylamine as true template and TEAOH as purifying agent: unexpected roles of current organic additives in the hydrothermal synthesis of microporous aluminophosphates. Studies in Surface Science and Catalysis, 2007, 170, 456-463.	1.5	1
68	Dielectric Properties and Spectral Characteristics of Photocatalytic Constant of TiO2 Nanoparticles Doped with Cobalt. Nanomaterials, 2021, 11, 2519.	1.9	1
69	A New Post-Metallocene-Ti Catalyst with Maltolate Bidentade Ligand: an Investigation in Heterogeneous Polymerization Reactions in Different Mesoporous Supports. Journal of the Brazilian Chemical Society, 2016, , .	0.6	0