

Silvia C L Dias

List of Publications by Year in descending order

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64
papers

2,228
citations

185998

28
h-index

223531

46
g-index

66
all docs

66
docs citations

66
times ranked

2563
citing authors

#	ARTICLE	IF	CITATIONS
1	Esterification of oleic acid with ethanol by 12-tungstophosphoric acid supported on zirconia. <i>Applied Catalysis A: General</i> , 2010, 372, 153-161.	2.2	165
2	Comparative adsorption studies of indigo carmine dye on chitin and chitosan. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 43-47.	5.0	161
3	FT-Raman Spectroscopy Quantification of Biodiesel in a Progressive Soybean Oil Transesterification Reaction and Its Correlation with ^{13}C NMR Spectroscopy Methods. <i>Energy & Fuels</i> , 2007, 21, 2475-2480.	2.5	106
4	Effects of cesium ion exchange on acidity of 12-tungstophosphoric acid. <i>Microporous and Mesoporous Materials</i> , 2004, 76, 221-232.	2.2	91
5	Acidity and Hydrophobicity of TS-1. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1508-1514.	1.2	88
6	Catalyst Materials Based on Nb ₂ O ₅ Supported on SiO ₂ -Al ₂ O ₃ : Preparation and Structural Characterization. <i>Chemistry of Materials</i> , 2005, 17, 690-695.	3.2	78
7	Calorimetric and Spectroscopic Investigation of the Acidity of HZSM-5. <i>Journal of the American Chemical Society</i> , 1997, 119, 4444-4452.	6.6	77
8	Structural effects of WO ₃ incorporation on USY zeolite and application to free fatty acids esterification. <i>Microporous and Mesoporous Materials</i> , 2012, 147, 142-148.	2.2	77
9	Preparation and characterization of supported H ₃ PW ₁₂ O ₄₀ on silica gel: a potential catalyst for green chemistry processes. <i>Catalysis Today</i> , 2003, 85, 39-48.	2.2	74
10	Immobilization of Fe, Mn and Co tetraphenylporphyrin complexes in MCM-41 and their catalytic activity in cyclohexene oxidation reaction by hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 2008, 282, 149-157.	4.8	72
11	Effects of preparation and structure of cerium-zirconium mixed oxides on diesel soot catalytic combustion. <i>Applied Catalysis A: General</i> , 2012, 413-414, 292-300.	2.2	68
12	Synthesis, characterization and reactivity of Lewis acid/surfactant cerium trisdodecylsulfate catalyst for transesterification and esterification reactions. <i>Applied Catalysis A: General</i> , 2009, 355, 139-147.	2.2	66
13	Mixed salts of cesium and ammonium derivatives of 12-tungstophosphoric acid: Synthesis and structural characterization. <i>Applied Catalysis A: General</i> , 2011, 394, 138-148.	2.2	59
14	Effects of silica coating on the magnetic properties of magnetite nanoparticles. <i>Surfaces and Interfaces</i> , 2019, 14, 34-43.	1.5	51
15	Application of raman spectroscopy to monitor and quantify ethyl esters in soybean oil transesterification. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2006, 83, 597-601.	0.8	48
16	Solvent effect on the preparation of H ₃ PW ₁₂ O ₄₀ supported on alumina. <i>Catalysis Today</i> , 2005, 107-108, 816-825.	2.2	47
17	Solid-state dealumination of zeolites for use as catalysts in alcohol dehydration. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 50-57.	2.2	47
18	Preparation and characterization of H ₃ PW ₁₂ O ₄₀ supported on niobia. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 103-111.	2.2	46

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19	Investigation of biodiesel production by HUSY and Ce/HUSY zeolites: Influence of structural and acidity parameters. <i>Applied Catalysis A: General</i> , 2013, 450, 114-119.	2.2	39
20	Tuning the Biginelli reaction mechanism by the ionic liquid effect: the combined role of supported heteropolyacid derivatives and acidic strength. <i>RSC Advances</i> , 2019, 9, 27125-27135.	1.7	39
21	Copper oxide and niobium pentoxide supported on silica-alumina: Synthesis, characterization, and application on diesel soot oxidation. <i>Journal of Catalysis</i> , 2007, 247, 68-77.	3.1	38
22	Intramolecular cyclization of (+)-citronellal using supported 12-tungstophosphoric acid on MCM-41. <i>Journal of Molecular Catalysis A</i> , 2012, 358, 99-105.	4.8	34
23	Liquid phase calorimetric-adsorption analysis of Si-MCM-41: Evidence of strong hydrogen-bonding sites. <i>Microporous and Mesoporous Materials</i> , 2011, 139, 74-80.	2.2	33
24	Effects of niobium addition on ZSM-5 studied by thermal and spectroscopy methods. <i>Microporous and Mesoporous Materials</i> , 2008, 109, 485-493.	2.2	32
25	Ethylene production via catalytic ethanol dehydration by 12-tungstophosphoric acid@ceria-zirconia. <i>Fuel</i> , 2019, 239, 491-501.	3.4	31
26	Investigation of pyridine sorption in USY and Ce/USY zeolites by liquid phase microcalorimetry and thermogravimetry studies. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 27-34.	2.2	30
27	Esterification of acetic acid with alcohols using supported niobium pentoxide on silica-alumina catalysts. <i>Catalysis Today</i> , 2008, 133-135, 106-112.	2.2	30
28	Polymers Based on PLA from Synthesis Using D,L-Lactic Acid (or Racemic Lactide) and Some Biomedical Applications: A Short Review. <i>Polymers</i> , 2022, 14, 2317.	2.0	30
29	Calorimetric studies of the association of chitin and chitosan with sodium dodecyl sulfate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 35, 23-27.	2.5	28
30	Dehydration of 1-propanol using H3PW12O40 as catalyst. <i>Dalton Transactions RSC</i> , 2001, , 228-231.	2.3	26
31	Acidity measurements of zeolite Y by adsorption of several probes. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5574.	1.3	25
32	Generation and characterization of catalytically active sites of heteropolyacids on zeolite Y for liquid-phase esterification. <i>Catalysis Today</i> , 2017, 289, 70-77.	2.2	25
33	Multiple adsorption process description of zeolite mordenite acidity. <i>Microporous and Mesoporous Materials</i> , 2004, 72, 119-125.	2.2	24
34	Acidic characterization and activity of (NH ₄) _x Cs _{2.5} ·xH ₂ O.5PW12O40 catalysts in the esterification reaction of oleic acid with ethanol. <i>Applied Catalysis A: General</i> , 2012, 443-444, 33-39.	2.2	23
35	Benzene transalkylation with C ₉ + aromatics over supported 12-tungstophosphoric acid on silica catalysts. <i>Applied Catalysis A: General</i> , 2007, 328, 189-194.	2.2	21
36	Lewis acid/surfactant rare earth trisdodecylsulfate catalysts for biodiesel production from waste cooking oil. <i>Applied Catalysis A: General</i> , 2012, 423-424, 1-6.	2.2	21

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37	Comparison of BEA, USY and ZSM-5 for the quantitative extraction of polycyclic aromatic hydrocarbons from water samples. <i>Microporous and Mesoporous Materials</i> , 2012, 149, 186-192.	2.2	21
38	Phase transition in niobium pentoxide supported on silica-alumina. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 92, 851-855.	2.0	20
39	Liquid phase calorimetry and adsorption analyses of zeolite beta acidity. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1584.	1.3	19
40	Synthesis of poly(lactic acid) by heterogeneous acid catalysis from d,l-lactic acid. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	18
41	Comparative acidity of BEA and Y zeolite composites with 12-tungstophosphoric and 12-tungstosilicic acids. <i>Molecular Catalysis</i> , 2018, 458, 152-160.	1.0	17
42	Preparation of PLA blends by polycondensation of D,L-lactic acid using supported 12-tungstophosphoric acid as a heterogeneous catalyst. <i>Heliyon</i> , 2019, 5, e01810.	1.4	17
43	Effect of cerium loading on structure and morphology of modified Ce-USY zeolites. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 1894-1902.	0.6	16
44	Acidic Characterization of Copper Oxide and Niobium Pentoxide Supported on Silica-Alumina. <i>Catalysis Letters</i> , 2007, 119, 101-107.	1.4	15
45	A escolha da faixa espectral no uso combinado de métodos espectroscópicos e químicos. <i>Química Nova</i> , 2004, 27, 218-225.	0.3	14
46	Stability studies of ZSM-5/polystyrene and Y/polystyrene composites. <i>Polymer Degradation and Stability</i> , 2005, 87, 153-160.	2.7	12
47	Analytical evaluation of BEA zeolite for the pre-concentration of polycyclic aromatic hydrocarbons and their subsequent chromatographic analysis in water samples. <i>Analytica Chimica Acta</i> , 2012, 733, 103-109.	2.6	11
48	Synthesis and characterization of CuO/Nb ₂ O ₅ /MCM-41 for the catalytic oxidation of diesel soot. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 562-574.	2.2	9
49	Characterization of ZSM-5 modified with niobium pentoxide: the study of thiophene adsorption. <i>Journal of the Brazilian Chemical Society</i> , 2013, 24, 40-50.	0.6	9
50	Dehydration of Fructose to 5-Hydroxymethylfurfural: Effects of Acidity and Porosity of Different Catalysts in the Conversion, Selectivity, and Yield. <i>Chemistry</i> , 2021, 3, 1189-1202.	0.9	9
51	Pre-concentration of water samples with BEA zeolite for the direct determination of polycyclic aromatic hydrocarbons with laser-excited time-resolved Shpol'skii spectroscopy. <i>Microchemical Journal</i> , 2013, 110, 246-255.	2.3	8
52	Effects of the dealumination methodology on the FER zeolite acidity: A study with fractional factorial design. <i>Molecular Catalysis</i> , 2018, 458, 139-144.	1.0	8
53	Accessibility and strength of H-acceptor hydroxyls of ordered mesoporous silicas probed by pyridine donor. <i>Journal of Porous Materials</i> , 2021, 28, 323-335.	1.3	8
54	Acidity and Characterization of 12-Tungstophosphoric Acid Supported on Silica-Alumina. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	7

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55	Produção de biodiesel via transesterificação etélica com zeólitas básicas. <i>Quimica Nova</i> , 2012, 35, 119-123.	0.3	7
56	A thermodynamic analysis of the Calad method with respect to gas-solid calorimetry. <i>Microporous and Mesoporous Materials</i> , 1999, 31, 205-209.	2.2	5
57	Cerium-zirconium mixed oxide nanostructures for diesel soot oxidation: synthesis and effect of structure. <i>RSC Advances</i> , 2020, 10, 27428-27438.	1.7	4
58	Niobium on BEA Dealuminated Zeolite for High Selectivity Dehydration Reactions of Ethanol and Xylose into Diethyl Ether and Furfural. <i>Nanomaterials</i> , 2020, 10, 1269.	1.9	4
59	Cerium-zirconium mixed oxide synthesized by sol-gel method and its effect on the oxygen vacancy and specific surface area. <i>Journal of Solid State Chemistry</i> , 2022, 307, 122752.	1.4	4
60	Catalytic Transformation Conditions of Ethanol on Dealuminated BEA Zeolites. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	3
61	Synthesis, characterization, and application of phosphotungstic acid supported on iron-based magnetic nanoparticles coated with silica. <i>Catalysis Today</i> , 2022, 394-396, 425-433.	2.2	3
62	Pt Electrocatalyst Prepared by Hydrothermal Reduction onto the Gas Diffusion Layer for High-Temperature Formic Acid and Ethanol Fuel PEMFC. <i>Catalysts</i> , 2021, 11, 1246.	1.6	3
63	Indirect Determination of Dichlorodiphenyltrichloroethane (DDT) After Dechlorination with Magnesium/Palladium Bimetallic Particles and Potentiometric Measurements. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010, 84, 574-576.	1.3	0
64	Effect of Acidity, Structure, and Stability of Supported 12-Tungstophosphoric Acid on Catalytic Reactions. , 2013, , 165-187.		0