

# Silvia C L Dias

## List of Publications by Year in descending order

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64  
papers

2,228  
citations

186265

28  
h-index

223800

46  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2563  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.4	3
2	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.	2.9	4
3	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.	4.5	30
4	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.	2.6	8
5	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.	3.5	3
6	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.	2.2	9
7	Cerium-zirconium mixed oxide nanostructures for diesel soot oxidation: synthesis and effect of structure. <i>RSC Advances</i> , 2020, 10, 27428-27438.	3.6	4
8	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.	4.1	4
9	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.	3.6	39
10	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.	3.2	17
11	Effects of silica coating on the magnetic properties of magnetite nanoparticles. <i>Surfaces and Interfaces</i> , 2019, 14, 34-43.	3.0	51
12	Ethylene production via catalytic ethanol dehydration by 12-tungstophosphoric acid@ceria-zirconia. <i>Fuel</i> , 2019, 239, 491-501.	6.4	31
13	Effects of the dealumination methodology on the FER zeolite acidity: A study with fractional factorial design. <i>Molecular Catalysis</i> , 2018, 458, 139-144.	2.0	8
14	Comparative acidity of BEA and Y zeolite composites with 12-tungstophosphoric and 12-tungstosilicic acids. <i>Molecular Catalysis</i> , 2018, 458, 152-160.	2.0	17
15	Generation and characterization of catalytically active sites of heteropolyacids on zeolite Y for liquid-phase esterification. <i>Catalysis Today</i> , 2017, 289, 70-77.	4.4	25
16	Acidity and Characterization of 12-Tungstophosphoric Acid Supported on Silica-Alumina. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	7
17	Synthesis of poly(lactic acid) by heterogeneous acid catalysis from d,l-lactic acid. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	18
18	Solid-state dealumination of zeolites for use as catalysts in alcohol dehydration. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 50-57.	4.4	47

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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.	4.3	39
20	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.	4.5	8
21	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
22	Effect of Acidity, Structure, and Stability of Supported 12-Tungstophosphoric Acid on Catalytic Reactions. , 2013, , 165-187.		0
23	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.	5.4	11
24	Acidic characterization and activity of $(\text{NH}_4)_x\text{Cs}_{2.5-x}\text{H}_0.5\text{PW}_{12}\text{O}_{40}$ catalysts in the esterification reaction of oleic acid with ethanol. <i>Applied Catalysis A: General</i> , 2012, 443-444, 33-39.	4.3	23
25	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.	4.3	68
26	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.	4.3	21
27	Structural effects of $\text{WO}_3$ incorporation on USY zeolite and application to free fatty acids esterification. <i>Microporous and Mesoporous Materials</i> , 2012, 147, 142-148.	4.4	77
28	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.	4.4	21
29	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
30	Produção de biodiesel via transesterificação etélica com zeólitas básicas. <i>Quimica Nova</i> , 2012, 35, 119-123.	0.3	7
31	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
32	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.	4.4	33
33	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.	4.3	59
34	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.	2.7	0
35	Preparation and characterization of H3PW12O40 supported on niobia. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 103-111.	4.4	46
36	Esterification of oleic acid with ethanol by 12-tungstophosphoric acid supported on zirconia. <i>Applied Catalysis A: General</i> , 2010, 372, 153-161.	4.3	165

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37	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.	4.3	66
38	Phase transition in niobium pentoxide supported on silica-alumina. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 92, 851-855.	3.6	20
39	Esterification of acetic acid with alcohols using supported niobium pentoxide on silica-alumina catalysts. <i>Catalysis Today</i> , 2008, 133-135, 106-112.	4.4	30
40	Effects of niobium addition on ZSM-5 studied by thermal and spectroscopy methods. <i>Microporous and Mesoporous Materials</i> , 2008, 109, 485-493.	4.4	32
41	Synthesis and characterization of CuO/Nb <sub>2</sub> O <sub>5</sub> /MCM-41 for the catalytic oxidation of diesel soot. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 562-574.	4.4	9
42	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
43	Liquid phase calorimetry and adsorption analyses of zeolite beta acidity. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1584.	2.8	19
44	FT-Raman Spectroscopy Quantification of Biodiesel in a Progressive Soybean Oil Transesterification Reaction and Its Correlation with <sup>1</sup> H NMR Spectroscopy Methods. <i>Energy &amp; Fuels</i> , 2007, 21, 2475-2480.	5.1	106
45	Benzene transalkylation with C <sub>9</sub> + aromatics over supported 12-tungstophosphoric acid on silica catalysts. <i>Applied Catalysis A: General</i> , 2007, 328, 189-194.	4.3	21
46	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.	4.4	30
47	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.	6.2	38
48	Acidic Characterization of Copper Oxide and Niobium Pentoxide Supported on Silica-Alumina. <i>Catalysis Letters</i> , 2007, 119, 101-107.	2.6	15
49	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.	1.9	48
50	Stability studies of ZSM-5/polystyrene and Y/polystyrene composites. <i>Polymer Degradation and Stability</i> , 2005, 87, 153-160.	5.8	12
51	Solvent effect on the preparation of H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> supported on alumina. <i>Catalysis Today</i> , 2005, 107-108, 816-825.	4.4	47
52	Catalyst Materials Based on Nb <sub>2</sub> O <sub>5</sub> Supported on SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> : Preparation and Structural Characterization. <i>Chemistry of Materials</i> , 2005, 17, 690-695.	6.7	78
53	Multiple adsorption process description of zeolite mordenite acidity. <i>Microporous and Mesoporous Materials</i> , 2004, 72, 119-125.	4.4	24
54	Comparative adsorption studies of indigo carmine dye on chitin and chitosan. <i>Journal of Colloid and Interface Science</i> , 2004, 277, 43-47.	9.4	161

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55	Effects of cesium ion exchange on acidity of 12-tungstophosphoric acid. Microporous and Mesoporous Materials, 2004, 76, 221-232.	4.4	91
56	Calorimetric studies of the association of chitin and chitosan with sodium dodecyl sulfate. Colloids and Surfaces B: Biointerfaces, 2004, 35, 23-27.	5.0	28
57	A escolha da faixa espectral no uso combinado de métodos espectroscópicos e químicos. Química Nova, 2004, 27, 218-225.	0.3	14
58	Preparation and characterization of supported H3PW12O40 on silica gel: a potential catalyst for green chemistry processes. Catalysis Today, 2003, 85, 39-48.	4.4	74
59	Acidity measurements of zeolite Y by adsorption of several probes. Physical Chemistry Chemical Physics, 2003, 5, 5574.	2.8	25
60	Dehydration of 1-propanol using H3PW12O40 as catalyst. Dalton Transactions RSC, 2001, , 228-231.	2.3	26
61	A thermodynamic analysis of the CaléAd method with respect to gasésolid calorimetry. Microporous and Mesoporous Materials, 1999, 31, 205-209.	4.4	5
62	Acidity and Hydrophobicity of TS-1. Journal of Physical Chemistry B, 1998, 102, 1508-1514.	2.6	88
63	Calorimetric and Spectroscopic Investigation of the Acidity of HZSM-5. Journal of the American Chemical Society, 1997, 119, 4444-4452.	13.7	77
64	Catalytic Transformation Conditions of Ethanol on Dealuminated BEA Zeolites. Journal of the Brazilian Chemical Society, 0, , .	0.6	3