

Felipa Bautista

List of Publications by Year in descending order

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114
papers

2,322
citations

201674

27
h-index

289244

40
g-index

122
all docs

122
docs citations

122
times ranked

2101
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview on glycerol-free processes for the production of renewable liquid biofuels, applicable in diesel engines. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1437-1452.	16.4	96
2	Sustainable preparation of a novel glycerol-free biofuel by using pig pancreatic lipase: Partial 1,3-regiospecific alcoholysis of sunflower oil. <i>Process Biochemistry</i> , 2009, 44, 334-342.	3.7	78
3	Development of a new biodiesel that integrates glycerol, by using CaO as heterogeneous catalyst, in the partial methanolysis of sunflower oil. <i>Fuel</i> , 2014, 122, 94-102.	6.4	73
4	Influence of acid-base properties of catalysts in the gas-phase dehydration-dehydrogenation of cyclohexanol on amorphous AlPO ₄ and several inorganic solids. <i>Applied Catalysis A: General</i> , 2003, 243, 93-107.	4.3	71
5	Screening of amorphous metal-phosphate catalysts for the oxidative dehydrogenation of ethylbenzene to styrene. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 611-620.	20.2	69
6	Biodiesel at the Crossroads: A Critical Review. <i>Catalysts</i> , 2019, 9, 1033.	3.5	57
7	Production of a new second generation biodiesel with a low cost lipase derived from <i>Thermomyces lanuginosus</i> : Optimization by response surface methodology. <i>Catalysis Today</i> , 2011, 167, 107-112.	4.4	56
8	Selective ethanolysis of sunflower oil with Lipozyme RM IM, an immobilized <i>Rhizomucor miehei</i> lipase, to obtain a biodiesel-like biofuel, which avoids glycerol production through the monoglyceride formation. <i>New Biotechnology</i> , 2014, 31, 596-601.	4.4	53
9	Fluoride and Sulfate Treatment of AlPO ₄ -Al ₂ O ₃ Catalysts .I. Structure, Texture, Surface Acidity and Catalytic Performance in Cyclohexene Conversion and Cumene Cracking. <i>Journal of Catalysis</i> , 1994, 145, 107-125.	6.2	51
10	Structural and Textural Characterization of AlPO ₄ -B ₂ O ₃ and Al ₂ O ₃ -B ₂ O ₃ (5-30 wt% B ₂ O ₃) Systems Obtained by Boric Acid Impregnation. <i>Journal of Catalysis</i> , 1998, 173, 333-344.	6.2	50
11	1-Butanol dehydration on AlPO ₄ and modified AlPO ₄ : catalytic behaviour and deactivation. <i>Applied Catalysis A: General</i> , 1995, 130, 47-65.	4.3	48
12	Vanadium oxides supported on TiO ₂ -Sepiolite and Sepiolite: Preparation, structural and acid characterization and catalytic behaviour in selective oxidation of toluene. <i>Applied Catalysis A: General</i> , 2007, 325, 336-344.	4.3	48
13	Study on dry-media microwave azalactone synthesis on different supported KF catalysts: influence of textural and acid-base properties of supports. <i>Perkin Transactions II RSC</i> , 2002, , 227-234.	1.1	42
14	Acidity and catalytic activity of AlPO ₄ -B ₂ O ₃ and Al ₂ O ₃ -B ₂ O ₃ (5-30wt% B ₂ O ₃) systems prepared by impregnation. <i>Applied Catalysis A: General</i> , 1998, 170, 159-168.	4.3	40
15	Structure, Texture, Surface Acidity, and Catalytic Activity of AlPO ₄ -ZrO ₂ (5-50 wt% ZrO ₂) Catalysts Prepared by a Sol-Gel Procedure. <i>Journal of Catalysis</i> , 1998, 179, 483-494.	6.2	38
16	Etherification of glycerol with tert-butyl alcohol over sulfonated hybrid silicas. <i>Applied Catalysis A: General</i> , 2016, 526, 155-163.	4.3	37
17	N-Alkylation of Aniline with Methanol over CrPO ₄ and CrPO ₄ -AlPO ₄ (5-50 wt% AlPO ₄) Catalysts. <i>Journal of Catalysis</i> , 1997, 172, 103-109.	6.2	36
18	Properties of a glucose oxidase covalently immobilized on amorphous AlPO ₄ support. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 567-577.	1.8	36

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19	Covalent immobilization of porcine pancreatic lipase on amorphous AlPO ₄ and other inorganic supports. <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 72, 249-254.	3.2	35
20	Production of acrolein from glycerol in liquid phase on heterogeneous catalysts. <i>Chemical Engineering Journal</i> , 2015, 282, 179-186.	12.7	35
21	Covalent immobilization of acid phosphatase on amorphous AlPO ₄ support. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 6, 473-481.	1.8	34
22	A comprehensive study of reaction parameters in the enzymatic production of novel biofuels integrating glycerol into their composition. <i>Bioresource Technology</i> , 2010, 101, 6657-6662.	9.6	34
23	N-Alkylation of aniline with methanol over AlPO ₄ Al ₂ O ₃ catalysts. <i>Applied Catalysis A: General</i> , 1998, 166, 39-45.	4.3	33
24	New Biofuel Integrating Glycerol into Its Composition Through the Use of Covalent Immobilized Pig Pancreatic Lipase. <i>International Journal of Molecular Sciences</i> , 2012, 13, 10091-10112.	4.1	30
25	Technological challenges for the production of biodiesel in arid lands. <i>Journal of Arid Environments</i> , 2014, 102, 127-138.	2.4	29
26	AlPO ₄ -Al ₂ O ₃ catalysts with low-alumina content. <i>Applied Catalysis A: General</i> , 1993, 104, 109-135.	4.3	28
27	Influence of Ni—Cu alloying on Sepiolite-supported nickel catalysts in the liquid-phase selective hydrogenation of fatty acid ethyl esters. <i>Journal of Molecular Catalysis A</i> , 1996, 104, 229-235.	4.8	28
28	Biofuel that Keeps Glycerol as Monoglyceride by 1,3-Selective Ethanolysis with Pig Pancreatic Lipase Covalently Immobilized on AlPO ₄ Support. <i>Energies</i> , 2013, 6, 3879-3900.	3.1	27
29	Synthesis, Performance and Emission Quality Assessment of Ecodiesel from Castor Oil in Diesel/Biofuel/Alcohol Triple Blends in a Diesel Engine. <i>Catalysts</i> , 2019, 9, 40.	3.5	27
30	Production of a biodiesel-like biofuel without glycerol generation, by using Novozym 435, an immobilized <i>Candida antarctica</i> lipase. <i>Bioresources and Bioprocessing</i> , 2014, 1, .	4.2	26
31	Direct hydroxylation of benzene to phenol by nitrous oxide on amorphous aluminium-iron binary phosphates. <i>Applied Catalysis A: General</i> , 2014, 474, 272-279.	4.3	26
32	Biocatalytic Behaviour of Immobilized <i>Rhizopus oryzae</i> Lipase in the 1,3-Selective Ethanolysis of Sunflower Oil to Obtain a Biofuel Similar to Biodiesel. <i>Molecules</i> , 2014, 19, 11419-11439.	3.8	26
33	Vanadyl—aluminum binary phosphate: Al/V ratio influence on their structure and catalytic behavior in the 2-propanol conversion. <i>Catalysis Today</i> , 2003, 78, 269-280.	4.4	25
34	Diethyl Ether as an Oxygenated Additive for Fossil Diesel/Vegetable Oil Blends: Evaluation of Performance and Emission Quality of Triple Blends on a Diesel Engine. <i>Energies</i> , 2020, 13, 1542.	3.1	25
35	AlPO ₄ -supported nickel catalysts VIII. Support effects on the gas-phase dehydrogenation of alkylbenzenes. <i>Journal of Catalysis</i> , 1987, 107, 181-194.	6.2	24
36	Microwave-assisted etherification of glycerol with tert-butyl alcohol over amorphous organosilica-aluminum phosphates. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 42-52.	20.2	24

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37	Sulfonic Acid Functionalization of Different Zeolites and Their Use as Catalysts in the Microwave-Assisted Etherification of Glycerol with tert-Butyl Alcohol. <i>Molecules</i> , 2017, 22, 2206.	3.8	24
38	Biodiesel Is Dead: Long Life to Advanced Biofuels—A Comprehensive Critical Review. <i>Energies</i> , 2022, 15, 3173.	3.1	24
39	Efficient hydrogenation of alkenes using a highly active and reusable immobilised Ru complex on AlPO ₄ . <i>Journal of Molecular Catalysis A</i> , 2009, 308, 41-45.	4.8	23
40	Anion treatment (F ⁻ or SO ₄ ²⁻) of AlPO ₄ -Al ₂ O ₃ (25 wt.-% Al ₂ O ₃) catalysts. <i>Applied Catalysis A: General</i> , 1993, 99, 161-173.	4.3	22
41	Title is missing!. <i>Catalysis Letters</i> , 1998, 52, 205-213.	2.6	22
42	Heterogeneization of a new Ru(II) homogeneous asymmetric hydrogenation catalyst containing BINAP and the N-tridentate bpea ligand, through covalent attachment on amorphous AlPO ₄ support. <i>Topics in Catalysis</i> , 2006, 40, 193-205.	2.8	20
43	Gas-phase selective oxidation of chloro- and methoxy-substituted toluenes on TiO ₂ —Sepiolite supported vanadium oxides. <i>Applied Catalysis A: General</i> , 2009, 352, 251-258.	4.3	19
44	Study of the gas-phase glycerol oxidehydration on systems based on transition metals (Co, Fe, V) and aluminium phosphate. <i>Molecular Catalysis</i> , 2018, 455, 68-77.	2.0	19
45	Sulfonated carbons from olive stones as catalysts in the microwave-assisted etherification of glycerol with tert-butyl alcohol. <i>Molecular Catalysis</i> , 2020, 488, 110921.	2.0	19
46	Chromium—aluminium orthophosphates. Part 1.—Structure, texture, surface acidity and catalytic activity in cyclohexene skeletal isomerization and cumene conversion of CrPO ₄ —AlPO ₄ catalysts. <i>Journal of Materials Chemistry</i> , 1994, 4, 311-317.	6.7	18
47	Vanadium oxides supported on amorphous aluminum phosphate: Structural and chemical characterization and catalytic performance in the 2-propanol reaction. <i>Journal of Molecular Catalysis A</i> , 2016, 416, 105-116.	4.8	18
48	An Overview of the Production of Oxygenated Fuel Additives by Glycerol Etherification, Either with Isobutene or tert-Butyl Alcohol, over Heterogeneous Catalysts. <i>Energies</i> , 2019, 12, 2364.	3.1	18
49	Microwave-Assisted Glycerol Etherification Over Sulfonic Acid Catalysts. <i>Materials</i> , 2020, 13, 1584.	2.9	18
50	Kinetics and mechanism of catalytic oxydehydrogenation of alkylbenzenes. <i>Journal of Catalysis</i> , 1989, 116, 338-349.	6.2	17
51	AlPO ₄ -supported nickel catalysts IX. Liquid-phase selective hydrogenation of propargyl alcohols. <i>Journal of Catalysis</i> , 1990, 125, 171-186.	6.2	17
52	Outlook for Direct Use of Sunflower and Castor Oils as Biofuels in Compression Ignition Diesel Engines, Being Part of Diesel/Ethyl Acetate/Straight Vegetable Oil Triple Blends. <i>Energies</i> , 2020, 13, 4836.	3.1	17
53	Influence of the acid—base/redox properties of TiO _x -sepiolite supported vanadium oxide catalysts in the gas-phase selective oxidation of toluene. <i>Catalysis Today</i> , 2006, 112, 28-32.	4.4	16
54	Gas-phase selective oxidation of toluene on TiO ₂ —sepiolite supported vanadium oxides Influence of vanadium loading on conversion and product selectivities. <i>Catalysis Today</i> , 2007, 128, 183-190.	4.4	16

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55	Acetone Prospect as an Additive to Allow the Use of Castor and Sunflower Oils as Drop-In Biofuels in Diesel/Acetone/Vegetable Oil Triple Blends for Application in Diesel Engines. <i>Molecules</i> , 2020, 25, 2935.	3.8	16
56	The mechanism of liquid-phase catalytic hydrogenation of the olefinic double bond on supported nickel catalysts. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1989, , 493-498.	0.9	15
57	Catalytic behaviour of mesoporous metal phosphates in the gas-phase glycerol transformation. <i>Journal of Molecular Catalysis A</i> , 2016, 421, 92-101.	4.8	15
58	Effect of precipitation medium on surface acidity and catalytic performance of chromium orthophosphates in cyclohexene skeletal isomerization and cumene conversion. <i>Journal of Materials Chemistry</i> , 1993, 3, 975.	6.7	14
59	Chromium-aluminium orthophosphates. III. Acidity and catalytic performance in cyclohexene and cumene conversions on CrPO ₄ ·AlPO ₄ (20–50 wt.% AlPO ₄) catalysts obtained in aqueous ammonia. <i>Reaction Kinetics and Catalysis Letters</i> , 1994, 53, 55-63.	0.6	14
60	Structure, texture, acidity and catalytic performance of AlPO ₄ -caesium oxide catalysts in 2-methyl-3-butyn-2-ol conversion. <i>Journal of Materials Chemistry</i> , 1999, 9, 827-835.	6.7	14
61	A Biofuel Similar to Biodiesel Obtained by Using a Lipase from <i>Rhizopus oryzae</i> , Optimized by Response Surface Methodology. <i>Energies</i> , 2014, 7, 3383-3399.	3.1	14
62	Application of Enzymatic Extracts from a CALB Standard Strain as Biocatalyst within the Context of Conventional Biodiesel Production Optimization. <i>Molecules</i> , 2017, 22, 2025.	3.8	14
63	Porcine pancreatic lipase-catalyzed enantioselective hydrolysis of N-protected amino acid methyl-esters. <i>Amino Acids</i> , 1992, 2, 87-95.	2.7	13
64	AlPO ₄ -TiO ₂ catalysts. V. Vapor-phase Beckmann rearrangement of cyclohexanone oxime. <i>Studies in Surface Science and Catalysis</i> , 1993, 78, 615-622.	1.5	13
65	Performance and Emission Quality Assessment in a Diesel Engine of Straight Castor and Sunflower Vegetable Oils, in Diesel/Gasoline/Oil Triple Blends. <i>Energies</i> , 2019, 12, 2181.	3.1	13
66	AlPO ₄ catalyzed Diels-Alder reaction of cyclopentadiene with (-)-menthyl acrylate. Influence of catalyst surface properties. <i>Catalysis Letters</i> , 1996, 36, 215-221.	2.6	12
67	Production of a Biofuel that Keeps the Glycerol as a Monoglyceride by Using Supported KF as Heterogeneous Catalyst. <i>Energies</i> , 2014, 7, 3764-3780.	3.1	12
68	Influence of surface support properties on the liquid-phase hydrogenation of propargyl alcohols on AlPO ₄ -supported nickel catalysts. <i>Journal of Molecular Catalysis</i> , 1991, 67, 91-104.	1.2	11
69	Liquid-Phase Selective Hydrogenation of 1, 4-Butynediol on Supported Ni and Ni-Cu Catalysts.. <i>Studies in Surface Science and Catalysis</i> , 1991, 59, 269-276.	1.5	11
70	Title is missing!. <i>Catalysis Letters</i> , 1999, 60, 229-235.	2.6	11
71	Continuous flow toluene methylation over AlPO ₄ and AlPO ₄ -Al ₂ O ₃ catalysts. <i>Catalysis Letters</i> , 1994, 26, 159-167.	2.6	10
72	Synthesis of 1,3-dioxolanes catalysed by AlPO ₄ and AlPO ₄ -Al ₂ O ₃ : kinetic and mechanistic studies. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 815-822.	0.9	10

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73	Study of catalytic behaviour and deactivation of vanadyl-aluminum binary phosphates in selective oxidation of o-xylene. <i>Chemical Engineering Journal</i> , 2006, 120, 3-9.	12.7	10
74	Rhizomucor miehei Lipase Supported on Inorganic Solids, as Biocatalyst for the Synthesis of Biofuels: Improving the Experimental Conditions by Response Surface Methodology. <i>Energies</i> , 2019, 12, 831.	3.1	10
75	Biofuels from Diethyl Carbonate and Vegetable Oils for Use in Triple Blends with Diesel Fuel: Effect on Performance and Smoke Emissions of a Diesel Engine. <i>Energies</i> , 2020, 13, 6584.	3.1	10
76	Fourth generation synthesis of solketal by glycerol acetalization with acetone: A solar-light photocatalytic approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 125, 297-303.	5.3	10
77	Toluene methylation on AlPO ₄ -Al ₂ O ₃ catalysts (5% wt.% Al ₂ O ₃). <i>Reaction Kinetics and Catalysis Letters</i> , 1996, 57, 61-70.	0.6	9
78	N-methylation of aniline over AlPO ₄ and AlPO ₄ -metal oxide catalysts. <i>Studies in Surface Science and Catalysis</i> , 1997, , 123-130.	1.5	9
79	Phenol methylation over CrPO ₄ and CrPO ₄ -AlPO ₄ catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1997, 62, 47-54.	0.6	9
80	Acetonylacetone conversion on AlPO ₄ -cesium oxide (5% wt%) catalysts. <i>Catalysis Letters</i> , 1999, 60, 145-149.	2.6	9
81	Vanadyl-aluminum binary phosphate: Effect of thermal treatment over its structure and catalytic properties in selective oxidation of aromatic hydrocarbons. <i>Studies in Surface Science and Catalysis</i> , 2000, , 803-808.	1.5	9
82	Biochemical catalytic production of biodiesel. , 2016, , 165-199.		9
83	Insight into the gas-phase glycerol dehydration on transition metal modified aluminium phosphates and zeolites. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2661-2672.	3.2	9
84	Effect of precipitation medium and thermal treatment on structure and textural properties of chromium orthophosphates. <i>Reaction Kinetics and Catalysis Letters</i> , 1993, 49, 173-181.	0.6	8
85	Gas-phase catalytic oxydehydrogenation of ethylbenzene on AlPO ₄ catalysts. <i>Studies in Surface Science and Catalysis</i> , 1994, 82, 759-768.	1.5	8
86	Conversion of 2-propanol over chromium orthophosphates. <i>Reaction Kinetics and Catalysis Letters</i> , 1995, 55, 133-141.	0.6	8
87	Conversion of 2-propanol over chromium aluminum orthophosphates. <i>Catalysis Letters</i> , 1995, 35, 143-154.	2.6	8
88	Alkylation of phenol with dimethyl carbonate over AlPO ₄ , Al ₂ O ₃ and AlPO ₄ -Al ₂ O ₃ catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1998, 63, 261-269.	0.6	8
89	Optimization by response surface methodology of the reaction conditions in 1,3-selective transesterification of sunflower oil, by using CaO as heterogeneous catalyst. <i>Molecular Catalysis</i> , 2020, 484, 110804.	2.0	8
90	Fluoride treatment of AlPO ₄ -Al ₂ O ₃ catalysts. II. Poisoning experiments by bases for cyclohexene conversion and cumene cracking. <i>Catalysis Letters</i> , 1994, 24, 293-301.	2.6	7

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91	Chromium-aluminium orthophosphates, II. Effect of $AlPO_4$ loading on structure and texture of		
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109	Anion treatment (F ⁻ or SO ₄ ²⁻) of AlPO ₄ ·Al ₂ O ₃ (25 wt.% Al ₂ O ₃) catalysts. III. Anion effect on surface basic properties. Reaction Kinetics and Catalysis Letters, 1993, 49, 183-188.	0.6	1
110	Covalent immobilization of glucose oxidase on AlPO ₄ as inorganic support. Progress in Biotechnology, 1998, , 505-512.	0.2	1
111	Hydrogenation of α,β -Unsaturated Carbonyl Compounds over Covalently Heterogenized Ru(II) Diphosphine Complexes on AlPO ₄ -Sepiolite Supports. Catalysts, 2021, 11, 289.	3.5	1
112	AlPO ₄ -supported rhodium catalysts. VIII. Gas-phase adsorption of arenes by gas-chromatography. Reaction Kinetics and Catalysis Letters, 1986, 31, 327-332.	0.6	0
113	Production of glycerol-free and alternative biodiesels. , 2011, , 160-176.		0
114	Covalent immobilization of porcine pancreatic lipase on amorphous AlPO ₄ and other inorganic supports. Journal of Chemical Technology and Biotechnology, 1998, 72, 249-254.	3.2	0