Wagner Alves Carvalho

List of Publications by Year
in descending order

72 papers	2,377 citations	201674 27 h-index	214800 47 g-index
73 all docs	73 docs citations	73 times ranked	2802 citing authors

#	Article	IF	Citations
1	Mesoporous redox molecular sieves analogous to MCM-41. Zeolites, 1997, 18, 408-416.	0.5	173
2	Xylitol: A review on the progress and challenges of its production by chemical route. Catalysis Today, 2020, 344, 2-14.	4.4	156
3	Use of a La(III)-modified bentonite for effective phosphate removal from aqueous media. Journal of Hazardous Materials, 2014, 274, 124-131.	12.4	142
4	Why is it Interesting to Study Cyclohexane Oxidation?. Synlett, 1993, 1993, 713-718.	1.8	129
5	Removal of toxic metals from wastewater by Brazilian natural scolecite. Journal of Colloid and Interface Science, 2005, 281, 424-431.	9.4	122
6	Iron and copper immobilised on mesoporous MCM-41 molecular sieves as catalysts for the oxidation of cyclohexane. Journal of Molecular Catalysis A, 1999, 144, 91-99.	4.8	112
7	Mild homogeneous oxidation of alkanes and alcohols including glycerol with tert-butyl hydroperoxide catalyzed by a tetracopper(II) complex. Journal of Catalysis, 2010, 272, 9-17.	6.2	85
8	Preparation of Sulfonated Carbons from Rice Husk and Their Application in Catalytic Conversion of Glycerol. ACS Sustainable Chemistry and Engineering, 2013, 1, 1381-1389.	6.7	81
9	Highly selective acetalization of glycerol with acetone to solketal over acidic carbon-based catalysts from biodiesel waste. Fuel, 2016, 181, 46-54.	6.4	80
10	Removal of Mn(II) and Cd(II) from wastewaters by natural and modified clays. Adsorption, 2006, 12, 133-146.	3.0	69
11	Solvent-free conversion of glycerol to solketal catalysed by activated carbons functionalised with acid groups. Catalysis Science and Technology, 2014, 4, 2293-2301.	4.1	67
12	Effect of niobia and alumina as support for Pt catalysts in the hydrogenolysis of glycerol. Chemical Engineering Journal, 2012, 198-199, 457-467.	12.7	52
13	Ni(II) removal from aqueous effluents by silylated clays. Journal of Hazardous Materials, 2008, 153, 1240-1247.	12.4	51
14	Acetalization of acetone with glycerol catalyzed by niobium-aluminum mixed oxides synthesized by a solâ€“gel process. Journal of Molecular Catalysis A, 2016, 422, 122-130.	4.8	50
15	Glycerol Conversion Catalyzed by Carbons Prepared from Agroindustrial Wastes. Industrial & Engineering Chemistry Research, 2013, 52, 2832-2839.	3.7	49
16	Optimization of preparation conditions of activated carbon from agriculture waste utilizing factorial design. Powder Technology, 2014, 256, 175-181.	4.2	49
17	RemoÃ§Ã£o de metais pesados de efluentes aquosos pela zeÃ³lita natural escolecita - influÃªncia da temperatura e do pH na adsorÃ§Ã£o em sistemas monoelementares. Quimica Nova, 2004, 27, 734-738.	0.3	47
18	Removal of phenol in seawater by heterogeneous photocatalysis using activated carbon materials modified with TiO2. Catalysis Today, 2022, 388-389, 247-258.	4.4	47

#	Article	IF	Citations
19	Sulfonated niobia and pillared clay as catalysts in etherification reaction of glycerol. Applied Catalysis A: General, 2014, 478, 98-106.	4.3	46
20	Biodiesel wastes: An abundant and promising source for the preparation of acidic catalysts for utilization in etherification reaction. Chemical Engineering Journal, 2014, 256, 468-474.	12.7	46
21	High surface area, nanostructured boehmite and alumina catalysts: Synthesis and application in the sustainable epoxidation of alkenes. Applied Catalysis A: General, 2019, 571, 180-187.	4.3	43
22	Oxidation of alkanes with m-chloroperbenzoic acid catalyzed by iron(III) chloride and a polydentate amine. Journal of Molecular Catalysis A, 2004, 219, 255-264.	4.8	37
23	Adipic ester hydrogenation catalyzed by platinum supported in alumina, titania and pillared clays. Applied Catalysis A: General, 2008, 351, 259-266.	4.3	35
24	Carbon support treatment effect on Ru/C catalyst performance for benzene partial hydrogenation. Applied Catalysis A: General, 2011, 409-410, 174-180.	4.3	30
25	Insights of glycerol electrooxidation on polycrystalline silver electrode. Journal of Electroanalytical Chemistry, 2016, 780, 391-395.	3.8	29
26	Oxidation reactions catalyzed by osmium compounds. Part 4. Highly efficient oxidation of hydrocarbons and alcohols including glycerol by the H2O2/Os3(CO)12/pyridine reagent. RSC Advances, 2013, 3, 15065.	3.6	28
27	Glycerin waste as sustainable precursor for activated carbon production: Adsorption properties and application in supercapacitors. Journal of Environmental Chemical Engineering, 2019, 7, 103059.	6.7	28
28	Hydrogen Peroxide Oxygenation of Saturated and Unsaturated Hydrocarbons Catalyzed by Montmorillonite or Aluminum Oxide. Catalysis Letters, 2009, 132, 235-243.	2.6	27
29	Green acid catalyst obtained from industrial wastes for glycerol etherification. Fuel Processing Technology, 2015, 138, 695-703.	7.2	27
30	Fructose dehydration promoted by acidic catalysts obtained from biodiesel waste. Chemical Engineering Journal, 2018, 348, 860-869.	12.7	27
31	Nanostructured MFI-type zeolites as catalysts in glycerol etherification with tert -butyl alcohol. Journal of Molecular Catalysis A, 2016, 422, 115-121.	4.8	26
32	Oxidation of alkanes and benzene with hydrogen peroxide catalyzed by ferrocene in the presence of acids. Journal of Organometallic Chemistry, 2015, 793, 217-231.	1.8	25
33	Glycerol conversion into value-added products in presence of a green recyclable catalyst: Acid black carbon obtained from coffee ground wastes. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 294-301.	5.3	23
34	Transformations of terpenes and terpenoids <i>via</i> carbonâ€“carbon double bond metathesis. Catalysis Science and Technology, 2018, 8, 3989-4004.	4.1	23
35	Influence of Dimethylsulfoxide and Dioxygen in the Fructose Conversion to 5-Hydroxymethylfurfural Mediated by Glycerol's Acidic Carbon. Frontiers in Chemistry, 2020, 8, 263.	3.6	22
36	Support effect over bimetallic rutheniumâ€“promoter catalysts in hydrogenation reactions. Chemical Engineering Journal, 2010, 165, 336-346.	12.7	21

#	Article	IF	Citations
37	Evaluation of some supports to RuSn catalysts applied to dimethyl adipate hydrogenation. Catalysis Today, 2011, 172, 27-33.	4.4	18
38	The use of freshwater fish scale of the species Leporinus elongatus as adsorbent for anionic dyes. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1407-1412.	3.6	17
39	Rational production of highly acidic sulfonated carbons from kraft lignins employing a fractionation process combined with acid-assisted hydrothermal carbonization. Bioresource Technology, 2020, 303, 122882.	9.6	17
40	Solvent-free solketal production from glycerol promoted by yeast activated carbons. Fuel, 2021, 299, 120923.	6.4	16
41	Oxidation of hydroxyacetone (acetol) with hydrogen peroxide in acetonitrile solution catalyzed by iron(III) chloride. Journal of Molecular Catalysis A, 2016, 422, 103-114.	4.8	15
42	Activated carbon production from industrial yeast residue to boost up circular bioeconomy. Environmental Science and Pollution Research, 2021, 28, 24694-24705.	5.3	15
43	Dimethyl adipate hydrogenation at presence of Pt based catalysts. Catalysis Today, 2005, 107-108, 223-229.	4.4	14
44	Acidity control of ruthenium pillared clay and its application as a catalyst in hydrogenation reactions. Applied Catalysis A: General, 2009, 371, 131-141.	4.3	14
45	Research on zinc blood levels and nutritional status in adolescents with autoimmune hepatitis. Arquivos De Gastroenterologia, 2011, 48, 62-65.	0.8	12
46	Oxidations by the system â€˜hydrogen peroxideâ€“[Mn2L2O3]2+ (L =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (1,4,7-trimethyl-1,4	3.3	11
47	Oxidation of olefins with H2O2 catalyzed by gallium(III) nitrate and aluminum(III) nitrate in solution. Journal of Molecular Catalysis A, 2016, 422, 216-220.	4.8	11
48	RemoÃ§Ã£o de chumbo(II) em sistemas descontÃnuos por carvÃµes ativados com Ã¡cido fosfÃ³rico e com vapor. Quimica Nova, 2007, 30, 1911-1918.	0.3	11
49	Mixed-ligand aminoalcohol-dicarboxylate copper(II) coordination polymers as catalysts for the oxidative functionalization of cyclic alkanes and alkenes. Pure and Applied Chemistry, 2017, 89, 61-73.	1.9	9
50	Individual and competitive adsorption of ibuprofen and caffeine from primary sewage effluent by yeast-based activated carbon and magnetic carbon nanocomposite. Sustainable Chemistry and Pharmacy, 2022, 28, 100703.	3.3	9
51	Sulfated Pillared Clay as Catalyst in Glycerol Esterification with Caprylic Acid. Waste and Biomass Valorization, 2016, 7, 1279-1288.	3.4	8
52	The Removal of Heavy Metal Ions from Aqueous Effluents by Modified Clays: Retention of Cd(II) and Ni(II) Ions. Adsorption Science and Technology, 2007, 25, 673-692.	3.2	7
53	Glycerol valorization by base-free oxidation with air using platinumâ€“nickel nanoparticles supported on activated carbon as catalyst prepared by a simple microwave polyol method. Clean Technologies and Environmental Policy, 2018, 20, 2075-2088.	4.1	7
54	Valorization of Corncob by Hydrolysis-Hydrogenation to Obtain Xylitol Under Mild Conditions. Waste and Biomass Valorization, 2021, 12, 5109-5120.	3.4	6

#	Article	IF	Citations
55	Hydrogenolysis of glycerol to alcohols catalyzed by transition metals supported on pillared clay. Reaction Kinetics, Mechanisms and Catalysis, 2015, 115, 293-310.	1.7	5
56	Enhancing the biodiesel manufacturing process by use of glycerin to produce hyacinth fragrance. Clean Technologies and Environmental Policy, 2016, 18, 1551-1563.	4.1	5
57	The effect of additives (pyrazine, pyrazole and their derivatives) in the oxidation of 2-butanol with FeCl3â€'H2O2 in aqueous solutions. Catalysis Today, 2021, 381, 163-170.	4.4	5
58	Ultra-Fast Selective Fructose Dehydration Promoted by a Kraft Lignin Sulfonated Carbon Under Microwave Heating. Catalysis Letters, 2021, 151, 398-408.	2.6	5
59	Cross metathesis of (-)-Î²-pinene, (-)-limonene and terpenoids derived from limonene with internal olefins. Applied Catalysis A: General, 2021, 623, 118284.	4.3	5
60	RemoÃ§Ã£o de chumbo(II) em sistemas contÃnuos por carvÃ£o ativado com vapor. Quimica Nova, 2009, 32, 2318-2322.	0.3	4
61	Functionalization of (-)-Î²-pinene and (-)-limonene via cross metathesis with symmetrical internal olefins. Catalysis Communications, 2020, 135, 105893.	3.3	4
62	Uses of brazilian natural zeolite in the removal of toxic metal cations from wastewater. Studies in Surface Science and Catalysis, 2005, 158, 2105-2112.	1.5	3
63	Synthesis of Oxygenated Fuel Additives from Glycerol. , 0, , .		3
64	Selective hydrogenolysis of glycerol to propylene glycol in a continuous flow trickle bed reactor using copper chromite and Cu/Al2O3 catalysts. Quimica Nova, 2017, , .	0.3	3
65	UTILIZATION OF BIODIESEL WASTE FOR ACID CARBON PREPARATION WITH HIGH CATALYST ACTIVITY IN THE GLYCEROL ETHERIFICATION REACTION. Quimica Nova, 2015, , .	0.3	3
66	Cyclohexane Oxidation by the Goagg111 System: Formation of Iron (HYDR)Oxide Particles and Reactivation. Studies in Surface Science and Catalysis, 1994, , 647-652.	1.5	2
67	Preparation of shoot apex of Helianthus annuus L. for analysis with scanning electron microscope. Journal of Electron Microscopy, 1998, 47, 179-182.	0.9	2
68	Transformation of biomass derivatives in aqueous medium: Oxidation of ethanol from sugarcane and acetol from biodiesel glycerol catalyzed by Fe3+- H2O2. Molecular Catalysis, 2021, 500, 111307.	2.0	2
69	OxidaÃ§Ã£o de ciclohexano em fase gasosa catalisada por argilas pilarizadas com ferro e cromo. Ecletica Quimica, 2002, 27, 353-365.	0.5	2
70	Cadmium(II) adsorption by activated carbon: batch studies and reversibility. International Journal of Environmental Technology and Management, 2010, 12, 257.	0.2	1
71	PeruÃbe black mud based catalysts for the removal of organic pollutants in water. Journal of Sedimentary Environments, 2020, 5, 293-305.	1.5	1
72	Iron Nitrate Modified Cotton and Polyester Textile Fabric Applied for Reactive Dye Removal from Water Solution. Journal of the Brazilian Chemical Society, 0, , .	0.6	0