

Carla Eponina Hori

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,645
citations

218381

26
h-index

189595

50
g-index

81
all docs

81
docs citations

81
times ranked

2905
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal stability of oxygen storage properties in a mixed CeO ₂ -ZrO ₂ system. Applied Catalysis B: Environmental, 1998, 16, 105-117.	10.8	492
2	The effect of ceria content on the properties of Pd/CeO ₂ /Al ₂ O ₃ catalysts for steam reforming of methane. Applied Catalysis A: General, 2007, 316, 107-116.	2.2	141
3	Biodiesel production by free fatty acid esterification using lanthanum (La ³⁺) and HZSM-5 based catalysts. Bioresource Technology, 2013, 133, 248-255.	4.8	123
4	Removal of petroleum hydrocarbons from aqueous solution using sugarcane bagasse as adsorbent. Journal of Hazardous Materials, 2010, 175, 1106-1112.	6.5	109
5	Effect of different promoters on Ni/CeZrO ₂ catalyst for autothermal reforming and partial oxidation of methane. Chemical Engineering Journal, 2010, 156, 380-387.	6.6	102
6	Characterization of ceramic bricks incorporated with textile laundry sludge. Ceramics International, 2012, 38, 951-959.	2.3	83
7	The effects of La ₂ O ₃ on the structural properties of La ₂ O ₃ •Al ₂ O ₃ prepared by the sol-gel method and on the catalytic performance of Pt/La ₂ O ₃ •Al ₂ O ₃ towards steam reforming and partial oxidation of methane. Applied Catalysis B: Environmental, 2008, 84, 552-562.	10.8	75
8	Hydrodeoxygenation of phenol over Ni/Ce _{1-x} Nb _x O ₂ catalysts. Applied Catalysis B: Environmental, 2019, 245, 100-113.	10.8	72
9	Studies of the oxygen release reaction in the platinum-ceria-zirconia system. Catalysis Today, 1999, 50, 299-308.	2.2	69
10	Hydrodeoxygenation of phenol over zirconia supported Pd bimetallic catalysts. The effect of second metal on catalyst performance. Applied Catalysis B: Environmental, 2018, 232, 213-231.	10.8	65
11	Partial oxidation and autothermal reforming of methane on Pd/CeO ₂ •Al ₂ O ₃ catalysts. Applied Catalysis A: General, 2008, 348, 183-192.	2.2	64
12	Effect of Ce/Zr ratio on the performance of Pt/CeZrO ₂ /Al ₂ O ₃ catalysts for methane partial oxidation. Catalysis Today, 2005, 107-108, 734-740.	2.2	62
13	The effect of the use of cerium-doped alumina on the performance of Pt/CeO ₂ /Al ₂ O ₃ and Pt/CeZrO ₂ /Al ₂ O ₃ catalysts on the partial oxidation of methane. Applied Catalysis A: General, 2008, 335, 145-152.	2.2	56
14	Methane autothermal reforming on nickel-ceria-zirconia based catalysts. Catalysis Communications, 2009, 10, 1090-1094.	1.6	56
15	Understanding the stability of Co-supported catalysts during ethanol reforming as addressed by in situ temperature and spatial resolved XAFS analysis. Journal of Catalysis, 2012, 287, 124-137.	3.1	49
16	Hydrogen production from methane reforming: Thermodynamic assessment and autothermal reactor design. Journal of Natural Gas Science and Engineering, 2009, 1, 205-215.	2.1	47
17	Effect of CeO ₂ and La ₂ O ₃ on the Activity of CeO ₂ •La ₂ O ₃ /Al ₂ O ₃ -Supported Pd Catalysts for Steam Reforming of Methane. Catalysis Letters, 2008, 120, 86-94.	1.4	42
18	Hydrogen production by reforming of acetic acid using La•Ni type perovskites partially substituted with Sm and Pr. Catalysis Today, 2015, 242, 71-79.	2.2	42

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19	Partial oxidation of methane using Pt/CeZrO ₂ /Al ₂ O ₃ catalysts – effect of preparation methods. <i>Catalysis Today</i> , 2005, 101, 31-37.	2.2	41
20	Interplay between particle size, composition, and structure of MgAl ₂ O ₄ -supported Co–Cu catalysts and their influence on carbon accumulation during steam reforming of ethanol. <i>Journal of Catalysis</i> , 2013, 307, 222-237.	3.1	41
21	ReaxFF molecular dynamics study on the pyrolysis process of cyclohexanone. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 141, 104620.	2.6	41
22	Optimization of continuous esterification of oleic acid with ethanol over niobic acid. <i>Renewable Energy</i> , 2018, 115, 208-216.	4.3	39
23	Thermodynamic analysis and reaction routes of steam reforming of bio-oil aqueous fraction. <i>Renewable Energy</i> , 2015, 80, 166-176.	4.3	36
24	Partial oxidation of methane on Pt catalysts: Effect of the presence of ceria–zirconia mixed oxide and of metal content. <i>Applied Catalysis A: General</i> , 2009, 364, 122-129.	2.2	35
25	Steam reforming of acetic acid over MgAl ₂ O ₄ -supported Co and Ni catalysts: Effect of the composition of Ni/Co and reactants on reaction pathways. <i>Catalysis Today</i> , 2017, 296, 144-153.	2.2	32
26	Hydrogen production from steam and oxidative steam reforming of liquefied petroleum gas over cerium and strontium doped LaNiO ₃ catalysts. <i>Catalysis Today</i> , 2017, 289, 211-221.	2.2	32
27	Bi-reforming of methane for hydrogen production using LaNiO ₃ /Ce _x Zr _{1-x} O ₂ as precursor material. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13947-13959.	3.8	27
28	H ₂ production from CH ₄ decomposition: Regeneration capability and performance of nickel and rhodium oxide catalysts. <i>Journal of Power Sources</i> , 2008, 184, 265-275.	4.0	26
29	Hydrogen production through CO ₂ reforming of CH ₄ over Pt/CeZrO ₂ /Al ₂ O ₃ catalysts using a Pd–Ag membrane reactor. <i>Catalysis Today</i> , 2012, 193, 64-73.	2.2	25
30	Aqueous phase hydrogenation of phenol catalyzed by Pd and PdAg on ZrO ₂ . <i>Applied Catalysis A: General</i> , 2017, 548, 128-135.	2.2	24
31	Supercritical fluid extraction of oleoresin from <i>Capsicum annum</i> industrial waste. <i>Journal of Cleaner Production</i> , 2021, 297, 126593.	4.6	24
32	Study of glycerol etherification with ethanol in fixed bed reactor under high pressure. <i>Fuel Processing Technology</i> , 2018, 178, 1-6.	3.7	23
33	Syngas production by partial oxidation of methane over Pt/CeZrO ₂ /Al ₂ O ₃ catalysts. <i>Catalysis Today</i> , 2012, 180, 111-116.	2.2	22
34	ReaxFF Study of Ethanol Oxidation in O ₂ /N ₂ and O ₂ /CO ₂ Environments at High Temperatures. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 700-713.	2.5	22
35	Hydrogen production from oxidative reforming of methane on supported nickel catalysts: An experimental and modeling study. <i>Chemical Engineering Journal</i> , 2012, 197, 407-413.	6.6	20
36	Nickel supported catalysts for hydrogen production by reforming of ethanol as addressed by in situ temperature and spatial resolved XANES analysis. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3399-3413.	3.8	20

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37	Hydrodeoxygenation of phenol over metal supported niobia catalysts. <i>Renewable Energy</i> , 2020, 149, 198-207.	4.3	20
38	Hydrogen production by steam reforming of acetic acid using hydrotalcite type precursors. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7881-7892.	3.8	19
39	PRODUCTION OF HYDROGEN FROM THE STEAM AND OXIDATIVE REFORMING OF LPG: THERMODYNAMIC AND EXPERIMENTAL STUDY. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 647-662.	0.7	18
40	Steam Reforming of LPG over Ni/Al ₂ O ₃ and Ni/Ce _x Zr _{1-x} O ₂ /Al ₂ O ₃ Catalysts. <i>Catalysis Letters</i> , 2016, 146, 2229-2241.	1.4	18
41	Thermodynamic assessment of hydrogen production and cobalt oxidation susceptibility under ethanol reforming conditions. <i>Energy</i> , 2011, 36, 4385-4395.	4.5	17
42	Study of LPG steam reform using Ni/Mg/Al hydrotalcite-type precursors. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24471-24484.	3.8	17
43	Optimization of esterification reaction over niobium phosphate in a packed bed tubular reactor. <i>Renewable Energy</i> , 2019, 131, 348-355.	4.3	15
44	Optimization of glycerol etherification with ethanol in fixed bed reactor under various pressures. <i>Energy</i> , 2020, 207, 118301.	4.5	14
45	Partial oxidation of methane using Pt/CeZrO ₂ /Al ₂ O ₃ catalyst—Effect of the thermal treatment of the support. <i>Catalysis Today</i> , 2008, 133-135, 906-912.	2.2	13
46	Evaluation of different contribution methods over the performance of Peng-Robinson and CPA equation of state in the correlation of VLE of triglycerides, fatty esters and glycerol+CO ₂ and alcohol. <i>Fluid Phase Equilibria</i> , 2014, 362, 136-146.	1.4	13
47	Evaluation of the use of degummed soybean oil and supercritical ethanol for non-catalytic biodiesel production. <i>Journal of Supercritical Fluids</i> , 2015, 105, 21-28.	1.6	13
48	Optimization of Catalytic Glycerol Etherification with Ethanol in a Continuous Reactor. <i>Energy & Fuels</i> , 2017, 31, 5158-5164.	2.5	13
49	Extraction of corn germ oil with supercritical CO ₂ and cosolvents. <i>Journal of Food Science and Technology</i> , 2019, 56, 4448-4456.	1.4	13
50	Hydrogen production from methane steam reforming: parametric and gradient based optimization of Pd-based membrane reactor. <i>Optimization and Engineering</i> , 2010, 11, 441-458.	1.3	12
51	Combustion of Butyl Carbitol using Supported Palladium Catalysts. <i>Catalysis Letters</i> , 2008, 120, 229-235.	1.4	11
52	Application of computational chemistry methods to obtain thermodynamic data for hydrogen production from liquefied petroleum gas. <i>Brazilian Journal of Chemical Engineering</i> , 2013, 30, 83-93.	0.7	11
53	Cobalt supported on different zeolites for fischer-tropsch synthesis. <i>Studies in Surface Science and Catalysis</i> , 2007, , 129-134.	1.5	10
54	Interconnection between feed composition and Ni/Co ratio in (La-Ni-Co-O)-based perovskites and its effects on the stability of LPG steam reforming. <i>Applied Catalysis A: General</i> , 2018, 550, 184-197.	2.2	10

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55	Steam reforming of liquefied petroleum gas using catalysts supported on ceria-silica. International Journal of Hydrogen Energy, 2021, 46, 1801-1814.	3.8	10
56	Thermodynamic analysis of phenol hydrodeoxygenation reaction system in gas phase. Renewable Energy, 2019, 136, 365-372.	4.3	9
57	Hydrogen production by steam reforming of LPG using supported perovskite type precursors. International Journal of Hydrogen Energy, 2020, 45, 21166-21177.	3.8	9
58	Performance of Na ₂ CO ₃ -CaO sorbent in sorption-enhanced steam methane reforming. Journal of CO ₂ Utilization, 2021, 51, 101634.	3.3	9
59	Synthesis gas production by partial oxidation of methane on Pt/Al ₂ O ₃ , Pt/Ce-ZrO ₂ and Pt/Ce-ZrO ₂ /Al ₂ O ₃ catalysts. Studies in Surface Science and Catalysis, 2004, 147, 157-162.	1.5	8
60	Influence of the reaction products in the inversion of sucrose by invertase. Brazilian Journal of Chemical Engineering, 1999, 16, 149-153.	0.7	7
61	The effects of aging temperature and aging time on the oxygen storage capacity of Pt-Rh/CeZrO ₂ catalysts. Brazilian Journal of Chemical Engineering, 2001, 18, 23-33.	0.7	7
62	Reactor Evaluation of Ceria-Zirconia as an Oxygen Storage Material for Automotive Catalysts. , 0, , .		6
63	Thermal Decomposition and Solid Characterization of Calcium Oxide in Limestone Calcination. Materials Science Forum, 0, 591-593, 352-357.	0.3	6
64	Evaluation of supercritical carbon dioxide extraction to obtain bioactive compounds from Vernonia amygdalina Delile leaves. Chemical Industry and Chemical Engineering Quarterly, 2020, 26, 113-124.	0.4	6
65	Thermochemical data of the oleic acid esterification reaction: A quantum mechanics approach. Fluid Phase Equilibria, 2015, 406, 168-174.	1.4	5
66	Hydrogen production by steam reforming of propane using supported nickel over ceria-silica catalysts. Catalysis Today, 2021, 381, 3-12.	2.2	5
67	Experimental and modeling vapor-liquid equilibrium for the binary systems {ethanol(1)+glycerol(2)} and {tert-butanol(1)+glycerol(2)} at high pressures. Journal of Chemical Thermodynamics, 2018, 123, 46-50.	1.0	4
68	Study of Operational Conditions for the Precipitated Calcium Carbonate Production. Materials Science Forum, 0, 591-593, 526-530.	0.3	2
69	THE USE OF A HIGH LIMESTONE CONTENT MINING WASTE AS A SORBENT FOR CO ₂ CAPTURE. Brazilian Journal of Chemical Engineering, 2016, 33, 599-606.	0.7	2
70	Thermodynamic assessment of ethyl acetate production via ethanol dehydrogenation. Biomass Conversion and Biorefinery, 2017, 7, 59-67.	2.9	2
71	Modeling and Optimization of Ethanol to Ethylene Production over γ -Al ₂ O ₃ and CeZrO ₂ Catalysts Using RSM[1] Method. ChemistrySelect, 2022, 7, .	0.7	2
72	Effect of nickel loading on the performance of Ni/MgAl ₂ O ₄ catalysts for LPG steam reforming. Chemical Engineering Communications, 2020, , 1-15.	1.5	1

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73	O efeito da desativação térmica nas propriedades oxirredutoras e na atividade catalítica de catalisadores CZ e Pd-CZ. Química Nova, 2012, 35, 291-296.	0.3	1
74	The performance of pt/cezro2/al2o3 catalysts on the partial oxidation and autothermal reforming of methane. Studies in Surface Science and Catalysis, 2007, , 409-414.	1.5	0
75	The effect of pt loading and space velocity on the performance of Pt/CeZrO2/Al2O3 catalysts for the partial oxidation of methane. Studies in Surface Science and Catalysis, 2007, 167, 427-432.	1.5	0
76	Ni/CeZrO2-based catalysts for H2 production. Studies in Surface Science and Catalysis, 2007, 167, 487-492.	1.5	0
77	Optimization of the Production of Quicklime by Calcination in Rotary Kilns. Materials Science Forum, 2008, 591-593, 811-815.	0.3	0
78	Study and Optimization of Reaction of Hydration of Calcium Oxide to Produce Slaked Lime Suspension. Materials Science Forum, 2008, 591-593, 816-820.	0.3	0
79	Uso de aluminas comerciais como catalisadores para a produção de etileno a partir da desidratação do etanol. Brazilian Journal of Development, 2019, 5, 20348-20356.	0.0	0
80	Adsorption of CO2, N2, CH4, and their mixtures on silicalite: A critical evaluation of force fields. Chemical Industry and Chemical Engineering Quarterly, 2020, 26, 295-308.	0.4	0