

# Carla Eponina Hori

## List of Publications by Year in descending order

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80  
papers

2,645  
citations

218677  
26  
h-index

189892  
50  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Optimization of Ethanol to Ethylene Production over $\text{Al}_2\text{O}_3$ and $\text{CeZrO}_2$ Catalysts Using RSM[1] Method. ChemistrySelect, 2022, 7, .	1.5	2
2	Steam reforming of liquefied petroleum gas using catalysts supported on ceria-silica. International Journal of Hydrogen Energy, 2021, 46, 1801-1814.	7.1	10
3	Supercritical fluid extraction of oleoresin from Capsicum annum industrial waste. Journal of Cleaner Production, 2021, 297, 126593.	9.3	24
4	Performance of $\text{Na}_2\text{CO}_3$ -CaO sorbent in sorption-enhanced steam methane reforming. Journal of CO2 Utilization, 2021, 51, 101634.	6.8	9
5	Hydrogen production by steam reforming of propane using supported nickel over ceria-silica catalysts. Catalysis Today, 2021, 381, 3-12.	4.4	5
6	Hydrodeoxygenation of phenol over metal supported niobia catalysts. Renewable Energy, 2020, 149, 198-207.	8.9	20
7	Hydrogen production by steam reforming of LPG using supported perovskite type precursors. International Journal of Hydrogen Energy, 2020, 45, 21166-21177.	7.1	9
8	Effect of nickel loading on the performance of Ni/MgAl <sub>2</sub> O <sub>4</sub> catalysts for LPG steam reforming. Chemical Engineering Communications, 2020, , 1-15.	2.6	1
9	Bi-reforming of methane for hydrogen production using LaNiO <sub>3</sub> /Ce <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> as precursor material. International Journal of Hydrogen Energy, 2020, 45, 13947-13959.	7.1	27
10	Optimization of glycerol etherification with ethanol in fixed bed reactor under various pressures. Energy, 2020, 207, 118301.	8.8	14
11	ReaxFF Study of Ethanol Oxidation in $\text{O}_2/\text{N}_2$ and $\text{O}_2/\text{CO}_2$ Environments at High Temperatures. Journal of Chemical Information and Modeling, 2020, 60, 700-713.	5.4	22
12	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.	0.7	6
13	Adsorption of CO <sub>2</sub> , N <sub>2</sub> , CH <sub>4</sub> , and their mixtures on silicalite: A critical evaluation of force fields. Chemical Industry and Chemical Engineering Quarterly, 2020, 26, 295-308.	0.7	0
14	Optimization of esterification reaction over niobium phosphate in a packed bed tubular reactor. Renewable Energy, 2019, 131, 348-355.	8.9	15
15	Extraction of corn germ oil with supercritical CO <sub>2</sub> and cosolvents. Journal of Food Science and Technology, 2019, 56, 4448-4456.	2.8	13
16	Study of LPG steam reform using Ni/Mg/Al hydrotalcite-type precursors. International Journal of Hydrogen Energy, 2019, 44, 24471-24484.	7.1	17
17	ReaxFF molecular dynamics study on the pyrolysis process of cyclohexanone. Journal of Analytical and Applied Pyrolysis, 2019, 141, 104620.	5.5	41
18	Hydrodeoxygenation of phenol over Ni/Ce <sub>1-x</sub> Nb <sub>x</sub> O <sub>2</sub> catalysts. Applied Catalysis B: Environmental, 2019, 245, 100-113.	20.2	72

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19	Thermodynamic analysis of phenol hydrodeoxygenation reaction system in gas phase. Renewable Energy, 2019, 136, 365-372.	8.9	9
20	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.	0.1	0
21	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.	2.0	4
22	Hydrogen production by steam reforming of acetic acid using hydrotalcite type precursors. International Journal of Hydrogen Energy, 2018, 43, 7881-7892.	7.1	19
23	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.	20.2	65
24	Optimization of continuous esterification of oleic acid with ethanol over niobic acid. Renewable Energy, 2018, 115, 208-216.	8.9	39
25	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. Applied Catalysis A: General, 2018, 550, 184-197.	4.3	10
26	Study of glycerol etherification with ethanol in fixed bed reactor under high pressure. Fuel Processing Technology, 2018, 178, 1-6.	7.2	23
27	Steam reforming of acetic acid over MgAl <sub>2</sub> O <sub>4</sub> -supported Co and Ni catalysts: Effect of the composition of Ni/Co and reactants on reaction pathways. Catalysis Today, 2017, 296, 144-153.	4.4	32
28	Optimization of Catalytic Glycerol Etherification with Ethanol in a Continuous Reactor. Energy & Fuels, 2017, 31, 5158-5164.	5.1	13
29	Aqueous phase hydrogenation of phenol catalyzed by Pd and PdAg on ZrO <sub>2</sub> . Applied Catalysis A: General, 2017, 548, 128-135.	4.3	24
30	Hydrogen production from steam and oxidative steam reforming of liquefied petroleum gas over cerium and strontium doped LaNiO <sub>3</sub> catalysts. Catalysis Today, 2017, 289, 211-221.	4.4	32
31	Thermodynamic assessment of ethyl acetate production via ethanol dehydrogenation. Biomass Conversion and Biorefinery, 2017, 7, 59-67.	4.6	2
32	THE USE OF A HIGH LIMESTONE CONTENT MINING WASTE AS A SORBENT FOR CO <sub>2</sub> CAPTURE. Brazilian Journal of Chemical Engineering, 2016, 33, 599-606.	1.3	2
33	Nickel supported catalysts for hydrogen production by reforming of ethanol as addressed by in situ temperature and spatial resolved XANES analysis. International Journal of Hydrogen Energy, 2016, 41, 3399-3413.	7.1	20
34	Steam Reforming of LPG over Ni/Al <sub>2</sub> O <sub>3</sub> and Ni/CexZr <sub>1-x</sub> O <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Catalysts. Catalysis Letters, 2016, 146, 2229-2241.	2.8	18
35	PRODUCTION OF HYDROGEN FROM THE STEAM AND OXIDATIVE REFORMING OF LPG: THERMODYNAMIC AND EXPERIMENTAL STUDY. Brazilian Journal of Chemical Engineering, 2015, 32, 647-662.	1.3	18
36	Thermochemical data of the oleic acid esterification reaction: A quantum mechanics approach. Fluid Phase Equilibria, 2015, 406, 168-174.	2.5	5

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37	Thermodynamic analysis and reaction routes of steam reforming of bio-oil aqueous fraction. <i>Renewable Energy</i> , 2015, 80, 166-176.	8.9	36
38	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.	3.2	13
39	Hydrogen production by reforming of acetic acid using La <sup>3+</sup> /Ni type perovskites partially substituted with Sm and Pr. <i>Catalysis Today</i> , 2015, 242, 71-79.	4.4	42
40	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 <sub>2</sub> and alcohol. <i>Fluid Phase Equilibria</i> , 2014, 362, 136-146.	2.5	13
41	Interplay between particle size, composition, and structure of MgAl <sub>2</sub> O <sub>4</sub> -supported Co-Cu catalysts and their influence on carbon accumulation during steam reforming of ethanol. <i>Journal of Catalysis</i> , 2013, 307, 222-237.	6.2	41
42	Biodiesel production by free fatty acid esterification using lanthanum (La <sup>3+</sup> ) and HZSM-5 based catalysts. <i>Bioresource Technology</i> , 2013, 133, 248-255.	9.6	123
43	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.	1.3	11
44	Hydrogen production through CO <sub>2</sub> reforming of CH <sub>4</sub> over Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts using a Pd-Ag membrane reactor. <i>Catalysis Today</i> , 2012, 193, 64-73.	4.4	25
45	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.	12.7	20
46	Syngas production by partial oxidation of methane over Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Catalysis Today</i> , 2012, 180, 111-116.	4.4	22
47	Characterization of ceramic bricks incorporated with textile laundry sludge. <i>Ceramics International</i> , 2012, 38, 951-959.	4.8	83
48	Understanding the stability of Co-supported catalysts during ethanol reforming as addressed by in situ temperature and spatial resolved XAFS analysis. <i>Journal of Catalysis</i> , 2012, 287, 124-137.	6.2	49
49	O efeito da desativação térmica nas propriedades oxirredutoras e na atividade catalítica de catalisadores CZ e Pd-CZ. <i>Química Nova</i> , 2012, 35, 291-296.	0.3	1
50	Thermodynamic assessment of hydrogen production and cobalt oxidation susceptibility under ethanol reforming conditions. <i>Energy</i> , 2011, 36, 4385-4395.	8.8	17
51	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.	2.4	12
52	Removal of petroleum hydrocarbons from aqueous solution using sugarcane bagasse as adsorbent. <i>Journal of Hazardous Materials</i> , 2010, 175, 1106-1112.	12.4	109
53	Effect of different promoters on Ni/CeZrO <sub>2</sub> catalyst for autothermal reforming and partial oxidation of methane. <i>Chemical Engineering Journal</i> , 2010, 156, 380-387.	12.7	102
54	Hydrogen production from methane reforming: Thermodynamic assessment and autothermal reactor design. <i>Journal of Natural Gas Science and Engineering</i> , 2009, 1, 205-215.	4.4	47

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55	Partial oxidation of methane on Pt catalysts: Effect of the presence of ceria-zirconia mixed oxide and of metal content. Applied Catalysis A: General, 2009, 364, 122-129.	4.3	35
56	Methane autothermal reforming on nickel-ceria-zirconia based catalysts. Catalysis Communications, 2009, 10, 1090-1094.	3.3	56
57	H <sub>2</sub> production from CH <sub>4</sub> decomposition: Regeneration capability and performance of nickel and rhodium oxide catalysts. Journal of Power Sources, 2008, 184, 265-275.	7.8	26
58	Effect of CeO <sub>2</sub> and La <sub>2</sub> O <sub>3</sub> on the Activity of CeO <sub>2</sub> -La <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> -Supported Pd Catalysts for Steam Reforming of Methane. Catalysis Letters, 2008, 120, 86-94.	2.6	42
59	Combustion of Butyl Carbitol using Supported Palladium Catalysts. Catalysis Letters, 2008, 120, 229-235.	2.6	11
60	The effect of the use of cerium-doped alumina on the performance of Pt/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> and Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts on the partial oxidation of methane. Applied Catalysis A: General, 2008, 335, 145-152.	4.3	56
61	Partial oxidation and autothermal reforming of methane on Pd/CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> catalysts. Applied Catalysis A: General, 2008, 348, 183-192.	4.3	64
62	The effects of La <sub>2</sub> O <sub>3</sub> on the structural properties of La <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> prepared by the sol-gel method and on the catalytic performance of Pt/La <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> towards steam reforming and partial oxidation of methane. Applied Catalysis B: Environmental, 2008, 84, 552-562.	20.2	75
63	Partial oxidation of methane using Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts—Effect of the thermal treatment of the support. Catalysis Today, 2008, 133-135, 906-912.	4.4	13
64	Optimization of the Production of Quicklime by Calcination in Rotary Kilns. Materials Science Forum, 2008, 591-593, 811-815.	0.3	0
65	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
66	The performance of Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts on the partial oxidation and autothermal reforming of methane. Studies in Surface Science and Catalysis, 2007, , 409-414.	1.5	0
67	The effect of Pt loading and space velocity on the performance of Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for the partial oxidation of methane. Studies in Surface Science and Catalysis, 2007, 167, 427-432.	1.5	0
68	Ni/CeZrO <sub>2</sub> -based catalysts for H <sub>2</sub> production. Studies in Surface Science and Catalysis, 2007, 167, 487-492.	1.5	0
69	Cobalt supported on different zeolites for Fischer-Tropsch synthesis. Studies in Surface Science and Catalysis, 2007, , 129-134.	1.5	10
70	The effect of ceria content on the properties of Pd/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for steam reforming of methane. Applied Catalysis A: General, 2007, 316, 107-116.	4.3	141
71	Partial oxidation of methane using Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts — effect of preparation methods. Catalysis Today, 2005, 101, 31-37.	4.4	41
72	Effect of Ce/Zr ratio on the performance of Pt/CeZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for methane partial oxidation. Catalysis Today, 2005, 107-108, 734-740.	4.4	62

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73	Synthesis gas production by partial oxidation of methane on Pt/Al <sub>2</sub> O <sub>3</sub> , Pt/Ce-ZrO <sub>2</sub> and Pt/Ce-ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. Studies in Surface Science and Catalysis, 2004, 147, 157-162.	1.5	8
74	The effects of aging temperature and aging time on the oxygen storage capacity of Pt-Rh/CeZrO <sub>2</sub> catalysts. Brazilian Journal of Chemical Engineering, 2001, 18, 23-33.	1.3	7
75	Studies of the oxygen release reaction in the platinum-“ceria”-zirconia system. Catalysis Today, 1999, 50, 299-308.	4.4	69
76	Influence of the reaction products in the inversion of sucrose by invertase. Brazilian Journal of Chemical Engineering, 1999, 16, 149-153.	1.3	7
77	Thermal stability of oxygen storage properties in a mixed CeO <sub>2</sub> -ZrO <sub>2</sub> system. Applied Catalysis B: Environmental, 1998, 16, 105-117.	20.2	492
78	Reactor Evaluation of Ceria-Zirconia as an Oxygen Storage Material for Automotive Catalysts. , 0, , .		6
79	Study of Operational Conditions for the Precipitated Calcium Carbonate Production. Materials Science Forum, 0, 591-593, 526-530.	0.3	2
80	Thermal Decomposition and Solid Characterization of Calcium Oxide in Limestone Calcination. Materials Science Forum, 0, 591-593, 352-357.	0.3	6