Mariana M V M Souza

List of Publications by Citations

94 papers	2,765 citations	30 h-index	50 g-index
101 ext. papers	3,071 ext. citations	4.6 avg, IF	5.46 L-index

#	Paper	IF	Citations
94	Carbon formation and its influence on ethanol steam reforming over Ni/Al2O3 catalysts. *Catalysis Today*, **2007**, 123, 257-264	5.3	195
93	Study of Ni and Pt catalysts supported on Al2O3 and ZrO2 applied in methane reforming with CO2. *Applied Catalysis A: General*, **2007**, 316, 175-183	5.1	170
92	Reforming of Methane with Carbon Dioxide over Pt/ZrO2/Al2O3 Catalysts. *Journal of Catalysis*, **2001**, 204, 498-511	7.3	146
91	Biodiesel production from soybean oil and methanol using hydrotalcites as catalyst. *Fuel Processing Technology*, **2010**, 91, 205-210	7.2	109
90	Autothermal reforming of methane over Pt/ZrO2/Al2O3 catalysts. *Applied Catalysis A: General*, **2005**, 281, 19-24	5.1	98
89	Steam reforming of model gasification tar compounds over nickel catalysts prepared from hydrotalcite precursors. *Fuel Processing Technology*, **2014**, 121, 76-82	7.2	90
88	Hydrogen production by aqueous-phase reforming of glycerol over nickel catalysts supported on CeO2. *Fuel Processing Technology*, **2011**, 92, 330-335	7.2	90
87	Methane oxidation â effect of support, precursor and pretreatment conditions â in situ reaction XPS and DRIFT. *Catalysis Today*, **2006**, 118, 392-401	5.3	76
86	Copper as promoter of the NiOâ CeO2 catalyst in the preferential CO oxidation. *Applied Catalysis B: Environmental*, **2016**, 182, 257-265	21.8	75
85	Hydrogenolysis of glycerol to propylene glycol in continuous system without hydrogen addition over Cu-Ni catalysts. *Applied Catalysis B: Environmental*, **2018**, 220, 31-41	21.8	75
84	Hydrogen production by aqueous-phase reforming of ethanol over nickel catalysts prepared from hydrotalcite precursors. *Catalysis Communications*, **2008**, 9, 2606-2611	3.2	68
83	Combination of carbon dioxide reforming and partial oxidation of methane over supported platinum catalysts. *Applied Catalysis A: General*, **2003**, 255, 83-92	5.1	66
82	Production of renewable hydrogen by aqueous-phase reforming of glycerol over Niâ u catalysts derived from hydrotalcite precursors. *Renewable Energy*, **2013**, 50, 408-414	8.1	65
81	Synthesis of NiAl2O4 with high surface area as precursor of Ni nanoparticles for hydrogen production. *International Journal of Hydrogen Energy*, **2010**, 35, 11725-11732	6.7	64
80	Combustion synthesis of La0.7Sr0.3Co0.5Fe0.5O3 (LSCF) porous materials for application as cathode in IT-SOFC. *Materials Research Bulletin*, **2011**, 46, 308-314	5.1	63
79	Influence of the support in selective CO oxidation on Pt catalysts for fuel cell applications. *International Journal of Hydrogen Energy*, **2007**, 32, 425-429	6.7	55
78	Activation of supported nickel catalysts for carbon dioxide reforming of methane. *Applied Catalysis A: General*, **2004**, 272, 133-139	5.1	55

77	Synthesis of 5-hydroxymethylfurfural from fructose catalyzed by phosphotungstic acid. *Catalysis Today*, **2017**, 279, 296-304	5.3	53
76	Steam reforming of tar using toluene as a model compound with nickel catalysts supported on hexaaluminates. *Applied Catalysis A: General*, **2014**, 478, 234-240	5.1	50
75	Aqueous-phase reforming of glycerol using Ni–Cu catalysts prepared from hydrotalcite-like precursors. *Catalysis Science and Technology*, **2013**, 3, 1278	5.5	46
74	PRODUCTION OF 5-HYDROXYMETHYLFURFURAL (HMF) VIA FRUCTOSE DEHYDRATION: EFFECT OF SOLVENT AND SALTING-OUT. *Brazilian Journal of Chemical Engineering*, **2015**, 32, 119-126	1.7	42
73	Partial oxidation of methane over Ni–Co perovskite catalysts. *Catalysis Communications*, **2011**, 12, 665-668	3.2	42
72	Influence of the synthesis method on the porosity, microstructure and electrical properties of La0.7Sr0.3MnO3 cathode materials. *Materials Characterization*, **2009**, 60, 1417-1423	3.9	41
71	Selective CO oxidation in the presence of H2 over Pt and Pt-Sn catalysts supported on niobia. *Journal of Power Sources*, **2006**, 158, 504-508	8.9	41
70	Investigating the microstructure and catalytic properties of Ni/YSZ cermets as anodes for SOFC applications. *Applied Catalysis A: General*, **2009**, 353, 305-309	5.1	39
69	Combustion synthesis of copper catalysts for selective CO oxidation. *Journal of Power Sources*, **2008**, 179, 329-334	8.9	38
68	Selective CO oxidation with nano gold particles-based catalysts over Al2O3 and ZrO2. *Applied Catalysis A: General*, **2008**, 347, 62-71	5.1	37
67	Continuous production of lactic acid from glycerol in alkaline medium using supported copper catalysts. *Fuel Processing Technology*, **2016**, 144, 170-180	7.2	35
66	Effect of propellant on the combustion synthesized Sr-doped LaMnO3 powders. *Ceramics International*, **2009**, 35, 1683-1687	5.1	33
65	Ethanol reforming and partial oxidation with Cu/Nb2O5 catalyst. *Catalysis Today*, **2009**, 142, 252-257	5.3	32
64	Perovskite-based catalysts for tar removal by steam reforming: Effect of the presence of hydrogen sulfide. *International Journal of Hydrogen Energy*, **2017**, 42, 9873-9880	6.7	30
63	Methane Conversion to Synthesis Gas by Partial Oxidation and CO2 Reforming over Supported Platinum Catalysts. *Catalysis Letters*, **2003**, 91, 11-17	2.8	29
62	Hydrogen production from glycerol steam reforming over nickel catalysts supported on alumina and niobia: Deactivation process, effect of reaction conditions and kinetic modeling. *International Journal of Hydrogen Energy*, **2018**, 43, 15064-15082	6.7	29
61	Application of Brazilian dolomites and mixed oxides as catalysts in tar removal system. *Applied Catalysis A: General*, **2017**, 536, 1-8	5.1	28
60	Coke Formation on Pt/ZrO2/Al2O3 Catalysts during CH4 Reforming with CO2. *Industrial & Engineering Chemistry Research*, **2002**, 41, 4681-4685	3.9	28

59	Effect of the fuel type on the synthesis of yttria stabilized zirconia by combustion method. *Ceramics International*, **2009**, 35, 3441-3446	5.1	24
58	Drifts and TPD analyses of ethanol on Pt catalysts over Al2O3 and ZrO2â Partial oxidation of ethanol. *Canadian Journal of Chemical Engineering*, **2011**, 89, 1166-1175	2.3	23
57	Synthesis Gas Production from Natural Gas on Supported Pt Catalysts. *Journal of Natural Gas Chemistry*, **2006**, 15, 21-27		23
56	Hydrogenolysis of glycerol to 1,2-propanediol without external H2 addition in alkaline medium using Ni-Cu catalysts supported on Y zeolite. *Renewable Energy*, **2020**, 160, 919-930	8.1	21
55	La0.7Sr0.3MnO3-coated SS444 alloy by dip-coating process for metallic interconnect supported Solid Oxide Fuel Cells. *Journal of Power Sources*, **2013**, 241, 159-167	8.9	20
54	Coking resistance evaluation of tar removal catalysts. *Catalysis Communications*, **2015**, 71, 79-83	3.2	20
53	Copper-based catalysts prepared from hydrotalcite precursors for shift reaction at low temperatures. *Catalysis Today*, **2008**, 133-135, 750-754	5.3	19
52	Steam Reforming of Tar Model Compounds Over Nickel Catalysts Supported on Barium Hexaaluminate. *Catalysis Letters*, **2015**, 145, 541-548	2.8	18
51	Lactic acid production from glycerol in alkaline medium using Pt-based catalysts in continuous flow reaction system. *Renewable Energy*, **2018**, 118, 160-171	8.1	18
50	Production of Renewable Hydrogen by Glycerol Steam Reforming Using NiâCuâMgâAl Mixed Oxides Obtained from Hydrotalcite-like Compounds. *Catalysis Letters*, **2014**, 144, 867-877	2.8	17
49	Incorporation of cerium ions by sonication in NiâMgâAl layered double hydroxides. *Applied Clay Science*, **2010**, 48, 542-546	5.2	16
48	Effect of niobia addition on cobalt catalysts supported on alumina for glycerol steam reforming. *Renewable Energy*, **2020**, 148, 864-875	8.1	16
47	Steam Reforming of Methane Over Catalyst Derived from Ordered Double Perovskite: Effect of Crystalline Phase Transformation. *Catalysis Letters*, **2016**, 146, 47-53	2.8	15
46	Synthesis of La1âSrxMnO3 powders by polymerizable complex method: Evaluation of structural, morphological and electrical properties. *Ceramics International*, **2011**, 37, 2229-2236	5.1	15
45	Removal of boron from oilfield wastewater via adsorption with synthetic layered double hydroxides. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2014**, 49, 923-32	2.3	14
44	Structural Transformation of CuâMgâAl Mixed Oxide Catalysts Derived from Hydrotalcites During Shift Reaction. *Catalysis Letters*, **2009**, 132, 58-63	2.8	14
43	Palladium supported on clays to catalytic deoxygenation of soybean fatty acids. *Applied Clay Science*, **2014**, 95, 388-395	5.2	13
42	The effect of support on methane activation over Pt catalysts in the presence of MoO3. *Applied Catalysis A: General*, **2007**, 318, 207-212	5.1	13

41	CO2 capture by Mgâ Al and Znâ Al hydrotalcite-like compounds. *Adsorption*, **2016**, 22, 151-158	2.6	12
40	Production of synthesis gas from natural gas using ZrO2-supported platinum. *Studies in Surface Science and Catalysis*, **2004**, 147, 133-138	1.8	12
39	Effect of CaO Addition on Nickel Catalysts Supported on Alumina for Glycerol Steam Reforming. *Catalysis Letters*, **2019**, 149, 1991-2003	2.8	11
38	Surface Characterization of Zirconia-Coated Alumina as Support for Pt Particles. *Physica Status Solidi A*, **2001**, 187, 297-303		11
37	Structural and electrical properties of La0.7Sr0.3Co0.5Fe0.5O3 powders synthesized by solid state reaction. *Ceramics International*, **2013**, 39, 7975-7982	5.1	10
36	Synthesis of La0.7Sr0.3MnO3 thin films supported on Feâ Cr alloy by solâ gel/dip-coating process: Evaluation of deposition parameters. *Thin Solid Films*, **2013**, 534, 218-225	2.2	10
35	Thin films of La0.7Sr0.3MnO3â dip-coated on Feâ Cr alloys for SOFC metallic interconnect. *International Journal of Hydrogen Energy*, **2013**, 38, 15335-15347	6.7	10
34	Sí ntese de pó de LaMnO3 e LaCrO3 dopados com Sr pelo mé todo de combustã o: caracterizaçã o estrutural e avaliaçã o termodinâ mica. *Ceramica*, **2012**, 58, 521-528	1	10
33	Synthesis of Sr-doped LaCrO3 powders by combustion method. *Journal of Thermal Analysis and Calorimetry*, **2012**, 109, 33-38	4.1	10
32	Effect of alkaline earth oxides on nickel catalysts supported over â alumina for butanol steam reforming: Coke formation and deactivation process. *International Journal of Hydrogen Energy*, **2020**, 45, 22906-22920	6.7	10
31	Effect of Doping Niobia over Ni/Al2O3 Catalysts for Methane Steam Reforming. *Catalysis Letters*, **2018**, 148, 1478-1489	2.8	9
30	Coking Study of Nickel Catalysts Using Model Compounds. *Catalysis Letters*, **2016**, 146, 1435-1444	2.8	8
29	Production of hydrogen from steam reforming of glycerol using nickel catalysts supported on Al2O3, CeO2 and ZrO2. *Catalysis for Sustainable Energy*, **2013**, 1,	0.6	8
28	An evaluation of calcined hydrocalumite as carbon dioxide adsorbent using thermogravimetric analysis. *Applied Clay Science*, **2019**, 182, 105252	5.2	6
27	Characterization of yttria-stabilized zirconia films deposited by dip-coating on La0.7Sr0.3MnO3 substrate: Influence of synthesis parameters. *Journal of Advanced Ceramics*, **2013**, 2, 55-62	10.7	6
26	Study of the mechanism of the autothermal reforming of methane on supported Pt catalysts. *Studies in Surface Science and Catalysis*, **2004**, 147, 253-258	1.8	6
25	Methane activation on alumina supported platinum, palladium, ruthenium and rhodium catalysts. *Studies in Surface Science and Catalysis*, **2004**, 147, 643-648	1.8	6
24	B-cation partial substitution of double perovskite La2NiTiO6 by Co2 +: Effect on crystal structure, reduction behavior and catalytic activity. *Catalysis Communications*, **2017**, 97, 93-97	3.2	5

23	Effect of Pt/HZSM-5 dealumination by high temperature reduction on glycerol oxidation. *Journal of Porous Materials*, **2020**, 27, 707-717	2.4	5
22	Investigation of activity losses of gold nanoparticles in the CO selective oxidation. *Journal of Power Sources*, **2010**, 195, 7386-7390	8.9	5
21	Glycerol carbonate production from transesterification of glycerol with diethyl carbonate catalyzed by Ca/Al-mixed oxides derived from hydrocalumite. *Biomass Conversion and Biorefinery*, **2020**, 1	2.3	5
20	Phosphotungstic acid on activated carbon: A remarkable catalyst for 5-hydroxymethylfurfural production. *Molecular Catalysis*, **2021**, 500, 111334	3.3	5
19	Combined DFT and experimental study of the dispersion and interaction of copper species in Ni-CeO2 nanosized solid solutions. *RSC Advances*, **2016**, 6, 5057-5067	3.7	4
18	Effect of Magnesia Addition in Stability of Cobalt Catalysts Supported on Alumina for Hydrogen Generation by Glycerol Steam Reforming. *Catalysis Letters*, **2021**, 151, 980-992	2.8	4
17	Solid-state Synthesis of La0.7Sr0.3MnO3 Powders using Different Grinding Times. *ECS Transactions*, **2009**, 25, 2301-2308	1	3
16	Autothermal reforming of methane over nickel catalysts prepared from hydrotalcite-like compounds. *Studies in Surface Science and Catalysis*, **2007**, 167, 451-456	1.8	3
15	Hydrogen production from steam reforming of acetic acid over Pt–Ni bimetallic catalysts supported on ZrO2. *Biomass and Bioenergy*, **2022**, 156, 106317	5.3	3
14	OPTIMIZATION OF PRODUCTION OF 5-HYDROXYMETHYLFURFURAL FROM GLUCOSE IN A WATER: ACETONE BIPHASIC SYSTEM. *Brazilian Journal of Chemical Engineering*, **2015**, 32, 501-508	1.7	2
13	TAR REMOVAL FROM BIOMASS GASIFICATION STREAMS: PROCESSES AND CATALYSTS. *Quimica Nova*, **2014**, 37,	1.6	2
12	Interpretation of kinetic data with selected characterizations of active sites. *Catalysis Today*, **2005**, 100, 145-150	5.3	2
11	Stability of Ni catalysts promoted with niobia for butanol steam reforming. *Biomass and Bioenergy*, **2020**, 143, 105882	5.3	2
10	Cu catalysts supported on CaO/MgO for glycerol conversion to lactic acid in alkaline medium employing a continuous flow reaction system.. *RSC Advances*, **2020**, 10, 31123-31138	3.7	2
9	Methyl ester production by esterification/transesterification reactions on continuous test using SBA-15 catalyst. *Journal of Environmental Chemical Engineering*, **2018**, 6, 5452-5458	6.8	1
8	Production of Renewable Hydrogen by Aqueous-Phase Reforming of Glycerol Over Ni-Cu Catalysts Derived from Hydrotalcite Precursors **2014**, 413-426		1
7	Evaluation of Operational Cycles for Long-Term Run of a Tar Removal Catalytic System. *Chemical Engineering and Technology*, **2019**, 42, 980-986	2	1
6	X-ray powder diffraction data of LaNi0.5Ti0.45Co0.05O3, LaNi0.45Co0.05Ti0.5O3, and LaNi0.5Ti0.5O3 perovskites. *Powder Diffraction*, **2021**, 36, 29-34	1.8	1

5	Synthesis and characterization of hydrocalumite for removal of fluoride from aqueous solutions. *Environmental Science and Pollution Research*, **2021**, 28, 22439-22457	5.1	0
4	Renewable Hydrogen Production from Butanol Steam Reforming over Nickel Catalysts Promoted by Lanthanides. *Processes*, **2021**, 9, 1815	2.9	
3	SYNTHESIS AND CHARACTERIZATION OF HYDROCALUMITE: INFLUENCE OF AGING CONDITIONS ON THE STRUCTURE, TEXTURAL PROPERTIES, THERMAL STABILITY, AND BASICITY. *Clays and Clay Minerals*, **2020**, 68, 273-286	2.1	
2	Ni/x%Nb2O5/Al2O3 Catalysts Prepared via Coprecipitation-Wet Impregnation Method for Methane Steam Reforming. *Current Catalysis*, **2020**, 9, 80-89	0.4	
1	Cation reducibility of LaNi0.5Ti0.5O3, LaNi0.5Ti0.45Co0.05O3, and LaNi0.45Co0.05Ti0.5O3 perovskites from X-ray powder diffraction data using the Rietveld method. *Powder Diffraction*,1-7	1.8	