Laura M Cornaglia

List of Publications by Year
in descending order

56 papers	1,652 citations	236925 25 h-index	302126 39 g-index
56 all docs	56 docs citations	56 times ranked	1719 citing authors

#	Article	IF	Citations
1	Kinetics and reaction pathway of the CO2 reforming of methane on Rh supported on lanthanum-based solid. Journal of Catalysis, 2007, 245, 25-34.	6.2	167
2	Quantitative determination of the number of surface active sites and the turnover frequency for methanol oxidation over bulk metal vanadates. Catalysis Today, 2003, 78, 257-268.	4.4	100
3	Kinetic and Stability Studies of Ru/La2O3 Used in the Dry Reforming of Methane. Topics in Catalysis, 2008, 51, 98-106.	2.8	94
4	Novel PdAgCu ternary alloy: Hydrogen permeation and surface properties. Applied Surface Science, 2011, 257, 6626-6635.	6.1	60
5	Recent advances in catalysts, palladium alloys and high temperature WGS membrane reactors. International Journal of Hydrogen Energy, 2015, 40, 3423-3437.	7.1	59
6	XPS study of the surface properties and Ni particle size determination of Niâ€supported catalysts. Surface and Interface Analysis, 2014, 46, 521-529.	1.8	57
7	Dry reforming of methane in membrane reactors using Pd and Pdâ€"Ag composite membranes on a NaA zeolite modified porous stainless steel support. Journal of Membrane Science, 2010, 364, 17-26.	8.2	55
8	Surface characterization of Pdâ€"Ag composite membranes after annealing at various temperatures. Journal of Membrane Science, 2011, 369, 267-276.	8.2	54
9	Pd-based binary and ternary alloy membranes: Morphological and perm-selective characterization in the presence of H2S. Journal of Membrane Science, 2014, 450, 299-307.	8.2	52
10	Activity and stability of a CuO/CeO2 catalyst for methanol steam reforming. International Journal of Hydrogen Energy, 2015, 40, 13379-13387.	7.1	47
11	PdAgAu alloy with high resistance to corrosion by H2S. International Journal of Hydrogen Energy, 2012, 37, 18547-18555.	7.1	46
12	Novel PdAgCu ternary alloy as promising materials for hydrogen separation membranes: Synthesis and characterization. Surface Science, 2011, 605, 62-71.	1.9	44
13	PdAu membranes supported on top of vacuum-assisted ZrO2-modified porous stainless steel substrates. Journal of Membrane Science, 2013, 428, 1-10.	8.2	44
14	Kinetic Studies of the Dry Reforming of Methane over the Rh/La2O3â̂'SiO2 Catalyst. Industrial & Engineering Chemistry Research, 2007, 46, 7543-7549.	3.7	41
15	Advances in hydrogen selective membranes based on palladium ternary alloys. International Journal of Hydrogen Energy, 2021, 46, 15572-15594.	7.1	40
16	Operando Raman spectroscopic studies of lithium zirconates during CO₂ capture at high temperature. RSC Advances, 2016, 6, 8222-8231.	3.6	37
17	Well-dispersed Rh nanoparticles with high activity for the dry reforming of methane. International Journal of Hydrogen Energy, 2017, 42, 16127-16138.	7.1	37
18	PdCuAu ternary alloy membranes: Hydrogen permeation properties in the presence of H2S. Journal of Membrane Science, 2015, 479, 246-255.	8.2	32

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19	Pd based membrane reactor for ultra pure hydrogen production through the dry reforming of methane. Experimental and modeling studies. Applied Catalysis A: General, 2011, 400, 185-194.	4.3	31
20	The effect of electroless plating time on the morphology, alloy formation and H2 transport properties of Pdâ€“Ag composite membranes. International Journal of Hydrogen Energy, 2011, 36, 4068-4078.	7.1	30
21	Hydrogen permeation and surface properties of PdAu and PdAgAu membranes in the presence of CO, CO2 and H2S. Journal of Membrane Science, 2018, 563, 351-359.	8.2	30
22	Stability of Ni and Rhâ€“Ni catalysts derived from hydrotalcite-like precursors for the partial oxidation of methane. International Journal of Hydrogen Energy, 2013, 38, 5616-5626.	7.1	29
23	NaA zeolite membranes synthesized on top of APTES-modified porous stainless steel substrates. Journal of Membrane Science, 2016, 512, 93-103.	8.2	29
24	Hydrogen production from ethylene glycol reforming catalyzed by Ni and Niâ€“Pt hydrotalcite-derived catalysts. International Journal of Hydrogen Energy, 2016, 41, 22000-22008.	7.1	28
25	Reactivity of rice husk-derived lithium silicates followed by in situ Raman spectroscopy. Journal of Alloys and Compounds, 2019, 778, 699-711.	5.5	26
26	Hydrogen production through CO2 reforming of CH4 over Pt/CeZrO2/Al2O3 catalysts using a Pdâ€“Ag membrane reactor. Catalysis Today, 2012, 193, 64-73.	4.4	25
27	Supported Rh nanoparticles on CaOâ€“SiO2 binary systems for the reforming of methane by carbon dioxide in membrane reactors. Applied Catalysis A: General, 2014, 474, 114-124.	4.3	24
28	Study of the performance of Rh/La2O3â€“SiO2 and Rh/CeO2 catalysts for SR of ethanol in a conventional fixed-bed reactor and a membrane reactor. International Journal of Hydrogen Energy, 2015, 40, 4154-4166.	7.1	24
29	Characterization of Pdâ€“Ag membranes after exposure to hydrogen flux at high temperatures. Journal of Membrane Science, 2007, 306, 56-65.	8.2	23
30	Comparison of Ru/La2O2CO3 performance in two different membrane reactors for hydrogen production. Catalysis Today, 2013, 213, 135-144.	4.4	23
31	A coke-resistant catalyst for the dry reforming of methane based on Ni nanoparticles confined within rice husk-derived mesoporous materials. Catalysis Communications, 2020, 135, 105898.	3.3	23
32	The effect of the Li:Na molar ratio on the structural and sorption properties of mixed zirconates for CO2 capture at high temperature. Journal of Environmental Chemical Engineering, 2019, 7, 102927.	6.7	22
33	Optimization and characterization of electroless co-deposited PdRu membranes: Effect of the plating variables on morphology. Journal of Membrane Science, 2011, 382, 252-261.	8.2	20
34	Catalytic behavior of Ru nanoparticles supported on carbon fibers for the ethanol steam reforming reaction. Catalysis Communications, 2018, 114, 19-23.	3.3	19
35	Ni mesostructured catalysts obtained from rice husk ashes by microwave-assisted synthesis for CO2 methanation. Journal of CO2 Utilization, 2020, 42, 101328.	6.8	19
36	Surface composition of PdCuAu ternary alloys: a combined LEIS and XPS study. Surface and Interface Analysis, 2015, 47, 745-754.	1.8	16

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37	Pt encapsulated into NaA zeolite as catalyst for the WGS reaction. Applied Catalysis A: General, 2019, 572, 176-184.	4.3	15
38	Comparative study of lithium-based CO_2 sorbents at high temperature: Experimental and modeling kinetic analysis of the carbonation reaction. Journal of Environmental Chemical Engineering, 2020, 8, 104173.	6.7	15
39	Effect of the porous stainless steel substrate shape on the ZrO_2 deposition by vacuum assisted dip-coating. International Journal of Hydrogen Energy, 2017, 42, 7986-7996.	7.1	14
40	Formation of a solid solution of vanadium in TiO_2(anatase) on vanadiumâ€“titanium solids with high vanadium content. Journal of Materials Chemistry, 1995, 5, 1443-1449.	6.7	12
41	Isolation of ibuprofen enantiomers and racemic esters through electrodialysis. Journal of Membrane Science, 2021, 618, 118714.	8.2	10
42	4.9 The Role of Acid-Base and Redox Features in the Catalytic Behavior of Vanadium-Phosphorous-Oxygen Formulations. Studies in Surface Science and Catalysis, 1994, 90, 429-440.	1.5	9
43	Determination of the Metal Dispersion of Supported Catalysts Using XPS. Topics in Catalysis, 2019, 62, 822-837.	2.8	9
44	Development of catalytic membranes over PdAu selective films for hydrogen production through the dry reforming of methane. Molecular Catalysis, 2020, 481, 100643.	2.0	8
45	K-doping effect in the kinetics of CO_2 capture at high temperature over lithium silicates obtained from rice husks: In situ/operando techniques. Ceramics International, 2021, 47, 1558-1570.	4.8	8
46	Study of the sorption properties of alkali zirconate-based sorbents at high temperature in the presence of water and low CO_2 concentration. Journal of Alloys and Compounds, 2022, 895, 162419.	5.5	7
47	The nature of the cobalt salt affects the catalytic properties of promoted VPO. Studies in Surface Science and Catalysis, 2000, 130, 1727-1732.	1.5	6
48	Influence of La incorporation on the catalytic activity of Ru/ETS-10 catalysts for hydrogen production. Applied Catalysis A: General, 2015, 504, 391-398.	4.3	6
49	Pure Hydrogen Production for Low Temperature Fuel Cells. Catalysis Letters, 2018, 148, 1015-1026.	2.6	5
50	PdAu and PdAuAg composite membranes with reduced film thickness using YSZ as a stainless-steel support modifier. Journal of Alloys and Compounds, 2021, 877, 160184.	5.5	5
51	Dissociation of perfluorinated ethers on Al_2O_3 thin films. Tribology Letters, 1998, 4, 67-73.	2.6	3
52	Title is missing!. Catalysis Letters, 1999, 63, 131-133.	2.6	3
53	NaA zeolite membranes on modified porous stainless steel supports: a comparative study of different SiO_2 sources. Brazilian Journal of Chemical Engineering, 2020, 37, 383-397.	1.3	3
54	Synthesis of Pt-zeolite coated palladium alloys as catalytic membranes for hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 2255-2268.	7.1	3

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55	Coupling of CO2 capture and methanation processes using catalysts based on silica recovered from rice husks. Fuel, 2022, 324, 124604.	6.4	3
56	New PdNiAu ternary alloys as potential material for hydrogen separation processes. International Journal of Hydrogen Energy, 2022, 47, 11589-11600.	7.1	1