Maria A Goula

List of Publications by Year
in descending order

81 papers	4,592 citations	101384 36 h-index	102304 66 g-index
82 all docs	82 docs citations	82 times ranked	3177 citing authors

#	Article	IF	Citations
1	Performance comparison of low-temperature direct alcohol fuel cells with different anode catalysts. Journal of Power Sources, 2004, 126, 16-22.	4.0	206
2	Characterization of Carbonaceous Species Formed during Reforming of CH4with CO2over Ni/CaOâ€"Al2O3Catalysts Studied by Various Transient Techniques. Journal of Catalysis, 1996, 161, 626-640.	3.1	191
3	Comparative study of Ni, Co, Cu supported on Î³-alumina catalysts for hydrogen production via the glycerol steam reforming reaction. Fuel Processing Technology, 2016, 152, 156-175.	3.7	184
4	Nickel on alumina catalysts for the production of hydrogen rich mixtures via the biogas dry reforming reaction: Influence of the synthesis method. International Journal of Hydrogen Energy, 2015, 40, 9183-9200.	3.8	181
5	Hydrogen production by ethanol steam reforming over a commercial Pd/Î³-Al2O3 catalyst. Applied Catalysis B: Environmental, 2004, 49, 135-144.	10.8	174
6	Syngas production via the biogas dry reforming reaction over nickel supported on modified with CeO 2 and/or La 2 O 3 alumina catalysts. Journal of Natural Gas Science and Engineering, 2016, 31, 164-183.	2.1	167
7	An in depth investigation of deactivation through carbon formation during the biogas dry reforming reaction for Ni supported on modified with CeO2 and La2O3 zirconia catalysts. International Journal of Hydrogen Energy, 2018, 43, 18955-18976.	3.8	165
8	Syngas production via the biogas dry reforming reaction over Ni supported on zirconia modified with CeO 2 or La 2 O 3 catalysts. International Journal of Hydrogen Energy, 2017, 42, 13724-13740.	3.8	160
9	Green Diesel: Biomass Feedstocks, Production Technologies, Catalytic Research, Fuel Properties and Performance in Compression Ignition Internal Combustion Engines. Energies, 2019, 12, 809.	1.6	156
10	Highly selective and stable nickel catalysts supported on ceria promoted with Sm2O3, Pr2O3 and MgO for the CO2 methanation reaction. Applied Catalysis B: Environmental, 2021, 282, 119562.	10.8	149
11	Carbon dioxide reforming of methane over 5wt.% nickel calcium aluminate catalysts â€" effect of preparation method. Catalysis Today, 1998, 46, 175-183.	2.2	141
12	Biogas reforming for syngas production over nickel supported on ceriaâ€"alumina catalysts. Catalysis Today, 2012, 195, 93-100.	2.2	140
13	Ni supported on CaO-MgO-Al2O3 as a highly selective and stable catalyst for H2 production via the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2019, 44, 256-273.	3.8	138
14	Removal of Hydrogen Sulfide From Various Industrial Gases: A Review of The Most Promising Adsorbing Materials. Catalysts, 2020, 10, 521.	1.6	137
15	Investigating the correlation between deactivation and the carbon deposited on the surface of Ni/Al2O3 and Ni/La2O3-Al2O3 catalysts during the biogas reforming reaction. Applied Surface Science, 2019, 474, 42-56.	3.1	128
16	Hydrogen production via the glycerol steam reforming reaction over nickel supported on alumina and lanthana-alumina catalysts. International Journal of Hydrogen Energy, 2017, 42, 13039-13060.	3.8	100
17	The Role of Alkali and Alkaline Earth Metals in the CO2 Methanation Reaction and the Combined Capture and Methanation of CO2. Catalysts, 2020, 10, 812.	1.6	97
18	Bimetallic Ni-Based Catalysts for CO2 Methanation: A Review. Nanomaterials, 2021, 11, 28.	1.9	95

#	ARTICLE	IF	CITATIONS
19	Ni/Y2O3â€“ZrO2 catalyst for hydrogen production through the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2020, 45, 10442-10460.	3.8	85
20	Glycerol Steam Reforming for Hydrogen Production over Nickel Supported on Alumina, Zirconia and Silica Catalysts. Topics in Catalysis, 2017, 60, 1226-1250.	1.3	79
21	Highly selective and stable Ni/La-M (M=Sm, Pr, and Mg)-CeO2 catalysts for CO2 methanation. Journal of CO2 Utilization, 2021, 51, 101618.	3.3	78
22	An experimental and theoretical approach for the biogas steam reforming reaction. International Journal of Hydrogen Energy, 2010, 35, 9818-9827.	3.8	77
23	The Relationship between Reaction Temperature and Carbon Deposition on Nickel Catalysts Based on Al2O3, ZrO2 or SiO2 Supports during the Biogas Dry Reforming Reaction. Catalysts, 2019, 9, 676.	1.6	72
24	The potential of glycerol and phenol towards H2 production using steam reforming reaction: A review. Surface and Coatings Technology, 2018, 352, 92-111.	2.2	71
25	The influence of SiO2 doping on the Ni/ZrO2 supported catalyst for hydrogen production through the glycerol steam reforming reaction. Catalysis Today, 2019, 319, 206-219.	2.2	67
26	Effect of operating parameters on the selective catalytic deoxygenation of palm oil to produce renewable diesel over Ni supported on Al2O3, ZrO2 and SiO2 catalysts. Fuel Processing Technology, 2020, 209, 106547.	3.7	65
27	Agricultural and livestock sector's residues in Greece & China: Comparative qualitative and quantitative characterization for assessing their potential for biogas production. Renewable and Sustainable Energy Reviews, 2022, 154, 111821.	8.2	62
28	Synthesis Gas Production via the Biogas Reforming Reaction Over Ni/MgOâ€“Al2O3 and Ni/CaOâ€“Al2O3 Catalysts. Waste and Biomass Valorization, 2016, 7, 725-736.	1.8	59
29	An experimental investigation on thermal stratification characteristics with PCMs in solar water tank. Solar Energy, 2019, 177, 8-21.	2.9	55
30	Methane partial oxidation to synthesis gas using nickel on calcium aluminate catalysts. Catalysis Today, 1996, 32, 149-156.	2.2	53
31	Promoting effect of CaO-MgO mixed oxide on Ni/Î³-Al2O3 catalyst for selective catalytic deoxygenation of palm oil. Renewable Energy, 2020, 162, 1793-1810.	4.3	47
32	Hydrogen production via steam reforming of glycerol over Rh/Î³-Al2O3 catalysts modified with CeO2, MgO or La2O3. Renewable Energy, 2020, 162, 908-925.	4.3	47
33	Hydrogen Sulfide (H2S) Removal via MOFs. Materials, 2020, 13, 3640.	1.3	43
34	Chemical looping glycerol reforming for hydrogen production by Ni@ZrO2 nanocomposite oxygen carriers. International Journal of Hydrogen Energy, 2018, 43, 13200-13211.	3.8	40
35	Influence of the synthesis method parameters used to prepare nickel-based catalysts on the catalytic performance for the glycerol steam reforming reaction. Chinese Journal of Catalysis, 2016, 37, 1949-1965.	6.9	39
36	Nickel Supported on AlCeO3 as a Highly Selective and Stable Catalyst for Hydrogen Production via the Glycerol Steam Reforming Reaction. Catalysts, 2019, 9, 411.	1.6	39

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37	Catalytic Conversion of Palm Oil to Bio-Hydrogenated Diesel over Novel N-Doped Activated Carbon Supported Pt Nanoparticles. Energies, 2020, 13, 132.	1.6	37
38	An experimental investigation of forced convection heat transfer with novel microencapsulated phase change material slurries in a circular tube under constant heat flux. Energy Conversion and Management, 2018, 171, 699-709.	4.4	36
39	Optimizing the oxide support composition in Pr-doped CeO2 towards highly active and selective Ni-based CO2 methanation catalysts. Journal of Energy Chemistry, 2022, 71, 547-561.	7.1	36
40	CO2 Methanation on Supported Rh Nanoparticles: The combined Effect of Support Oxygen Storage Capacity and Rh Particle Size. Catalysts, 2020, 10, 944.	1.6	35
41	Ceâ€“Smâ€“<i>x</i>Cu cost-efficient catalysts for H₂ production through the glycerol steam reforming reaction. Sustainable Energy and Fuels, 2019, 3, 673-691.	2.5	34
42	Bioaugmentation with well-constructed consortia can effectively alleviate ammonia inhibition of practical manure anaerobic digestion. Water Research, 2022, 215, 118244.	5.3	33
43	Adsorption of Hydrogen Sulfide at Low Temperatures Using an Industrial Molecular Sieve: An Experimental and Theoretical Study. ACS Omega, 2021, 6, 14774-14787.	1.6	29
44	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part I: Chemical pathways and bio-oil upgrading. Renewable Energy, 2022, 185, 483-505.	4.3	29
45	A Ni/apatite-type lanthanum silicate supported catalyst in glycerol steam reforming reaction. RSC Advances, 2016, 6, 78954-78958.	1.7	28
46	The Effect of WO3 Modification of ZrO2 Support on the Ni-Catalyzed Dry Reforming of Biogas Reaction for Syngas Production. Frontiers in Environmental Science, 2017, 5, .	1.5	26
47	A comparative study of Ni catalysts supported on Al2O3, MgOâ€“CaOâ€“Al2O3 and La2O3â€“Al2O3 for the dry reforming of ethane. International Journal of Hydrogen Energy, 2022, 47, 5337-5353.	3.8	26
48	Development of molybdena catalysts supported on $gamma;-alumina extrudates with four different Mo profiles: Preparation, characterization, and catalytic properties. Journal of Catalysis, 1992, 137, 285-305.	3.1	24
49	Influence of impregnation parameters on the axial Mo/$gamma;-alumina profiles studied using a novel simple technique. Journal of Catalysis, 1992, 133, 486-497.	3.1	24
50	The Effect of Ni Addition onto a Cu-Based Ternary Support on the H2 Production over Glycerol Steam Reforming Reaction. Nanomaterials, 2018, 8, 931.	1.9	24
51	Bimetallic Exsolved Heterostructures of Controlled Composition with Tunable Catalytic Properties. ACS Nano, 2022, 16, 8904-8916.	7.3	24
52	A comparative study of the H2-assisted selective catalytic reduction of nitric oxide by propene over noble metal (Pt, Pd, Ir)/Î³-Al2O3 catalysts. Journal of Environmental Chemical Engineering, 2016, 4, 1629-1641.	3.3	23
53	Ni Catalysts Based on Attapulgite for Hydrogen Production through the Glycerol Steam Reforming Reaction. Catalysts, 2019, 9, 650.	1.6	23
54	The experimental investigation of the thermal stratification in a solar hot water tank. Renewable Energy, 2019, 134, 862-874.	4.3	22

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55	Continuous selective deoxygenation of palm oil for renewable diesel production over Ni catalysts supported on Al₂O₃and La₂O₃â€“Al₂O₃. RSC Advances, 2021, 11, 8569-8584.	1.7	21
56	Recent Progress in the Steam Reforming of Bio-Oil for Hydrogen Production: A Review of Operating Parameters, Catalytic Systems and Technological Innovations. Catalysts, 2021, 11, 1526.	1.6	19
57	Effect of Active Metal Supported on SiO2 for Selective Hydrogen Production from the Glycerol Steam Reforming Reaction. BioResources, 2016, 11, .	0.5	18
58	Halloysite Nanotubes Noncovalently Functionalised with SDS Anionic Surfactant and PS-b-P4VP Block Copolymer for Their Effective Dispersion in Polystyrene as UV-Blocking Nanocomposite Films. Journal of Nanomaterials, 2017, 2017, 1-11.	1.5	18
59	The Effect of Noble Metal (M: Ir, Pt, Pd) on M/Ce2O3-Î³-Al2O3 Catalysts for Hydrogen Production via the Steam Reforming of Glycerol. Catalysts, 2020, 10, 790.	1.6	18
60	Methane production from acetate, formate and H2/CO2 under high ammonia level: Modified ADM1 simulation and microbial characterization. Science of the Total Environment, 2021, 783, 147581.	3.9	18
61	Cerium oxide catalysts for oxidative coupling of methane reaction: Effect of lithium, samarium and lanthanum dopants. Journal of Environmental Chemical Engineering, 2022, 10, 107259.	3.3	18
62	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part II: Catalytic research. Renewable Energy, 2022, 189, 315-338.	4.3	18
63	Studying the stability of Ni supported on modified with CeO2 alumina catalysts for the biogas dry reforming reaction. Materials Today: Proceedings, 2018, 5, 27607-27616.	0.9	17
64	Hydrogen production via steam reforming of glycerol over Ce-La-Cu-O ternary oxide catalyst: An experimental and DFT study. Applied Surface Science, 2022, 586, 152798.	3.1	16
65	Towards maximizing conversion of ethane and carbon dioxide into synthesis gas using highly stable Ni-perovskite catalysts. Journal of CO2 Utilization, 2022, 61, 102046.	3.3	14
66	Heterogeneous Catalystâ€“Microbiome Hybrids for Efficient CO-Driven C6 Carboxylic Acid Synthesis via Metabolic Pathway Manipulation. ACS Catalysis, 2022, 12, 5834-5845.	5.5	11
67	Selective Catalytic Reduction of NOx over Perovskite-Based Catalysts Using CxHy(Oz), H2 and CO as Reducing Agentsâ€"A Review of the Latest Developments. Nanomaterials, 2022, 12, 1042.	1.9	10
68	Hydrogen production over a commercial Pd/Al2O3 catalyst for fuel cell utilization. Ionics, 2003, 9, 248-252.	1.2	9
69	Oxidative coupling of methane on Li/CeO2 based catalysts: Investigation of the effect of Mg- and La-doping of the CeO2 support. Molecular Catalysis, 2022, 520, 112157.	1.0	9
70	Theoretical Investigation of the Deactivation of Ni Supported Catalysts for the Catalytic Deoxygenation of Palm Oil for Green Diesel Production. Catalysts, 2021, 11, 747.	1.6	8
71	Hydrogenation of carbon dioxide (CO₂) to fuels in microreactors: a review of set-ups and value-added chemicals production. Reaction Chemistry and Engineering, 2022, 7, 795-812.	1.9	7
72	Calcium ion can alleviate ammonia inhibition on anaerobic digestion via balanced-strengthening dehydrogenases and reinforcing protein-binding structure: Model evaluation and microbial characterization. Bioresource Technology, 2022, 354, 127165.	4.8	7

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73	Ni/CNT/Zeolite-Y composite catalyst for efficient heptane hydrocracking: Steady-state and transient kinetic studies. Applied Catalysis A: General, 2022, 630, 118437.	2.2	6
74	Synthesis and Mathematical Modelling of the Preparation Process of Nickel-Alumina Catalysts with Egg-Shell Structures for Syngas Production via Reforming of Clean Model Biogas. Catalysts, 2022, 12, 274.	1.6	6
75	Kinetics of Deposition of the Moâ˘Oxo Species on the Surface of Î³-Alumina. Langmuir, 1998, 14, 4819-4826.	1.6	5
76	Graphene Nanoplatelets-Based Ni-Zeolite Composite Catalysts for Heptane Hydrocracking. Journal of Carbon Research, 2020, 6, 31.	1.4	5
77	Costâ€Effective Adsorption of Oxidative Couplingâ€Derived Ethylene Using a Molecular Sieve. Chemical Engineering and Technology, 2021, 44, 2041.	0.9	4
78	Effect of Alkali Promoters (K) on Nitrous Oxide Abatement Over Ir/Al2O3 Catalysts. Topics in Catalysis, 2016, 59, 1020-1027.	1.3	3
79	MOLYBDENUM SUPPORTED ON CARBON COVERED ALUMINA: ACTIVE SITES FOR n-BUTANOL DEHYDROGENATION AND KETONIZATION. Molecular Catalysis, 2020, 495, 111159.	1.0	2
80	Simultaneous supplementation of magnetite and polyurethane foam carrier can reach a Pareto-optimal point to alleviate ammonia inhibition during anaerobic digestion. Renewable Energy, 2022, 189, 104-116.	4.3	2
81	Editorialâ€"Special Issue â€œCatalysis for Energy Productionâ€. Catalysts, 2021, 11, 785.	1.6	1