Nikolaos Charisiou

List of Publications by Year
in descending order

65	3,340	159358	149479
papers	citations	30 h-index	56 g-index

66	66	66	2107
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	Dataset of inhalable particulate matter concentrations in the region of West Macedonia, Greece for an 11-year period. Data in Brief, 2022, 41, 107883.	0.5	7
6	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
7	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
8	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
9	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
10	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
11	Cloud-Based Decision Support System for Air Quality Management. Climate, 2022, 10, 39.	1.2	3
12	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
13	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
14	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
15	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
16	Bimetallic Exsolved Heterostructures of Controlled Composition with Tunable Catalytic Properties. ACS Nano, 2022, 16, 8904-8916.	7.3	24
17	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
18	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

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19	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
20	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
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	Costâ€Effective Adsorption of Oxidative Couplingâ€Derived Ethylene Using a Molecular Sieve. Chemical Engineering and Technology, 2021, 44, 2041.	0.9	4
23	Bimetallic Ni-Based Catalysts for CO2 Methanation: A Review. Nanomaterials, 2021, 11, 28.	1.9	95
24	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
25	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
26	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
27	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
28	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
29	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
30	MOLYBDENUM SUPPORTED ON CARBON COVERED ALUMINA: ACTIVE SITES FOR n-BUTANOL DEHYDROGENATION AND KETONIZATION. Molecular Catalysis, 2020, 495, 111159.	1.0	2
31	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
32	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
33	Hydrogen Sulfide (H2S) Removal via MOFs. Materials, 2020, 13, 3640.	1.3	43
34	Removal of Hydrogen Sulfide From Various Industrial Gases: A Review of The Most Promising Adsorbing Materials. Catalysts, 2020, 10, 521.	1.6	137
35	Graphene Nanoplatelets-Based Ni-Zeolite Composite Catalysts for Heptane Hydrocracking. Journal of Carbon Research, 2020, 6, 31.	1.4	5
36	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

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37	Removal of Hydrogen Sulfide (H2S) Using MOFs: A Review of the Latest Developments. , 2020, 2, .		1
38	Structural Investigation of the Carbon Deposits on Ni/Al2O3 Catalyst Modified by CaO-MgO for the Biogas Dry Reforming Reaction. , 2020, 2, .		3
39	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
40	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
41	Ni Catalysts Based on Attapulgite for Hydrogen Production through the Glycerol Steam Reforming Reaction. Catalysts, 2019, 9, 650.	1.6	23
42	Ceâ€“Smâ€“xCu cost-efficient catalysts for H₂ production through the glycerol steam reforming reaction. Sustainable Energy and Fuels, 2019, 3, 673-691.	2.5	34
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	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
56	Effect of Active Metal Supported on SiO2 for Selective Hydrogen Production from the Glycerol Steam Reforming Reaction. BioResources, 2016, 11, .	0.5	18
57	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
58	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
59	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
60	A Ni/apatite-type lanthanum silicate supported catalyst in glycerol steam reforming reaction. RSC Advances, 2016, 6, 78954-78958.	1.7	28
61	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
62	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
63	EXPLOITATION OF OLIVE TREE PRUNINGS AS RAW MATERIAL FOR THE PRODUCTION OF HIGH QUALITY COMPOST. Environmental Engineering and Management Journal, 2016, 15, 2709-2717.	0.2	2
64	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
65	Attitudes of Greek university students towards energy and the environment. Global Nest Journal, 2014, 16, 856-865.	0.3	4