

# Nikolaos Charisiou

## List of Publications by Year in descending order

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65  
papers

3,340  
citations

159358

30  
h-index

149479

56  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2107  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative study of Ni, Co, Cu supported on $\gamma$ -alumina catalysts for hydrogen production via the glycerol steam reforming reaction. <i>Fuel Processing Technology</i> , 2016, 152, 156-175.	3.7	184
2	Nickel on alumina catalysts for the production of hydrogen rich mixtures via the biogas dry reforming reaction: Influence of the synthesis method. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9183-9200.	3.8	181
3	Syngas production via the biogas dry reforming reaction over nickel supported on modified with CeO <sub>2</sub> and/or La <sub>2</sub> O <sub>3</sub> alumina catalysts. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 164-183.	2.1	167
4	An in depth investigation of deactivation through carbon formation during the biogas dry reforming reaction for Ni supported on modified with CeO <sub>2</sub> and La <sub>2</sub> O <sub>3</sub> zirconia catalysts. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18955-18976.	3.8	165
5	Syngas production via the biogas dry reforming reaction over Ni supported on zirconia modified with CeO <sub>2</sub> or La <sub>2</sub> O <sub>3</sub> catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13724-13740.	3.8	160
6	Green Diesel: Biomass Feedstocks, Production Technologies, Catalytic Research, Fuel Properties and Performance in Compression Ignition Internal Combustion Engines. <i>Energies</i> , 2019, 12, 809.	1.6	156
7	Highly selective and stable nickel catalysts supported on ceria promoted with Sm <sub>2</sub> O <sub>3</sub> , Pr <sub>2</sub> O <sub>3</sub> and MgO for the CO <sub>2</sub> methanation reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119562.	10.8	149
8	Ni supported on CaO-MgO-Al <sub>2</sub> O <sub>3</sub> as a highly selective and stable catalyst for H <sub>2</sub> production via the glycerol steam reforming reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 256-273.	3.8	138
9	Removal of Hydrogen Sulfide From Various Industrial Gases: A Review of The Most Promising Adsorbing Materials. <i>Catalysts</i> , 2020, 10, 521.	1.6	137
10	Investigating the correlation between deactivation and the carbon deposited on the surface of Ni/Al <sub>2</sub> O <sub>3</sub> and Ni/La <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> catalysts during the biogas reforming reaction. <i>Applied Surface Science</i> , 2019, 474, 42-56.	3.1	128
11	Hydrogen production via the glycerol steam reforming reaction over nickel supported on alumina and lanthana-alumina catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13039-13060.	3.8	100
12	The Role of Alkali and Alkaline Earth Metals in the CO <sub>2</sub> Methanation Reaction and the Combined Capture and Methanation of CO <sub>2</sub> . <i>Catalysts</i> , 2020, 10, 812.	1.6	97
13	Bimetallic Ni-Based Catalysts for CO <sub>2</sub> Methanation: A Review. <i>Nanomaterials</i> , 2021, 11, 28.	1.9	95
14	Ni/Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> catalyst for hydrogen production through the glycerol steam reforming reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10442-10460.	3.8	85
15	Glycerol Steam Reforming for Hydrogen Production over Nickel Supported on Alumina, Zirconia and Silica Catalysts. <i>Topics in Catalysis</i> , 2017, 60, 1226-1250.	1.3	79
16	Highly selective and stable Ni/La-M (M=Sm, Pr, and Mg)-CeO <sub>2</sub> catalysts for CO <sub>2</sub> methanation. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 51, 101618.	3.3	78
17	The Relationship between Reaction Temperature and Carbon Deposition on Nickel Catalysts Based on Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> or SiO <sub>2</sub> Supports during the Biogas Dry Reforming Reaction. <i>Catalysts</i> , 2019, 9, 676.	1.6	72
18	The potential of glycerol and phenol towards H <sub>2</sub> production using steam reforming reaction: A review. <i>Surface and Coatings Technology</i> , 2018, 352, 92-111.	2.2	71

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19	The influence of SiO <sub>2</sub> doping on the Ni/ZrO <sub>2</sub> supported catalyst for hydrogen production through the glycerol steam reforming reaction. <i>Catalysis Today</i> , 2019, 319, 206-219.	2.2	67
20	Effect of operating parameters on the selective catalytic deoxygenation of palm oil to produce renewable diesel over Ni supported on Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> and SiO <sub>2</sub> catalysts. <i>Fuel Processing Technology</i> , 2020, 209, 106547.	3.7	65
21	Agricultural and livestock sector's residues in Greece & China: Comparative qualitative and quantitative characterization for assessing their potential for biogas production. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111821.	8.2	62
22	Synthesis Gas Production via the Biogas Reforming Reaction Over Ni/MgO@Al <sub>2</sub> O <sub>3</sub> and Ni/CaO@Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>Waste and Biomass Valorization</i> , 2016, 7, 725-736.	1.8	59
23	Promoting effect of CaO-MgO mixed oxide on Ni/β-Al <sub>2</sub> O <sub>3</sub> catalyst for selective catalytic deoxygenation of palm oil. <i>Renewable Energy</i> , 2020, 162, 1793-1810.	4.3	47
24	Hydrogen production via steam reforming of glycerol over Rh/β-Al <sub>2</sub> O <sub>3</sub> catalysts modified with CeO <sub>2</sub> , MgO or La <sub>2</sub> O <sub>3</sub> . <i>Renewable Energy</i> , 2020, 162, 908-925.	4.3	47
25	Hydrogen Sulfide (H <sub>2</sub> S) Removal via MOFs. <i>Materials</i> , 2020, 13, 3640.	1.3	43
26	Influence of the synthesis method parameters used to prepare nickel-based catalysts on the catalytic performance for the glycerol steam reforming reaction. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1949-1965.	6.9	39
27	Nickel Supported on AlCeO <sub>3</sub> as a Highly Selective and Stable Catalyst for Hydrogen Production via the Glycerol Steam Reforming Reaction. <i>Catalysts</i> , 2019, 9, 411.	1.6	39
28	Catalytic Conversion of Palm Oil to Bio-Hydrogenated Diesel over Novel N-Doped Activated Carbon Supported Pt Nanoparticles. <i>Energies</i> , 2020, 13, 132.	1.6	37
29	Optimizing the oxide support composition in Pr-doped CeO <sub>2</sub> towards highly active and selective Ni-based CO <sub>2</sub> methanation catalysts. <i>Journal of Energy Chemistry</i> , 2022, 71, 547-561.	7.1	36
30	CO <sub>2</sub> Methanation on Supported Rh Nanoparticles: The combined Effect of Support Oxygen Storage Capacity and Rh Particle Size. <i>Catalysts</i> , 2020, 10, 944.	1.6	35
31	Ce@Sm@Cu cost-efficient catalysts for H <sub>2</sub> production through the glycerol steam reforming reaction. <i>Sustainable Energy and Fuels</i> , 2019, 3, 673-691.	2.5	34
32	Adsorption of Hydrogen Sulfide at Low Temperatures Using an Industrial Molecular Sieve: An Experimental and Theoretical Study. <i>ACS Omega</i> , 2021, 6, 14774-14787.	1.6	29
33	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. <i>Renewable Energy</i> , 2022, 185, 483-505.	4.3	29
34	A Ni/apatite-type lanthanum silicate supported catalyst in glycerol steam reforming reaction. <i>RSC Advances</i> , 2016, 6, 78954-78958.	1.7	28
35	The Effect of WO <sub>3</sub> Modification of ZrO <sub>2</sub> Support on the Ni-Catalyzed Dry Reforming of Biogas Reaction for Syngas Production. <i>Frontiers in Environmental Science</i> , 2017, 5, .	1.5	26
36	A comparative study of Ni catalysts supported on Al <sub>2</sub> O <sub>3</sub> , MgO@CaO@Al <sub>2</sub> O <sub>3</sub> and La <sub>2</sub> O <sub>3</sub> @Al <sub>2</sub> O <sub>3</sub> for the dry reforming of ethane. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5337-5353.	3.8	26

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37	The Effect of Ni Addition onto a Cu-Based Ternary Support on the H <sub>2</sub> Production over Glycerol Steam Reforming Reaction. <i>Nanomaterials</i> , 2018, 8, 931.	1.9	24
38	Bimetallic Exsolved Heterostructures of Controlled Composition with Tunable Catalytic Properties. <i>ACS Nano</i> , 2022, 16, 8904-8916.	7.3	24
39	A comparative study of the H <sub>2</sub> -assisted selective catalytic reduction of nitric oxide by propene over noble metal (Pt, Pd, Ir)/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1629-1641.	3.3	23
40	Ni Catalysts Based on Attapulgite for Hydrogen Production through the Glycerol Steam Reforming Reaction. <i>Catalysts</i> , 2019, 9, 650.	1.6	23
41	Continuous selective deoxygenation of palm oil for renewable diesel production over Ni catalysts supported on Al <sub>2</sub> O <sub>3</sub> and La <sub>2</sub> O <sub>3</sub> –Al <sub>2</sub> O <sub>3</sub> . <i>RSC Advances</i> , 2021, 11, 8569-8584.	1.7	21
42	Recent Progress in the Steam Reforming of Bio-Oil for Hydrogen Production: A Review of Operating Parameters, Catalytic Systems and Technological Innovations. <i>Catalysts</i> , 2021, 11, 1526.	1.6	19
43	Effect of Active Metal Supported on SiO <sub>2</sub> for Selective Hydrogen Production from the Glycerol Steam Reforming Reaction. <i>BioResources</i> , 2016, 11, .	0.5	18
44	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. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-11.	1.5	18
45	The Effect of Noble Metal (M: Ir, Pt, Pd) on M/Ce <sub>2</sub> O <sub>3</sub> - $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Catalysts for Hydrogen Production via the Steam Reforming of Glycerol. <i>Catalysts</i> , 2020, 10, 790.	1.6	18
46	Cerium oxide catalysts for oxidative coupling of methane reaction: Effect of lithium, samarium and lanthanum dopants. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107259.	3.3	18
47	Catalytic fast pyrolysis of agricultural residues and dedicated energy crops for the production of high energy density transportation biofuels. Part II: Catalytic research. <i>Renewable Energy</i> , 2022, 189, 315-338.	4.3	18
48	Studying the stability of Ni supported on modified with CeO <sub>2</sub> alumina catalysts for the biogas dry reforming reaction. <i>Materials Today: Proceedings</i> , 2018, 5, 27607-27616.	0.9	17
49	Hydrogen production via steam reforming of glycerol over Ce-La-Cu-O ternary oxide catalyst: An experimental and DFT study. <i>Applied Surface Science</i> , 2022, 586, 152798.	3.1	16
50	Towards maximizing conversion of ethane and carbon dioxide into synthesis gas using highly stable Ni-perovskite catalysts. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 61, 102046.	3.3	14
51	Selective Catalytic Reduction of NO <sub>x</sub> over Perovskite-Based Catalysts Using C <sub>x</sub> H <sub>y</sub> (O <sub>z</sub> ), H <sub>2</sub> and CO as Reducing Agents—A Review of the Latest Developments. <i>Nanomaterials</i> , 2022, 12, 1042.	1.9	10
52	Oxidative coupling of methane on Li/CeO <sub>2</sub> based catalysts: Investigation of the effect of Mg- and La-doping of the CeO <sub>2</sub> support. <i>Molecular Catalysis</i> , 2022, 520, 112157.	1.0	9
53	Theoretical Investigation of the Deactivation of Ni Supported Catalysts for the Catalytic Deoxygenation of Palm Oil for Green Diesel Production. <i>Catalysts</i> , 2021, 11, 747.	1.6	8
54	Dataset of inhalable particulate matter concentrations in the region of West Macedonia, Greece for an 11-year period. <i>Data in Brief</i> , 2022, 41, 107883.	0.5	7

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55	Hydrogenation of carbon dioxide (CO <sub>2</sub> ) 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
56	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
57	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
58	Graphene Nanoplatelets-Based Ni-Zeolite Composite Catalysts for Heptane Hydrocracking. Journal of Carbon Research, 2020, 6, 31.	1.4	5
59	Cost-Effective Adsorption of Oxidative Coupling-Derived Ethylene Using a Molecular Sieve. Chemical Engineering and Technology, 2021, 44, 2041.	0.9	4
60	Attitudes of Greek university students towards energy and the environment. Global Nest Journal, 2014, 16, 856-865.	0.3	4
61	Structural Investigation of the Carbon Deposits on Ni/Al <sub>2</sub> O <sub>3</sub> Catalyst Modified by CaO-MgO for the Biogas Dry Reforming Reaction. , 2020, 2, .		3
62	Cloud-Based Decision Support System for Air Quality Management. Climate, 2022, 10, 39.	1.2	3
63	MOLYBDENUM SUPPORTED ON CARBON COVERED ALUMINA: ACTIVE SITES FOR n-BUTANOL DEHYDROGENATION AND KETONIZATION. Molecular Catalysis, 2020, 495, 111159.	1.0	2
64	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
65	Removal of Hydrogen Sulfide (H <sub>2</sub> S) Using MOFs: A Review of the Latest Developments. , 2020, 2, .		1