Gabriella Garbarino

List of Publications by Year
in descending order

55 papers	2,365 citations	172207 29 h-index	205818 48 g-index
55 all docs	55 docs citations	55 times ranked	2663 citing authors

#	Article	IF	Citations
1	A study of the methanation of carbon dioxide on Ni/Al2O3 catalysts at atmospheric pressure. International Journal of Hydrogen Energy, 2014, 39, 11557-11565.	3.8	225
2	Methanation of carbon dioxide on Ru/Al 2 O 3 andÂNi/Al 2 O 3 catalysts at atmospheric pressure: Catalysts activation, behaviour and stability. International Journal of Hydrogen Energy, 2015, 40, 9171-9182.	3.8	179
3	A study of Ni/La-Al2O3 catalysts: A competitive system for CO2 methanation. Applied Catalysis B: Environmental, 2019, 248, 286-297.	10.8	142
4	A study of Ni/Al2O3 and Niâ€“La/Al2O3 catalysts for the steam reforming of ethanol and phenol. Applied Catalysis B: Environmental, 2015, 174-175, 21-34.	10.8	104
5	Methanation of carbon dioxide on Ru/Al2O3: Catalytic activity and infrared study. Catalysis Today, 2016, 277, 21-28.	2.2	94
6	Low-Temperature Dehydrogenation of Ethanol on Atomically Dispersed Gold Supported on ZnZrO_{<i>x</i>}. ACS Catalysis, 2016, 6, 210-218.	5.5	89
7	Ni-Mn catalysts on silica-modified alumina for CO2 methanation. Journal of Catalysis, 2020, 382, 358-371.	3.1	70
8	Facile synthesis of a mesoporous alumina and its application as a support of Ni-based autothermal reforming catalysts. International Journal of Hydrogen Energy, 2016, 41, 3456-3464.	3.8	68
9	Ceriaâ€“zirconia based catalysts for ethanol steam reforming. Fuel, 2015, 153, 166-175.	3.4	66
10	Cobalt-based nanoparticles as catalysts for low temperature hydrogen production by ethanol steam reforming. International Journal of Hydrogen Energy, 2013, 38, 82-91.	3.8	64
11	Ni/SiO2-Al2O3 catalysts for CO2 methanation: Effect of La2O3 addition. Applied Catalysis B: Environmental, 2021, 284, 119697.	10.8	59
12	Spectroscopic characterization of Ni/Al2O3 catalytic materials for the steam reforming of renewables. Applied Catalysis A: General, 2013, 452, 163-173.	2.2	57
13	The state of nickel in spent Fluid Catalytic Cracking catalysts. Applied Catalysis A: General, 2014, 486, 176-186.	2.2	53
14	Steam reforming of ethanolâ€“phenol mixture on Ni/Al2O3: Effect of Ni loading and sulphur deactivation. Applied Catalysis B: Environmental, 2013, 129, 460-472.	10.8	52
15	Unsupported versus alumina-supported Ni nanoparticles as catalysts for steam/ethanol conversion and CO2 methanation. Journal of Molecular Catalysis A, 2014, 383-384, 10-16.	4.8	52
16	Preparation and characterization of mesoporous nanocrystalline La-, Ce-, Zr-, Sr-containing Ni Al2O3 methane autothermal reforming catalysts. International Journal of Hydrogen Energy, 2016, 41, 8855-8862.	3.8	52
17	Tuning of product selectivity in the conversion of ethanol to hydrocarbons over H-ZSM-5 based zeolite catalysts. Fuel Processing Technology, 2015, 137, 290-297.	3.7	47
18	Steam reforming of biomass-derived organics: Interactions of different mixture components on Ni/Al 2 O 3 based catalysts. Applied Catalysis B: Environmental, 2016, 187, 386-398.	10.8	47

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19	Steam reforming of ethanolâ€“phenol mixture on Ni/Al2O3: Effect of magnesium and boron on catalytic activity in the presence and absence of sulphur. Applied Catalysis B: Environmental, 2014, 147, 813-826.	10.8	46
20	Acido-basicity of lanthana/alumina catalysts and their activity in ethanol conversion. Applied Catalysis B: Environmental, 2017, 200, 458-468.	10.8	45
21	Ethanol and diethyl ether catalytic conversion over commercial alumina and lanthanum-doped alumina: Reaction paths, catalyst structure and coking. Applied Catalysis B: Environmental, 2018, 236, 490-500.	10.8	42
22	A study of ethanol dehydrogenation to acetaldehyde over copper/zinc aluminate catalysts. Catalysis Today, 2020, 354, 167-175.	2.2	42
23	Reutilization of silicon- and aluminum- containing wastes in the perspective of the preparation of SiO2-Al2O3 based porous materials for adsorbents and catalysts. Waste Management, 2020, 103, 146-158.	3.7	39
24	Graphitic Carbon Nitrideâ€“Nickel Catalyst: From Material Characterization to Efficient Ethanol Electrooxidation. ACS Sustainable Chemistry and Engineering, 2020, 8, 7244-7255.	3.2	38
25	On the detectability limits of nickel species on NiO/Î³-Al 2 O 3 catalytic materials. Applied Catalysis A: General, 2016, 525, 180-189.	2.2	35
26	Î³-Alumina and Amorphous Silicaâ€“Alumina: Structural Features, Acid Sites and the Role of Adsorbed Water. Topics in Catalysis, 2017, 60, 1554-1564.	1.3	35
27	Preparation of supported catalysts: A study of the effect of small amounts of silica on Ni/Al2O3 catalysts. Applied Catalysis A: General, 2015, 505, 86-97.	2.2	34
28	Steam reforming of phenolâ€“ethanol mixture over 5% Ni/Al2O3. Applied Catalysis B: Environmental, 2012, 113-114, 281-289.	10.8	32
29	NbP catalyst for furfural production: FT IR studies of surface properties. Applied Catalysis A: General, 2015, 502, 388-398.	2.2	32
30	On the consistency of results arising from different techniques concerning the nature of supported metal oxide (nano)particles. The case of NiO/Al2O3. Catalysis Communications, 2014, 51, 37-41.	1.6	28
31	Adsorption and separation of CO 2 from N 2 -rich gas on zeolites: Na-X faujasite vs Na-mordenite. Journal of CO2 Utilization, 2017, 19, 266-275.	3.3	28
32	A study of ethanol dehydrogenation to acetaldehyde over supported copper catalysts: Catalytic activity, deactivation and regeneration. Applied Catalysis A: General, 2020, 602, 117710.	2.2	28
33	Support effects in metal catalysis: a study of the behavior of unsupported and silica-supported cobalt catalysts in the hydrogenation of CO2 at atmospheric pressure. Catalysis Today, 2020, 345, 213-219.	2.2	27
34	Unsupported cobalt nanoparticles as catalysts: Effect of preparation method on catalytic activity in CO2 methanation and ethanol steam reforming. International Journal of Hydrogen Energy, 2019, 44, 27319-27328.	3.8	25
35	Synthesis of high value-added Naâ€“P1 and Na-FAU zeolites using waste glass from fluorescent tubes and aluminum scraps. Materials Chemistry and Physics, 2020, 248, 122903.	2.0	25
36	Pyrolysis of grape marc before and after the recovery of polyphenol fraction. Fuel Processing Technology, 2016, 153, 121-128.	3.7	24

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37	A Study on CO_2 Methanation and Steam Methane Reforming over Commercial Ni/Calcium Aluminate Catalysts. Energies, 2020, 13, 2792.	1.6	24
38	Pure vs ultra-pure Î³-alumina: A spectroscopic study and catalysis of ethanol conversion. Catalysis Communications, 2015, 70, 77-81.	1.6	22
39	Hydrogen from steam reforming of ethanol over cobalt nanoparticles: Effect of boron impurities. Applied Catalysis A: General, 2016, 518, 67-77.	2.2	21
40	Cobalt nanoparticles mechanically deposited on Î±â€Al₂O₃: a competitive catalyst for the production of hydrogen through ethanol steam reforming. Journal of Chemical Technology and Biotechnology, 2019, 94, 538-546.	1.6	20
41	Heterogeneous Catalysis in (Bio)Ethanol Conversion to Chemicals and Fuels: Thermodynamics, Catalysis, Reaction Paths, Mechanisms and Product Selectivities. Energies, 2020, 13, 3587.	1.6	20
42	Improvement of Ni/Al₂O₃ Catalysts for Low-Temperature CO₂ Methanation by Vanadium and Calcium Oxide Addition. Industrial & Engineering Chemistry Research, 2021, 60, 6554-6564.	1.8	20
43	On the Role of Support in Metallic Heterogeneous Catalysis: A Study of Unsupported Nickelâ€“Cobalt Alloy Nanoparticles in Ethanol Steam Reforming. Catalysis Letters, 2019, 149, 929-941.	1.4	17
44	A study of the deactivation of low loading Ni/Al_2O_3 steam reforming catalyst by tetrahydrothiophene. Catalysis Communications, 2013, 38, 67-73.	1.6	14
45	Modeling of Laboratory Steam Methane Reforming and CO_2 Methanation Reactors. Energies, 2020, 13, 2624.	1.6	14
46	A study of ethanol conversion over zinc aluminate catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2018, 124, 503-522.	0.8	12
47	Catalytic abatement of biomass tar: a technological perspective of Ni-based catalysts. Rendiconti Lincei, 2017, 28, 69-85.	1.0	11
48	Modification of the properties of Î³-alumina as a support for nickel and molybdate catalysts by addition of silica. Catalysis Today, 2021, 378, 57-64.	2.2	11
49	On the use of infrared spectrometer as detector for Temperature Programmed (TP) techniques in catalysts characterization. Journal of Industrial and Engineering Chemistry, 2017, 47, 288-296.	2.9	9
50	CO_2 hydrogenation and ethanol steam reforming over Co/SiO_2 catalysts: Deactivation and selectivity switches. Catalysis Today, 2021, 365, 122-131.	2.2	9
51	Lanthanumâ€based catalysts for (bio)ethanol conversion: effect of preparation method on catalytic performance â€“ hard templating <i>versus</i> hydrolysis. Journal of Chemical Technology and Biotechnology, 2021, 96, 1116-1124.	1.6	5
52	Characterization of a mesoporous Î³-Al_2O_3 catalyst: Influence of their properties on ethanol conversion. Materials Today: Proceedings, 2018, 5, 17515-17524.	0.9	4
53	A Study of the Pyrolysis Products of Kraft Lignin. Energies, 2022, 15, 991.	1.6	3
54	A study of molybdena catalysts in ethanol oxidation. Part 1. Unsupported and silicaâ€supported MoO 3. Journal of Chemical Technology and Biotechnology, 0, , .	1.6	2

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55	A study of molybdena catalysts in ethanol oxidation. Part <scp>2</scp>. Aluminaâ€supported and silicaâ€doped aluminaâ€supported <scp>MoO₃</scp>. Journal of Chemical Technology and Biotechnology, 2021, 96, 3304-3315.	1.6	2