Arantxa DavÃ³-QuiÃ±onero

List of Publications by Year
in descending order

38 papers	1,207 citations	471061 17 h-index	377514 34 g-index
38 all docs	38 docs citations	38 times ranked	1198 citing authors

#	Article	IF	Citations
1	Isotopic and in situ DRIFTS study of the CO2 methanation mechanism using Ni/CeO2 and Ni/Al2O3 catalysts. Applied Catalysis B: Environmental, 2020, 265, 118538.	10.8	199
2	Role of Hydroxyl Groups in the Preferential Oxidation of CO over Copper Oxideâ€“Cerium Oxide Catalysts. ACS Catalysis, 2016, 6, 1723-1731.	5.5	158
3	Insights into the Oxygen Vacancy Filling Mechanism in CuO/CeO₂ Catalysts: A Key Step Toward High Selectivity in Preferential CO Oxidation. ACS Catalysis, 2020, 10, 6532-6545.	5.5	128
4	On the soot combustion mechanism using 3DOM ceria catalysts. Applied Catalysis B: Environmental, 2018, 234, 187-197.	10.8	86
5	Improved asymmetrical honeycomb monolith catalyst prepared using a 3D printed template. Journal of Hazardous Materials, 2019, 368, 638-643.	6.5	48
6	Three-dimensionally ordered macroporous PrOx: An improved alternative to ceria catalysts for soot combustion. Applied Catalysis B: Environmental, 2019, 248, 567-572.	10.8	48
7	Ni/LnOx Catalysts (Ln=La, Ce or Pr) for CO₂ Methanation. ChemCatChem, 2019, 11, 810-819.	1.8	44
8	Enhancement of the Generation and Transfer of Active Oxygen in Ni/CeO₂ Catalysts for Soot Combustion by Controlling the Niâ€“Ceria Contact and the Three-Dimensional Structure. Environmental Science & Technology, 2020, 54, 2439-2447.	4.6	39
9	Unexpected stability of CuO/Cryptomelane catalyst under Preferential Oxidation of CO reaction conditions in the presence of CO2 and H2O. Applied Catalysis B: Environmental, 2017, 217, 459-465.	10.8	36
10	New insights into the role of active copper species in CuO/Cryptomelane catalysts for the CO-PROX reaction. Applied Catalysis B: Environmental, 2020, 267, 118372.	10.8	35
11	Active, selective and stable NiO-CeO2 nanoparticles for CO2 methanation. Fuel Processing Technology, 2021, 212, 106637.	3.7	35
12	Design of Monolithic Supports by 3D Printing for Its Application in the Preferential Oxidation of CO (CO-PrOx). ACS Applied Materials & Interfaces, 2019, 11, 36763-36773.	4.0	33
13	CO-PROX Reaction over Co₃O₄|Al₂O₃ Catalystsâ€"Impact of the Spinel Active Phase Faceting on the Catalytic Performance. Journal of Physical Chemistry C, 2019, 123, 20221-20232.	1.5	31
14	Customizable Heterogeneous Catalysts: Nonchanneled Advanced Monolithic Supports Manufactured by 3D-Printing for Improved Active Phase Coating Performance. ACS Applied Materials & Interfaces, 2020, 12, 54573-54584.	4.0	31
15	Design of active sites in Ni/CeO2 catalysts for the methanation of CO2: tailoring the Ni-CeO2 contact. Applied Materials Today, 2020, 19, 100591.	2.3	30
16	CuO/cryptomelane catalyst for preferential oxidation of CO in the presence of H₂: deactivation and regeneration. Catalysis Science and Technology, 2016, 6, 5684-5692.	2.1	24
17	Macroporous carrier-free Sr-Ti catalyst for NOx storage and reduction. Applied Catalysis B: Environmental, 2018, 220, 524-532.	10.8	22
18	Elucidating the Role of the Metal Catalyst and Oxide Support in the Ru/CeO₂-Catalyzed CO₂Methanation Mechanism. Journal of Physical Chemistry C, 2021, 125, 25533-25544.	1.5	17

#	ARTICLE	IF	CITATIONS
19	Intrinsic kinetics of CO2 methanation on low-loaded Ni/Al2O3 catalyst: Mechanism, model discrimination and parameter estimation. Journal of CO2 Utilization, 2022, 57, 101888.	3.3	17
20	Effect of Ru loading on Ru/CeO2 catalysts for CO2 methanation. Molecular Catalysis, 2021, 515, 111911.	1.0	15
21	Kinetics, Model Discrimination, and Parameters Estimation of CO₂ Methanation on Highly Active Ni/CeO₂ Catalyst. Industrial & Engineering Chemistry Research, 2022, 61, 10419-10435.	1.8	14
22	Keyâ€lock Ceria Catalysts for the Control of Diesel Engine Soot Particulate Emissions. ChemCatChem, 2020, 12, 1772-1781.	1.8	12
23	Effect of Pr in CO₂ Methanation Ru/CeO₂ Catalysts. Journal of Physical Chemistry C, 2021, 125, 12038-12049.	1.5	12
24	Monitoring by in situ NAP-XPS of active sites for CO2 methanation on a Ni/CeO2 catalyst. Journal of CO2 Utilization, 2022, 60, 101980.	3.3	12
25	Mineral Manganese Oxides as Oxidation Catalysts: Capabilities in the CO-PROX Reaction. ACS Sustainable Chemistry and Engineering, 2021, 9, 6329-6336.	3.2	11
26	Copperâ€Lanthanum Catalysts for NOx and Soot Removal. ChemCatChem, 2020, 12, 6375-6384.	1.8	10
27	Templated Synthesis of Pr-Doped Ceria with Improved Micro and Mesoporosity Porosity, Redox Properties and Catalytic Activity. Catalysis Letters, 2018, 148, 258-266.	1.4	9
28	Rapidâ€Scan Operando Infrared Spectroscopy. ChemCatChem, 2016, 8, 1905-1908.	1.8	8
29	PrO_x catalysts for the combustion of soot generated in diesel engines: effect of CuO and 3DOM structures. Catalysis Science and Technology, 2019, 9, 2553-2562.	2.1	8
30	Improved CO Oxidation Activity of 3DOM Pr-Doped Ceria Catalysts: Something Other Than an Ordered Macroporous Structure. Catalysts, 2017, 7, 67.	1.6	6
31	High Performance Tunable Catalysts Prepared by Using 3D Printing. Materials, 2021, 14, 5017.	1.3	6
32	PrOx nanoparticles: Active and stable catalysts for soot combustion. Applied Surface Science, 2021, 563, 150183.	3.1	6
33	Sponge-like carbon monoliths: Porosity control of 3D-printed carbon supports and its influence on the catalytic performance. Chemical Engineering Journal, 2022, 432, 134218.	6.6	6
34	Shaping a soot combustion Ce0.5Pr0.5Ox catalyst. Applied Surface Science, 2022, 584, 152513.	3.1	4
35	Investigations of the Effect of H2 in CO Oxidation over Ceria Catalysts. Catalysts, 2021, 11, 1556.	1.6	3
36	Room Temperature Fabrication of Macroporous Lignin Membranes for the Scalable Production of Black Silicon. Biomacromolecules, 2022, 23, 2512-2521.	2.6	3

#	Article	IF	Citations
37	Fabrication of High-Îº Dielectric Metal Oxide Films on Topographically Patterned Substrates: Polymer Brush-Mediated Depositions. ACS Applied Materials & Interfaces, 0, , .	4.0	1
38	Mathematical Modeling of Preferential CO Oxidation Reactions under Advectionâ€"Diffusion Conditions in a 3D-Printed Reactive Monolith. Industrial & Engineering Chemistry Research, 0, , .	1.8	0