Albert Gili

List of Publications by Year
in descending order

26 papers	602 citations	623734 14 h-index	610901 24 g-index
26 all docs	26 docs citations	26 times ranked	685 citing authors

#	Article	IF	Citations
1	Surface Carbon as a Reactive Intermediate in Dry Reforming of Methane to Syngas on a 5% Ni/MnO Catalyst. ACS Catalysis, 2018, 8, 8739-8750.	11.2	60
2	In Situ-Determined Catalytically Active State of LaNiO₃ in Methane Dry Reforming. ACS Catalysis, 2020, 10, 1102-1112.	11.2	55
3	Solâ€“gel method for synthesis of Mnâ€“Na2WO4/SiO2 catalyst for methane oxidative coupling. Catalysis Today, 2014, 236, 12-22.	4.4	47
4	Mechanistic insights into the catalytic methanol steam reforming performance of Cu/ZrO2 catalysts by in situ and operando studies. Journal of Catalysis, 2020, 391, 497-512.	6.2	41
5	Steering the Methane Dry Reforming Reactivity of Ni/La₂O₃ Catalysts by Controlled In Situ Decomposition of Doped La₂NiO₄ Precursor Structures. ACS Catalysis, 2021, 11, 43-59.	11.2	38
6	Revealing the Mechanism of Multiwalled Carbon Nanotube Growth on Supported Nickel Nanoparticles by in Situ Synchrotron X-ray Diffraction, Density Functional Theory, and Molecular Dynamics Simulations. ACS Catalysis, 2019, 9, 6999-7011.	11.2	36
7	Transmission <i>in situ</i> and <i>operando</i> high temperature X-ray powder diffraction in variable gaseous environments. Review of Scientific Instruments, 2018, 89, 033904.	1.3	33
8	On the structural stability of crystalline ceria phases in undoped and acceptor-doped ceria materials under <i>in situ</i> reduction conditions. CrystEngComm, 2019, 21, 145-154.	2.6	32
9	Performance Analysis of a Porous Packed Bed Membrane Reactor for Oxidative Coupling of Methane: Structural and Operational Characteristics. Energy & Fuels, 2014, 28, 877-890.	5.1	30
10	Catalysts by pyrolysis: Direct observation of chemical and morphological transformations leading to transition metal-nitrogen-carbon materials. Materials Today, 2021, 47, 53-68.	14.2	30
11	Design and demonstration of an experimental membrane reactor set-up for oxidative coupling of methane. Chemical Engineering Research and Design, 2013, 91, 2671-2681.	5.6	28
12	Reactive metal-support interaction in the Cu-In₂O₃ system: intermetallic compound formation and its consequences for CO₂-selective methanol steam reforming. Science and Technology of Advanced Materials, 2019, 20, 356-366.	6.1	26
13	Clay in situ resource utilization with Mars global simulant slurries for additive manufacturing and traditional shaping of unfired green bodies. Acta Astronautica, 2020, 174, 241-253.	3.2	23
14	Mechanistic in situ insights into the formation, structural and catalytic aspects of the La2NiO4 intermediate phase in the dry reforming of methane over Ni-based perovskite catalysts. Applied Catalysis A: General, 2021, 612, 117984.	4.3	16
15	Prussian Blue Ironâ€“Cobalt Mesocrystals as a Template for the Growth of Fe/Co Carbide (Cementite) and Fe/Co Nanocrystals. Chemistry of Materials, 2019, 31, 8163-8173.	6.7	15
16	Atomic-Scale Insights into Nickel Exsolution on LaNiO₃ Catalysts via <i>In Situ</i> Electron Microscopy. Journal of Physical Chemistry C, 2022, 126, 786-796.	3.1	14
17	Steering the methanol steam reforming performance of Cu/ZrO2 catalysts by modification of the Cu-ZrO2 interface dimensions resulting from Cu loading variation. Applied Catalysis A: General, 2021, 623, 118279.	4.3	13
18	The solâ€“gel autocombustion as a route towards highly CO₂-selective, active and long-term stable Cu/ZrO₂ methanol steam reforming catalysts. Materials Chemistry Frontiers, 2021, 5, 5093-5105.	5.9	12

#	Article	IF	Citations
19	Hydrogen reduction and metal-support interaction in a metastable metal-oxide system: Pd on rhombohedral In2O3. Journal of Solid State Chemistry, 2018, 266, 93-99.	2.9	11
20	Ceria-Based Dual-Phase Membranes for High-Temperature Carbon Dioxide Separation: Effect of Iron Doping and Pore Generation with MgO Template. Membranes, 2019, 9, 108.	3.0	8
21	Sintering of ceramics for clay in situ resource utilization on Mars. Open Ceramics, 2020, 3, 100008.	2.0	8
22	Silicon oxycarbonitride ceramic containing nickel nanoparticles: from design to catalytic application. Materials Advances, 2021, 2, 1715-1730.	5.4	8
23	Zirconium Oxycarbide: A Highly Stable Catalyst Material for Electrochemical Energy Conversion. ChemPhysChem, 2019, 20, 3067-3073.	2.1	6
24	Elucidating the role of earth alkaline doping in perovskite-based methane dry reforming catalysts. Catalysis Science and Technology, 2022, 12, 1229-1244.	4.1	6
25	Formation of Pd-Ce intermetallic compounds by reductive metal-support interaction. Journal of Solid State Chemistry, 2018, 265, 176-183.	2.9	3
26	Steering the methanol steam reforming reactivity of intermetallic Cuâ€“In compounds by redox activation: stability <i>vs.</i> formation of an intermetallic compoundâ€“oxide interface. Catalysis Science and Technology, 2021, 11, 5518-5533.	4.1	3