HÃ©ctor Hernando

List of Publications by Year
in descending order

17	548	758635 12	887659 17
papers	citations	h-index	g-index

17	17	17	596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deactivation and regeneration of solid acid and base catalyst bodies used in cascade for bio-oil synthesis and upgrading. Journal of Catalysis, 2022, 405, 641-651.	3.1	3
2	ZSM-5 zeolites performance assessment in catalytic pyrolysis of PVC-containing real WEEE plastic wastes. Catalysis Today, 2022, 390-391, 210-220.	2.2	34
3	Utilisation of a basic K-grafted USY zeolite in catalytic pyrolysis of wheat straw to produce valuable oxygenated compounds. Catalysis Today, 2022, 390-391, 198-209.	2.2	1
4	Enhanced bio-oil upgrading in biomass catalytic pyrolysis using KH-ZSM-5 zeolite with acid-base properties. Biomass Conversion and Biorefinery, 2021, 11, 2311-2323.	2.9	16
5	Effect of Mesoporosity, Acidity and Crystal Size of Zeolite ZSMâ€•5â€‰on Catalytic Performance during the Exâ€•situ Catalytic Fast Pyrolysis of Biomass. ChemCatChem, 2021, 13, 1207-1219.	1.8	16
6	Upscaling Effects on Alkali Metalâ€•Grafted Ultrastable Y Zeolite Extrudates for Modeled Catalytic Deoxygenation of Bioâ€•oils. ChemCatChem, 2021, 13, 1951-1965.	1.8	7
7	Evaluating fractional pyrolysis for bio-oil speciation into holocellulose and lignin derived compounds. Journal of Analytical and Applied Pyrolysis, 2021, 154, 105019.	2.6	19
8	Selective Decarboxylation of Fatty Acids Catalyzed by Pd-Supported Hierarchical ZSM-5 Zeolite. Energy & Fuels, 2021, 35, 17167-17181.	2.5	11
9	Cascade Deoxygenation Process Integrating Acid and Base Catalysts for the Efficient Production of Second-Generation Biofuels. ACS Sustainable Chemistry and Engineering, 2019, 7, 18027-18037.	3.2	11
10	The crucial role of clay binders in the performance of ZSM-5 based materials for biomass catalytic pyrolysis. Catalysis Science and Technology, 2019, 9, 789-802.	2.1	35
11	Scalingâ€•Up of Bioâ€•Oil Upgrading during Biomass Pyrolysis over ZrO₂/ZSMâ€•5â€•Attapulgite. ChemSusChem, 2019, 12, 2428-2438.	3.6	17
12	Catalytic Copyrolysis of Lignocellulose and Polyethylene Blends over HBeta Zeolite. Industrial & Engineering Chemistry Research, 2019, 58, 6243-6254.	1.8	14
13	Performance of MCM-22 zeolite for the catalytic fast-pyrolysis of acid-washed wheat straw. Catalysis Today, 2018, 304, 30-38.	2.2	32
14	Engineering the acidity and accessibility of the zeolite ZSM-5 for efficient bio-oil upgrading in catalytic pyrolysis of lignocellulose. Green Chemistry, 2018, 20, 3499-3511.	4.6	101
15	Biomass catalytic fast pyrolysis over hierarchical ZSM-5 and Beta zeolites modified with Mg and Zn oxides. Biomass Conversion and Biorefinery, 2017, 7, 289-304.	2.9	67
16	Bio-oil production by lignocellulose fast-pyrolysis: Isolating and comparing the effects of indigenous versus external catalysts. Fuel Processing Technology, 2017, 167, 563-574.	3.7	48
17	Lamellar and pillared ZSM-5 zeolites modified with MgO and ZnO for catalytic fast-pyrolysis of eucalyptus woodchips. Catalysis Today, 2016, 277, 171-181.	2.2	116