

HÃ©ctor Hernando

List of Publications by Year in descending order

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17
papers

548
citations

758635

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887659

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times ranked

596
citing authors

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