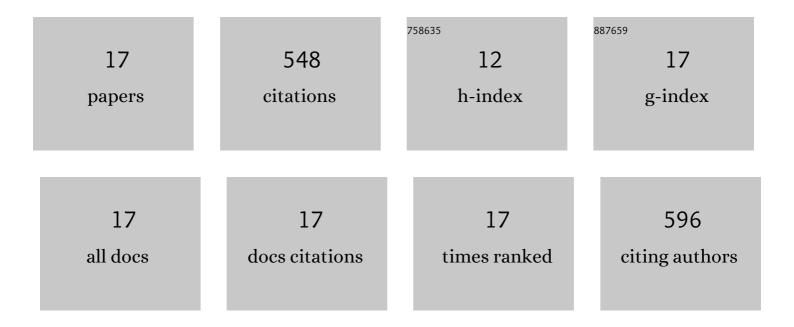
## Héctor Hernando

List of Publications by Year in descending order

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| #  | 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€5 on Catalytic Performance during the<br>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<br>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<br>& 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 ZrO <sub>2</sub> /ZSMâ€5â€Attapulgite.<br>ChemSusChem, 2019, 12, 2428-2438.  | 3.6 | 17        |
| 12 | Catalytic Copyrolysis of Lignocellulose and Polyethylene Blends over HBeta Zeolite. Industrial &<br>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<br>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       |