

Juan Antonio Cecilia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/355342/publications.pdf>

Version: 2024-02-01

145
papers

5,072
citations

81839

39
h-index

110317

64
g-index

148
all docs

148
docs citations

148
times ranked

5253
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Chitosan: A Natural Biopolymer with a Wide and Varied Range of Applications. <i>Molecules</i> , 2020, 25, 3981. | 1.7 | 246 |
| 2 | A novel method for preparing an active nickel phosphide catalyst for HDS of dibenzothiophene. <i>Journal of Catalysis</i> , 2009, 263, 4-15. | 3.1 | 214 |
| 3 | Studies of the synthesis of transition metal phosphides and their activity in the hydrodeoxygenation of a biofuel model compound. <i>Journal of Catalysis</i> , 2012, 294, 184-198. | 3.1 | 214 |
| 4 | Oxygen-removal of dibenzofuran as a model compound in biomass derived bio-oil on nickel phosphide catalysts: Role of phosphorus. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 140-149. | 10.8 | 185 |
| 5 | Gas-phase hydrogenation of furfural to furfuryl alcohol over Cu/ZnO catalysts. <i>Journal of Catalysis</i> , 2016, 336, 107-115. | 3.1 | 180 |
| 6 | Characterization of calcium oxide catalysts from natural sources and their application in the transesterification of sunflower oil. <i>Bioresource Technology</i> , 2014, 151, 207-213. | 4.8 | 169 |
| 7 | An Overview of the Biolubricant Production Process: Challenges and Future Perspectives. <i>Processes</i> , 2020, 8, 257. | 1.3 | 116 |
| 8 | Characterization and application of dolomite as catalytic precursor for canola and sunflower oils for biodiesel production. <i>Chemical Engineering Journal</i> , 2015, 269, 35-43. | 6.6 | 101 |
| 9 | Dibenzothiophene hydrodesulfurization over cobalt phosphide catalysts prepared through a new synthetic approach: Effect of the support. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 100-113. | 10.8 | 97 |
| 10 | CO ₂ adsorption on amine modified mesoporous silicas: Effect of the progressive disorder of the honeycomb arrangement. <i>Microporous and Mesoporous Materials</i> , 2015, 209, 172-183. | 2.2 | 96 |
| 11 | Ni ₂ P and CoP catalysts prepared from phosphite-type precursors for HDS and HDN competitive reactions. <i>Applied Catalysis A: General</i> , 2010, 390, 253-263. | 2.2 | 90 |
| 12 | Selective production of furfuryl alcohol from furfural by catalytic transfer hydrogenation over commercial aluminas. <i>Applied Catalysis A: General</i> , 2018, 556, 1-9. | 2.2 | 87 |
| 13 | Adsorption study of reactive dyes onto porous clay heterostructures. <i>Applied Clay Science</i> , 2017, 135, 35-44. | 2.6 | 80 |
| 14 | Nickel and cobalt phosphides as effective catalysts for oxygen removal of dibenzofuran: role of contact time, hydrogen pressure and hydrogen/feed molar ratio. <i>Catalysis Science and Technology</i> , 2015, 5, 3403-3415. | 2.1 | 79 |
| 15 | CO ₂ adsorption on APTES functionalized mesocellular foams obtained from mesoporous silicas. <i>Microporous and Mesoporous Materials</i> , 2014, 187, 125-134. | 2.2 | 73 |
| 16 | Gas-phase hydrogenation of furfural over Cu/CeO ₂ catalysts. <i>Catalysis Today</i> , 2017, 279, 327-338. | 2.2 | 73 |
| 17 | The Influence of the Support on the Formation of Ni ₂ P Based Catalysts by a New Synthetic Approach. Study of the Catalytic Activity in the Hydrodesulfurization of Dibenzothiophene. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17032-17044. | 1.5 | 72 |
| 18 | Influence of the silica support on the activity of Ni and Ni ₂ P based catalysts in the hydrodechlorination of chlorobenzene. Study of factors governing catalyst deactivation. <i>Journal of Molecular Catalysis A</i> , 2013, 368-369, 78-87. | 4.8 | 65 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Evaluation of porous clay heterostructures modified with amine species as adsorbent for the CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2017, 249, 25-33. | 2.2 | 63 |
| 20 | Influence of the niobium supported species on the catalytic dehydration of glycerol to acrolein. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 139-149. | 10.8 | 60 |
| 21 | Evaluation of two fibrous clay minerals (sepiolite and palygorskite) for CO ₂ Capture. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4573-4587. | 3.3 | 60 |
| 22 | Oxidation of lignocellulosic platform molecules to value-added chemicals using heterogeneous catalytic technologies. <i>Catalysis Science and Technology</i> , 2020, 10, 2721-2757. | 2.1 | 60 |
| 23 | Functionalization of hollow silica microspheres by impregnation or grafted of amine groups for the CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2016, 52, 344-356. | 2.3 | 59 |
| 24 | Montmorillonite based porous clay heterostructures: Influence of Zr in the structure and acidic properties. <i>Microporous and Mesoporous Materials</i> , 2013, 176, 95-102. | 2.2 | 57 |
| 25 | CuO-CeO ₂ supported on montmorillonite-derived porous clay heterostructures (PCH) for preferential CO oxidation in H ₂ -rich stream. <i>Catalysis Today</i> , 2015, 253, 126-136. | 2.2 | 57 |
| 26 | Influences of winery "distillery waste compost stability and soil type on soil carbon dynamics in amended soils. <i>Waste Management</i> , 2010, 30, 1966-1975. | 3.7 | 56 |
| 27 | Synthesis of biolubricants by the esterification of free fatty acids from castor oil with branched alcohols using cationic exchange resins as catalysts. <i>Industrial Crops and Products</i> , 2017, 104, 52-61. | 2.5 | 55 |
| 28 | Microwave assisted acid treatment of sepiolite: The role of composition and "crystallinity". <i>Applied Clay Science</i> , 2014, 102, 15-27. | 2.6 | 52 |
| 29 | Synthesis, Characterization, Uses and Applications of Porous Clays Heterostructures: A Review. <i>Chemical Record</i> , 2018, 18, 1085-1104. | 2.9 | 52 |
| 30 | Effect of the treatment with H ₃ PO ₄ on the catalytic activity of Nb ₂ O ₅ supported on Zr-doped mesoporous silica catalyst. Case study: Glycerol dehydration. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 158-168. | 10.8 | 52 |
| 31 | CO ₂ Adsorption of Materials Synthesized from Clay Minerals: A Review. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 514. | 0.8 | 51 |
| 32 | Selective Production of 2-Methylfuran by Gas-Phase Hydrogenation of Furfural on Copper Incorporated by Complexation in Mesoporous Silica Catalysts. <i>ChemSusChem</i> , 2017, 10, 1448-1459. | 3.6 | 49 |
| 33 | "Low Cost" Pore Expanded SBA-15 Functionalized with Amine Groups Applied to CO ₂ Adsorption. <i>Materials</i> , 2015, 8, 2495-2513. | 1.3 | 48 |
| 34 | The effect of structure modifying agents in the SBA-15 for its application in the biomolecules adsorption. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 53-64. | 2.2 | 48 |
| 35 | Porous clays heterostructures as supports of iron oxide for environmental catalysis. <i>Chemical Engineering Journal</i> , 2018, 334, 1159-1168. | 6.6 | 48 |
| 36 | Microwave-assisted nitric acid treatment of sepiolite and functionalization with polyethylenimine applied to CO ₂ capture and CO ₂ /N ₂ separation. <i>Applied Surface Science</i> , 2017, 410, 315-325. | 3.1 | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Selective Furfural Hydrogenation to Furfuryl Alcohol Using Cu-Based Catalysts Supported on Clay Minerals. <i>Topics in Catalysis</i> , 2017, 60, 1040-1053. | 1.3 | 42 |
| 38 | Selective Production of Furan from Gas-Phase Furfural Decarbonylation on Ni-MgO Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7676-7685. | 3.2 | 42 |
| 39 | Comparative study of CuO supported on CeO ₂ , Ce _{0.8} Zr _{0.2} O ₂ and Ce _{0.8} Al _{0.2} O ₂ based catalysts in the CO-PROX reaction. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4102-4108. | 3.8 | 41 |
| 40 | Promotion effect of Ce or Zn oxides for improving furfuryl alcohol yield in the furfural hydrogenation using inexpensive Cu-based catalysts. <i>Molecular Catalysis</i> , 2018, 455, 121-131. | 1.0 | 40 |
| 41 | Total Oxidation of Propane Using CeO ₂ and CuO-CeO ₂ Catalysts Prepared Using Templates of Different Nature. <i>Catalysts</i> , 2017, 7, 96. | 1.6 | 39 |
| 42 | V and Vâ€P containing Zr-SBA-15 catalysts for dehydration of glycerol to acrolein. <i>Catalysis Today</i> , 2015, 254, 43-52. | 2.2 | 38 |
| 43 | The influence of promoters (Zr, La, Tb, Pr) on the catalytic performance of CuO-CeO ₂ systems for the preferential oxidation of CO in the presence of CO ₂ and H ₂ O. <i>Catalysis Today</i> , 2015, 253, 115-125. | 2.2 | 38 |
| 44 | Effectiveness of microwave assisted acid treatment on dioctahedral and trioctahedral smectites. The influence of octahedral composition. <i>Applied Clay Science</i> , 2016, 120, 70-80. | 2.6 | 38 |
| 45 | Nickel oxide supported on porous clay heterostructures as selective catalysts for the oxidative dehydrogenation of ethane. <i>Catalysis Science and Technology</i> , 2016, 6, 3419-3429. | 2.1 | 38 |
| 46 | WO ₃ supported on Zr doped mesoporous SBA-15 silica for glycerol dehydration to acrolein. <i>Applied Catalysis A: General</i> , 2016, 516, 30-40. | 2.2 | 37 |
| 47 | Relevance of the Physicochemical Properties of Calcined Quail Eggshell (CaO) as a Catalyst for Biodiesel Production. <i>Journal of Chemistry</i> , 2017, 2017, 1-12. | 0.9 | 37 |
| 48 | Nickel Phosphide/Silica Catalysts for the Gasâ€Phase Hydrogenation of Furfural to Highâ€Addedâ€Value Chemicals. <i>ChemCatChem</i> , 2017, 9, 2881-2889. | 1.8 | 36 |
| 49 | Natural and Modified Montmorillonite Clays as Catalysts for Synthesis of Biolubricants. <i>Materials</i> , 2018, 11, 1764. | 1.3 | 36 |
| 50 | Insights into CO ₂ adsorption in amino-functionalized SBA-15 synthesized at different aging temperature. <i>Adsorption</i> , 2020, 26, 225-240. | 1.4 | 36 |
| 51 | Graphene-Based Monolithic Nanostructures for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 8612-8621. | 1.8 | 36 |
| 52 | WO ₃ -based catalysts supported on porous clay heterostructures (PCH) with Siâ€Zr pillars for synthetic esters production. <i>Applied Clay Science</i> , 2016, 124-125, 69-78. | 2.6 | 35 |
| 53 | Support effects on NiO-based catalysts for the oxidative dehydrogenation (ODH) of ethane. <i>Catalysis Today</i> , 2019, 333, 10-16. | 2.2 | 35 |
| 54 | Ni and Fe mixed phosphides catalysts for O-removal of a bio-oil model molecule from lignocellulosic biomass. <i>Molecular Catalysis</i> , 2017, 437, 130-139. | 1.0 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Gas phase catalytic hydrodechlorination of chlorobenzene over cobalt phosphide catalysts with different P contents. <i>Journal of Hazardous Materials</i> , 2013, 260, 167-175. | 6.5 | 32 |
| 56 | Vanadium oxide supported on porous clay heterostructure for the partial oxidation of hydrogen sulphide to sulfur. <i>Catalysis Today</i> , 2015, 254, 36-42. | 2.2 | 32 |
| 57 | Evaluation of the ZrO ₂ /Al ₂ O ₃ system as catalysts in the catalytic transfer hydrogenation of furfural to obtain furfuryl alcohol. <i>Applied Catalysis A: General</i> , 2021, 609, 117905. | 2.2 | 32 |
| 58 | Catalytic transfer hydrogenation of furfural to furfuryl alcohol over calcined MgFe hydrotalcites. <i>Applied Clay Science</i> , 2019, 183, 105351. | 2.6 | 31 |
| 59 | Enhanced HDO activity of Ni ₂ P promoted with noble metals. <i>Catalysis Science and Technology</i> , 2016, 6, 7323-7333. | 2.1 | 30 |
| 60 | Freeze-dried Co ₃ O ₄ @CeO ₂ catalysts for the preferential oxidation of CO with the presence of CO ₂ and H ₂ O in the feed. <i>Ceramics International</i> , 2016, 42, 7462-7474. | 2.3 | 30 |
| 61 | CO ₂ /CH ₄ adsorption separation process using pore expanded mesoporous silicas functionalized by APTES grafting. <i>Adsorption</i> , 2015, 21, 565-575. | 1.4 | 29 |
| 62 | Assessment of commercial resins in the biolubricants production from free fatty acids of castor oil. <i>Catalysis Today</i> , 2017, 279, 274-285. | 2.2 | 29 |
| 63 | Glycerol oligomers production by etherification using calcined eggshell as catalyst. <i>Molecular Catalysis</i> , 2017, 433, 282-290. | 1.0 | 28 |
| 64 | Mesoporous Materials: From Synthesis to Applications. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3213. | 1.8 | 27 |
| 65 | Catalytic Behaviour of CuO-CeO ₂ Systems Prepared by Different Synthetic Methodologies in the CO-PROX Reaction under CO ₂ -H ₂ O Feed Stream. <i>Catalysts</i> , 2017, 7, 160. | 1.6 | 26 |
| 66 | Influence of Structure-modifying Agents in the Synthesis of Zr-doped SBA-15 Silica and Their Use as Catalysts in the Furfural Hydrogenation to Obtain High Value-added Products through the Meerwein-Ponndorf-Verley Reduction. <i>International Journal of Molecular Sciences</i> , 2019, 20, 828. | 1.8 | 25 |
| 67 | Catalytic performance of CoMo/Al ₂ O ₃ -MgO-Li(x) formulations in DBT hydrodesulfurization. <i>Catalysis Today</i> , 2016, 271, 35-44. | 2.2 | 24 |
| 68 | Selective Oxidation of Hydrogen Sulfide to Sulfur Using Vanadium Oxide Supported on Porous Clay Heterostructures (PCHs) Formed by Pillars Silica, Silica-Zirconia or Silica-Titania. <i>Materials</i> , 2018, 11, 1562. | 1.3 | 24 |
| 69 | Lignin Depolymerization to BTXs. <i>Topics in Current Chemistry</i> , 2019, 377, 26. | 3.0 | 24 |
| 70 | Industrial Food Waste Valorization: A General Overview. , 2019, , 253-277. | | 24 |
| 71 | Direct Conversion of Levulinic Acid into Valeric Biofuels Using Pd Supported Over Zeolites as Catalysts. <i>Topics in Catalysis</i> , 2019, 62, 579-588. | 1.3 | 24 |
| 72 | Characterization and performance in preferential oxidation of CO of CuO @ CeO ₂ catalysts synthesized using polymethyl metacrylate (PMMA) as template. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11254-11260. | 3.8 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Influence of the synthetic conditions on the composition, morphology of CuMgAl hydrotalcites and their use as catalytic precursor in diesel soot combustion reactions. <i>Applied Clay Science</i> , 2018, 157, 148-157. | 2.6 | 23 |
| 74 | Influence of buffer solutions in the adsorption of human serum proteins onto layered double hydroxide. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 396-409. | 3.6 | 23 |
| 75 | Carbon dioxide adsorption on micro-mesoporous composite materials of ZSM-12/MCM-48 type: The role of the contents of zeolite and functionalized amine. <i>Materials Research Bulletin</i> , 2015, 70, 663-672. | 2.7 | 22 |
| 76 | Glycerol Oligomerization Using Low Cost Dolomite Catalyst. <i>Waste and Biomass Valorization</i> , 2020, 11, 1499-1512. | 1.8 | 22 |
| 77 | Production of biolubricants from soybean oil: Studies for an integrated process with the current biodiesel industry. <i>Chemical Engineering Research and Design</i> , 2021, 165, 456-466. | 2.7 | 22 |
| 78 | Calcium/chitosan spheres as catalyst for biodiesel production. <i>Polymer International</i> , 2015, 64, 242-249. | 1.6 | 19 |
| 79 | Adsorption behavior of bovine serum albumin on Zn ²⁺ -Al and Mg ²⁺ -Al layered double hydroxides. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 748-758. | 1.1 | 19 |
| 80 | Hydrodesulfurization of dibenzothiophene over PtMo/MCM-48 catalysts. <i>Catalysis Communications</i> , 2015, 69, 217-222. | 1.6 | 18 |
| 81 | Influence of the Incorporation of Basic or Amphoteric Oxides on the Performance of Cu-Based Catalysts Supported on Sepiolite in Furfural Hydrogenation. <i>Catalysts</i> , 2019, 9, 315. | 1.6 | 18 |
| 82 | CoxPy Catalysts in HDO of Phenol and Dibenzofuran: Effect of P content. <i>Topics in Catalysis</i> , 2017, 60, 1094-1107. | 1.3 | 17 |
| 83 | Synergistic effect between CaCl ₂ and γ-Al ₂ O ₃ for furfural production by dehydration of hemicellulosic carbohydrates. <i>Applied Catalysis A: General</i> , 2019, 585, 117188. | 2.2 | 17 |
| 84 | Fe ₂ O ₃ supported on hollow micro/mesospheres silica for the catalytic partial oxidation of H ₂ S to sulfur. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109875. | 2.2 | 17 |
| 85 | Tuning Ca ²⁺ -Al-based catalysts TM composition to isomerize or epimerize glucose and other sugars. <i>Green Chemistry</i> , 2020, 22, 1393-1405. | 4.6 | 17 |
| 86 | Hydrodechlorination of polychlorinated molecules using transition metal phosphide catalysts. <i>Journal of Hazardous Materials</i> , 2015, 296, 112-119. | 6.5 | 16 |
| 87 | Amino-modified pillared adsorbent from water-treatment solid wastes applied to CO ₂ /N ₂ separation. <i>Adsorption</i> , 2017, 23, 405-421. | 1.4 | 16 |
| 88 | Influence of pore size and loading for Nb ₂ O ₅ /SBA-15 catalysts on synthetic ester production from free fatty acids of castor oil. <i>Molecular Catalysis</i> , 2017, 436, 267-275. | 1.0 | 16 |
| 89 | Ni supported on sepiolite catalysts for the hydrogenation of furfural to value-added chemicals: influence of the synthesis method on the catalytic performance. <i>Topics in Catalysis</i> , 2019, 62, 535-550. | 1.3 | 16 |
| 90 | Tailoring the selectivity of Cu-based catalysts in the furfural hydrogenation reaction: Influence of the morphology of the silica support. <i>Fuel</i> , 2022, 319, 123827. | 3.4 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Assessing CO ₂ Adsorption on Amino-Functionalized Mesocellular Foams Synthesized at Different Aging Temperatures. <i>Frontiers in Chemistry</i> , 2020, 8, 591766. | 1.8 | 15 |
| 92 | Gas-Phase Hydrogenation of Furfural to Furfuryl Alcohol over Cu-ZnO-Al ₂ O ₃ Catalysts Prepared from Layered Double Hydroxides. <i>Catalysts</i> , 2020, 10, 486. | 1.6 | 15 |
| 93 | Kaolinite-based zeolites synthesis and their application in CO ₂ capture processes. <i>Fuel</i> , 2022, 320, 123953. | 3.4 | 15 |
| 94 | Modification of the textural properties of palygorskite through microwave assisted acid treatment. Influence of the octahedral sheet composition. <i>Applied Clay Science</i> , 2020, 196, 105745. | 2.6 | 14 |
| 95 | Glycerol etherification towards selective diglycerol over mixed oxides derived from hydrotalcites: effect of Ni loading. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 97, 351-364. | 1.1 | 14 |
| 96 | Effect of Polyvinyl Alcohol Ligands on Supported Gold Nano-Catalysts: Morphological and Kinetics Studies. <i>Nanomaterials</i> , 2021, 11, 879. | 1.9 | 14 |
| 97 | Gas phase hydrogenation of furfural to obtain valuable products using commercial Cr-free catalysts as an environmentally sustainable alternative to copper chromite. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105468. | 3.3 | 14 |
| 98 | Valorization of agricultural waste as a carbon materials for selective separation and storage of CO ₂ , H ₂ and N ₂ . <i>Biomass and Bioenergy</i> , 2021, 155, 106297. | 2.9 | 13 |
| 99 | Supported ruthenium catalysts for the aqueous-phase selective hydrogenation of furfural to furfuryl alcohol. <i>Catalysis Today</i> , 2022, 394-396, 81-93. | 2.2 | 13 |
| 100 | Microwave-Assisted Acid Activation of Clays Composed of 2:1 Clay Minerals: A Comparative Study. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 376. | 0.8 | 12 |
| 101 | Adsorption of Salmonella in Clay Minerals and Clay-Based Materials. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 130. | 0.8 | 12 |
| 102 | Effect of the Colloidal Preparation Method for Supported Preformed Colloidal Au Nanoparticles for the Liquid Phase Oxidation of 1,6-Hexanediol to Adipic Acid. <i>Catalysts</i> , 2022, 12, 196. | 1.6 | 11 |
| 103 | Influence of the Structure and Experimental Surfaces Modifications of 2:1 Clay Minerals on the Adsorption Properties of Methylene Blue. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 359. | 0.8 | 10 |
| 104 | Porous SiO ₂ Nanospheres Modified with ZrO ₂ and Their Use in One-Pot Catalytic Processes to Obtain Value-Added Chemicals from Furfural. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18791-18805. | 1.8 | 10 |
| 105 | Aluminum doped mesoporous silica SBA-15 for glycerol dehydration to value-added chemicals. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 342-354. | 1.1 | 9 |
| 106 | Microwave assisted acid treatment of kerolitic clays from the Neogene Madrid Basin (Spain) and its use in CO ₂ capture processes. <i>Microporous and Mesoporous Materials</i> , 2020, 292, 109749. | 2.2 | 9 |
| 107 | The role of nitride species in the gas-phase furfural hydrogenation activity of supported nickel catalysts. <i>Molecular Catalysis</i> , 2020, 487, 110889. | 1.0 | 9 |
| 108 | Adsorption of biomolecules in porous silicas modified with zirconium. Effect of the textural properties and acidity. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 146-154. | 2.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Porous Silicon-Based Catalysts for the Dehydration of Glycerol to High Value-Added Products. <i>Materials</i> , 2018, 11, 1569. | 1.3 | 8 |
| 110 | Enhanced NiO Dispersion on a High Surface Area Pillared Heterostructure Covered by Niobium Leads to Optimal Behaviour in the Oxidative Dehydrogenation of Ethane. <i>Chemistry - A European Journal</i> , 2020, 26, 9371-9381. | 1.7 | 7 |
| 111 | PdO Supported on TiO ₂ for the Oxidative Condensation of Furfural with Ethanol: Insights on Reactivity and Product Selectivity. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10100-10112. | 3.2 | 7 |
| 112 | Towards functionalized graphene/polymer monolithic structures for selective CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2022, 337, 111907. | 2.2 | 7 |
| 113 | Benzothiophene adsorption on M/SBA-15 and M/SBA-15/NH ₄ F modified (M = Fe or Co) in liquid phase batch system. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2315-2323. | 0.9 | 6 |
| 114 | Separation of Light Liquid Paraffin C ₅ -C ₉ with Cuban Volcanic Glass Previously Used in Copper Elimination from Water Solutions. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 295. | 1.3 | 6 |
| 115 | Oxidative Condensation of Furfural with Ethanol Using Pd-Based Catalysts: Influence of the Support. <i>Catalysts</i> , 2020, 10, 1309. | 1.6 | 6 |
| 116 | Catalytic Activity of Mixed Al ₂ O ₃ -ZrO ₂ Oxides for Glucose Conversion into 5-Hydroxymethylfurfural. <i>Catalysts</i> , 2020, 10, 878. | 1.6 | 6 |
| 117 | Recovery of pentoses-containing olive stones for their conversion into furfural in the presence of solid acid catalysts. <i>Chemical Engineering Research and Design</i> , 2020, 143, 1-13. | 2.7 | 6 |
| 118 | Influence of morphology of zirconium-doped mesoporous silicas on 5-hydroxymethylfurfural production from mono-, di- and polysaccharides. <i>Catalysis Today</i> , 2021, 367, 297-309. | 2.2 | 6 |
| 119 | Catalytic Applications of Clay Minerals and Hydrotalcites. <i>Catalysts</i> , 2021, 11, 68. | 1.6 | 6 |
| 120 | Influence of Lewis acidity and CaCl ₂ on the direct transformation of glucose to 5-hydroxymethylfurfural. <i>Molecular Catalysis</i> , 2021, 510, 111685. | 1.0 | 6 |
| 121 | H ₂ S and H ₂ O Combined Effect on CO ₂ Capture by Amino Functionalized Hollow Microsphere Silicas. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10139-10154. | 1.8 | 6 |
| 122 | Synthesis of Porous Clay Heterostructures Modified with SiO ₂ -ZrO ₂ Nanoparticles for the Valorization of Furfural in One-Pot Process. <i>Advanced Sustainable Systems</i> , 2022, 6, . | 2.7 | 6 |
| 123 | The relevance of Lewis acid sites on the gas phase reaction of levulinic acid into ethyl valerate using CoSBA-xAl bifunctional catalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 4280-4293. | 2.1 | 5 |
| 124 | Glyphosate adsorption onto porous clay heterostructure (PCH): kinetic and thermodynamic studies. <i>Brazilian Journal of Chemical Engineering</i> , 2022, 39, 903-917. | 0.7 | 5 |
| 125 | Temperature-Dependent Activity of Gold Nanocatalysts Supported on Activated Carbon in Redox Catalytic Reactions: 5-Hydroxymethylfurfural Oxidation and 4-Nitrophenol Reduction Comparison. <i>Catalysts</i> , 2022, 12, 323. | 1.6 | 5 |
| 126 | Photocatalyzed preferential oxidation of CO under simulated sunlight using Au-transition metal oxide-sepiolite catalysts. <i>Dalton Transactions</i> , 2020, 49, 3946-3955. | 1.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Synthesis of catalysts by pyrolysis of Cu-chitosan complexes and their evaluation in the hydrogenation of furfural to value-added products. <i>Molecular Catalysis</i> , 2021, 512, 111774. | 1.0 | 4 |
| 128 | Protein Adsorption onto Modified Porous Silica by Single and Binary Human Serum Protein Solutions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9164. | 1.8 | 4 |
| 129 | Applicability of mesoporous silica type SBA-15 as feasible support for the immobilization of <i>Yarrowia lipolytica</i> lipase and <i>Candida antarctica</i> lipase B. <i>Brazilian Journal of Chemical Engineering</i> , 2022, 39, 1013-1021. | 0.7 | 4 |
| 130 | LIGHT N-PARAFFINS SEPARATION BY INVERSE GAS CHROMATOGRAPHY WITH CUBAN VOLCANIC GLASS. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 531-539. | 0.7 | 3 |
| 131 | Oxidative condensation/esterification of furfural with ethanol using preformed Au colloidal nanoparticles. Impact of stabilizer and heat treatment protocols on catalytic activity and stability. <i>Molecular Catalysis</i> , 2022, 528, 112438. | 1.0 | 3 |
| 132 | A novel triphenylamine-based dye sensitizer supported on titania nanoparticles and the effect of titania fabrication on its optical properties. <i>Chemical Papers</i> , 2016, 70, . | 1.0 | 2 |
| 133 | Volcanic Glass and its Uses as Adsorbent. , 0, , . | | 2 |
| 134 | Iron phosphides presenting different stoichiometry as nanocatalysts in the HDO of phenol. <i>Catalysis Today</i> , 2020, 349, 117-127. | 2.2 | 2 |
| 135 | 6. Advances in the application of transition metal phosphide catalysts for hydrodeoxygenation reactions of bio-oil from biomass pyrolysis. , 2020, , 145-166. | | 2 |
| 136 | CO ₂ Valorization and Its Subsequent Valorization. <i>Molecules</i> , 2021, 26, 500. | 1.7 | 2 |
| 137 | 2-MeTHF. , 2021, , 75-98. | | 2 |
| 138 | Insights into optimized synthesis conditions of hollow microspheres of silica for water vapor adsorption. <i>Chemical Engineering Research and Design</i> , 2022, 177, 583-593. | 2.7 | 2 |
| 139 | CO ₂ Capture by Reduced Graphene Oxide Monoliths with Incorporated CeO ₂ Grafted with Functionalized Polymer Brushes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11154. | 1.3 | 1 |
| 140 | Microbial Degradation of Lignocellulosic Biomass to Obtain High Value-Added Products. <i>Environmental and Microbial Biotechnology</i> , 2021, , 283-314. | 0.4 | 0 |
| 141 | Design of Activated Carbons from the Cellulose Fraction of Agricultural Waste. Applications in Selective Separation and Storage of Gases. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 142 | Nanosponges for Carbon Dioxide Sequestration. <i>Sustainable Agriculture Reviews</i> , 2019, , 1-39. | 0.6 | 0 |
| 143 | Production of Biofuels by 5-Hydroxymethylfurfural Etherification Using Ion-Exchange Resins as Solid Acid Catalysts. , 2020, 2, . | | 0 |
| 144 | Oxidative Condensation of Furfural with Ethanol Using Preformed AU Colloidal Nanoparticles. Impact of Stabilizer and Heat Treatment Protocols on Catalytic Activity and Stability. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Highly Dispersed Copper Oxide on Silica: Towards an Efficient Catalyst for Continuous Glycerol Dehydration to Acetol. SSRN Electronic Journal, 0, , . | 0.4 | 0 |