# Francesco Mauriello

List of Publications by Year
in descending order



| 61 | 2,161 | 279798 | 233421 |
|---|---|---|---|
| papers | citations | 23 h-index | 45 g-index |

| 69 | 69 | 69 | 2123 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Direct Reuse of Spent Lithium-Ion Batteries as an Efficient Heterogeneous Catalyst for the Reductive Upgrading of Biomass-Derived Furfural. ACS Sustainable Chemistry and Engineering, 2022, 10, 2275-2281. | 6.7 | 11 |
| 2 | From bio-based furanics to biodegradable plastics. CheM, 2022, 8, 897-899. | 11.7 | 6 |
| 3 | AnchoisFert: A New Organic Fertilizer from Fish Processing Waste for Sustainable Agriculture. Global Challenges, 2022, 6, . | 3.6 | 13 |
| 4 | Economic and technical feasibility of AnchoisFert organic fertilizer production. Current Research in Green and Sustainable Chemistry, 2022, 5, 100315. | 5.6 | 5 |
| 5 | Nanostructured Bimetallic Pd-based Catalysts for the Valorization of Lignocellulosic Biomasses. , 2021, , 127-153. | | 0 |
| 6 | Sustainable production of pharmaceutical, nutraceutical and bioactive compounds from biomass and waste. Chemical Society Reviews, 2021, 50, 11191-11207. | 38.1 | 94 |
| 7 | Sustainably Sourced Olive Polyphenols and Omega-3 Marine Lipids: A Synergy Fostering Public Health. ACS Food Science & Technology, 2021, 1, 139-145. | 2.7 | 6 |
| 8 | The Limonene Biorefinery: From Extractive Technologies to Its Catalytic Upgrading into p-Cymene. Catalysts, 2021, 11, 387. | 3.5 | 10 |
| 9 | Integral valorization of orange peel waste through optimized ensiling: Lactic acid and bioethanol production. Chemosphere, 2021, 271, 129602. | 8.2 | 44 |
| 10 | Orange peels-derived hydrochar for chemical sensing applications. Sensors and Actuators B: Chemical, 2021, 341, 130016. | 7.8 | 25 |
| 11 | Hot Research Topics in the Biomass Catalysis Section of the Catalysts Journal in 2018 and 2019. Catalysts, 2021, 11, 153. | 3.5 | 0 |
| 12 | Investigation on the Suitability of Engelhard Titanium Silicate as a Support for Ni-Catalysts in the Methanation Reaction. Catalysts, 2021, 11, 1225. | 3.5 | 3 |
| 13 | A New Biorefinery Approach for the Full Valorisation of Anchovy Residues: Use of the Sludge Generated during the Extraction of Fish Oil as a Nitrogen Supplement in Anaerobic Digestion. Applied Sciences (Switzerland), 2021, 11, 10163. | 2.5 | 2 |
| 14 | Hydrothermal Carbonization as Sustainable Process for the Complete Upgrading of Orange Peel Waste into Value-Added Chemicals and Bio-Carbon Materials. Applied Sciences (Switzerland), 2021, 11, 10983. | 2.5 | 20 |
| 15 | Transfer hydrogenolysis of aromatic ethers promoted by the bimetallic Pd/Co catalyst. Catalysis Today, 2020, 357, 511-517. | 4.4 | 25 |
| 16 | The rise of lignin biorefinery. Current Opinion in Green and Sustainable Chemistry, 2020, 24, 1-6. | 5.9 | 99 |
| 17 | Catalysis with Silver: From Complexes and Nanoparticles to MORALs and Single-Atom Catalysts. Catalysts, 2020, 10, 1343. | 3.5 | 18 |
| 18 | Hydrogenolysis of aromatic ethers under lignin-first conditions. Molecular Catalysis, 2020, 497, 111228. | 2.0 | 32 |

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|---|---|---|---|
| 19 | Recovery of Biomass Fly Ash and HDPE in Innovative Synthetic Lightweight Aggregates for Sustainable Geotechnical Applications. Sustainability, 2020, 12, 6552. | 3.2 | 8 |
| 20 | Reductive catalytic routes towards sustainable production of hydrogen, fuels and chemicals from biomass derived polyols. Renewable and Sustainable Energy Reviews, 2020, 127, 109852. | 16.4 | 58 |
| 21 | Pd/Fe3O4 Nanofibers for the Catalytic Conversion of Lignin-Derived Benzyl Phenyl Ether under Transfer Hydrogenolysis Conditions. Catalysts, 2020, 10, 20. | 3.5 | 19 |
| 22 | Recent catalytic routes for the preparation and the upgrading of biomass derived furfural and 5-hydroxymethylfurfural. Chemical Society Reviews, 2020, 49, 4273-4306. | 38.1 | 559 |
| 23 | Improved Catalytic Transfer Hydrogenation of Levulinate Esters with Alcohols over ZrO2 Catalyst. , 2020, 2, . | | 2 |
| 24 | A Short Overview on the Hydrogen Production Via Aqueous Phase Reforming (APR) of Cellulose, C6-C5 Sugars and Polyols. Catalysts, 2019, 9, 917. | 3.5 | 52 |
| 25 | Catalytic Processes for The Valorization of Biomass Derived Molecules. Catalysts, 2019, 9, 674. | 3.5 | 4 |
| 26 | Transfer Hydrogenation of Methyl and Ethyl Levulinate Promoted by a ZrO<sub>2</sub> Catalyst: Comparison of Batch vs Continuous Gas-Flow Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 9937-9947. | 6.7 | 51 |
| 27 | Tuning Catalytic Properties of Supported Bimetallic Pd/Ir Systems in the Hydrogenation of Cinnamaldehyde by Using the â€œWater-in-Oilâ€•Microemulsion Method. Journal of Chemistry, 2019, 2019, 1-11. | 1.9 | 5 |
| 28 | Bioethanol Production from Unpretreated Cellulose under Neutral Selfsustainable Hydrolysis/Hydrogenolysis Conditions Promoted by the Heterogeneous Pd/Fe<sub>3</sub>O<sub>4</sub> Catalyst. ACS Omega, 2019, 4, 352-357. | 3.5 | 25 |
| 29 | Hydrogenolysis of sorbitol into valuable C3-C2 alcohols at low H2 pressure promoted by the heterogeneous Pd/Fe3O4 catalyst. Molecular Catalysis, 2018, 446, 152-160. | 2.0 | 43 |
| 30 | Sustainable Exploitation of Coffee Silverskin in Water Remediation. Sustainability, 2018, 10, 3547. | 3.2 | 34 |
| 31 | Catalytic Transfer Hydrogenolysis as an Effective Tool for the Reductive Upgrading of Cellulose, Hemicellulose, Lignin, and Their Derived Molecules. Catalysts, 2018, 8, 313. | 3.5 | 58 |
| 32 | Catalytic Transfer Hydrogenolysis of Lignin-Derived Aromatic Ethers Promoted by Bimetallic Pd/Ni Systems. ACS Sustainable Chemistry and Engineering, 2018, 6, 9269-9276. | 6.7 | 112 |
| 33 | Upgrading Lignocellulosic Biomasses: Hydrogenolysis of Platform Derived Molecules Promoted by Heterogeneous Pd-Fe Catalysts. Catalysts, 2017, 7, 78. | 3.5 | 42 |
| 34 | Selective arene production from transfer hydrogenolysis of benzyl phenyl ether promoted by a co-precipitated Pd/Fe<sub>3</sub>O<sub>4</sub> catalyst. Catalysis Science and Technology, 2016, 6, 7937-7941. | 4.1 | 76 |
| 35 | Directing the Cleavage of Ester Câ”O Bonds by Controlling the Hydrogen Availability on the Surface of Coprecipitated Pd/Fe<sub>3</sub>O<sub>4</sub>. ChemCatChem, 2016, 8, 1515-1522. | 3.7 | 16 |
| 36 | Hydrogenolysis vs. aqueous phase reforming (APR) of glycerol promoted by a heterogeneous Pd/Fe catalyst. Catalysis Science and Technology, 2015, 5, 4466-4473. | 4.1 | 37 |

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|---|---|---|---|
| 37 | Aromatic Alcohols as Model Molecules for Studying Hydrogenolysis Reactions Promoted by Palladium Catalysts. Topics in Catalysis, 2015, 58, 1077-1084. | 2.8 | 5 |
| 38 | Exploring the catalytic properties of supported palladium catalysts in the transfer hydrogenolysis of glycerol. Applied Catalysis B: Environmental, 2015, 166-167, 121-131. | 20.2 | 76 |
| 39 | Unravelling the effect of Lewis acid properties of the support on the performance of palladium based catalyst in hydrogenation and hydrogenolysis reactions. Catalysis Today, 2015, 241, 208-213. | 4.4 | 3 |
| 40 | Optically active methacrylic copolymers with side-chain azoaromatic and 9-phenylcarbazole moieties. Reactive and Functional Polymers, 2012, 72, 1-10. | 4.1 | 4 |
| 41 | Polylactide and carbon nanotubes/smectite-clay nanocomposites: Preparation, characterization, sorptive and electrical properties. Applied Clay Science, 2011, 53, 188-194. | 5.2 | 48 |
| 42 | Glycerol Hydrogenolysis Promoted by Supported Palladium Catalysts. ChemSusChem, 2011, 4, 1143-1150. | 6.8 | 67 |
| 43 | Aliphatic carbonyl reduction promoted by palladium catalysts under mild conditions. Applied Catalysis A: General, 2010, 379, 77-86. | 4.3 | 32 |
| 44 | Conversion of cis-2-butene-1,4-diol to hydrofurans on Pd/SiO2 and Pt/SiO2 catalysts under mild conditions: A FT-IR study. Journal of Molecular Catalysis A, 2010, 328, 27-34. | 4.8 | 9 |
| 45 | Synthesis, characterization and photoconductive properties of optically active methacrylic polymers bearing side-chain 9-phenylcarbazole moieties. Polymer, 2010, 51, 368-377. | 3.8 | 23 |
| 46 | Hydrogenation versus isomerization in the reaction of cis-2-butene-1,4-diol over supported catalysts: The role of Group VIII transition metals in driving the products selectivity. Applied Catalysis A: General, 2010, 390, 141-147. | 4.3 | 8 |
| 47 | H-Bonding of Furan and Its Hydrogenated Derivatives with the Isolated Hydroxyl of Amorphous Silica: An IR Spectroscopic and Thermodynamic Study. Journal of Physical Chemistry C, 2010, 114, 18233-18239. | 3.1 | 19 |
| 48 | Synthesis and Photoresponsive Properties of Optically Active Methacrylic Polymers Bearing Sideâ€Chain Azocarbazole Moieties. Macromolecular Chemistry and Physics, 2009, 210, 77-89. | 2.2 | 11 |
| 49 | Relevant chiroptical and thermal properties in optically active methacrylic copolymers containing carbazole and azoaromatic chromophores in the side-chain. Reactive and Functional Polymers, 2009, 69, 898-904. | 4.1 | 6 |
| 50 | Selective conversion of cis-2-butene-1,4-diol to 2-hydroxytetrahydrofuran over K, Ca and Ba metals-promoted Ru/SiO2 catalysts: Role of the promoter. Applied Catalysis A: General, 2009, 357, 106-113. | 4.3 | 16 |
| 51 | HighT<sub>g</sub>, Nonpoled Photorefractive Polymers. Chemistry of Materials, 2009, 21, 2403-2409. | 6.7 | 21 |
| 52 | Selective transfer hydrogenolysis of glycerol promoted by palladium catalysts in absence of hydrogen. Green Chemistry, 2009, 11, 1511. | 9.0 | 87 |
| 53 | Methacrylic Polymers Containing Optically Active Sideâ€Chain Carbazole: Synthesis, Characterization and Photoconductive Properties. Macromolecular Chemistry and Physics, 2008, 209, 944-956. | 2.2 | 14 |
| 54 | Synthesis and chiroptical properties of methacrilic copolymers containing in side-chain optically active carbazole and azochromophores. Proceedings of SPIE, 2007, 6653, 248. | 0.8 | 1 |

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|---|---|---|---|
| 55 | Photoresponsive polymers containing side-chain chiral azocarbazole chromophores as multifunctional materials. , 2007, , . | | 3 |
| 56 | New Optically Active Methacrylic Polymers Bearing Side-Chain Bisazoaromatic Moieties. Macromolecular Chemistry and Physics, 2007, 208, 207-217. | 2.2 | 5 |
| 57 | Optically Active Methacrylic Copolymers Bearing Sideâ€Chain Bisazoaromatic and Bulky Achiral Moieties. Macromolecular Chemistry and Physics, 2007, 208, 1548-1559. | 2.2 | 6 |
| 58 | Synthesis, chiroptical properties and photoinduced birefringence of optically active methacrylic copolymers bearing side-chain bisazoaromatic moieties. European Polymer Journal, 2007, 43, 3550-3561. | 5.4 | 23 |
| 59 | Chiroptical and optical thermoplastic acid sensors based on chiral methacrylic polymers containing azoaromatic moieties. Sensors and Actuators B: Chemical, 2007, 126, 56-61. | 7.8 | 21 |
| 60 | Optically Active Methacrylic Polymers Bearing in the Side Chain the (S)-3-Hydroxypyrrolidinyl Group Linked totrans-bisazoaromatic Chromophore: Synthesis and Characterization. Macromolecular Symposia, 2006, 234, 68-75. | 0.7 | 4 |
| 61 | Synthesis of Optically Active Photoresponsive Multifunctional Polymer Containing the Side-Chain Azocarbazole Chromophore. Macromolecular Chemistry and Physics, 2006, 207, 1805-1813. | 2.2 | 31 |