Paolo P Pescarmona

List of Publications by Year
in descending order

64 papers	4,885 citations	117625 34 h-index	102487 66 g-index
67 all docs	67 docs citations	67 times ranked	5662 citing authors

#	Article	IF	Citations
1	Steering Hydrocarbon Selectivity in CO₂ Electroreduction over Soft-Landed CuO_{<i>x</i>} Nanoparticle-Functionalized Gas Diffusion Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 2691-2702.	8.0	9
2	A Stateâ€ofâ€theâ€Art Update on Integrated CO₂ Capture and Electrochemical Conversion Systems. ChemElectroChem, 2022, 9, .	3.4	37
3	Pickering Emulsions and Antibubbles Stabilized by PLA/PLGA Nanoparticles. Langmuir, 2022, 38, 182-190.	3.5	7
4	Ti and Zr amino-tris(phenolate) catalysts for the synthesis of cyclic carbonates from CO2 and epoxides. Green Chemical Engineering, 2022, 3, 171-179.	6.3	7
5	Use of Nanoscale Carbon Layers on Ag-Based Gas Diffusion Electrodes to Promote CO Production. ACS Applied Nano Materials, 2022, 5, 7723-7732.	5.0	3
6	Oneâ€pot Fixation of CO₂ into Glycerol Carbonate using Ionâ€Exchanged Amberlite Resin Beads as Efficient Metalâ€free Heterogeneous Catalysts. ChemCatChem, 2021, 13, 475-486.	3.7	11
7	The inhibition of the proton donor ability of bicarbonate promotes the electrochemical conversion of CO2 in bicarbonate solutions. Journal of CO2 Utilization, 2021, 48, 101521.	6.8	26
8	Imidazolium-based titanosilicate nanospheres as active catalysts in carbon dioxide conversion: Towards a cascade reaction from alkenes to cyclic carbonates. Journal of CO2 Utilization, 2021, 48, 101529.	6.8	9
9	Cyclic carbonates synthesised from CO2: Applications, challenges and recent research trends. Current Opinion in Green and Sustainable Chemistry, 2021, 29, 100457.	5.9	91
10	Highly-accessible, doped TiO2 nanoparticles embedded at the surface of SiO2 as photocatalysts for the degradation of pollutants under visible and UV radiation. Applied Catalysis A: General, 2021, 621, 118179.	4.3	23
11	Novel non-ionic surfactants synthesised through the reaction of CO2 with long alkyl chain epoxides. Journal of CO2 Utilization, 2021, 50, 101577.	6.8	13
12	Effects of Benzyl-Functionalized Cationic Surfactants on the Inhibition of the Hydrogen Evolution Reaction in CO₂ Reduction Systems. ACS Applied Materials & Interfaces, 2021, 13, 56205-56216.	8.0	15
13	Bimetallic Zeolite Beta Beads with Hierarchical Porosity as BrÃ¸nsted-Lewis Solid Acid Catalysts for the Synthesis of Methyl Lactate. Catalysts, 2021, 11, 1346.	3.5	8
14	Sn-Based Electrocatalyst Stability: A Crucial Piece to the Puzzle for the Electrochemical CO₂ Reduction toward Formic Acid. ACS Energy Letters, 2021, 6, 4317-4327.	17.4	51
15	Transfer hydrogenation from glycerol over a Ni-Co/CeO2 catalyst: A highly efficient and sustainable route to produce lactic acid. Applied Catalysis B: Environmental, 2020, 263, 118273.	20.2	48
16	Efficient and Selective Oxidation of Aromatic Amines to Azoxy Derivatives over Aluminium and Gallium Oxide Catalysts with Nanorod Morphology. ChemCatChem, 2020, 12, 593-601.	3.7	7
17	Nickel-containing N-doped carbon as effective electrocatalysts for the reduction of CO₂ to CO in a continuous-flow electrolyzer. Sustainable Energy and Fuels, 2020, 4, 1296-1311.	4.9	13
18	Encapsulation of Lactobacillus casei (ATCC 393) by Pickering-Stabilized Antibubbles as a New Method to Protect Bacteria against Low pH. Colloids and Interfaces, 2020, 4, 40.	2.1	7

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19	An efficient method to prepare supported bismuth nanoparticles as highly selective electrocatalyst for the conversion of CO₂ into formate. Chemical Communications, 2020, 56, 14992-14995.	4.1	11
20	Efficient and Easily Reusable Metal-Free Heterogeneous Catalyst Beads for the Conversion of CO₂ into Cyclic Carbonates in the Presence of Water as Hydrogen-Bond Donor. ACS Sustainable Chemistry and Engineering, 2020, 8, 7993-8003.	6.7	51
21	Applicability of Organic Carbonates as Green Solvents for Membrane Preparation. ACS Sustainable Chemistry and Engineering, 2019, 7, 13774-13785.	6.7	79
22	The Role of Water Revisited and Enhanced: A Sustainable Catalytic System for the Conversion of CO₂ into Cyclic Carbonates under Mild Conditions. ChemSusChem, 2019, 12, 3856-3863.	6.8	46
23	Base-free conversion of glycerol to methyl lactate using a multifunctional catalytic system consisting of Auâ€“Pd nanoparticles on carbon nanotubes and Sn-MCM-41-XS. Green Chemistry, 2019, 21, 4115-4126.	9.0	15
24	Niobium oxide prepared through a novel supercritical-CO₂-assisted method as a highly active heterogeneous catalyst for the synthesis of azoxybenzene from aniline. Green Chemistry, 2019, 21, 5852-5864.	9.0	16
25	Pt/ZrO₂ Prepared by Atomic Trapping: An Efficient Catalyst for the Conversion of Glycerol to Lactic Acid with Concomitant Transfer Hydrogenation of Cyclohexene. ACS Catalysis, 2019, 9, 9953-9963.	11.2	53
26	Bio-Based Chemicals: Selective Aerobic Oxidation of Tetrahydrofuran-2,5-dimethanol to Tetrahydrofuran-2,5-dicarboxylic Acid Using Hydrotalcite-Supported Gold Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 4647-4656.	6.7	19
27	CO₂-fixation into cyclic and polymeric carbonates: principles and applications. Green Chemistry, 2019, 21, 406-448.	9.0	574
28	Highly Selective Singleâ€Component Formazanate Ferrate(II) Catalysts for the Conversion of CO 2 into Cyclic Carbonates. ChemSusChem, 2019, 12, 3635-3641.	6.8	33
29	High surface area, nanostructured boehmite and alumina catalysts: Synthesis and application in the sustainable epoxidation of alkenes. Applied Catalysis A: General, 2019, 571, 180-187.	4.3	43
30	High-performance membranes with full pH-stability. RSC Advances, 2018, 8, 8813-8827.	3.6	49
31	Selective reduction of nitrobenzene to aniline over electrocatalysts based on nitrogen-doped carbons containing non-noble metals. Applied Catalysis B: Environmental, 2018, 226, 509-522.	20.2	83
32	Influence of the Composition and Preparation of the Rotating Disk Electrode on the Performance of Mesoporous Electrocatalysts in the Alkaline Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 119-128.	3.4	17
33	Electrically-Responsive Reversible Polyketone/MWCNT Network through Diels-Alder Chemistry. Polymers, 2018, 10, 1076.	4.5	19
34	Multifunctional Heterogeneous Catalysts for the Selective Conversion of Glycerol into Methyl Lactate. ACS Sustainable Chemistry and Engineering, 2018, 6, 10923-10933.	6.7	32
35	Non-covalent polyhedral oligomeric silsesquioxane-polyoxometalates as inorganicâ€“organicâ€“inorganic hybrid materials for visible-light photocatalytic splitting of water. Inorganic Chemistry Frontiers, 2018, 5, 2666-2677.	6.0	19
36	Doped ordered mesoporous carbons as novel, selective electrocatalysts for the reduction of nitrobenzene to aniline. Journal of Materials Chemistry A, 2018, 6, 13397-13411.	10.3	31

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37	Strategies for Enhancing the Catalytic Performance of Metalâ€“Organic Frameworks in the Fixation of CO₂ into Cyclic Carbonates. ChemSusChem, 2017, 10, 1283-1291.	6.8	72
38	Vapor-fed solar hydrogen production exceeding 15% efficiency using earth abundant catalysts and anion exchange membrane. Sustainable Energy and Fuels, 2017, 1, 2061-2065.	4.9	37
39	Easily recoverable titanosilicate zeolite beads with hierarchical porosity: Preparation and application as oxidation catalysts. Journal of Catalysis, 2016, 333, 139-148.	6.2	36
40	Iron-containing N-doped carbon electrocatalysts for the cogeneration of hydroxylamine and electricity in a H₂â€“NO fuel cell. Green Chemistry, 2016, 18, 1547-1559.	9.0	30
41	New Iron Pyridylaminoâ€Bis(Phenolate) Catalyst for Converting CO₂ into Cyclic Carbonates and Crossâ€Linked Polycarbonates. ChemSusChem, 2015, 8, 1034-1042.	6.8	111
42	N-doped ordered mesoporous carbons prepared by a two-step nanocasting strategy as highly active and selective electrocatalysts for the reduction of O2 to H2O2. Applied Catalysis B: Environmental, 2015, 176-177, 212-224.	20.2	117
43	Extra-small porous Sn-silicate nanoparticles as catalysts for the synthesis of lactates. Journal of Catalysis, 2014, 314, 56-65.	6.2	47
44	Ga-MCM-41 nanoparticles: Synthesis and application of versatile heterogeneous catalysts. Catalysis Today, 2014, 235, 184-192.	4.4	41
45	Synthesis and high-throughput testing of multilayered supported ionic liquid catalysts for the conversion of CO₂ and epoxides into cyclic carbonates. Catalysis Science and Technology, 2014, 4, 1598-1607.	4.1	88
46	Green polycarbonates prepared by the copolymerization of CO₂ with epoxides. Journal of Applied Polymer Science, 2014, 131, .	2.6	153
47	Solvent-free conversion of glycerol to solketal catalysed by activated carbons functionalised with acid groups. Catalysis Science and Technology, 2014, 4, 2293-2301.	4.1	67
48	Pure and Alloyed Copperâ€Based Nanoparticles Supported on Activated Carbon: Synthesis and Electrocatalytic Application in the Reduction of Nitrobenzene. ChemElectroChem, 2014, 1, 1198-1210.	3.4	28
49	Metal-free doped carbon materials as electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 4085-4110.	10.3	683
50	Cu/CuxO and Pt nanoparticles supported on multi-walled carbon nanotubes as electrocatalysts for the reduction of nitrobenzene. Applied Catalysis B: Environmental, 2014, 147, 330-339.	20.2	46
51	The electrocatalytic behaviour of Pt and Cu nanoparticles supported on carbon nanotubes for the nitrobenzene reduction in ethanol. Electrochimica Acta, 2013, 111, 405-410.	5.2	37
52	High activity and switchable selectivity in the synthesis of cyclic and polymeric cyclohexene carbonates with iron amino triphenolate catalysts. Green Chemistry, 2013, 15, 3083.	9.0	135
53	A highly active Zn(salphen) catalyst for production of organic carbonates in a green CO2 medium. Catalysis Science and Technology, 2012, 2, 2231.	4.1	90
54	Challenges in the catalytic synthesis of cyclic and polymeric carbonates from epoxides and CO2. Catalysis Science and Technology, 2012, 2, 2169.	4.1	336

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55	Highly-efficient conversion of glycerol to solketal over heterogeneous Lewis acid catalysts. Green Chemistry, 2012, 14, 1611.	9.0	177
56	Fast and Selective Sugar Conversion to Alkyl Lactate and Lactic Acid with Bifunctional Carbonâ€“Silica Catalysts. Journal of the American Chemical Society, 2012, 134, 10089-10101.	13.7	337
57	Selective conversion of trioses to lactates over Lewis acid heterogeneous catalysts. Green Chemistry, 2011, 13, 1175.	9.0	152
58	A Nonâ€Aqueous Synthesis of TiO₂/SiO₂ Composites in Supercritical CO₂ for the Photodegradation of Pollutants. ChemSusChem, 2011, 4, 1457-1463.	6.8	16
59	Multilayered Supported Ionic Liquids as Catalysts for Chemical Fixation of Carbon Dioxide: A Highâ€Throughput Study in Supercritical Conditions. ChemSusChem, 2011, 4, 1830-1837.	6.8	77
60	A High-Throughput Experimentation Study of the Synthesis of Lactates with Solid Acid Catalysts. Topics in Catalysis, 2010, 53, 77-85.	2.8	21
61	Zeolite-catalysed conversion of C3 sugars to alkyl lactates. Green Chemistry, 2010, 12, 1083.	9.0	170
62	Novel Transition-Metal-Free Heterogeneous Epoxidation Catalysts Discovered by Means of High-Throughput Experimentation. Chemistry - A European Journal, 2007, 13, 6562-6572.	3.3	49
63	Osmium silsesquioxane as model compound and homogeneous catalyst for the dihydroxylation of alkenes. Journal of Molecular Catalysis A, 2004, 220, 37-42.	4.8	37
64	Review: Oligomeric Silsesquioxanes: Synthesis, Characterization and Selected Applications. Australian Journal of Chemistry, 2001, 54, 583.	0.9	107