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	Metal-free doped carbon materials as electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 4085-4110.	10.3	683
2	CO₂-fixation into cyclic and polymeric carbonates: principles and applications. Green Chemistry, 2019, 21, 406-448.	9.0	574
3	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
4	Challenges in the catalytic synthesis of cyclic and polymeric carbonates from epoxides and CO2. Catalysis Science and Technology, 2012, 2, 2169.	4.1	336
5	Highly-efficient conversion of glycerol to solketal over heterogeneous Lewis acid catalysts. Green Chemistry, 2012, 14, 1611.	9.0	177
6	Zeolite-catalysed conversion of C3 sugars to alkyl lactates. Green Chemistry, 2010, 12, 1083.	9.0	170
7	Green polycarbonates prepared by the copolymerization of CO₂ with epoxides. Journal of Applied Polymer Science, 2014, 131, .	2.6	153
8	Selective conversion of trioses to lactates over Lewis acid heterogeneous catalysts. Green Chemistry, 2011, 13, 1175.	9.0	152
9	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
10	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
11	New Iron Pyridylaminoâ€Bis(Phenolate) Catalyst for Converting CO₂ into Cyclic Carbonates and Crossâ€Linked Polycarbonates. ChemSusChem, 2015, 8, 1034-1042.	6.8	111
12	Review: Oligomeric Silsesquioxanes: Synthesis, Characterization and Selected Applications. Australian Journal of Chemistry, 2001, 54, 583.	0.9	107
13	Cyclic carbonates synthesised from CO2: Applications, challenges and recent research trends. Current Opinion in Green and Sustainable Chemistry, 2021, 29, 100457.	5.9	91
14	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
15	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
16	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
17	Applicability of Organic Carbonates as Green Solvents for Membrane Preparation. ACS Sustainable Chemistry and Engineering, 2019, 7, 13774-13785.	6.7	79
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	High-performance membranes with full pH-stability. RSC Advances, 2018, 8, 8813-8827.	3.6	49
26	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
27	Extra-small porous Sn-silicate nanoparticles as catalysts for the synthesis of lactates. Journal of Catalysis, 2014, 314, 56-65.	6.2	47
28	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
29	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
30	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
31	Ga-MCM-41 nanoparticles: Synthesis and application of versatile heterogeneous catalysts. Catalysis Today, 2014, 235, 184-192.	4.4	41
32	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
33	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
34	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
35	A Stateâ€ofâ€theâ€Art Update on Integrated CO₂ Capture and Electrochemical Conversion Systems. ChemElectroChem, 2022, 9, .	3.4	37
36	Easily recoverable titanosilicate zeolite beads with hierarchical porosity: Preparation and application as oxidation catalysts. Journal of Catalysis, 2016, 333, 139-148.	6.2	36

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37	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
38	Multifunctional Heterogeneous Catalysts for the Selective Conversion of Glycerol into Methyl Lactate. ACS Sustainable Chemistry and Engineering, 2018, 6, 10923-10933.	6.7	32
39	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
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	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
42	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
43	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
44	A High-Throughput Experimentation Study of the Synthesis of Lactates with Solid Acid Catalysts. Topics in Catalysis, 2010, 53, 77-85.	2.8	21
45	Electrically-Responsive Reversible Polyketone/MWCNT Network through Diels-Alder Chemistry. Polymers, 2018, 10, 1076.	4.5	19
46	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
47	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
48	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
49	A Nonâ€Aqueous Synthesis of TiO₂/SiO₂ Composites in Supercritical CO₂ for the Photodegradation of Pollutants. ChemSusChem, 2011, 4, 1457-1463.	6.8	16
50	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
51	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
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	Pickering Emulsions and Antibubbles Stabilized by PLA/PLGA Nanoparticles. Langmuir, 2022, 38, 182-190.	3.5	7
63	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
64	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