

# Antonio Buonerba

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,682  
citations

257450

24  
h-index

289244

40  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Viruses in wastewater: occurrence, abundance and detection methods. <i>Science of the Total Environment</i> , 2020, 745, 140910.	8.0	170
2	Novel iron(III) catalyst for the efficient and selective coupling of carbon dioxide and epoxides to form cyclic carbonates. <i>Catalysis Science and Technology</i> , 2015, 5, 118-123.	4.1	115
3	[OSSO]-Type Iron(III) Complexes for the Low-Pressure Reaction of Carbon Dioxide with Epoxides: Catalytic Activity, Reaction Kinetics, and Computational Study. <i>ACS Catalysis</i> , 2018, 8, 6882-6893.	11.2	103
4	Homogeneous Iron Catalysts in the Reaction of Epoxides with Carbon Dioxide. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 265-282.	4.3	82
5	Coupling of Carbon Dioxide with Epoxides Efficiently Catalyzed by Thioether-Triphenolate Bimetallic Iron(III) Complexes: Catalyst Structure-Reactivity Relationship and Mechanistic DFT Study. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3231-3243.	4.3	74
6	Gold Nanoparticles Incarcerated in Nanoporous Syndiotactic Polystyrene Matrices as New and Efficient Catalysts for Alcohol Oxidations. <i>Chemistry - A European Journal</i> , 2012, 18, 709-715.	3.3	71
7	Highly efficient and selective reduction of nitroarenes into anilines catalyzed by gold nanoparticles incarcerated in a nanoporous polymer matrix: Role of the polymeric support and insight into the reaction mechanism. <i>Journal of Catalysis</i> , 2016, 340, 30-40.	6.2	64
8	Glycidol: an Hydroxyl-Containing Epoxide Playing the Double Role of Substrate and Catalyst for CO <sub>2</sub> Cycloaddition Reactions. <i>ChemSusChem</i> , 2016, 9, 3457-3464.	6.8	55
9	Advances in technological control of greenhouse gas emissions from wastewater in the context of circular economy. <i>Science of the Total Environment</i> , 2021, 792, 148479.	8.0	54
10	Aerobic Oxidation and Oxidative Esterification of 5-Hydroxymethylfurfural by Gold Nanoparticles Supported on Nanoporous Polymer Host Matrix. <i>ChemSusChem</i> , 2018, 11, 3139-3149.	6.8	52
11	Coronavirus in water media: Analysis, fate, disinfection and epidemiological applications. <i>Journal of Hazardous Materials</i> , 2021, 415, 125580.	12.4	50
12	[OSSO]-Type Fe(III) Metallate as Single-Component Catalyst for the CO <sub>2</sub> Cycloaddition to Epoxides. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 283-288.	4.3	49
13	Stereoselective polymerization of biosourced terpenes Î <sup>2</sup> -myrcene and Î <sup>2</sup> -ocimene and their copolymerization with styrene promoted by titanium catalysts. <i>Polymer</i> , 2017, 131, 151-159.	3.8	46
14	Highly Efficient Direct Aerobic Oxidative Esterification of Cinnamyl Alcohol with Alkyl Alcohols Catalysed by Gold Nanoparticles Incarcerated in a Nanoporous Polymer Matrix: A Tool for Investigating the Role of the Polymer Host. <i>Chemistry - A European Journal</i> , 2014, 20, 5478-5486.	3.3	42
15	Indoor versus outdoor transmission of SARS-COV-2: environmental factors in virus spread and underestimated sources of risk. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2021, 6, 30.	1.3	42
16	Wastewater treatment and fouling control in an electro algae-activated sludge membrane bioreactor. <i>Science of the Total Environment</i> , 2021, 786, 147475.	8.0	40
17	Crystalline Syndiotactic Polystyrene as Reinforcing Agent of cis-1,4-Polybutadiene Rubber. <i>Macromolecules</i> , 2010, 43, 367-374.	4.8	39
18	Poly(lactide-co-Î <sup>Î</sup> -caprolactone) copolymers prepared using bis-thioetherphenolate group 4 metal complexes: synthesis, characterization and morphology. <i>RSC Advances</i> , 2014, 4, 51262-51267.	3.6	39

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19	Innovative membrane photobioreactor for sustainable CO <sub>2</sub> capture and utilization. <i>Chemosphere</i> , 2021, 273, 129682.	8.2	39
20	Binary Copolymerization of <i>p</i> -Methylstyrene with Butadiene and Isoprene Catalyzed by Titanium Compounds Showing Different Stereoselectivity. <i>Macromolecules</i> , 2013, 46, 8449-8457.	4.8	38
21	CO <sub>2</sub> cycloaddition to epoxides promoted by bis-thioether-phenolate Fe(II) and Fe(III) complexes. <i>Molecular Catalysis</i> , 2018, 460, 46-52.	2.0	31
22	Novel Synthetic Strategy for the Sulfonation of Polybutadiene and Styrene- <i>b</i> -Butadiene Copolymers. <i>Macromolecules</i> , 2013, 46, 778-784.	4.8	27
23	Stereorigid OSSO-Type Group 4 Metal Complexes in the Ring-Opening Polymerization of <i>rac</i> -Lactide. <i>Inorganic Chemistry</i> , 2017, 56, 3447-3458.	4.0	27
24	Efficient and sustainable treatment of tannery wastewater by a sequential electrocoagulation-UV photolytic process. <i>Journal of Water Process Engineering</i> , 2020, 38, 101642.	5.6	27
25	Thioether-triphenolate bimetallic iron( <i>scp</i> ) complexes as robust and highly efficient catalysts for cycloaddition of carbon dioxide to epoxides. <i>Faraday Discussions</i> , 2015, 183, 83-95.	3.2	23
26	One-Step Fabrication of Novel Polyethersulfone-Based Composite Electrospun Nanofiber Membranes for Food Industry Wastewater Treatment. <i>Membranes</i> , 2022, 12, 413.	3.0	23
27	Trends in Sustainable Synthesis of Organics by Gold Nanoparticles Embedded in Polymer Matrices. <i>Catalysts</i> , 2021, 11, 714.	3.5	19
28	Syndiotactic Polystyrene- <i>block</i> -Poly(methyl methacrylate) Copolymer via Click Chemistry. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1990-1997.	2.2	18
29	Thioetherphenolate group 4 metal complexes in the ring opening polymerization of <i>rac</i> - <i>trans</i> -Butyrolactone. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3132-3139.	2.3	18
30	Olefin- <i>block</i> -Styrene Copolymers. <i>Polymers</i> , 2016, 8, 405.	4.5	16
31	A Comprehensive Depiction of the Furan- <i>Maleimide</i> Coupling via Kinetic and Thermodynamic Investigations of the Diels- <i>Alder</i> Reaction of Poly(styrene- <i>co</i> -vinylfuran) with Maleimides. <i>ChemistrySelect</i> , 2017, 2, 1605-1612.	1.5	16
32	Novel nanostructured semicrystalline ionomers by chemoselective sulfonation of multiblock copolymers of syndiotactic polystyrene with polybutadiene. <i>RSC Advances</i> , 2014, 4, 60158-60167.	3.6	14
33	Dinuclear zirconium complex bearing a 1,5-bridged-calix[8]arene ligand as an effective catalyst for the synthesis of macrolactones. <i>Catalysis Science and Technology</i> , 2018, 8, 2716-2727.	4.1	14
34	Improvement of tensile properties, self-healing and recycle of thermoset styrene/2-vinylfuran copolymers via thermal triggered rearrangement of covalent crosslink. <i>European Polymer Journal</i> , 2018, 99, 368-377.	5.4	13
35	An integrated algal membrane photobioreactor as a green-transition technology for the carbon capture and utilization. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107344.	6.7	13
36	Highly efficient hydroamination of phenylacetylenes with anilines catalysed by gold nanoparticles embedded in nanoporous polymer matrix: Insight into the reaction mechanism by kinetic and DFT investigations. <i>Journal of Catalysis</i> , 2021, 400, 71-82.	6.2	12

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37	NIR multiphoton ablation of cancer cells, fluorescence quenching and cellular uptake of dansyl-glutathione-coated gold nanoparticles. <i>Scientific Reports</i> , 2020, 10, 11380.	3.3	11
38	Full-Scale Odor Abatement Technologies in Wastewater Treatment Plants (WWTPs): A Review. <i>Water (Switzerland)</i> , 2021, 13, 3503.	2.7	11
39	Fabrication of polyethersulfone/polyacrylonitrile electrospun nanofiber membrane for food industry wastewater treatment. <i>Journal of Water Process Engineering</i> , 2022, 47, 102838.	5.6	11
40	Nanostructured ethylene-styrene copolymers. <i>Polymer Chemistry</i> , 2014, 5, 3045-3052.	3.9	10
41	Structure and dynamics of catalytically competent but labile paramagnetic metal-hydrides: the Ti( $\eta^5$ -Cp) $\eta^5$ -H in homogeneous olefin polymerization. <i>Chemical Science</i> , 2020, 11, 12436-12445.	7.4	10
42	Optimization of Classification Prediction Performances of an Instrumental Odour Monitoring System by Using Temperature Correction Approach. <i>Chemosensors</i> , 2021, 9, 147.	3.6	10
43	Innovative encapsulated self-forming dynamic bio-membrane bioreactor (ESFDMBR) for efficient wastewater treatment and fouling control. <i>Science of the Total Environment</i> , 2022, 805, 150296.	8.0	9
44	Production of Sustainable Biochemicals by Means of Esterification Reaction and Heterogeneous Acid Catalysts. <i>ChemEngineering</i> , 2021, 5, 46.	2.4	7
45	Polymerization of ethylene and propylene promoted by group 4 metal complexes bearing thioetherphenolate ligands. <i>Polymer Chemistry</i> , 2015, 6, 4657-4668.	3.9	6
46	Green, Mild, and Efficient Friedel-Crafts Benzoylation of Scarcely Reactive Arenes and Heteroarenes under On-Water Conditions. <i>ChemSusChem</i> , 2019, 12, 1673-1683.	6.8	6
47	Phenylene-Bridged OSSO-Type Titanium Complexes in the Polymerization of Ethylene and Propylene. <i>ACS Omega</i> , 2018, 3, 11608-11616.	3.5	5
48	Thin-film nanostructure and polymer architecture in semicrystalline syndiotactic poly( <i>p</i> -methylstyrene)- <i>cis</i> -1,4-polybutadiene multiblock copolymers. <i>Polymer International</i> , 2019, 68, 1681-1687.	3.1	3
49	Amino-functionalized mesoporous nano-silica/polyvinylidene fluoride composite as efficient ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2020, 605, 63-75.		3
50	Gold Nanoparticles Supported on Poly(2,6-dimethyl-1,4-phenylene oxide) as Robust, Selective and Cost-Effective Catalyst for Aerobic Oxidation and Direct Oxidative Esterification of Alcohols. <i>ChemCatChem</i> , 2022, 14, .	3.7	3
51	7. Bio-sourced polyolefins. <i>Journal of Polymer Science: Part A: Polymer Chemistry</i> , 2015, , 165-196.		1
52	Synthesis and Characterization of Syndiotactic Polystyrene-Polyethylene Block Copolymer. <i>Polymers</i> , 2019, 11, 698.	4.5	1