Antonio Carlos B Burtoloso

List of Publications by Year
in descending order

75 papers	2,214 citations	236833 25 h-index	243529 44 g-index
91 all docs	91 docs citations	91 times ranked	2444 citing authors

#	Article	IF	Citations
1	Asymmetric transformations from sulfoxonium ylides. Chemical Science, 2022, 13, 1192-1209.	3.7	58
2	Organocatalytic Enantioselective Sulfa-Michael Additions to Î±,Î²-Unsaturated Diazoketones. Journal of Organic Chemistry, 2022, 87, 3482-3490.	1.7	5
3	Molecular Iodine Mediated Oxidation of Arylated Î±â€Carbonyl Sulfoxonium Ylides to 1,2â€Dicarbonylâ€Containing Compounds. European Journal of Organic Chemistry, 2022, 2022, .	1.2	6
4	Synthesis, Structureâ€“Activity Relationships, and Parasitological Profiling of Brussonol Derivatives as New PlasmodiumÂfalciparum Inhibitors. Pharmaceuticals, 2022, 15, 814.	1.7	1
5	Substituted Naphthols: Preparations, Applications, and Reactions. European Journal of Organic Chemistry, 2021, 2021, 741-756.	1.2	18
6	Synthetic Routes Towards the Synthesis of Geminal Î±â€Difunctionalized Ketones. Chemical Record, 2021, 21, 2837-2854.	2.9	5
7	Direct Synthesis of Î±-Fluoro-Î±-Triazol-1-yl Ketones from Sulfoxonium Ylides: A One-Pot Approach. Journal of Organic Chemistry, 2021, 86, 12427-12435.	1.7	15
8	Cooperative copper-squaramide catalysis for the enantioselective Nâ€“H insertion reaction with sulfoxonium ylides. Chemical Science, 2021, 12, 7453-7459.	3.7	34
9	Enantioselective Indole Insertion Reactions of Î±-Carbonyl Sulfoxonium Ylides. Organic Letters, 2021, 23, 9446-9450.	2.4	24
10	Precise Installation of Diazo-Tagged Side-Chains on Proteins to Enable In Vitro and In-Cell Site-Specific Labeling. Bioconjugate Chemistry, 2020, 31, 1604-1610.	1.8	10
11	One-pot synthesis of Î²-O-4 lignin models via the insertion of stable 2-diazo-1,3-dicarbonyls into Oâ€“H bonds. Organic and Biomolecular Chemistry, 2020, 18, 4815-4823.	1.5	4
12	Copper-catalyzed Nâ€“H insertion reactions from sulfoxonium ylides. Tetrahedron, 2020, 76, 131313.	1.0	18
13	Catalytic Friedelâ€“Crafts Alkylation of Electron Rich Aromatic Derivatives with Î±-Aryl Diazoacetates Mediated by BrÃ¸nsted Acids. Organic Letters, 2020, 22, 2339-2343.	2.4	25
14	Enantioselective Sâ^'H Insertion Reactions of Î±â€Carbonyl Sulfoxonium Ylides. Angewandte Chemie - International Edition, 2020, 59, 15554-15559.	7.2	51
15	Enantioselective Sâ^'H Insertion Reactions of Î±â€Carbonyl Sulfoxonium Ylides. Angewandte Chemie, 2020, 132, 15684-15689.	1.6	4
16	Î±-Imino Iridium Carbenes from Imidoyl Sulfoxonium Ylides: Application in the One-Step Synthesis of Indoles. Journal of Organic Chemistry, 2020, 85, 7433-7445.	1.7	42
17	Total Synthesis of (Â±)-Brussonol and (Â±)-Komaroviquinone via a Regioselective Cross-Electrophile Coupling of Aryl Bromides and Epoxides. Organic Letters, 2019, 21, 6079-6083.	2.4	19
18	Synthesis and structure-activity relationship of nitrile-based cruzain inhibitors incorporating a trifluoroethylamine-based P2 amide replacement. Bioorganic and Medicinal Chemistry, 2019, 27, 115083.	1.4	18

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19	Synthesis of Oxazinanones: Intramolecular Cyclization of Amino Acid-Derived Diazoketones via Silica-Supported HClO4 Catalysis. Frontiers in Chemistry, 2019, 7, 62.	1.8	6
20	Synthesis of long-chain polyols from the Claisen condensation of Î³-valerolactone. Green Chemistry, 2019, 21, 6441-6450.	4.6	3
21	Efficient and irreversible antibodyâ€“cysteine bioconjugation using carbonylacrylic reagents. Nature Protocols, 2019, 14, 86-99.	5.5	49
22	Synthesis of Fused Bicyclic [1,2,3]-Triazoles from Î³-Amino Diazoketones. ACS Omega, 2019, 4, 159-168.	1.6	9
23	Rapid Synthesis of Bicyclic Nâ€Heterocyclic Cores from Nâ€Terminal Î±,Î²â€Unsaturated Diazoketones. European Journal of Organic Chemistry, 2018, 2018, 2822-2830.	1.2	12
24	Ironâ€Catalyzed Reductive Amination from Levulinic and Formic Acid Aqueous Solutions: An Approach for the Selective Production of Pyrrolidones in Biorefinery Facilities. ChemistrySelect, 2018, 3, 368-372.	0.7	24
25	Leveraging the cruzain S3 subsite to increase affinity for reversible covalent inhibitors. Bioorganic Chemistry, 2018, 79, 285-292.	2.0	20
26	Coupling of Sulfoxonium Ylides with Arynes: A Direct Synthesis of Pro-Chiral Aryl Ketosulfoxonium Ylides and Its Application in the Preparation of Î±-Aryl Ketones. Organic Letters, 2018, 20, 7206-7211.	2.4	59
27	Silica-supported HClO₄ promotes catalytic solvent- and metal-free Oâ€“H insertion reactions with diazo compounds. Green Chemistry, 2018, 20, 4547-4556.	4.6	28
28	Direct Synthesis of Highly Substituted Cyclopentadienes and Derivatives from the Selfâ€Condensation of Renewable Ethyl Levulinate. European Journal of Organic Chemistry, 2018, 2018, 6350-6354.	1.2	5
29	Traditional and New methods for the Preparation of Diazocarbonyl Compounds. Anais Da Academia Brasileira De Ciencias, 2018, 90, 859-893.	0.3	23
30	Metal-Free Insertion Reactions of Diazo Carbonyls to Azlactones. Journal of Organic Chemistry, 2018, 83, 11399-11406.	1.7	6
31	One-step syntheses of substituted 2-pyrrolidinones and 3-pyrrolidinones from Î±,Î²-unsaturated diazoketones and amines. Application in the synthesis of barmumycin. Tetrahedron, 2017, 73, 3720-3729.	1.0	13
32	Probing the Lignin Disassembly Pathways with Modified Catalysts Based on Cu-Doped Porous Metal Oxides. ACS Sustainable Chemistry and Engineering, 2017, 5, 3158-3169.	3.2	42
33	Î±,Î±â€Alkylationâ€Halogenation and Dihalogenation of Sulfoxonium Ylides. A Direct Preparation of Geminal Difunctionalized Ketones. Chemistry - A European Journal, 2017, 23, 16980-16984.	1.7	44
34	A comparative study of warheads for design of cysteine protease inhibitors. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5031-5035.	1.0	32
35	Sharpless Asymmetric Dihydroxylation on Î±,Î²-Unsaturated Diazoketones: A New Entry for the Synthesis of Disubstituted Furanones. Synlett, 2017, 28, 1748-1752.	1.0	7
36	Anti-trypanosomal activity of non-peptidic nitrile-based cysteine protease inhibitors. PLoS Neglected Tropical Diseases, 2017, 11, e0005343.	1.3	26

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37	Six-Step Syntheses of (â˜)-1-Deoxyaltronojirimycin and (+)-1-Deoxymannonojirimycin from N-Z-O-TBDPS-<scp>l</scp>-serinal. Journal of Organic Chemistry, 2016, 81, 10569-10575.	1.7	11
38	Stoichiometric and irreversible cysteine-selective protein modification using carbonylacrylic reagents. Nature Communications, 2016, 7, 13128.	5.8	141
39	Catalyst-Free Insertion of Sulfoxonium Ylides into Aryl Thiols. AÂDirect Preparation of Î²-Keto Thioethers. Organic Letters, 2016, 18, 3034-3037.	2.4	103
40	Divergent Roles of Urea and Phosphoric Acid Derived Catalysts in Reactions of Diazo Compounds. Synthesis, 2016, 48, 677-686.	1.2	21
41	LED lighting as a simple, inexpensive, and sustainable alternative for Wolff rearrangements. RSC Advances, 2015, 5, 13311-13314.	1.7	47
42	Î±,Î²-Unsaturated Diazoketones as Useful Platforms in the Synthesis of Nitrogen Heterocycles. Accounts of Chemical Research, 2015, 48, 921-934.	7.6	67
43	Conversion of levulinic acid into Î³-valerolactone using Fe₃(CO)₁₂: mimicking a biorefinery setting by exploiting crude liquors from biomass acid hydrolysis. Chemical Communications, 2015, 51, 14199-14202.	2.2	58
44	Astaxanthin diferulate as a bifunctional antioxidant. Free Radical Research, 2015, 49, 102-111.	1.5	12
45	Advances in the Enantioselective Metal-catalyzed N-H and O-H Insertion Reactions with Diazocarbonyl Compounds. Current Organic Synthesis, 2015, 12, 650-659.	0.7	27
46	A two-step synthesis of the bioprotective agent JP4-039 from N-Boc-l-leucinal. Tetrahedron, 2014, 70, 3291-3296.	1.0	6
47	Three-Step Synthesis of (Â±)-Preussin from Decanal. Journal of Organic Chemistry, 2014, 79, 6748-6753.	1.7	19
48	Preparation of Z-Î±,Î²-Unsaturated Diazoketones from Aldehydes. Application in the Construction of Substituted Dihydropyridin-3-ones. Journal of Organic Chemistry, 2013, 78, 9464-9470.	1.7	13
49	Electrochemistry and UVâ€“vis spectroscopy of synthetic thiocholine: Revisiting the electro-oxidation mechanism. Electrochimica Acta, 2013, 112, 500-504.	2.6	13
50	Hydrazone molecules as mimics for acetylcholinesterase. A new route towards disposable biosensors for pesticides?. Sensors and Actuators B: Chemical, 2013, 182, 211-216.	4.0	13
51	SmI2-Mediated Couplings of Î±-Amino Acid Derivatives. Formal Synthesis of (â˜)-Pumiliotoxin 251D and (Â±)-Epiquinamide. Organic Letters, 2013, 15, 2434-2437.	2.4	23
52	Sulfoxonium and Sulfonium Ylides as Diazocarbonyl Equivalents in Metalâ€Catalyzed Insertion Reactions. European Journal of Organic Chemistry, 2013, 2013, 5005-5016.	1.2	156
53	α,β-Unsaturated Diazoketones as Versatile Building Blocks for the Synthesis of Hydroxylated Piperidines, Indolizidines and Quinolizidines. Current Topics in Medicinal Chemistry, 2013, 13, 2099-2103.	1.0	7
54	Synthesis of Alkaloids: Recent Advances in the Synthesis of Phenanthroindolizidine Alkaloids. Current Topics in Medicinal Chemistry, 2013, 14, 191-199.	1.0	22

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55	Î±,Î²-Unsaturated Diazoketones as Platforms in the Asymmetric Synthesis of Hydroxylated Alkaloids. Total Synthesis of 1-Deoxy-8,8a-diepicastanospermine and 1,6-Dideoxyepicastanospermine and Formal Synthesis of Pumiliotoxin 251D. Journal of Organic Chemistry, 2012, 77, 9926-9931.	1.7	26
56	Total synthesis of (â^')-indolizidine 167B via an unusual Wolff rearrangement from an Î±,Î²-unsaturated diazoketone. Tetrahedron Letters, 2012, 53, 876-878.	0.7	29
57	Preparation of Î±,Î²-Unsaturated Diazoketones Employing a Hornerâ^'Wadsworthâ^'Emmons Reagent. Journal of Organic Chemistry, 2011, 76, 289-292.	1.7	35
58	An epoxide ring-opening approach for a short and stereoselective synthesis of icetexane diterpenoids. Tetrahedron Letters, 2010, 51, 686-688.	0.7	13
59	An Improved Procedure for the Preparation of [Bis(2,2,2-trifluoroethyl)phosphono]acetic Acid. Synthesis, 2010, 2010, 361-363.	1.2	0
60	The chemistry and biology of organic guanidine derivatives. Natural Product Reports, 2010, 27, 1871.	5.2	108
61	Catalytic Enantioselective Î±-Arylation of Carbonyl Compounds. Synlett, 2009, 2009, 320-327.	1.0	77
62	Stereoselective synthesis of azetidine-derived glutamate and aspartate analogues from chiral azetidin-3-ones. Tetrahedron, 2008, 64, 9928-9936.	1.0	14
63	The chemistry and biology of organic guanidine derivatives. Natural Product Reports, 2008, 25, 919.	5.2	183
64	Chemical Synthesis of the GHIJKLMNO Ring System of Maitotoxin. Journal of the American Chemical Society, 2008, 130, 7466-7476.	6.6	73
65	A new entry to the synthesis of substituted azetidines: [2+2] cycloaddition reaction of four-membered endocyclic enamides to ketenes. Tetrahedron Letters, 2006, 47, 6377-6380.	0.7	25
66	Heck Arylation of Maleic Anhydrides Using Arenediazonium TetrafluoroÂborates: Synthesis of Mono- and Diarylated Maleic Anhydrides and of the ÂMarine Alkaloids Prepolycitrin A and Polycitrin A. Synlett, 2006, 2006, 3145-3149.	1.0	9
67	Theoretical studies of the asymmetric alkylation reaction on chiral enamines. Computational and Theoretical Chemistry, 2005, 716, 103-107.	1.5	0
68	Asymmetric synthesis of cis-2,4-disubstituted azetidin-3-ones from metal carbene chemistry. Journal of Organometallic Chemistry, 2005, 690, 5636-5646.	0.8	20
69	Copper(II) Acetylacetonate: An Inexpensive Multifunctional Catalyst. Synlett, 2005, 2005, 2859-2860.	1.0	14
70	Stereoselective Synthesis of the Conformationally Constrained Glutamate Analogue, (-)-(2R,3S)-cis-2-Carboxyazetidine-3-acetic Acid, from (S)-N-Tosyl-2-phenylglycine. Synlett, 2005, 2005, 1559-1562.	1.0	2
71	Metal Carbene Nâ€"H Insertion of Chiral Î±,Î±â€²-Dialkyl Î±-Diazoketones. A Novel and Concise Method for the Stereocontrolled Synthesis of Fully Substituted Azetidines.. ChemInform, 2004, 35, no.	0.1	0
72	Metal carbene Nâ€“H insertion of chiral Î±,Î±â€²-dialkyl Î±-diazoketones. A novel and concise method for the stereocontrolled synthesis of fully substituted azetidines. Tetrahedron Letters, 2004, 45, 3355-3358.	0.7	60

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73	Synthesis of Piperidines from Z-Î±,Î²-Unsaturated Diazoketones. , 0, , .		0
74	A Two-Step Synthesis of the Bioprotective Agent JP4-039 from N-Boc-L-Leucinal.. , 0, , .		0
75	Î±,Î²-Unsaturated Diazoketones in Aza-Michael Additions - Application in the synthesis of Barmumycin. , 0, , .		0