

# Antonio Carlos B Burtoloso

## List of Publications by Year in descending order

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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	The chemistry and biology of organic guanidine derivatives. <i>Natural Product Reports</i> , 2008, 25, 919.	5.2	183
2	Sulfoxonium and Sulfonium Ylides as Diazocarbonyl Equivalents in Metal-Catalyzed Insertion Reactions. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5005-5016.	1.2	156
3	Stoichiometric and irreversible cysteine-selective protein modification using carbonylacrylic reagents. <i>Nature Communications</i> , 2016, 7, 13128.	5.8	141
4	The chemistry and biology of organic guanidine derivatives. <i>Natural Product Reports</i> , 2010, 27, 1871.	5.2	108
5	Catalyst-Free Insertion of Sulfoxonium Ylides into Aryl Thiols. A Direct Preparation of $\alpha$ -Keto Thioethers. <i>Organic Letters</i> , 2016, 18, 3034-3037.	2.4	103
6	Catalytic Enantioselective $\alpha$ -Arylation of Carbonyl Compounds. <i>Synlett</i> , 2009, 2009, 320-327.	1.0	77
7	Chemical Synthesis of the GHIJKLMNO Ring System of Maitotoxin. <i>Journal of the American Chemical Society</i> , 2008, 130, 7466-7476.	6.6	73
8	$\alpha,\beta$ -Unsaturated Diazoketones as Useful Platforms in the Synthesis of Nitrogen Heterocycles. <i>Accounts of Chemical Research</i> , 2015, 48, 921-934.	7.6	67
9	Metal carbene $\alpha$ -H insertion of chiral $\alpha,\beta$ -dialkyl $\alpha$ -diazoketones. A novel and concise method for the stereocontrolled synthesis of fully substituted azetidines. <i>Tetrahedron Letters</i> , 2004, 45, 3355-3358.	0.7	60
10	Coupling of Sulfoxonium Ylides with Arynes: A Direct Synthesis of Pro-Chiral Aryl Ketosulfoxonium Ylides and Its Application in the Preparation of $\alpha$ -Aryl Ketones. <i>Organic Letters</i> , 2018, 20, 7206-7211.	2.4	59
11	Conversion of levulinic acid into $\gamma$ -valerolactone using $\text{Fe}_3(\text{CO})_{12}$ : mimicking a biorefinery setting by exploiting crude liquors from biomass acid hydrolysis. <i>Chemical Communications</i> , 2015, 51, 14199-14202.	2.2	58
12	Asymmetric transformations from sulfoxonium ylides. <i>Chemical Science</i> , 2022, 13, 1192-1209.	3.7	58
13	Enantioselective $\alpha$ -H Insertion Reactions of $\alpha$ -Carbonyl Sulfoxonium Ylides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15554-15559.	7.2	51
14	Efficient and irreversible antibody-cysteine bioconjugation using carbonylacrylic reagents. <i>Nature Protocols</i> , 2019, 14, 86-99.	5.5	49
15	LED lighting as a simple, inexpensive, and sustainable alternative for Wolff rearrangements. <i>RSC Advances</i> , 2015, 5, 13311-13314.	1.7	47
16	$\alpha,\beta$ -Alkylation-Halogenation and Dihalogenation of Sulfoxonium Ylides. A Direct Preparation of Geminal Difunctionalized Ketones. <i>Chemistry - A European Journal</i> , 2017, 23, 16980-16984.	1.7	44
17	Probing the Lignin Disassembly Pathways with Modified Catalysts Based on Cu-Doped Porous Metal Oxides. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3158-3169.	3.2	42
18	$\alpha$ -Imino Iridium Carbenes from Imidoyl Sulfoxonium Ylides: Application in the One-Step Synthesis of Indoles. <i>Journal of Organic Chemistry</i> , 2020, 85, 7433-7445.	1.7	42

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19	Preparation of $\hat{\alpha},\hat{\beta}$ -Unsaturated Diazoketones Employing a Horner-Wadsworth-Emmons Reagent. <i>Journal of Organic Chemistry</i> , 2011, 76, 289-292.	1.7	35
20	Cooperative copper-squaramide catalysis for the enantioselective N-H insertion reaction with sulfoxonium ylides. <i>Chemical Science</i> , 2021, 12, 7453-7459.	3.7	34
21	A comparative study of warheads for design of cysteine protease inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 5031-5035.	1.0	32
22	Total synthesis of ( $\hat{\alpha}$ )-indolizidine 167B via an unusual Wolff rearrangement from an $\hat{\alpha},\hat{\beta}$ -unsaturated diazoketone. <i>Tetrahedron Letters</i> , 2012, 53, 876-878.	0.7	29
23	Silica-supported HClO <sub>4</sub> promotes catalytic solvent- and metal-free O-H insertion reactions with diazo compounds. <i>Green Chemistry</i> , 2018, 20, 4547-4556.	4.6	28
24	Advances in the Enantioselective Metal-catalyzed N-H and O-H Insertion Reactions with Diazocarbonyl Compounds. <i>Current Organic Synthesis</i> , 2015, 12, 650-659.	0.7	27
25	$\hat{\alpha},\hat{\beta}$ -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. <i>Journal of Organic Chemistry</i> , 2012, 77, 9926-9931.	1.7	26
26	Anti-trypanosomal activity of non-peptidic nitrile-based cysteine protease inhibitors. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005343.	1.3	26
27	A new entry to the synthesis of substituted azetidines: [2+2] cycloaddition reaction of four-membered endocyclic enamides to ketenes. <i>Tetrahedron Letters</i> , 2006, 47, 6377-6380.	0.7	25
28	Catalytic Friedel-Crafts Alkylation of Electron Rich Aromatic Derivatives with $\hat{\alpha}$ -Aryl Diazoacetates Mediated by Brønsted Acids. <i>Organic Letters</i> , 2020, 22, 2339-2343.	2.4	25
29	Iron-Catalyzed Reductive Amination from Levulinic and Formic Acid Aqueous Solutions: An Approach for the Selective Production of Pyrrolidones in Biorefinery Facilities. <i>ChemistrySelect</i> , 2018, 3, 368-372.	0.7	24
30	Enantioselective Indole Insertion Reactions of $\hat{\alpha}$ -Carbonyl Sulfoxonium Ylides. <i>Organic Letters</i> , 2021, 23, 9446-9450.	2.4	24
31	Sml <sub>2</sub> -Mediated Couplings of $\hat{\alpha}$ -Amino Acid Derivatives. Formal Synthesis of ( $\hat{\alpha}$ )-Pumiliotoxin 251D and ( $\hat{\alpha}$ )-Epiquinamide. <i>Organic Letters</i> , 2013, 15, 2434-2437.	2.4	23
32	Traditional and New methods for the Preparation of Diazocarbonyl Compounds. <i>Anais Da Academia Brasileira De Ciencias</i> , 2018, 90, 859-893.	0.3	23
33	Synthesis of Alkaloids: Recent Advances in the Synthesis of Phenanthroindolizidine Alkaloids. <i>Current Topics in Medicinal Chemistry</i> , 2013, 14, 191-199.	1.0	22
34	Divergent Roles of Urea and Phosphoric Acid Derived Catalysts in Reactions of Diazo Compounds. <i>Synthesis</i> , 2016, 48, 677-686.	1.2	21
35	Asymmetric synthesis of cis-2,4-disubstituted azetidin-3-ones from metal carbene chemistry. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5636-5646.	0.8	20
36	Leveraging the cruzain S3 subsite to increase affinity for reversible covalent inhibitors. <i>Bioorganic Chemistry</i> , 2018, 79, 285-292.	2.0	20

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37	Three-Step Synthesis of (±)-Preussin from Decanal. <i>Journal of Organic Chemistry</i> , 2014, 79, 6748-6753.	1.7	19
38	Total Synthesis of (±)-Brussonol and (±)-Komaroviquinone via a Regioselective Cross-Electrophile Coupling of Aryl Bromides and Epoxides. <i>Organic Letters</i> , 2019, 21, 6079-6083.	2.4	19
39	Synthesis and structure-activity relationship of nitrile-based cruzain inhibitors incorporating a trifluoroethylamine-based P2 amide replacement. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115083.	1.4	18
40	Copper-catalyzed N-H insertion reactions from sulfoxonium ylides. <i>Tetrahedron</i> , 2020, 76, 131313.	1.0	18
41	Substituted Naphthols: Preparations, Applications, and Reactions. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 741-756.	1.2	18
42	Direct Synthesis of $\beta$ -Fluoro- $\beta$ -Triazol-1-yl Ketones from Sulfoxonium Ylides: A One-Pot Approach. <i>Journal of Organic Chemistry</i> , 2021, 86, 12427-12435.	1.7	15
43	Copper(II) Acetylacetonate: An Inexpensive Multifunctional Catalyst. <i>Synlett</i> , 2005, 2005, 2859-2860.	1.0	14
44	Stereoselective synthesis of azetidine-derived glutamate and aspartate analogues from chiral azetidin-3-ones. <i>Tetrahedron</i> , 2008, 64, 9928-9936.	1.0	14
45	An epoxide ring-opening approach for a short and stereoselective synthesis of icetexane diterpenoids. <i>Tetrahedron Letters</i> , 2010, 51, 686-688.	0.7	13
46	Preparation of $\beta$ -Unsaturated Diazoketones from Aldehydes. Application in the Construction of Substituted Dihydropyridin-3-ones. <i>Journal of Organic Chemistry</i> , 2013, 78, 9464-9470.	1.7	13
47	Electrochemistry and UV-vis spectroscopy of synthetic thiocholine: Revisiting the electro-oxidation mechanism. <i>Electrochimica Acta</i> , 2013, 112, 500-504.	2.6	13
48	Hydrazone molecules as mimics for acetylcholinesterase. A new route towards disposable biosensors for pesticides?. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 211-216.	4.0	13
49	One-step syntheses of substituted 2-pyrrolidinones and 3-pyrrolidinones from $\beta$ -unsaturated diazoketones and amines. Application in the synthesis of barmumycin. <i>Tetrahedron</i> , 2017, 73, 3720-3729.	1.0	13
50	Astaxanthin diferulate as a bifunctional antioxidant. <i>Free Radical Research</i> , 2015, 49, 102-111.	1.5	12
51	Rapid Synthesis of Bicyclic Heterocyclic Cores from Terminal $\beta$ -Unsaturated Diazoketones. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2822-2830.	1.2	12
52	Six-Step Syntheses of (â''-)-1-Deoxyaltronojirimycin and (+)-1-Deoxymannonojirimycin from N-TBDPS-serinal. <i>Journal of Organic Chemistry</i> , 2016, 81, 10569-10575.	1.7	11
53	Precise Installation of Diazo-Tagged Side-Chains on Proteins to Enable In Vitro and In-Cell Site-Specific Labeling. <i>Bioconjugate Chemistry</i> , 2020, 31, 1604-1610.	1.8	10
54	Heck Arylation of Maleic Anhydrides Using Arenediazonium Tetrafluoroborates: Synthesis of Mono- and Diarylated Maleic Anhydrides and of the Marine Alkaloids Prepolycitrin A and Polycitrin A. <i>Synlett</i> , 2006, 2006, 3145-3149.	1.0	9

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55	Synthesis of Fused Bicyclic [1,2,3]-Triazoles from $\hat{1}^3$ -Amino Diazoketones. ACS Omega, 2019, 4, 159-168.	1.6	9
56	Sharpless Asymmetric Dihydroxylation on $\hat{1}^{\pm}, \hat{1}^2$ -Unsaturated Diazoketones: A New Entry for the Synthesis of Disubstituted Furanones. Synlett, 2017, 28, 1748-1752.	1.0	7
57	$\hat{1}^{\pm}, \hat{1}^2$ -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
58	A two-step synthesis of the bioprotective agent JP4-039 from N-Boc-l-leucinal. Tetrahedron, 2014, 70, 3291-3296.	1.0	6
59	Metal-Free Insertion Reactions of Diazo Carbonyls to Azlactones. Journal of Organic Chemistry, 2018, 83, 11399-11406.	1.7	6
60	Synthesis of Oxazinanones: Intramolecular Cyclization of Amino Acid-Derived Diazoketones via Sílica-Supported HClO <sub>4</sub> Catalysis. Frontiers in Chemistry, 2019, 7, 62.	1.8	6
61	Molecular Iodine Mediated Oxidation of Arylated $\hat{1}^{\pm}$ -Carbonyl Sulfoxonium Ylides to 1,2- $\hat{1}^{\pm}$ -Dicarbonyl-Containing Compounds. European Journal of Organic Chemistry, 2022, 2022, .	1.2	6
62	Direct Synthesis of Highly Substituted Cyclopentadienes and Derivatives from the Self-Condensation of Renewable Ethyl Levulinate. European Journal of Organic Chemistry, 2018, 2018, 6350-6354.	1.2	5
63	Synthetic Routes Towards the Synthesis of Geminal $\hat{1}^{\pm}$ -Difunctionalized Ketones. Chemical Record, 2021, 21, 2837-2854.	2.9	5
64	Organocatalytic Enantioselective Sulfa-Michael Additions to $\hat{1}^{\pm}, \hat{1}^2$ -Unsaturated Diazoketones. Journal of Organic Chemistry, 2022, 87, 3482-3490.	1.7	5
65	One-pot synthesis of $\hat{1}^2$ -O-4 lignin models via the insertion of stable 2-diazo-1,3-dicarbonyls into O-H bonds. Organic and Biomolecular Chemistry, 2020, 18, 4815-4823.	1.5	4
66	Enantioselective S-H Insertion Reactions of $\hat{1}^{\pm}$ -Carbonyl Sulfoxonium Ylides. Angewandte Chemie, 2020, 132, 15684-15689.	1.6	4
67	Synthesis of long-chain polyols from the Claisen condensation of $\hat{1}^3$ -valerolactone. Green Chemistry, 2019, 21, 6441-6450.	4.6	3
68	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
69	Synthesis, Structure-Activity Relationships, and Parasitological Profiling of Brussonol Derivatives as New Plasmodium falciparum Inhibitors. Pharmaceuticals, 2022, 15, 814.	1.7	1
70	Metal Carbene N-H Insertion of Chiral $\hat{1}^{\pm}, \hat{1}^2$ -Dialkyl $\hat{1}^{\pm}$ -Diazoketones. A Novel and Concise Method for the Stereocontrolled Synthesis of Fully Substituted Azetidines.. ChemInform, 2004, 35, no.	0.1	0
71	Theoretical studies of the asymmetric alkylation reaction on chiral enamines. Computational and Theoretical Chemistry, 2005, 716, 103-107.	1.5	0
72	An Improved Procedure for the Preparation of [Bis(2,2,2-trifluoroethyl)phosphono]acetic Acid. Synthesis, 2010, 2010, 361-363.	1.2	0

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