Louis-Charles Campeau

List of Publications by Year
in descending order

64 papers	6,817 citations	126708 33 h-index	114278 63 g-index
66 all docs	66 docs citations	66 times ranked	6079 citing authors

#	Article	IF	Citations
1	Catalytic Direct Arylation with Aryl Chlorides, Bromides, and Iodides:Â Intramolecular Studies Leading to New Intermolecular Reactions. Journal of the American Chemical Society, 2006, 128, 581-590.	6.6	644
2	Palladium-catalyzed direct arylation of simple arenes in synthesis of biaryl molecules. Chemical Communications, 2006, , 1253.	2.2	518
3	A Solution to the 2-Pyridyl Organometallic Cross-Coupling Problem:â€‰ Regioselective Catalytic Direct Arylation of Pyridine N-Oxides. Journal of the American Chemical Society, 2005, 127, 18020-18021.	6.6	508
4	Nanomole-scale high-throughput chemistry for the synthesis of complex molecules. Science, 2015, 347, 49-53.	6.0	454
5	Palladium-Catalyzed Direct Arylation of Azine and Azole N-Oxides: Reaction Development, Scope and Applications in Synthesis. Journal of the American Chemical Society, 2009, 131, 3291-3306.	6.6	392
6	Site-Selective sp² and Benzylic sp³ Palladium-Catalyzed Direct Arylation. Journal of the American Chemical Society, 2008, 130, 3266-3267.	6.6	337
7	Cross-Coupling and Related Reactions: Connecting Past Success to the Development of New Reactions for the Future. Organometallics, 2019, 38, 3-35.	1.1	267
8	C2, C5, and C4 Azole N-Oxide Direct Arylation Including Room-Temperature Reactions. Journal of the American Chemical Society, 2008, 130, 3276-3277.	6.6	264
9	Biaryl Synthesis via Direct Arylation:Â Establishment of an Efficient Catalyst for Intramolecular Processes. Journal of the American Chemical Society, 2004, 126, 9186-9187.	6.6	259
10	Acridinium-Based Photocatalysts: A Sustainable Option in Photoredox Catalysis. Journal of Organic Chemistry, 2016, 81, 7244-7249.	1.7	259
11	Applications of and alternatives to Ï€-electron-deficient azine organometallics in metal catalyzed cross-coupling reactions. Chemical Society Reviews, 2007, 36, 1058-1068.	18.7	220
12	High-Yielding Intramolecular Direct Arylation Reactions with Aryl Chlorides. Organic Letters, 2005, 7, 1857-1860.	2.4	217
13	Mechanistic Analysis of Azine N-Oxide Direct Arylation: Evidence for a Critical Role of Acetate in the Pd(OAc)₂ Precatalyst. Journal of Organic Chemistry, 2010, 75, 8180-8189.	1.7	203
14	Cobalt-Catalyzed Enantioselective Hydrogenation of Minimally Functionalized Alkenes: Isotopic Labeling Provides Insight into the Origin of Stereoselectivity and Alkene Insertion Preferences. Journal of the American Chemical Society, 2016, 138, 3314-3324.	6.6	179
15	Nickel-Catalyzed Asymmetric Alkene Hydrogenation of Î±,Î²-Unsaturated Esters: High-Throughput Experimentation-Enabled Reaction Discovery, Optimization, and Mechanistic Elucidation. Journal of the American Chemical Society, 2016, 138, 3562-3569.	6.6	165
16	Chemistry informer libraries: a chemoinformatics enabled approach to evaluate and advance synthetic methods. Chemical Science, 2016, 7, 2604-2613.	3.7	158
17	Development of a Direct Photocatalytic Câ€“H Fluorination for the Preparative Synthesis of Odanacatib. Organic Letters, 2015, 17, 5200-5203.	2.4	147
18	Palladium-Catalyzed Direct Arylation of Nitro-Substituted Aromatics with Aryl Halides. Organic Letters, 2008, 10, 4533-4536.	2.4	138

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19	A multifunctional catalyst that stereoselectively assembles prodrugs. Science, 2017, 356, 426-430.	6.0	116
20	Catalyst and base controlled site-selective sp2 and sp3 direct arylation of azine N-oxides. Tetrahedron, 2009, 65, 3155-3164.	1.0	109
21	Discovery and mechanistic study of a photocatalytic indoline dehydrogenation for the synthesis of elbasvir. Chemical Science, 2016, 7, 2066-2073.	3.7	103
22	In VitroCharacterization of MK-1439, a Novel HIV-1 Nonnucleoside Reverse Transcriptase Inhibitor. Antimicrobial Agents and Chemotherapy, 2014, 58, 1652-1663.	1.4	100
23	Enantioselective Synthesis of Hemiaminals via Pd-Catalyzed Câ€“N Coupling with Chiral Bisphosphine Mono-oxides. Journal of the American Chemical Society, 2015, 137, 13728-13731.	6.6	88
24	Discovery of MK-1439, an orally bioavailable non-nucleoside reverse transcriptase inhibitor potent against a wide range of resistant mutant HIV viruses. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 917-922.	1.0	81
25	Convergent Kilogram-Scale Synthesis of Dual Orexin Receptor Antagonist. Organic Process Research and Development, 2013, 17, 61-68.	1.3	69
26	A short de novo synthesis of nucleoside analogs. Science, 2020, 369, 725-730.	6.0	61
27	A kinase-cGAS cascade to synthesize a therapeutic STING activator. Nature, 2022, 603, 439-444.	13.7	58
28	P₂Et Phosphazene: A Mild, Functional Group Tolerant Base for Soluble, Room Temperature Pd-Catalyzed Câ€“N, Câ€“O, and Câ€“C Cross-Coupling Reactions. Organic Letters, 2015, 17, 3370-3373.	2.4	52
29	Analysis of Benzenoid Substitution Patterns in Small Molecule Active Pharmaceutical Ingredients. Journal of Medicinal Chemistry, 2020, 63, 13389-13396.	2.9	51
30	A Robust Kilo-Scale Synthesis of Doravirine. Organic Process Research and Development, 2016, 20, 1476-1481.	1.3	50
31	Modeling a Crowdsourced Definition of Molecular Complexity. Journal of Chemical Information and Modeling, 2014, 54, 1604-1616.	2.5	48
32	Enantioselective Synthesis of Î±-Methyl-Î²-cyclopropyldihydrocinnamates. Journal of Organic Chemistry, 2016, 81, 824-830.	1.7	38
33	The Discovery of Quinoxaline-Based Metathesis Catalysts from Synthesis of Grazoprevir (MK-5172). Organic Letters, 2016, 18, 1952-1955.	2.4	34
34	Convergent Kilo-Scale Synthesis of a Potent Renin Inhibitor for the Treatment of Hypertension. Organic Process Research and Development, 2011, 15, 1138-1148.	1.3	31
35	Development of a Palladium-Catalyzed Î±-Arylation of Cyclopropyl Nitriles. Organic Letters, 2014, 16, 6314-6317.	2.4	30
36	Design and Synthesis of Novel, Selective GPR40 AgoPAMs. ACS Medicinal Chemistry Letters, 2017, 8, 221-226.	1.3	26

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37	Selective functionalization of complex heterocycles via an automated strong base screening platform. Reaction Chemistry and Engineering, 2017, 2, 446-450.	1.9	25
38	Development of a Green and Sustainable Manufacturing Process for Gefapixant Citrate (MK-7264) Part 1: Introduction and Process Overview. Organic Process Research and Development, 2020, 24, 2445-2452.	1.3	25
39	Harder, better, faster. Nature Chemistry, 2020, 12, 661-664.	6.6	25
40	A rational pre-catalyst design for bis-phosphine mono-oxide palladium catalyzed reactions. Chemical Science, 2017, 8, 2841-2851.	3.7	24
41	A Modular Synthesis of 2-Alkyl- and 2-Arylchromans via a Three-Step Sequence. Synthesis, 2017, 49, 657-666.	1.2	21
42	Convergent, Fit-For-Purpose, Kilogram-Scale Synthesis of a 5-Lipoxygenase Inhibitor. Organic Process Research and Development, 2012, 16, 214-219.	1.3	20
43	Diversity-oriented synthesis of glycomimetics. Communications Chemistry, 2021, 4, .	2.0	17
44	Renin inhibitors for the treatment of hypertension: Design and optimization of a novel series of spirocyclic piperidines. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 7399-7404.	1.0	16
45	Renin inhibitors for the treatment of hypertension: Design and optimization of a novel series of pyridone-substituted piperidines. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3970-3975.	1.0	16
46	Development of a novel class of potent and selective FIXa inhibitors. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4945-4949.	1.0	16
47	Development of a novel tricyclic class of potent and selective FIXa inhibitors. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5437-5443.	1.0	16
48	Efficient synthesis of antiviral agent uprifosbuvir enabled by new synthetic methods. Chemical Science, 2021, 12, 9031-9036.	3.7	14
49	Design of Potent and Orally Active GPR119 Agonists for the Treatment of Type II Diabetes. ACS Medicinal Chemistry Letters, 2015, 6, 936-941.	1.3	13
50	Efficient preparation of 3â€substituted quinazolinediones directly from anthranilic acids and isocyanates. Journal of Heterocyclic Chemistry, 2011, 48, 473-478.	1.4	11
51	Discovery of phenyl acetamides as potent and selective GPR119 agonists. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 1124-1128.	1.0	10
52	Discovery and optimization of 2-pyridinone aminal integrase strand transfer inhibitors for the treatment of HIV. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2038-2046.	1.0	10
53	Invention of MK-8262, a Cholesteryl Ester Transfer Protein (CETP) Inhibitor Backup to Anacetrapib with Best-in-Class Properties. Journal of Medicinal Chemistry, 2021, 64, 13215-13258.	2.9	10
54	Chemoselective Staudinger Strategy in the Practical, Fit for Purpose, Gram-Scale Synthesis of an HCV RNA Polymerase Inhibitor. Synlett, 2011, 2011, 57-60.	1.0	8

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55	Driving Aspirational Process Mass Intensity Using Simple Structure-Based Prediction. Organic Process Research and Development, 2022, 26, 1405-1410.	1.3	8
56	Synthesis of Î±-Aryl Secondary Amides via Nickel-Catalyzed Reductive Coupling of Redox-Active Esters. Organic Letters, 2022, 24, 3173-3178.	2.4	8
57	Kilogram-Scale Synthesis of 2â€²-C-Methyl-arabino-Uridine from Uridine via Dynamic Selective Dipivaloylation. Organic Process Research and Development, 2022, 26, 698-709.	1.3	7
58	The Roles of Organometallic Chemistry in Pharmaceutical Research and Development. Organometallics, 2019, 38, 1-2.	1.1	6
59	Practical and concise synthesis of nucleoside analogs. Nature Protocols, 2022, 17, 2008-2024.	5.5	5
60	Bringing amines back into aziridination. Nature Chemistry, 2021, 13, 1027-1028.	6.6	2
61	Polycationic Rhâ€“JosiPhos Polymers Supported on Phosphotungstic Acid/Al₂O₃ by Multiple Electrostatic Attractions. ACS Catalysis, 2022, 12, 2034-2044.	5.5	2
62	Convergent Approach to Nonsymmetrical 2,5-Diester Pyrroles. Synlett, 2010, 2010, 3086-3088.	1.0	1
63	Response to the Comments by Rautenstrauch et al. on our Article, â€œConvergent Kilo-Scale Synthesis of a Potent Renin Inhibitor for the Treatment of Hypertensionâ€• Organic Process Research and Development, 2012, 16, 1187-1187.	1.3	1
64	Preface: Modern Heterocycle Synthesis and Functionalization. Synlett, 2021, 32, 140-141.	1.0	0