Duncan L Browne

List of Publications by Year
in descending order

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Version: 2024-02-01

86 papers	5,749 citations	87888 38 h-index	79698 73 g-index
114 all docs	114 docs citations	114 times ranked	5465 citing authors

#	Article	IF	Citations
1	Safety and Efficacy of NVX-CoV2373 Covid-19 Vaccine. New England Journal of Medicine, 2021, 385, 1172-1183.	27.0	734
2	Mechanochemistry as an emerging tool for molecular synthesis: what can it offer?. Chemical Science, 2018, 9, 3080-3094.	7.4	610
3	Flow chemistry syntheses of natural products. Chemical Society Reviews, 2013, 42, 8849.	38.1	602
4	Recent developments in the chemistry of sydnones. Tetrahedron, 2010, 66, 553-568.	1.9	170
5	Sulfonamide Synthesis through Electrochemical Oxidative Coupling of Amines and Thiols. Journal of the American Chemical Society, 2019, 141, 5664-5668.	13.7	146
6	Continuous Flow Processing of Slurries: Evaluation of an Agitated Cell Reactor. Organic Process Research and Development, 2011, 15, 693-697.	2.7	135
7	Continuous Flow-Processing of Organometallic Reagents Using an Advanced Peristaltic Pumping System and the Telescoped Flow Synthesis of (E/Z)-Tamoxifen. Organic Process Research and Development, 2013, 17, 1192-1208.	2.7	133
8	Continuous flow reaction monitoring using an onâ€line miniature mass spectrometer. Rapid Communications in Mass Spectrometry, 2012, 26, 1999-2010.	1.5	118
9	A New Enabling Technology for Convenient Laboratory Scale Continuous Flow Processing at Low Temperatures. Organic Letters, 2011, 13, 3312-3315.	4.6	109
10	Flow synthesis using gaseous ammonia in a Teflon AF-2400 tube-in-tube reactor: Paalâ€“Knorr pyrrole formation and gas concentration measurement by inline flow titration. Organic and Biomolecular Chemistry, 2012, 10, 5774.	2.8	100
11	A prototype continuous-flow liquidâ€“liquid extraction system using open-source technology. Organic and Biomolecular Chemistry, 2012, 10, 7031.	2.8	98
12	Mechanochemical Activation of Zinc and Application to Negishi Crossâ€Coupling. Angewandte Chemie - International Edition, 2018, 57, 11339-11343.	13.8	98
13	A Sydnone Cycloaddition Route to Pyrazole Boronic Esters. Angewandte Chemie - International Edition, 2007, 46, 8656-8658.	13.8	97
14	Controlling reactivity through liquid assisted grinding: the curious case of mechanochemical fluorination. Green Chemistry, 2017, 19, 2798-2802.	9.0	95
15	Investigation of the Scope and Regiochemistry of Alkynylboronate Cycloadditions with Sydnones. Journal of the American Chemical Society, 2009, 131, 7762-7769.	13.7	92
16	Safety, immunogenicity, and efficacy of a COVID-19 vaccine (NVX-CoV2373) co-administered with seasonal influenza vaccines: an exploratory substudy of a randomised, observer-blinded, placebo-controlled, phase 3 trial. Lancet Respiratory Medicine,the, 2022, 10, 167-179.	10.7	89
17	Switching Chemoselectivity: Using Mechanochemistry to Alter Reaction Kinetics. Angewandte Chemie - International Edition, 2018, 57, 16104-16108.	13.8	85
18	Expedient Preparation of Nazlinine and a Small Library of Indole Alkaloids Using Flow Electrochemistry as an Enabling Technology. Organic Letters, 2014, 16, 4618-4621.	4.6	78

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19	Manganese-Catalyzed Electrochemical Deconstructive Chlorination of Cycloalkanols via Alkoxy Radicals. Organic Letters, 2019, 21, 9241-9246.	4.6	75
20	An Alkynyliodide Cycloaddition Strategy for the Construction of Iodoisoxazoles. Journal of Organic Chemistry, 2010, 75, 5414-5416.	3.2	72
21	Mechanoredox Chemistry as an Emerging Strategy in Synthesis. Chemistry - A European Journal, 2021, 27, 9721-9726.	3.3	72
22	Scaling Up of Continuous Flow Processes with Gases Using a Tube-in-Tube Reactor: Inline Titrations and Fanetizole Synthesis with Ammonia. Organic Process Research and Development, 2013, 17, 1183-1191.	2.7	70
23	Robust Buchwaldâ€“Hartwig amination enabled by ball-milling. Organic and Biomolecular Chemistry, 2019, 17, 1722-1726.	2.8	67
24	Alkyne [3 + 2] Cycloadditions of Iodosydnones Toward Functionalized 1,3,5-Trisubstituted Pyrazoles. Journal of Organic Chemistry, 2010, 75, 984-987.	3.2	66
25	Camera-enabled techniques for organic synthesis. Beilstein Journal of Organic Chemistry, 2013, 9, 1051-1072.	2.2	66
26	Continuous flow mechanochemistry: reactive extrusion as an enabling technology in organic synthesis. Chemical Society Reviews, 2022, 51, 4243-4260.	38.1	58
27	Translating solid state organic synthesis from a mixer mill to a continuous twin screw extruder. Green Chemistry, 2018, 20, 4443-4447.	9.0	57
28	A Ballâ€Millingâ€Enabled Reformatsky Reaction. ChemSusChem, 2019, 12, 2554-2557.	6.8	54
29	A divergent strategy to the withasomnines. Organic and Biomolecular Chemistry, 2009, 7, 4052.	2.8	53
30	The Trifluoromethylating Sandmeyer Reaction: A Method for Transforming Cï£¿N into Cï£¿CF₃. Angewandte Chemie - International Edition, 2014, 53, 1482-1484.	13.8	53
31	Cross Coupling of Bromo Sydnones: Development of a Flexible Route toward Functionalized Pyrazoles. Journal of Organic Chemistry, 2009, 74, 396-400.	3.2	50
32	Design and Application of a Low-Temperature Continuous Flow Chemistry Platform. Organic Process Research and Development, 2014, 18, 1211-1220.	2.7	50
33	Unlocking the catalytic potential of tris(3,4,5-trifluorophenyl)borane with microwave irradiation. Chemical Communications, 2019, 55, 318-321.	4.1	48
34	A Robust Pd-Catalyzed Câ€“S Cross-Coupling Process Enabled by Ball-Milling. Organic Letters, 2020, 22, 7433-7438.	4.6	47
35	Direct Amidation of Esters by Ball Milling**. Angewandte Chemie - International Edition, 2021, 60, 21868-21874.	13.8	46
36	A 2-pyrone cycloaddition route to functionalised aromatic boronic esters. Tetrahedron, 2008, 64, 866-873.	1.9	44

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37	A multistep continuous flow synthesis machine for the preparation of pyrazoles via a metal-free amine-redox process. Reaction Chemistry and Engineering, 2016, 1, 101-105.	3.7	44
38	A Mechanochemical Zinc-Mediated Barbier-Type Allylation Reaction under Ball-Milling Conditions. Journal of Organic Chemistry, 2020, 85, 2347-2354.	3.2	41
39	Preparation of difluoromethylthioethers through difluoromethylation of disulfides using TMS-CF₂H. Chemical Communications, 2016, 52, 8448-8451.	4.1	40
40	Mechanochemical Activation of Zinc and Application to Negishi Crossâ€Coupling. Angewandte Chemie, 2018, 130, 11509-11513.	2.0	40
41	One-pot multistep mechanochemical synthesis of fluorinated pyrazolones. Beilstein Journal of Organic Chemistry, 2017, 13, 1950-1956.	2.2	39
42	Comparison of the Thermal Stabilities of Diazonium Salts and Their Corresponding Triazenes. Organic Process Research and Development, 2020, 24, 2336-2341.	2.7	39
43	Cycloaddition of benzynes and nitrile oxides: synthesis of benzisoxazoles. Tetrahedron Letters, 2010, 51, 2271-2273.	1.4	38
44	Synthesis and Use of a Trifluoromethylated Azomethine Ylide Precursor. Journal of Organic Chemistry, 2012, 77, 11071-11078.	3.2	37
45	Synthesis of trifluoromethylated isoxazoles and their elaboration through inter- and intra-molecular Câ€“H arylation. Organic and Biomolecular Chemistry, 2016, 14, 5983-5991.	2.8	37
46	Mechanochemical Organocatalysis: Do High Enantioselectivities Contradict What We Might Expect?. ChemSusChem, 2022, 15, .	6.8	37
47	Switching Chemoselectivity: Using Mechanochemistry to Alter Reaction Kinetics. Angewandte Chemie, 2018, 130, 16336-16340.	2.0	36
48	Piecing together the puzzle: understanding a mild, metal free reduction method for the large scale synthesis of hydrazines. Tetrahedron, 2011, 67, 10296-10303.	1.9	35
49	Investigation of a Lithiumâ€“Halogen Exchange Flow Process for the Preparation of Boronates by Using a Cryoâ€Flow Reactor. Chemistry - A European Journal, 2014, 20, 263-271.	3.3	35
50	Discovery of New Metastable Polymorphs in a Family of Urea Co-Crystals by Solid-State Mechanochemistry. Crystal Growth and Design, 2015, 15, 2901-2907.	3.0	34
51	Exploring the C^N^C theme: Synthesis and biological properties of tridentate cyclometalated gold(III) complexes. Bioorganic and Medicinal Chemistry, 2017, 25, 5452-5460.	3.0	32
52	Continuous-Flow Processing of Gaseous Ammonia Using a Teflon AF-2400 Tube-in-Tube Reactor: Synthesis of Thioureas and In-Line Titrations. Synlett, 2012, 23, 1402-1406.	1.8	31
53	Reconfiguration of a Continuous Flow Platform for Extended Operation: Application to a Cryogenic Fluorine-Directed ortho-Lithiation Reaction. Organic Process Research and Development, 2014, 18, 1221-1228.	2.7	31
54	Continuous Flow Metathesis for Direct Valorization of Food Waste: An Example of Cocoa Butter Triglyceride. ACS Sustainable Chemistry and Engineering, 2015, 3, 1453-1459.	6.7	29

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55	A Ball-Milling-Enabled Cross-Electrophile Coupling. Organic Letters, 2021, 23, 6337-6341.	4.6	29
56	Back Pressure Regulation of Slurryâ€Forming Reactions in Continuous Flow. Chemical Engineering and Technology, 2015, 38, 259-264.	1.5	27
57	On the use of 2-(trimethylsilyl)iodobenzene as a benzyne precursor. Tetrahedron Letters, 2010, 51, 6608-6610.	1.4	26
58	Mechanochemical electrophilic fluorination of liquid beta-ketoesters. Tetrahedron, 2018, 74, 3118-3123.	1.9	25
59	Ballâ€Millingâ€Enabled Reactivity of Manganese Metal**. Angewandte Chemie - International Edition, 2021, 60, 23128-23133.	13.8	25
60	Expedient Organocatalytic Aza-Moritaâ€“Baylisâ€“Hillman Reaction through Ball-Milling. ACS Sustainable Chemistry and Engineering, 2020, 8, 17876-17881.	6.7	24
61	Continuous Flow Zâ€Stereoselective Olefin Metathesis: Development and Applications in the Synthesis of Pheromones and Macrocyclic Odorant Molecules**. Angewandte Chemie - International Edition, 2021, 60, 19685-19690.	13.8	24
62	From Ligand to Phosphor: Rapid, Machineâ€Assisted Synthesis of Substituted Iridium(III) Pyrazolate Complexes with Tuneable Luminescence. Chemistry - A European Journal, 2017, 23, 9407-9418.	3.3	23
63	Nâ€Heterocyclic Carbene Acyl Anion Organocatalysis by Ballâ€Milling. ChemSusChem, 2020, 13, 131-135.	6.8	22
64	Accessing novel fluorinated heterocycles with the hypervalent fluoroiodane reagent by solution and mechanochemical synthesis. Chemical Communications, 2021, 57, 7406-7409.	4.1	22
65	Continuous flow synthesis of antimalarials: opportunities for distributed autonomous chemical manufacturing. Reaction Chemistry and Engineering, 2017, 2, 281-287.	3.7	19
66	Integrated Batch and Continuous Flow Process for the Synthesis of Goniothalamin. ACS Omega, 2020, 5, 18472-18483.	3.5	18
67	Solvent-Minimized Synthesis of 4CzIPN and Related Organic Fluorophores via Ball Milling. Journal of Organic Chemistry, 2021, 86, 14095-14101.	3.2	17
68	Electrochemical Deconstructive Functionalization of Cycloalkanols via Alkoxy Radicals Enabled by Proton-Coupled Electron Transfer. Organic Letters, 2022, 24, 3890-3895.	4.6	16
69	Exploring Multistep Continuousâ€Flow Hydrosilylation Reactions Catalyzed by Tris(pentafluorophenyl)borane. Advanced Synthesis and Catalysis, 2017, 359, 2580-2584.	4.3	12
70	A continuous flow-batch hybrid reactor for commodity chemical synthesis enabled by inline NMR and temperature monitoring. Tetrahedron, 2018, 74, 5503-5509.	1.9	12
71	Continuous Cold without Cryogenic Consumables: Development of a Convenient Laboratory Tool for Lowâ€Temperature Flow Processes. Chemical Engineering and Technology, 2013, 36, 959-967.	1.5	11
72	Protected diazonium salts: A continuous-flow preparation of triazenes including the anticancer compounds dacarbazine and mitozolomide. Journal of Flow Chemistry, 2016, 6, 218-225.	1.9	11

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73	A machine-assisted approach for the preparation of follow-on pharmaceutical compound libraries. Reaction Chemistry and Engineering, 2018, 3, 210-215.	3.7	11
74	Studies of a Diastereoselective Electrophilic Fluorination Reaction Employing a Cryo-Flow Reactor. Synlett, 2013, 24, 1298-1302.	1.8	10
75	Continuous stream processing: a prototype magnetic field induced flow mixer. Green Processing and Synthesis, 2012, 1, .	3.4	8
76	Exploring the generation and use of acylketenes with continuous flow processes. Reaction Chemistry and Engineering, 2019, 4, 1559-1564.	3.7	8
77	Continuous flow processing as a tool for the generation of terpene-derived monomer libraries. Reaction Chemistry and Engineering, 2019, 4, 362-367.	3.7	8
78	Direct Amidation of Esters by Ball Milling**. Angewandte Chemie, 2021, 133, 22039-22045.	2.0	8
79	Formation and Utility of Reactive Ketene Intermediates Under Continuous Flow Conditions. Tetrahedron, 2021, , 132305.	1.9	7
80	Ballâ€Millingâ€Enabled Reactivity of Manganese Metal**. Angewandte Chemie, 2021, 133, 23312-23317.	2.0	7
81	Cluster Preface: Progress in Organo-Fluorine Chemistry. Synlett, 2014, 26, 33-35.	1.8	5
82	Continuous Flow Z â€Stereoselective Olefin Metathesis: Development and Applications in the Synthesis of Pheromones and Macrocyclic Odorant Molecules**. Angewandte Chemie, 2021, 133, 19837-19842.	2.0	5
83	Chapter 15. Fluorination Approaches. , 0, , 263-370.		1
84	Flow chemistry. Green Processing and Synthesis, 2015, 4, .	3.4	0
85	Frontispiece: Mechanoredox Chemistry as an Emerging Strategy in Synthesis. Chemistry - A European Journal, 2021, 27, .	3.3	0
86	Continuous Flow-Processing of Organometallic Reagents Using an Advanced Peristaltic Pumping System and the Telescoped Flow Synthesis of (E/Z)-Tamoxifen. , 0, , .		0