

Duncan L Browne

List of Publications by Year in descending order

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86
papers

5,749
citations

87888

38
h-index

79698

73
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114
all docs

114
docs citations

114
times ranked

5465
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Lancet Respiratory Medicine</i> , 2022, 10, 167-179.	10.7	89
2	Mechanochemical Organocatalysis: Do High Enantioselectivities Contradict What We Might Expect?. <i>ChemSusChem</i> , 2022, 15, .	6.8	37
3	Continuous flow mechanochemistry: reactive extrusion as an enabling technology in organic synthesis. <i>Chemical Society Reviews</i> , 2022, 51, 4243-4260.	38.1	58
4	Electrochemical Deconstructive Functionalization of Cycloalkanols via Alkoxy Radicals Enabled by Proton-Coupled Electron Transfer. <i>Organic Letters</i> , 2022, 24, 3890-3895.	4.6	16
5	Accessing novel fluorinated heterocycles with the hypervalent fluoroiodane reagent by solution and mechanochemical synthesis. <i>Chemical Communications</i> , 2021, 57, 7406-7409.	4.1	22
6	Mechanoredox Chemistry as an Emerging Strategy in Synthesis. <i>Chemistry - A European Journal</i> , 2021, 27, 9721-9726.	3.3	72
7	Formation and Utility of Reactive Ketene Intermediates Under Continuous Flow Conditions. <i>Tetrahedron</i> , 2021, , 132305.	1.9	7
8	Frontispiece: Mechanoredox Chemistry as an Emerging Strategy in Synthesis. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0
9	Solvent-Minimized Synthesis of 4CzIPN and Related Organic Fluorophores via Ball Milling. <i>Journal of Organic Chemistry</i> , 2021, 86, 14095-14101.	3.2	17
10	Continuous Flow <i>Z</i> -Selective Olefin Metathesis: Development and Applications in the Synthesis of Pheromones and Macrocyclic Odorant Molecules**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19685-19690.	13.8	24
11	Continuous Flow <i>Z</i> -Selective Olefin Metathesis: Development and Applications in the Synthesis of Pheromones and Macrocyclic Odorant Molecules**. <i>Angewandte Chemie</i> , 2021, 133, 19837-19842.	2.0	5
12	A Ball-Milling-Enabled Cross-Electrophile Coupling. <i>Organic Letters</i> , 2021, 23, 6337-6341.	4.6	29
13	Direct Amidation of Esters by Ball Milling**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21868-21874.	13.8	46
14	Direct Amidation of Esters by Ball Milling**. <i>Angewandte Chemie</i> , 2021, 133, 22039-22045.	2.0	8
15	Ball-Milling-Enabled Reactivity of Manganese Metal**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23128-23133.	13.8	25
16	Safety and Efficacy of NVX-CoV2373 Covid-19 Vaccine. <i>New England Journal of Medicine</i> , 2021, 385, 1172-1183.	27.0	734
17	Ball-Milling-Enabled Reactivity of Manganese Metal**. <i>Angewandte Chemie</i> , 2021, 133, 23312-23317.	2.0	7
18	A Mechanochemical Zinc-Mediated Barbier-Type Allylation Reaction under Ball-Milling Conditions. <i>Journal of Organic Chemistry</i> , 2020, 85, 2347-2354.	3.2	41

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19	Nâ€Heterocyclic Carbene Acyl Anion Organocatalysis by Ballâ€Milling. <i>ChemSusChem</i> , 2020, 13, 131-135.	6.8	22
20	Expedient Organocatalytic Aza-Moritaâ€Baylisâ€Hillman Reaction through Ball-Milling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17876-17881.	6.7	24
21	Integrated Batch and Continuous Flow Process for the Synthesis of Goniotalamin. <i>ACS Omega</i> , 2020, 5, 18472-18483.	3.5	18
22	A Robust Pd-Catalyzed Câ€S Cross-Coupling Process Enabled by Ball-Milling. <i>Organic Letters</i> , 2020, 22, 7433-7438.	4.6	47
23	Comparison of the Thermal Stabilities of Diazonium Salts and Their Corresponding Triazenes. <i>Organic Process Research and Development</i> , 2020, 24, 2336-2341.	2.7	39
24	Manganese-Catalyzed Electrochemical Deconstructive Chlorination of Cycloalkanols via Alkoxy Radicals. <i>Organic Letters</i> , 2019, 21, 9241-9246.	4.6	75
25	Unlocking the catalytic potential of tris(3,4,5-trifluorophenyl)borane with microwave irradiation. <i>Chemical Communications</i> , 2019, 55, 318-321.	4.1	48
26	A Ballâ€Millingâ€Enabled Reformatsky Reaction. <i>ChemSusChem</i> , 2019, 12, 2554-2557.	6.8	54
27	Sulfonamide Synthesis through Electrochemical Oxidative Coupling of Amines and Thiols. <i>Journal of the American Chemical Society</i> , 2019, 141, 5664-5668.	13.7	146
28	Exploring the generation and use of acylketenes with continuous flow processes. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1559-1564.	3.7	8
29	Robust Buchwaldâ€Hartwig amination enabled by ball-milling. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1722-1726.	2.8	67
30	Continuous flow processing as a tool for the generation of terpene-derived monomer libraries. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 362-367.	3.7	8
31	Mechanochemistry as an emerging tool for molecular synthesis: what can it offer?. <i>Chemical Science</i> , 2018, 9, 3080-3094.	7.4	610
32	A machine-assisted approach for the preparation of follow-on pharmaceutical compound libraries. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 210-215.	3.7	11
33	Mechanochemical electrophilic fluorination of liquid beta-ketoesters. <i>Tetrahedron</i> , 2018, 74, 3118-3123.	1.9	25
34	Switching Chemoselectivity: Using Mechanochemistry to Alter Reaction Kinetics. <i>Angewandte Chemie</i> , 2018, 130, 16336-16340.	2.0	36
35	Switching Chemoselectivity: Using Mechanochemistry to Alter Reaction Kinetics. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16104-16108.	13.8	85
36	Translating solid state organic synthesis from a mixer mill to a continuous twin screw extruder. <i>Green Chemistry</i> , 2018, 20, 4443-4447.	9.0	57

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37	A continuous flow-batch hybrid reactor for commodity chemical synthesis enabled by inline NMR and temperature monitoring. <i>Tetrahedron</i> , 2018, 74, 5503-5509.	1.9	12
38	Mechanochemical Activation of Zinc and Application to Negishi Cross-Coupling. <i>Angewandte Chemie</i> , 2018, 130, 11509-11513.	2.0	40
39	Mechanochemical Activation of Zinc and Application to Negishi Cross-Coupling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11339-11343.	13.8	98
40	Exploring Multistep Continuous-Flow Hydrosilylation Reactions Catalyzed by Tris(pentafluorophenyl)borane. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2580-2584.	4.3	12
41	From Ligand to Phosphor: Rapid, Machine-Assisted Synthesis of Substituted Iridium(III) Pyrazolate Complexes with Tuneable Luminescence. <i>Chemistry - A European Journal</i> , 2017, 23, 9407-9418.	3.3	23
42	Continuous flow synthesis of antimalarials: opportunities for distributed autonomous chemical manufacturing. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 281-287.	3.7	19
43	Controlling reactivity through liquid assisted grinding: the curious case of mechanochemical fluorination. <i>Green Chemistry</i> , 2017, 19, 2798-2802.	9.0	95
44	Exploring the C ^N C theme: Synthesis and biological properties of tridentate cyclometalated gold(III) complexes. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5452-5460.	3.0	32
45	One-pot multistep mechanochemical synthesis of fluorinated pyrazolones. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1950-1956.	2.2	39
46	Protected diazonium salts: A continuous-flow preparation of triazenes including the anticancer compounds dacarbazine and mitozolomide. <i>Journal of Flow Chemistry</i> , 2016, 6, 218-225.	1.9	11
47	Synthesis of trifluoromethylated isoxazoles and their elaboration through inter- and intra-molecular C-H arylation. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5983-5991.	2.8	37
48	Preparation of difluoromethylthioethers through difluoromethylation of disulfides using TMS-CF ₂ H. <i>Chemical Communications</i> , 2016, 52, 8448-8451.	4.1	40
49	A multistep continuous flow synthesis machine for the preparation of pyrazoles <i>via</i> a metal-free amine-redox process. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 101-105.	3.7	44
50	Discovery of New Metastable Polymorphs in a Family of Urea Co-Crystals by Solid-State Mechanochemistry. <i>Crystal Growth and Design</i> , 2015, 15, 2901-2907.	3.0	34
51	Continuous Flow Metathesis for Direct Valorization of Food Waste: An Example of Cocoa Butter Triglyceride. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1453-1459.	6.7	29
52	Flow chemistry. <i>Green Processing and Synthesis</i> , 2015, 4, .	3.4	0
53	Back Pressure Regulation of Slurry-Forming Reactions in Continuous Flow. <i>Chemical Engineering and Technology</i> , 2015, 38, 259-264.	1.5	27
54	Cluster Preface: Progress in Organo-Fluorine Chemistry. <i>Synlett</i> , 2014, 26, 33-35.	1.8	5

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55	The Trifluoromethylating Sandmeyer Reaction: A Method for Transforming C ₁ N into C ₁ CF ₃ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1482-1484.	13.8	53
56	Reconfiguration of a Continuous Flow Platform for Extended Operation: Application to a Cryogenic Fluorine-Directed ortho-Lithiation Reaction. <i>Organic Process Research and Development</i> , 2014, 18, 1221-1228.	2.7	31
57	Design and Application of a Low-Temperature Continuous Flow Chemistry Platform. <i>Organic Process Research and Development</i> , 2014, 18, 1211-1220.	2.7	50
58	Expedient Preparation of Nazlinine and a Small Library of Indole Alkaloids Using Flow Electrochemistry as an Enabling Technology. <i>Organic Letters</i> , 2014, 16, 4618-4621.	4.6	78
59	Investigation of a Lithium-Halogen Exchange Flow Process for the Preparation of Boronates by Using a Cryo-Flow Reactor. <i>Chemistry - A European Journal</i> , 2014, 20, 263-271.	3.3	35
60	Flow chemistry syntheses of natural products. <i>Chemical Society Reviews</i> , 2013, 42, 8849.	38.1	602
61	Continuous Flow-Processing of Organometallic Reagents Using an Advanced Peristaltic Pumping System and the Telescoped Flow Synthesis of (<i>E/Z</i>)-Tamoxifen. <i>Organic Process Research and Development</i> , 2013, 17, 1192-1208.	2.7	133
62	Scaling Up of Continuous Flow Processes with Gases Using a Tube-in-Tube Reactor: Inline Titrations and Fanutazole Synthesis with Ammonia. <i>Organic Process Research and Development</i> , 2013, 17, 1183-1191.	2.7	70
63	Studies of a Diastereoselective Electrophilic Fluorination Reaction Employing a Cryo-Flow Reactor. <i>Synlett</i> , 2013, 24, 1298-1302.	1.8	10
64	Continuous Cold without Cryogenic Consumables: Development of a Convenient Laboratory Tool for Low-Temperature Flow Processes. <i>Chemical Engineering and Technology</i> , 2013, 36, 959-967.	1.5	11
65	Camera-enabled techniques for organic synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1051-1072.	2.2	66
66	Continuous-Flow Processing of Gaseous Ammonia Using a Teflon AF-2400 Tube-in-Tube Reactor: Synthesis of Thioureas and In-Line Titrations. <i>Synlett</i> , 2012, 23, 1402-1406.	1.8	31
67	Continuous stream processing: a prototype magnetic field induced flow mixer. <i>Green Processing and Synthesis</i> , 2012, 1, .	3.4	8
68	Synthesis and Use of a Trifluoromethylated Azomethine Ylide Precursor. <i>Journal of Organic Chemistry</i> , 2012, 77, 11071-11078.	3.2	37
69	Flow synthesis using gaseous ammonia in a Teflon AF-2400 tube-in-tube reactor: Paal-Knorr pyrrole formation and gas concentration measurement by inline flow titration. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5774.	2.8	100
70	Continuous flow reaction monitoring using an online miniature mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1999-2010.	1.5	118
71	A prototype continuous-flow liquid-liquid extraction system using open-source technology. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7031.	2.8	98
72	Continuous Flow Processing of Slurries: Evaluation of an Agitated Cell Reactor. <i>Organic Process Research and Development</i> , 2011, 15, 693-697.	2.7	135

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73	Piecing together the puzzle: understanding a mild, metal free reduction method for the large scale synthesis of hydrazines. <i>Tetrahedron</i> , 2011, 67, 10296-10303.	1.9	35
74	A New Enabling Technology for Convenient Laboratory Scale Continuous Flow Processing at Low Temperatures. <i>Organic Letters</i> , 2011, 13, 3312-3315.	4.6	109
75	Recent developments in the chemistry of sydnones. <i>Tetrahedron</i> , 2010, 66, 553-568.	1.9	170
76	Cycloaddition of benzyne and nitrile oxides: synthesis of benzisoxazoles. <i>Tetrahedron Letters</i> , 2010, 51, 2271-2273.	1.4	38
77	On the use of 2-(trimethylsilyl)iodobenzene as a benzyne precursor. <i>Tetrahedron Letters</i> , 2010, 51, 6608-6610.	1.4	26
78	Alkyne [3 + 2] Cycloadditions of Iodosydnones Toward Functionalized 1,3,5-Trisubstituted Pyrazoles. <i>Journal of Organic Chemistry</i> , 2010, 75, 984-987.	3.2	66
79	An Alkynyl iodide Cycloaddition Strategy for the Construction of Iodoisoxazoles. <i>Journal of Organic Chemistry</i> , 2010, 75, 5414-5416.	3.2	72
80	Investigation of the Scope and Regiochemistry of Alkynylboronate Cycloadditions with Sydnones. <i>Journal of the American Chemical Society</i> , 2009, 131, 7762-7769.	13.7	92
81	Cross Coupling of Bromo Sydnones: Development of a Flexible Route toward Functionalized Pyrazoles. <i>Journal of Organic Chemistry</i> , 2009, 74, 396-400.	3.2	50
82	A divergent strategy to the withasomnines. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4052.	2.8	53
83	A 2-pyrone cycloaddition route to functionalised aromatic boronic esters. <i>Tetrahedron</i> , 2008, 64, 866-873.	1.9	44
84	A Sydnone Cycloaddition Route to Pyrazole Boronic Esters. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8656-8658.	13.8	97
85	Chapter 15. Fluorination Approaches. , 0, , 263-370.		1
86	Continuous Flow-Processing of Organometallic Reagents Using an Advanced Peristaltic Pumping System and the Telescoped Flow Synthesis of (E/Z)-Tamoxifen. , 0, , .		0