

Duncan L Browne

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

5,749
citations

87723

38
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79541

73
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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. <i>New England Journal of Medicine</i> , 2021, 385, 1172-1183. | 13.9 | 734 |
| 2 | Mechanochemistry as an emerging tool for molecular synthesis: what can it offer?. <i>Chemical Science</i> , 2018, 9, 3080-3094. | 3.7 | 610 |
| 3 | Flow chemistry syntheses of natural products. <i>Chemical Society Reviews</i> , 2013, 42, 8849. | 18.7 | 602 |
| 4 | Recent developments in the chemistry of sydnone. <i>Tetrahedron</i> , 2010, 66, 553-568. | 1.0 | 170 |
| 5 | Sulfonamide Synthesis through Electrochemical Oxidative Coupling of Amines and Thiols. <i>Journal of the American Chemical Society</i> , 2019, 141, 5664-5668. | 6.6 | 146 |
| 6 | Continuous Flow Processing of Slurries: Evaluation of an Agitated Cell Reactor. <i>Organic Process Research and Development</i> , 2011, 15, 693-697. | 1.3 | 135 |
| 7 | 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. | 1.3 | 133 |
| 8 | Continuous flow reaction monitoring using an online miniature mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1999-2010. | 0.7 | 118 |
| 9 | A New Enabling Technology for Convenient Laboratory Scale Continuous Flow Processing at Low Temperatures. <i>Organic Letters</i> , 2011, 13, 3312-3315. | 2.4 | 109 |
| 10 | 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. | 1.5 | 100 |
| 11 | A prototype continuous-flow liquid-liquid extraction system using open-source technology. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7031. | 1.5 | 98 |
| 12 | Mechanochemical Activation of Zinc and Application to Negishi Cross-Coupling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11339-11343. | 7.2 | 98 |
| 13 | A Sydnone Cycloaddition Route to Pyrazole Boronic Esters. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8656-8658. | 7.2 | 97 |
| 14 | Controlling reactivity through liquid assisted grinding: the curious case of mechanochemical fluorination. <i>Green Chemistry</i> , 2017, 19, 2798-2802. | 4.6 | 95 |
| 15 | Investigation of the Scope and Regiochemistry of Alkynylboronate Cycloadditions with Sydnone. <i>Journal of the American Chemical Society</i> , 2009, 131, 7762-7769. | 6.6 | 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. <i>Lancet Respiratory Medicine</i> , 2022, 10, 167-179. | 5.2 | 89 |
| 17 | Switching Chemoselectivity: Using Mechanochemistry to Alter Reaction Kinetics. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16104-16108. | 7.2 | 85 |
| 18 | Expedient Preparation of Nazline and a Small Library of Indole Alkaloids Using Flow Electrochemistry as an Enabling Technology. <i>Organic Letters</i> , 2014, 16, 4618-4621. | 2.4 | 78 |

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|----|--|------|-----------|
| 19 | Manganese-Catalyzed Electrochemical Deconstructive Chlorination of Cycloalkanols via Alkoxy Radicals. <i>Organic Letters</i> , 2019, 21, 9241-9246. | 2.4 | 75 |
| 20 | An Alkynyl iodide Cycloaddition Strategy for the Construction of Iodoisoxazoles. <i>Journal of Organic Chemistry</i> , 2010, 75, 5414-5416. | 1.7 | 72 |
| 21 | Mechanoredox Chemistry as an Emerging Strategy in Synthesis. <i>Chemistry - A European Journal</i> , 2021, 27, 9721-9726. | 1.7 | 72 |
| 22 | Scaling Up of Continuous Flow Processes with Gases Using a Tube-in-Tube Reactor: Inline Titrations and Fanitazole Synthesis with Ammonia. <i>Organic Process Research and Development</i> , 2013, 17, 1183-1191. | 1.3 | 70 |
| 23 | Robust Buchwald-Hartwig amination enabled by ball-milling. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1722-1726. | 1.5 | 67 |
| 24 | Alkyne [3 + 2] Cycloadditions of Iodosydnones Toward Functionalized 1,3,5-Trisubstituted Pyrazoles. <i>Journal of Organic Chemistry</i> , 2010, 75, 984-987. | 1.7 | 66 |
| 25 | Camera-enabled techniques for organic synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1051-1072. | 1.3 | 66 |
| 26 | Continuous flow mechanochemistry: reactive extrusion as an enabling technology in organic synthesis. <i>Chemical Society Reviews</i> , 2022, 51, 4243-4260. | 18.7 | 58 |
| 27 | Translating solid state organic synthesis from a mixer mill to a continuous twin screw extruder. <i>Green Chemistry</i> , 2018, 20, 4443-4447. | 4.6 | 57 |
| 28 | A Ball-Milling-Enabled Reformatsky Reaction. <i>ChemSusChem</i> , 2019, 12, 2554-2557. | 3.6 | 54 |
| 29 | A divergent strategy to the withasomnines. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4052. | 1.5 | 53 |
| 30 | The Trifluoromethylating Sandmeyer Reaction: A Method for Transforming $C\equiv N$ into $C\equiv CF_3$. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1482-1484. | 7.2 | 53 |
| 31 | Cross Coupling of Bromo Sydnones: Development of a Flexible Route toward Functionalized Pyrazoles. <i>Journal of Organic Chemistry</i> , 2009, 74, 396-400. | 1.7 | 50 |
| 32 | Design and Application of a Low-Temperature Continuous Flow Chemistry Platform. <i>Organic Process Research and Development</i> , 2014, 18, 1211-1220. | 1.3 | 50 |
| 33 | Unlocking the catalytic potential of tris(3,4,5-trifluorophenyl)borane with microwave irradiation. <i>Chemical Communications</i> , 2019, 55, 318-321. | 2.2 | 48 |
| 34 | A Robust Pd-Catalyzed C-S Cross-Coupling Process Enabled by Ball-Milling. <i>Organic Letters</i> , 2020, 22, 7433-7438. | 2.4 | 47 |
| 35 | Direct Amidation of Esters by Ball Milling**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21868-21874. | 7.2 | 46 |
| 36 | A 2-pyrone cycloaddition route to functionalised aromatic boronic esters. <i>Tetrahedron</i> , 2008, 64, 866-873. | 1.0 | 44 |

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|----|--|-----|-----------|
| 37 | 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. | 1.9 | 44 |
| 38 | A Mechanochemical Zinc-Mediated Barbier-Type Allylation Reaction under Ball-Milling Conditions. <i>Journal of Organic Chemistry</i> , 2020, 85, 2347-2354. | 1.7 | 41 |
| 39 | Preparation of difluoromethylthioethers through difluoromethylation of disulfides using TMS-CF ₂ H. <i>Chemical Communications</i> , 2016, 52, 8448-8451. | 2.2 | 40 |
| 40 | Mechanochemical Activation of Zinc and Application to Negishi Cross-Coupling. <i>Angewandte Chemie</i> , 2018, 130, 11509-11513. | 1.6 | 40 |
| 41 | One-pot multistep mechanochemical synthesis of fluorinated pyrazolones. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1950-1956. | 1.3 | 39 |
| 42 | Comparison of the Thermal Stabilities of Diazonium Salts and Their Corresponding Triazenes. <i>Organic Process Research and Development</i> , 2020, 24, 2336-2341. | 1.3 | 39 |
| 43 | Cycloaddition of benzynes and nitrile oxides: synthesis of benzisoxazoles. <i>Tetrahedron Letters</i> , 2010, 51, 2271-2273. | 0.7 | 38 |
| 44 | Synthesis and Use of a Trifluoromethylated Azomethine Ylide Precursor. <i>Journal of Organic Chemistry</i> , 2012, 77, 11071-11078. | 1.7 | 37 |
| 45 | 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. | 1.5 | 37 |
| 46 | Mechanochemical Organocatalysis: Do High Enantioselectivities Contradict What We Might Expect?. <i>ChemSusChem</i> , 2022, 15, . | 3.6 | 37 |
| 47 | Switching Chemoselectivity: Using Mechanochemistry to Alter Reaction Kinetics. <i>Angewandte Chemie</i> , 2018, 130, 16336-16340. | 1.6 | 36 |
| 48 | 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. | 1.0 | 35 |
| 49 | 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. | 1.7 | 35 |
| 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. | 1.4 | 34 |
| 51 | 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. | 1.4 | 32 |
| 52 | 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. | 1.0 | 31 |
| 53 | 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. | 1.3 | 31 |
| 54 | 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. | 3.2 | 29 |

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|----|---|-----|-----------|
| 55 | A Ball-Milling-Enabled Cross-Electrophile Coupling. <i>Organic Letters</i> , 2021, 23, 6337-6341. | 2.4 | 29 |
| 56 | Back Pressure Regulation of Slurry-Forming Reactions in Continuous Flow. <i>Chemical Engineering and Technology</i> , 2015, 38, 259-264. | 0.9 | 27 |
| 57 | On the use of 2-(trimethylsilyl)iodobenzene as a benzyne precursor. <i>Tetrahedron Letters</i> , 2010, 51, 6608-6610. | 0.7 | 26 |
| 58 | Mechanochemical electrophilic fluorination of liquid beta-ketoesters. <i>Tetrahedron</i> , 2018, 74, 3118-3123. | 1.0 | 25 |
| 59 | Ball-Milling-Enabled Reactivity of Manganese Metal**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23128-23133. | 7.2 | 25 |
| 60 | Expedient Organocatalytic Aza-Morita-Baylis-Hillman Reaction through Ball-Milling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17876-17881. | 3.2 | 24 |
| 61 | 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. | 7.2 | 24 |
| 62 | 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. | 1.7 | 23 |
| 63 | N-Heterocyclic Carbene Acyl Anion Organocatalysis by Ball-Milling. <i>ChemSusChem</i> , 2020, 13, 131-135. | 3.6 | 22 |
| 64 | Accessing novel fluorinated heterocycles with the hypervalent fluoroiodane reagent by solution and mechanochemical synthesis. <i>Chemical Communications</i> , 2021, 57, 7406-7409. | 2.2 | 22 |
| 65 | Continuous flow synthesis of antimalarials: opportunities for distributed autonomous chemical manufacturing. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 281-287. | 1.9 | 19 |
| 66 | Integrated Batch and Continuous Flow Process for the Synthesis of Goniotalamin. <i>ACS Omega</i> , 2020, 5, 18472-18483. | 1.6 | 18 |
| 67 | Solvent-Minimized Synthesis of 4CzIPN and Related Organic Fluorophores via Ball Milling. <i>Journal of Organic Chemistry</i> , 2021, 86, 14095-14101. | 1.7 | 17 |
| 68 | Electrochemical Deconstructive Functionalization of Cycloalkanols via Alkoxy Radicals Enabled by Proton-Coupled Electron Transfer. <i>Organic Letters</i> , 2022, 24, 3890-3895. | 2.4 | 16 |
| 69 | Exploring Multistep Continuous-Flow Hydrosilylation Reactions Catalyzed by Tris(pentafluorophenyl)borane. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2580-2584. | 2.1 | 12 |
| 70 | A continuous flow-batch hybrid reactor for commodity chemical synthesis enabled by inline NMR and temperature monitoring. <i>Tetrahedron</i> , 2018, 74, 5503-5509. | 1.0 | 12 |
| 71 | 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. | 0.9 | 11 |
| 72 | 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. | 1.2 | 11 |

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|----|--|-----|-----------|
| 73 | A machine-assisted approach for the preparation of follow-on pharmaceutical compound libraries. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 210-215. | 1.9 | 11 |
| 74 | Studies of a Diastereoselective Electrophilic Fluorination Reaction Employing a Cryo-Flow Reactor. <i>Synlett</i> , 2013, 24, 1298-1302. | 1.0 | 10 |
| 75 | Continuous stream processing: a prototype magnetic field induced flow mixer. <i>Green Processing and Synthesis</i> , 2012, 1, . | 1.3 | 8 |
| 76 | Exploring the generation and use of acylketenes with continuous flow processes. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1559-1564. | 1.9 | 8 |
| 77 | Continuous flow processing as a tool for the generation of terpene-derived monomer libraries. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 362-367. | 1.9 | 8 |
| 78 | Direct Amidation of Esters by Ball Milling**. <i>Angewandte Chemie</i> , 2021, 133, 22039-22045. | 1.6 | 8 |
| 79 | Formation and Utility of Reactive Ketene Intermediates Under Continuous Flow Conditions. <i>Tetrahedron</i> , 2021, , 132305. | 1.0 | 7 |
| 80 | Ballâ€Millingâ€Enabled Reactivity of Manganese Metal**. <i>Angewandte Chemie</i> , 2021, 133, 23312-23317. | 1.6 | 7 |
| 81 | Cluster Preface: Progress in Organo-Fluorine Chemistry. <i>Synlett</i> , 2014, 26, 33-35. | 1.0 | 5 |
| 82 | Continuous Flow Z â€Stereoselective Olefin Metathesis: Development and Applications in the Synthesis of Pheromones and Macrocyclic Odorant Molecules**. <i>Angewandte Chemie</i> , 2021, 133, 19837-19842. | 1.6 | 5 |
| 83 | Chapter 15. Fluorination Approaches. , 0, , 263-370. | | 1 |
| 84 | Flow chemistry. <i>Green Processing and Synthesis</i> , 2015, 4, . | 1.3 | 0 |
| 85 | Frontispiece: Mechano-redox Chemistry as an Emerging Strategy in Synthesis. <i>Chemistry - A European Journal</i> , 2021, 27, . | 1.7 | 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 |