

Claudio Battilocchio

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61

papers

2,856

citations

30

h-index

53

g-index

70

ext. papers

3,213

ext. citations

7.4

avg, IF

5.36

L-index

#	Paper	IF	Citations
61	Taming hazardous chemistry by continuous flow technology. <i>Chemical Society Reviews</i> , 2016 , 45, 4892-9238	18.5	409
60	MmpL3 is the cellular target of the antitubercular pyrrole derivative BM212. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 324-31	5.9	159
59	Machine-Assisted Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10122-36	16.4	157
58	A Novel Internet-Based Reaction Monitoring, Control and Autonomous Self-Optimization Platform for Chemical Synthesis. <i>Organic Process Research and Development</i> , 2016 , 20, 386-394	3.9	119
57	A systems approach towards an intelligent and self-controlling platform for integrated continuous reaction sequences. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 144-8	16.4	116
56	Enabling Technologies for the Future of Chemical Synthesis. <i>ACS Central Science</i> , 2016 , 2, 131-8	16.8	113
55	Visible Light Activation of Boronic Esters Enables Efficient Photoredox C(sp ³)-C(sp ²) Cross-Couplings in Flow. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14085-14089	16.4	103
54	Mild and selective heterogeneous catalytic hydration of nitriles to amides by flowing through manganese dioxide. <i>Organic Letters</i> , 2014 , 16, 1060-3	6.2	101
53	A mild and efficient flow procedure for the transfer hydrogenation of ketones and aldehydes using hydrous zirconia. <i>Organic Letters</i> , 2013 , 15, 2278-81	6.2	98
52	Flow chemistry as a discovery tool to access sp ² -sp ² cross-coupling reactions diazo compounds. <i>Chemical Science</i> , 2015 , 6, 1120-1125	9.4	91
51	Iterative reactions of transient boronic acids enable sequential C-C bond formation. <i>Nature Chemistry</i> , 2016 , 8, 360-7	17.6	89
50	A Versatile Room-Temperature Route to Di- and Trisubstituted Allenes Using Flow-Generated Diazo Compounds. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7920-3	16.4	75
49	Cyclopropanation using flow-generated diazo compounds. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 2550-4	3.9	62
48	Rapid Asymmetric Synthesis of Disubstituted Allenes by Coupling of Flow-Generated Diazo Compounds and Propargylated Amines. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1864-1868	16.4	60
47	A Flow-Based Synthesis of 2-Aminoadamantane-2-carboxylic Acid. <i>Organic Process Research and Development</i> , 2012 , 16, 798-810	3.9	60
46	A machine-assisted flow synthesis of SR48692: a probe for the investigation of neurotensin receptor-1. <i>Chemistry - A European Journal</i> , 2013 , 19, 7917-30	4.8	59
45	A class of pyrrole derivatives endowed with analgesic/anti-inflammatory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 3695-701	3.4	54

44	Process Intensification for the Continuous Flow Hydrogenation of Ethyl Nicotinate. <i>Organic Process Research and Development</i> , 2014 , 18, 1560-1566	3.9	53
43	Integration of enabling methods for the automated flow preparation of piperazine-2-carboxamide. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 641-52	2.5	53
42	A prototype device for evaporation in batch and flow chemical processes. <i>Green Chemistry</i> , 2013 , 15, 2050	10	51
41	Mimicking the surface and prebiotic chemistry of early Earth using flow chemistry. <i>Nature Communications</i> , 2018 , 9, 1821	17.4	49
40	A Versatile Route to Unstable Diazo Compounds via Oxadiazolines and their Use in Aryl-Alkyl Cross-Coupling Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16602-16605	16.4	42
39	Machines vs Malaria: A Flow-Based Preparation of the Drug Candidate OZ439. <i>Organic Letters</i> , 2015 , 17, 3218-21	6.2	42
38	Identification of a novel pyrrole derivative endowed with antimycobacterial activity and protection index comparable to that of the current antitubercular drugs streptomycin and rifampin. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 8076-84	3.4	41
37	Maschinengestützte organische Synthese. <i>Angewandte Chemie</i> , 2015 , 127, 10260-10275	3.6	38
36	Dynamic flow synthesis of porous organic cages. <i>Chemical Communications</i> , 2015 , 51, 17390-3	5.8	37
35	Novel analgesic/anti-inflammatory agents: diarylpyrrole acetic esters endowed with nitric oxide releasing properties. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 7759-71	8.3	36
34	Novel ester and acid derivatives of the 1,5-diarylpyrrole scaffold as anti-inflammatory and analgesic agents. Synthesis and in vitro and in vivo biological evaluation. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 723-33	8.3	36
33	Sustainable flow Oppenauer oxidation of secondary benzylic alcohols with a heterogeneous zirconia catalyst. <i>Organic Letters</i> , 2013 , 15, 5698-701	6.2	33
32	The rapid synthesis of oxazolines and their heterogeneous oxidation to oxazoles under flow conditions. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 207-14	3.9	32
31	Developing pyrrole-derived antimycobacterial agents: a rational lead optimization approach. <i>ChemMedChem</i> , 2011 , 6, 593-9	3.7	28
30	A Systems Approach towards an Intelligent and Self-Controlling Platform for Integrated Continuous Reaction Sequences. <i>Angewandte Chemie</i> , 2015 , 127, 146-150	3.6	26
29	Visible Light Activation of Boronic Esters Enables Efficient Photoredox C(sp ²)–C(sp ³) Cross-Couplings in Flow. <i>Angewandte Chemie</i> , 2016 , 128, 14291-14295	3.6	23
28	Fast continuous alcohol amination employing a hydrogen borrowing protocol. <i>Green Chemistry</i> , 2019 , 21, 59-63	10	22
27	Unveiling the role of boroxines in metal-free carbon-carbon homologations using diazo compounds and boronic acids. <i>Chemical Science</i> , 2017 , 8, 6071-6075	9.4	21

26	A Versatile Room-Temperature Route to Di- and Trisubstituted Allenes Using Flow-Generated Diazo Compounds. <i>Angewandte Chemie</i> , 2015 , 127, 8031-8034	3.6	21
25	Enhancing the pharmacodynamic profile of a class of selective COX-2 inhibiting nitric oxide donors. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 772-86	3.4	20
24	Continuous Preparation and Use of Dibromoformaldoxime as a Reactive Intermediate for the Synthesis of 3-Bromoisoxazolines. <i>Organic Process Research and Development</i> , 2017 , 21, 1588-1594	3.9	16
23	Chemoselective Continuous Ru-Catalyzed Hydrogen-Transfer Oppenauer-Type Oxidation of Secondary Alcohols. <i>Organic Process Research and Development</i> , 2017 , 21, 1419-1422	3.9	15
22	A multicomponent approach for the preparation of homoallylic alcohols. <i>Chemical Science</i> , 2016 , 7, 6803-6807	3.9	15
21	Flow-Based, Cerium Oxide Enhanced, Low-Level Palladium Sonogashira and Heck Coupling Reactions by Perovskite Catalysts. <i>Israel Journal of Chemistry</i> , 2014 , 54, 371-380	3.4	14
20	Improving the solubility of a new class of antiinflammatory pharmacodynamic hybrids, that release nitric oxide and inhibit cyclooxygenase-2 isoenzyme. <i>European Journal of Medicinal Chemistry</i> , 2012 , 58, 287-98	6.8	14
19	Integrated plug flow synthesis and crystallisation of pyrazinamide. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 631-634	4.9	14
18	Flow Synthesis and Biological Studies of an Analgesic Adamantane Derivative That Inhibits P2X7-Evoked Glutamate Release. <i>ACS Medicinal Chemistry Letters</i> , 2013 , 4, 704-9	4.3	12
17	A Comment on Continuous Flow Technologies within the Agrochemical Industry. <i>Organic Process Research and Development</i> , 2021 , 25, 713-720	3.9	12
16	A Versatile Route to Unstable Diazo Compounds via Oxadiazolines and their Use in Aryl-Alkyl Cross-Coupling Reactions. <i>Angewandte Chemie</i> , 2017 , 129, 16829-16832	3.6	11
15	An Electrochemical Flow-Through Cell for Rapid Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 7321-7326	3.9	11
14	Enlarging the NSAIDs family: ether, ester and acid derivatives of the 1,5-diarylpyrrole scaffold as novel anti-inflammatory and analgesic agents. <i>Current Medicinal Chemistry</i> , 2011 , 18, 1540-54	4.3	11
13	Solvent-Free Continuous Operations Using Small Footprint Reactors: A Key Approach for Process Intensification. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1912-1916	8.3	11
12	Rapid Asymmetric Synthesis of Disubstituted Allenes by Coupling of Flow-Generated Diazo Compounds and Propargylated Amines. <i>Angewandte Chemie</i> , 2017 , 129, 1890-1894	3.6	10
11	Flow synthesis of cyclobutanones via [2 + 2] cycloaddition of keteneiminium salts and ethylene gas. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 295-298	4.9	10
10	A Convergent Continuous Multistep Process for the Preparation of C4-Oxime-Substituted Thiazoles. <i>Organic Process Research and Development</i> , 2018 , 22, 955-962	3.9	9
9	Design, Synthesis, and Evaluation of Tetrasubstituted Pyridines as Potent 5-HT _{2C} Receptor Agonists. <i>ACS Medicinal Chemistry Letters</i> , 2015 , 6, 329-33	4.3	8

8	Direct Oxidation of Csp ³ -H bonds using in Situ Generated Trifluoromethylated Dioxirane in Flow. <i>Chemistry - A European Journal</i> , 2019 , 25, 1203-1207	4.8	8
7	Scale-Up of Flow-Assisted Synthesis of C ₂ -Symmetric Chiral PyBox Ligands. <i>Synthesis</i> , 2012 , 2012, 635-647	5	5
6	Continuous Flow Hydration of Pyrazine-2-carbonitrile in a Manganese Dioxide Column Reactor. <i>Organic Syntheses</i> , 94 , 34-44	1.2	5
5	High-Throughput Electrochemistry: State of the Art, Challenges, and Perspective. <i>Organic Process Research and Development</i> ,	3.9	5
4	Preparation of homoallylic amines via a three-component coupling process. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 6652-6654	3.9	4
3	Building up a Continuous Flow Platform as an Enabler to the Preparation of Intermediates on Kilogram Scale. <i>Chimia</i> , 2019 , 73, 828-831	1.3	3
2	Rapid Continuous Ruthenium-Catalysed Transfer Hydrogenation of Aromatic Nitriles to Primary Amines. <i>Synlett</i> , 2017 , 28, 2855-2858	2.2	3
1	Continuous Flow Hydration of Pyrazine-2-carbonitrile in a Manganese Dioxide Column Reactor	34-45	1