

# Jean-Christophe M Monbaliu

## List of Publications by Year in descending order

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76  
papers

3,052  
citations

249298

26  
h-index

190340

53  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3833  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives for the Upgrading of Bio-Based Vicinal Diols within the Developing European Bioeconomy. <i>ChemSusChem</i> , 2022, 15, .	3.6	12
2	Out-smarting smart drug modafinil through flow chemistry. <i>Green Chemistry</i> , 2022, 24, 2094-2103.	4.6	3
3	A continuous flow generator of organic hypochlorites for the neutralization of chemical warfare agent simulants. <i>Green Chemistry</i> , 2022, 24, 3167-3179.	4.6	11
4	Continuous flow organocatalyzed methoxycarbonylation of benzyl alcohol derivatives with dimethyl carbonate. <i>Journal of Flow Chemistry</i> , 2022, 12, 207-217.	1.2	4
5	Development and validation of an integrated microfluidic device with an in-line Surface Enhanced Raman Spectroscopy (SERS) detection of glyphosate in drinking water. <i>Talanta</i> , 2022, 249, 123640.	2.9	11
6	Flow neutralisation of sulfur-containing chemical warfare agents with Oxone: packed bed vs. aqueous solution. <i>Green Chemistry</i> , 2021, 23, 2925-2930.	4.6	15
7	A modular, low footprint and scalable flow platform for the expedient $\alpha$ -aminohydroxylation of enolizable ketones. <i>Green Chemistry</i> , 2021, 23, 2336-2351.	4.6	14
8	A multifaceted approach towards understanding the peculiar behavior of ( $\pm$ )-hydroxyiminophosphonates. <i>Organic Chemistry Frontiers</i> , 2021, 9, 173-182.	2.3	3
9	Three decades of unveiling the complex chemistry of $\alpha$ -nitroso species with computational chemistry. <i>Organic Chemistry Frontiers</i> , 2021, 9, 223-264.	2.3	11
10	Supported ionic liquid membranes for the separation of methanol/dimethyl carbonate mixtures by pervaporation. <i>Journal of Membrane Science</i> , 2020, 598, 117790.	4.1	28
11	Continuous Flow Upgrading of Selected $C_2$ - $C_6$ Platform Chemicals Derived from Biomass. <i>Chemical Reviews</i> , 2020, 120, 7219-7347.	23.0	222
12	Au nanobipyramids@ $SiO_2$ core-shell nanoparticles for plasmon-enhanced singlet oxygen photooxygenations in segmented flow microreactors. <i>Nanoscale Advances</i> , 2020, 2, 5280-5287.	2.2	12
13	The deoxydehydration (DODH) reaction: a versatile technology for accessing olefins from bio-based polyols. <i>Green Chemistry</i> , 2020, 22, 4801-4848.	4.6	41
14	Radical $\alpha$ -H $^{18}F$ -Difluoromethylation of Heteroarenes with $[^{18}F]$ Difluoromethyl Heteroaryl-Sulfones by Visible Light Photoredox Catalysis. <i>Catalysts</i> , 2020, 10, 275.	1.6	9
15	Metal-free hydroxylation of tertiary ketones under intensified and scalable continuous flow conditions. <i>Journal of Flow Chemistry</i> , 2020, 10, 167-179.	1.2	7
16	Continuous Flow Organophosphorus Chemistry. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5236-5277.	1.2	19
17	A safe and compact flow platform for the neutralization of a mustard gas simulant with air and light. <i>Green Chemistry</i> , 2020, 22, 4105-4115.	4.6	31
18	Separation of bio-based chemicals using pervaporation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2311-2334.	1.6	12

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19	Sustaining the Transition from a Petrobased to a Biobased Chemical Industry with Flow Chemistry. Topics in Current Chemistry Collections, 2020, , 111-145.	0.2	3
20	Development of a sustainable continuous flow approach toward allantoin. Journal of Flow Chemistry, 2020, 10, 251-257.	1.2	3
21	Scalable and robust photochemical flow process towards small spherical gold nanoparticles. Reaction Chemistry and Engineering, 2020, 5, 1224-1236.	1.9	21
22	Understanding chemical interaction between phosphonate-derivative molecules and a silver surface cluster in SERS: a combined experimental and computational approach. Physical Chemistry Chemical Physics, 2019, 21, 22180-22187.	1.3	9
23	Continuous flow upgrading of glycerol toward oxiranes and active pharmaceutical ingredients thereof. Green Chemistry, 2019, 21, 4422-4433.	4.6	39
24	Native Chemical Ligation and Extended Methods: Mechanisms, Catalysis, Scope, and Limitations. Chemical Reviews, 2019, 119, 7328-7443.	23.0	367
25	Expedient preparation of active pharmaceutical ingredient ketamine under sustainable continuous flow conditions. Green Chemistry, 2019, 21, 2952-2966.	4.6	38
26	Solubility Determination and Correlation of Warfarin Sodium 2-Propanol Solvate in Pure, Binary, and Ternary Solvent Mixtures. Journal of Chemical & Engineering Data, 2019, 64, 1399-1413.	1.0	6
27	Versatile and scalable synthesis of cyclic organic carbonates under organocatalytic continuous flow conditions. Catalysis Science and Technology, 2019, 9, 6841-6851.	2.1	23
28	Finding the Perfect Match: A Combined Computational and Experimental Study toward Efficient and Scalable Photosensitized [2 + 2] Cycloadditions in Flow. Organic Process Research and Development, 2019, 23, 78-87.	1.3	52
29	Sustaining the Transition from a Petrobased to a Biobased Chemical Industry with Flow Chemistry. Topics in Current Chemistry, 2019, 377, 1.	3.0	104
30	Solvent-free organocatalytic preparation of cyclic organic carbonates under scalable continuous flow conditions. Reaction Chemistry and Engineering, 2019, 4, 17-26.	1.9	26
31	Multistep Continuous-Flow Processes for the Preparation of Heterocyclic Active Pharmaceutical Ingredients. Topics in Heterocyclic Chemistry, 2018, , 1-102.	0.2	3
32	Continuous Flow Organic Chemistry: Successes and Pitfalls at the Interface with Current Societal Challenges. European Journal of Organic Chemistry, 2018, 2018, 2301-2351.	1.2	188
33	A versatile biobased continuous flow strategy for the production of 3-butene-1,2-diol and vinyl ethylene carbonate from erythritol. Green Chemistry, 2018, 20, 5147-5157.	4.6	22
34	Sorption and pervaporation study of methanol/dimethyl carbonate mixture with poly(etheretherketone) (PEEK-WC) membrane. Journal of Membrane Science, 2018, 567, 303-310.	4.1	32
35	Improving Continuous Flow Singlet Oxygen Photooxygenation Reactions with Functionalized Mesoporous Silica Nanoparticles. ChemPhotoChem, 2018, 2, 890-897.	1.5	31
36	Accelerated microfluidic native chemical ligation at difficult amino acids toward cyclic peptides. Nature Communications, 2018, 9, 2847.	5.8	35

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37	Application of pervaporation in the bio-production of glycerol carbonate. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 132, 127-136.	1.8	13
38	Revisiting the deoxydehydration of glycerol towards allyl alcohol under continuous-flow conditions. <i>Green Chemistry</i> , 2017, 19, 3006-3013.	4.6	40
39	Exploring the Fundamentals of Microreactor Technology with Multidisciplinary Lab Experiments Combining the Synthesis and Characterization of Inorganic Nanoparticles. <i>Journal of Chemical Education</i> , 2017, 94, 775-780.	1.1	14
40	Continuous-Flow Preparation of $\gamma$ -Butyrolactone Scaffolds from Renewable Fumaric and Itaconic Acids under Photosensitized Conditions. <i>Organic Process Research and Development</i> , 2017, 21, 2012-2017.	1.3	28
41	Scalable Photocatalytic Oxidation of Methionine under Continuous-Flow Conditions. <i>Organic Process Research and Development</i> , 2017, 21, 1435-1438.	1.3	79
42	Assessing inter- and intramolecular continuous-flow strategies towards methylphenidate (Ritalin) hydrochloride. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 149-158.	1.9	30
43	On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. <i>Science</i> , 2016, 352, 61-67.	6.0	751
44	Compact and Integrated Approach for Advanced End-to-End Production, Purification, and Aqueous Formulation of Lidocaine Hydrochloride. <i>Organic Process Research and Development</i> , 2016, 20, 1347-1353.	1.3	34
45	Continuous-Flow $N$ -Heterocyclic Carbene Generation and Organocatalysis. <i>Chemistry - A European Journal</i> , 2016, 22, 4508-4514.	1.7	22
46	Accelerating chemoselective peptide bond formation using bis(2-selenylethyl)amido peptide selenoester surrogates. <i>Chemical Science</i> , 2016, 7, 2657-2665.	3.7	45
47	Preparation, Reactivity, and Synthetic Utility of Simple Benzotriazole Derivatives. <i>Topics in Heterocyclic Chemistry</i> , 2015, , 1-66.	0.2	6
48	Efficient continuous-flow benzotriazole activation and coupling of amino acids. <i>Journal of Flow Chemistry</i> , 2015, 5, 220-227.	1.2	6
49	Continuous-flow thermolysis for the preparation of vinylglycine derivatives. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 11602-11606.	1.5	15
50	Feruloylbenzotriazole and Weinreb Amide as Bioinspired Building Blocks: A Reactivity Study towards $O$ -, $N$ -, $S$ -, and $C$ -Nucleophiles. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 2594-2611.	1.2	5
51	New benzotriazole-based reagents for the phosphorylation of various $N$ -, $O$ -, and $S$ -nucleophiles. <i>Tetrahedron Letters</i> , 2014, 55, 5898-5901.	0.7	62
52	9. Safety aspects related to microreactor technology. , 2014, , 253-282.		0
53	Development, optimization and scale-up of biodiesel production from crude palm oil and effective use in developing countries. <i>Biomass and Bioenergy</i> , 2013, 56, 62-69.	2.9	18
54	Governing Parameters of Long-Range Intramolecular $C$ -to- $N$ Acyl Transfers within $(C$ -Acyl Isopeptides. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 927-934.	2.3	16

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55	Capture of benzotriazole-based Mannich electrophiles by CH-acidic compounds. RSC Advances, 2013, 3, 4152.	1.7	3
56	Efficient Synthesis of 2,5-Diketopiperazines by Staudinger-Mediated Cyclization. Synlett, 2012, 23, 2337-2340.	1.0	11
57	User Friendly and Flexible Kiliani Reaction on Ketoses Using Microreaction Technology. Journal of Flow Chemistry, 2012, 2, 43-46.	1.2	5
58	A convenient synthesis of difficult medium-sized cyclic peptides by Staudinger mediated ring-closure. Organic and Biomolecular Chemistry, 2012, 10, 8055.	1.5	27
59	Recent trends in Cys- and Ser/Thr-based synthetic strategies for the elaboration of peptide constructs. Chemical Communications, 2012, 48, 11601.	2.2	41
60	Long-Range Intramolecular S $\rightarrow$ N Acyl Migration: A Study of the Formation of Native Peptide Analogues via 13-, 15-, and 16-Membered Cyclic Transition States. Journal of Organic Chemistry, 2012, 77, 2637-2648.	1.7	28
61	En route towards $\beta$ -benzotriazolyl nitroso derivatives. RSC Advances, 2012, 2, 8941.	1.7	6
62	A New Benzotriazole-Mediated Stereoflexible Gateway to Hetero-2,5-diketopiperazines. Chemistry - A European Journal, 2012, 18, 2632-2638.	1.7	18
63	Electron-deficient 1- and 2-azabuta-1,3-dienes: a comprehensive survey of their synthesis and reactivity. Chemical Society Reviews, 2011, 40, 4708.	18.7	76
64	Effective production of the biodiesel additive STBE by a continuous flow process. Bioresource Technology, 2011, 102, 9304-9307.	4.8	41
65	Novel chiral 1-phosphono-1,3-butadiene for asymmetric hetero Diels-Alder cycloadditions with nitroso and azodicarboxylate dienophiles. Tetrahedron Letters, 2010, 51, 1052-1055.	0.7	20
66	Straightforward hetero Diels-Alder reactions of nitroso dienophiles by microreactor technology. Tetrahedron Letters, 2010, 51, 5830-5833.	0.7	27
67	HDA cycloadditions of 1-diethoxyphosphonyl-1,3-butadiene with nitroso heterodienophiles: A computational investigation. Computational and Theoretical Chemistry, 2010, 959, 49-54.	1.5	8
68	[4 + 2] Cycloadditions of 1-Phosphono-1,3-butadienes with Nitroso Heterodienophiles: A Versatile Synthetic Route for Polyfunctionalized Aminophosphonic Derivatives. Journal of Organic Chemistry, 2010, 75, 5478-5486.	1.7	27
69	A Practical Synthesis of 3-Diethoxyphosphoryl-1,2-pyridazine Derivatives. Synthesis, 2009, 2009, 1876-1880.	1.2	5
70	(R)-4-phenyloxazolidin-2-thione: an efficient chiral auxiliary for [4+2] cycloaddition of 1-aminodiene and activated phosphonodienophiles. Tetrahedron Letters, 2009, 50, 1314-1317.	0.7	10
71	Is anthracene cofactor or spectator for the thermolysis of anthracenyl acylnitroso cycloadducts in the presence of a diene?. Tetrahedron Letters, 2009, 50, 2555-2558.	0.7	8
72	[4+2] Cycloaddition of 1-phosphono-1,3-butadiene with azo- and nitroso-heterodienophiles. Tetrahedron Letters, 2008, 49, 1839-1842.	0.7	22

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73	NMR and X-ray diffraction analysis of 3-thioamido-5-phosphono-1-cyclohexene derivatives: Conformational and stereochemical assignments. <i>Journal of Molecular Structure</i> , 2008, 879, 113-118.	1.8	7
74	Reactivity of (R)-4-Phenyloxazolidin-2-thione Chiral Auxiliary: From Deprotection to Heterocyclic Interconversion. <i>Heterocycles</i> , 2008, 75, 2459.	0.4	5
75	Flow Chemistry Is a Game Changer. <i>ChemistryViews</i> , 0, , .	0.0	0
76	Intensified Continuous Flow Michaelis-Arbuzov Rearrangement toward Alkyl Phosphonates. <i>Organic Process Research and Development</i> , 0, , .	1.3	3