# Jean-Christophe M Monbaliu

List of Publications by Year
in descending order



| 76 | 3,052 | 218677 | 168389 |
|---|---|---|---|
| papers | citations | 26 h-index | 53 g-index |

| 84 | 84 | 84 | 3481 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Perspectives for the Upgrading of Bioâ€Based Vicinal Diols within the Developing European Bioeconomy. ChemSusChem, 2022, 15, . | 6.8 | 12 |
| 2 | Out-smarting smart drug modafinil through flow chemistry. Green Chemistry, 2022, 24, 2094-2103. | 9.0 | 3 |
| 3 | A continuous flow generator of organic hypochlorites for the neutralization of chemical warfare agent simulants. Green Chemistry, 2022, 24, 3167-3179. | 9.0 | 11 |
| 4 | Continuous flow organocatalyzed methoxycarbonylation of benzyl alcohol derivatives with dimethyl carbonate. Journal of Flow Chemistry, 2022, 12, 207-217. | 1.9 | 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. Talanta, 2022, 249, 123640. | 5.5 | 11 |
| 6 | Flow neutralisation of sulfur-containing chemical warfare agents with Oxone: packed bed vs. aqueous solution. Green Chemistry, 2021, 23, 2925-2930. | 9.0 | 15 |
| 7 | A modular, low footprint and scalable flow platform for the expedient Î±-aminohydroxylation of enolizable ketones. Green Chemistry, 2021, 23, 2336-2351. | 9.0 | 14 |
| 8 | A multifaceted approach towards understanding the peculiar behavior of (Î±)-hydroxyiminophosphonates. Organic Chemistry Frontiers, 2021, 9, 173-182. | 4.5 | 3 |
| 9 | Three decades of unveiling the complex chemistry of C-nitroso species with computational chemistry. Organic Chemistry Frontiers, 2021, 9, 223-264. | 4.5 | 11 |
| 10 | Supported ionic liquid membranes for the separation of methanol/dimethyl carbonate mixtures by pervaporation. Journal of Membrane Science, 2020, 598, 117790. | 8.2 | 28 |
| 11 | Continuous Flow Upgrading of Selected C<sub>2</sub>â€“C<sub>6</sub>Platform Chemicals Derived from Biomass. Chemical Reviews, 2020, 120, 7219-7347. | 47.7 | 222 |
| 12 | Au nanobipyramids@mSiO<sub>2</sub> coreâ€“shell nanoparticles for plasmon-enhanced singlet oxygen photooxygenations in segmented flow microreactors. Nanoscale Advances, 2020, 2, 5280-5287. | 4.6 | 12 |
| 13 | The deoxydehydration (DODH) reaction: a versatile technology for accessing olefins from bio-based polyols. Green Chemistry, 2020, 22, 4801-4848. | 9.0 | 41 |
| 14 | Radical Câ€“H 18F-Difluoromethylation of Heteroarenes with [18F]Difluoromethyl Heteroaryl-Sulfones by Visible Light Photoredox Catalysis. Catalysts, 2020, 10, 275. | 3.5 | 9 |
| 15 | Metal-free hydroxylation of tertiary ketones under intensified and scalable continuous flow conditions. Journal of Flow Chemistry, 2020, 10, 167-179. | 1.9 | 7 |
| 16 | Continuous Flow Organophosphorus Chemistry. European Journal of Organic Chemistry, 2020, 2020, 5236-5277. | 2.4 | 19 |
| 17 | A safe and compact flow platform for the neutralization of a mustard gas simulant with air and light. Green Chemistry, 2020, 22, 4105-4115. | 9.0 | 31 |
| 18 | Separation of bioâ€based chemicals using pervaporation. Journal of Chemical Technology and Biotechnology, 2020, 95, 2311-2334. | 3.2 | 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. | 0.5 | 3 |
| 20 | Development of a sustainable continuous flow approach toward allantoin. Journal of Flow Chemistry, 2020, 10, 251-257. | 1.9 | 3 |
| 21 | Scalable and robust photochemical flow process towards small spherical gold nanoparticles. Reaction Chemistry and Engineering, 2020, 5, 1224-1236. | 3.7 | 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. | 2.8 | 9 |
| 23 | Continuous flow upgrading of glycerol toward oxiranes and active pharmaceutical ingredients thereof. Green Chemistry, 2019, 21, 4422-4433. | 9.0 | 39 |
| 24 | Native Chemical Ligation and Extended Methods: Mechanisms, Catalysis, Scope, and Limitations. Chemical Reviews, 2019, 119, 7328-7443. | 47.7 | 367 |
| 25 | Expedient preparation of active pharmaceutical ingredient ketamine under sustainable continuous flow conditions. Green Chemistry, 2019, 21, 2952-2966. | 9.0 | 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. | 1.9 | 6 |
| 27 | Versatile and scalable synthesis of cyclic organic carbonates under organocatalytic continuous flow conditions. Catalysis Science and Technology, 2019, 9, 6841-6851. | 4.1 | 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. | 2.7 | 52 |
| 29 | Sustaining the Transition from a Petrobased to a Biobased Chemical Industry with Flow Chemistry. Topics in Current Chemistry, 2019, 377, 1. | 5.8 | 104 |
| 30 | Solvent-free organocatalytic preparation of cyclic organic carbonates under scalable continuous flow conditions. Reaction Chemistry and Engineering, 2019, 4, 17-26. | 3.7 | 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. | 2.4 | 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. | 9.0 | 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. | 8.2 | 32 |
| 35 | Improving Continuous Flow Singlet Oxygen Photooxygenation Reactions with Functionalized Mesoporous Silica Nanoparticles. ChemPhotoChem, 2018, 2, 890-897. | 3.0 | 31 |
| 36 | Accelerated microfluidic native chemical ligation at difficult amino acids toward cyclic peptides. Nature Communications, 2018, 9, 2847. | 12.8 | 35 |

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| 37 | Application of pervaporation in the bio-production of glycerol carbonate. Chemical Engineering and Processing: Process Intensification, 2018, 132, 127-136. | 3.6 | 13 |
| 38 | Revisiting the deoxydehydration of glycerol towards allyl alcohol under continuous-flow conditions. Green Chemistry, 2017, 19, 3006-3013. | 9.0 | 40 |
| 39 | Exploring the Fundamentals of Microreactor Technology with Multidisciplinary Lab Experiments Combining the Synthesis and Characterization of Inorganic Nanoparticles. Journal of Chemical Education, 2017, 94, 775-780. | 2.3 | 14 |
| 40 | Continuous-Flow Preparation of Î³-Butyrolactone Scaffolds from Renewable Fumaric and Itaconic Acids under Photosensitized Conditions. Organic Process Research and Development, 2017, 21, 2012-2017. | 2.7 | 28 |
| 41 | Scalable Photocatalytic Oxidation of Methionine under Continuous-Flow Conditions. Organic Process Research and Development, 2017, 21, 1435-1438. | 2.7 | 79 |
| 42 | Assessing inter- and intramolecular continuous-flow strategies towards methylphenidate (Ritalin) hydrochloride. Reaction Chemistry and Engineering, 2017, 2, 149-158. | 3.7 | 30 |
| 43 | On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. Science, 2016, 352, 61-67. | 12.6 | 751 |
| 44 | Compact and Integrated Approach for Advanced End-to-End Production, Purification, and Aqueous Formulation of Lidocaine Hydrochloride. Organic Process Research and Development, 2016, 20, 1347-1353. | 2.7 | 34 |
| 45 | Continuousâ€Flow Nâ€Heterocyclic Carbene Generation and Organocatalysis. Chemistry - A European Journal, 2016, 22, 4508-4514. | 3.3 | 22 |
| 46 | Accelerating chemoselective peptide bond formation using bis(2-selenylethyl)amido peptide selenoester surrogates. Chemical Science, 2016, 7, 2657-2665. | 7.4 | 45 |
| 47 | Preparation, Reactivity, and Synthetic Utility of Simple Benzotriazole Derivatives. Topics in Heterocyclic Chemistry, 2015, , 1-66. | 0.2 | 6 |
| 48 | Efficient continuous-flow benzotriazole activation and coupling of amino acids. Journal of Flow Chemistry, 2015, 5, 220-227. | 1.9 | 6 |
| 49 | Continuous-flow thermolysis for the preparation of vinylglycine derivatives. Organic and Biomolecular Chemistry, 2015, 13, 11602-11606. | 2.8 | 15 |
| 50 | Feruloylbenzotriazole and Weinreb Amide as Bioinspired Building Blocks: A Reactivity Study towards Oâ€, Nâ€, Sâ€, and Câ€Nucleophiles. European Journal of Organic Chemistry, 2014, 2014, 2594-2611. | 2.4 | 5 |
| 51 | New benzotriazole-based reagents for the phosphonylation of various N-, O-, and S-nucleophiles. Tetrahedron Letters, 2014, 55, 5898-5901. | 1.4 | 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. Biomass and Bioenergy, 2013, 56, 62-69. | 5.7 | 18 |
| 54 | Governing Parameters of Long-Range Intramolecular S-to-N Acyl Transfers within (S)-Acyl Isopeptides. Journal of Chemical Theory and Computation, 2013, 9, 927-934. | 5.3 | 16 |

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| 55 | Capture of benzotriazole-based Mannich electrophiles by CH-acidic compounds. RSC Advances, 2013, 3, 4152. | 3.6 | 3 |
| 56 | Efficient Synthesis of 2,5-Diketopiperazines by Staudinger-Mediated Cyclization. Synlett, 2012, 23, 2337-2340. | 1.8 | 11 |
| 57 | User Friendly and Flexible Kiliani Reaction on Ketoses Using Microreaction Technology. Journal of Flow Chemistry, 2012, 2, 43-46. | 1.9 | 5 |
| 58 | A convenient synthesis of difficult medium-sized cyclic peptides by Staudinger mediated ring-closure. Organic and Biomolecular Chemistry, 2012, 10, 8055. | 2.8 | 27 |
| 59 | Recent trends in Cys- and Ser/Thr-based synthetic strategies for the elaboration of peptide constructs. Chemical Communications, 2012, 48, 11601. | 4.1 | 41 |
| 60 | Long-Range Intramolecular S â†' 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. | 3.2 | 28 |
| 61 | En route towards Î±-benzotriazoyl nitroso derivatives. RSC Advances, 2012, 2, 8941. | 3.6 | 6 |
| 62 | A New Benzotriazoleâ€Mediated Stereoflexible Gateway to Heteroâ€2,5â€diketopiperazines. Chemistry - A European Journal, 2012, 18, 2632-2638. | 3.3 | 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. | 38.1 | 76 |
| 64 | Effective production of the biodiesel additive STBE by a continuous flow process. Bioresource Technology, 2011, 102, 9304-9307. | 9.6 | 41 |
| 65 | Novel chiral 1-phosphono-1,3-butadiene for asymmetric hetero Dielsâ€"Alder cycloadditions with nitroso and azodicarboxylate dienophiles. Tetrahedron Letters, 2010, 51, 1052-1055. | 1.4 | 20 |
| 66 | Straightforward hetero Dielsâ€"Alder reactions of nitroso dienophiles by microreactor technology. Tetrahedron Letters, 2010, 51, 5830-5833. | 1.4 | 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. | 3.2 | 27 |
| 69 | A Practical Synthesis of 3-Diethoxyphosphoryl-1,2-pyridazine Derivatives. Synthesis, 2009, 2009, 1876-1880. | 2.3 | 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. | 1.4 | 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. | 1.4 | 8 |
| 72 | [4+2] Cycloaddition of 1-phosphono-1,3-butadiene with azo- and nitroso-heterodienophiles. Tetrahedron Letters, 2008, 49, 1839-1842. | 1.4 | 22 |

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|---|---|---|---|
| 73 | NMR and X-ray diffraction analysis of 3-thioamido-5-phosphono-1-cyclohexene derivatives: Conformational and stereochemical assignments. Journal of Molecular Structure, 2008, 879, 113-118. | 3.6 | 7 |
| 74 | Reactivity of (R)-4-Phenyloxazolidin-2-thione Chiral Auxiliary: From Deprotection to Heterocyclic Interconversion. Heterocycles, 2008, 75, 2459. | 0.7 | 5 |
| 75 | Flow Chemistry Is a Game Changer. ChemistryViews, 0, , . | 0.0 | 0 |
| 76 | Intensified Continuous Flow Michaelisâ€“Arbuzov Rearrangement toward Alkyl Phosphonates. Organic Process Research and Development, 0, , . | 2.7 | 3 |