

Laurent Boiteau

List of Publications by Year in descending order

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567281

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#	ARTICLE	IF	CITATIONS
1	From the Prebiotic Synthesis of $\hat{\pm}$ -Amino Acids Towards a Primitive Translation Apparatus for the Synthesis of Peptides. , 0, , 69-122.		114
2	A new radical based synthesis of lactams and indolones from dithiocarbonates (xanthates). Tetrahedron Letters, 1994, 35, 1719-1722.	1.4	74
3	Prebiotic synthesis of sequential peptides on the Hadean beach by a molecular engine working with nitrogen oxides as energy sources. Polymer International, 2002, 51, 661-665.	3.1	66
4	A Short Synthesis of ($\hat{\pm}$)-Matrine. Angewandte Chemie - International Edition, 1998, 37, 1128-1131.	13.8	62
5	An Expedient Multigram Scale Synthesis of Lysine Dendrigrft (DGL) Polymers by Aqueous $\hat{\pm}$ -Carboxyanhydride Polycondensation. Chemistry - A European Journal, 2010, 16, 2309-2316.	3.3	62
6	The Peptide Formation Mediated by Cyanate Revisited. N-Carboxyanhydrides as Accessible Intermediates in the Decomposition of N-Carbamoylamino Acids. Journal of the American Chemical Society, 2006, 128, 7412-7413.	13.7	56
7	N-Carbamoyl Amino Acid Solid Phase Nitrosation by NO/NO _x : A New Route to Oligopeptides via $\hat{\pm}$ -Amino Acid N-Carboxyanhydride. Prebiotic Implications. Journal of Molecular Evolution, 1999, 48, 638-645.	1.8	41
8	A pH-dependent cyanate reactivity model: application to preparative N-carbamoylation of amino acids. Perkin Transactions II RSC, 2001, , 1247-1254.	1.1	38
9	5(4H)-oxazolones as Intermediates in the Carbodiimide- and Cyanamide-Promoted Peptide Activations in Aqueous Solution. Angewandte Chemie - International Edition, 2013, 52, 611-614.	13.8	36
10	Energy flows, metabolism and translation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2949-2958.	4.0	35
11	Dynamic Co-evolution of Peptides and Chemical Energetics, a Gateway to the Emergence of Homochirality and the Catalytic Activity of Peptides. Origins of Life and Evolution of Biospheres, 2004, 34, 35-55.	1.9	33
12	Synthesis of a Diblock Copolymer with Pendent Luminescent and Charge Transport Units through Nitroxide-Mediated Free Radical Polymerization. Macromolecules, 2002, 35, 1543-1548.	4.8	26
13	Synthetic routes to $\hat{\pm}$ -lactams. Some unexpected hydrogen atom transfer reactions. Tetrahedron, 1998, 54, 2087-2098.	1.9	24
14	Energy Sources, Self-organization, and the Origin of Life. Origins of Life and Evolution of Biospheres, 2011, 41, 23-33.	1.9	21
15	Diastereoselectivity in prebiotically relevant 5(4H)-oxazolone-mediated peptide couplings. Chemical Communications, 2014, 50, 3100.	4.1	18
16	Solid phase decarbamoylation of monoalkylureas and N-carbamoylpeptides using gaseous NO _x : A new easy deprotection reaction with minimum waste. Tetrahedron Letters, 1999, 40, 3355-3358.	1.4	16
17	Functionalisation of free amino groups of lysine dendrigrft (DGL) polymers. Tetrahedron Letters, 2012, 53, 2976-2979.	1.4	15
18	5. Prebiotic Chemistry " Biochemistry " Emergence of Life (4.4 " 2 Ga). Earth, Moon and Planets, 2006, 98, 153-203.	0.6	14

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19	The Activation of Free Dipeptides Promoted by Strong Activating Agents in Water Does not Yield Diketopiperazines. <i>Origins of Life and Evolution of Biospheres</i> , 2016, 46, 19-30.	1.9	12
20	Regioselective Hydration and Deprotection of Chiral, Dissymmetric Iminodinitriles in the Scope of an Asymmetric Strecker Strategy. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 662-668.	2.4	11
21	Activation of carboxyl group with cyanate: peptide bond formation from dicarboxylic acids. <i>Amino Acids</i> , 2012, 42, 2331-2341.	2.7	11
22	N-Carbamoyl Derivatives and Their Nitrosation by Gaseous NO _x – A New, Promising Tool in Stepwise Peptide Synthesis. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 1026-1032.	2.4	10
23	Electronic and Geometrical Structures of Dialuminoxane, Diboroxane, and Their Sulfur Analogues: Ab Initio Study of H ₂ X-Y-XH ₂ (X = Al, B; Y = O, S) Compounds. <i>Chemistry - A European Journal</i> , 1997, 3, 1860-1865.	3.3	9
24	Process improvement in amino acid N-carboxyanhydride synthesis by N-carbamoyl amino acid nitrosation. <i>Amino Acids</i> , 2009, 36, 341-347.	2.7	9
25	Key parameters for carbamate stability in dilute aqueous “organic solution. <i>Journal of Environmental Management</i> , 2001, 6, 67-80.	1.7	8
26	From prebiotic macromolecules to synthetic polypeptides: a new, efficient synthesis of α -amino acid N-carboxyanhydrides (NCAs). <i>Polymer International</i> , 2002, 51, 1037-1040.	3.1	7
27	5(4H)-Oxazolones as Effective Aminoacylation Reagents for the 3'-Terminus of RNA. <i>Synlett</i> , 2016, 28, 73-77.	1.8	6
28	The Prebiotic C-Terminal Elongation of Peptides Can Be Initiated by <i>N</i> -Carbamoyl Amino Acids. <i>Chemistry - A European Journal</i> , 2017, 23, 7418-7421.	3.3	6
29	Peptide Emergence, Evolution and Selection on the Primitive Earth. <i>Advances in Astrobiology and Biogeophysics</i> , 2005, , 547-569.	0.6	5
30	Investigation of N-carbamoyl amino acid nitrosation by {NO + O ₂ } in the solid-gas phase. Effects of NO _x speciation and kinetic evidence for a multiple-stage process. <i>Journal of Physical Organic Chemistry</i> , 2007, 20, 271-284.	1.9	4
31	Energetic constraints on prebiotic pathways: application to the emergence of translation. , 0, , 247-258.		4
32	Peptide Emergence, Evolution and Selection on the Primitive Earth. <i>Advances in Astrobiology and Biogeophysics</i> , 2005, , 517-545.	0.6	3
33	Novel Synthesis of Substituted 2-Trifluoromethyl and 2-Perfluoroalkyl N-Arylpyridinium Compounds – Mechanistic Insights. <i>Molecules</i> , 2019, 24, 2328.	3.8	3
34	Prebiotic Chemistry – Biochemistry – Emergence of Life (4.4-2 Ga). , 2006, , 153-203.		1
35	Systems chemistry of α -amino acids and peptides. <i>BIO Web of Conferences</i> , 2014, 2, 04001.	0.2	1
36	2. Dating Methods and Corresponding Chronometers in Astrobiology. <i>Earth, Moon and Planets</i> , 2006, 98, 11-38.	0.6	0

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37	Molecular Origins of Life: Homochirality as a Consequence of the Dynamic Co-Emergence and Co-Evolution of Peptides and Chemical Energetics. , 2004, , 49-64.		0
38	Amino Acid N-Carboxy Anhydride. , 2014, , 1-3.		0
39	Amino Acid N-Carboxy Anhydride. , 2015, , 78-80.		0
40	Diastereoselective Synthesis of Perfluoroalkylmethyl-Substituted 1,2,3,4-Tetrahydroquinolines Derivatives through 1,3-Bis(acetoxy) Synthons. European Journal of Organic Chemistry, 0, , .	2.4	0