

Vincent Aucagne

List of Publications by Citations

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56
papers

2,059
citations

24
h-index

45
g-index

68
ext. papers

2,268
ext. citations

6.4
avg, IF

4.64
L-index

#	Paper	IF	Citations
56	Catalytic "click" rotaxanes: a substoichiometric metal-template pathway to mechanically interlocked architectures. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2186-7	16.4	300
55	Catalytic "active-metal" template synthesis of [2]rotaxanes, [3]rotaxanes, and molecular shuttles, and some observations on the mechanism of the Cu(I)-catalyzed azide-alkyne 1,3-cycloaddition. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11950-63	16.4	220
54	Chemoselective formation of successive triazole linkages in one pot: "click-click" chemistry. <i>Organic Letters</i> , 2006 , 8, 4505-7	6.2	202
53	Rotaxane-based propeptides: protection and enzymatic release of a bioactive pentapeptide. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6443-7	16.4	105
52	A mechanically interlocked molecular system programmed for the delivery of an anticancer drug. <i>Chemical Science</i> , 2015 , 6, 2608-2613	9.4	95
51	Synthesis of a biologically active triazole-containing analogue of cystatin A through successive peptidomimetic alkyne-azide ligations. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 718-22	16.4	72
50	Click à la carte: robust semi-orthogonal alkyne protecting groups for multiple successive azide/alkyne cycloadditions. <i>Tetrahedron</i> , 2009 , 65, 7597-7602	2.4	63
49	A Helping Hand to Overcome Solubility Challenges in Chemical Protein Synthesis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11775-82	16.4	62
48	Synthesis and antiviral activity of novel acyclic nucleosides in the 5-alkynyl- and 6-alkylfuro[2,3-d]pyrimidine series. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 1239-48	3.4	54
47	Highly efficient solid phase synthesis of large polypeptides by iterative ligations of bis(2-sulfanylethyl)amido (SEA) peptide segments. <i>Chemical Science</i> , 2013 , 4, 4061	9.4	48
46	Towards the simplification of protein synthesis: iterative solid-supported ligations with concomitant purifications. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11320-4	16.4	48
45	A straightforward method for automated Fmoc-based synthesis of bio-inspired peptide crypto-thioesters. <i>Chemical Science</i> , 2016 , 7, 339-345	9.4	45
44	A water soluble Cu(I)-NHC for CuAAC ligation of unprotected peptides under open air conditions. <i>Chemical Communications</i> , 2012 , 48, 4005-7	5.8	43
43	Sulfur-containing amide-based [2]rotaxanes and molecular shuttles. <i>Chemical Science</i> , 2011 , 2, 1922	9.4	42
42	Rotaxane-Based Propeptides: Protection and Enzymatic Release of a Bioactive Pentapeptide. <i>Angewandte Chemie</i> , 2009 , 121, 6565-6569	3.6	41
41	Second generation specific-enzyme-activated rotaxane propeptides. <i>Chemical Communications</i> , 2012 , 48, 2083-5	5.8	40
40	Primary structure and antibacterial activity of chicken bone marrow-derived beta-defensins. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 4647-55	5.9	39

- 39 Rotaxanes of cyclic peptides. *Journal of the American Chemical Society*, **2006**, 128, 1784-5 16.4 37
- 38 Activation of TRPV2 and BKCa channels by the LL-37 enantiomers stimulates calcium entry and migration of cancer cells. *Oncotarget*, **2016**, 7, 23785-800 3.3 33
- 37 Rational design of triazololipopeptides analogs of kisspeptin inducing a long-lasting increase of gonadotropins. *Journal of Medicinal Chemistry*, **2015**, 58, 3459-70 8.3 29
- 36 Combining triazole ligation and enzymatic glycosylation on solid phase simplifies the synthesis of very long glycoprotein analogues. *Chemical Science*, **2015**, 6, 3617-3623 9.4 29
- 35 Wittig approach to carbohydrate-derived vinyl sulfides, new substrates for regiocontrolled ring-closure reactions. *Tetrahedron*, **2004**, 60, 1817-1826 2.4 29
- 34 Palladium-catalyzed synthesis of uridines on polystyrene-based solid supports. *ACS Combinatorial Science*, **2004**, 6, 717-23 28
- 33 Synthesis of aryl-thioglycopeptides through chemoselective Pd-mediated conjugation. *Chemical Science*, **2018**, 9, 8753-8759 9.4 24
- 32 Solid phase oxime ligations for the iterative synthesis of polypeptide conjugates. *Organic and Biomolecular Chemistry*, **2014**, 12, 5536-43 3.9 23
- 31 Sulfenic acids in the carbohydrate field. Synthesis of transient glycosulfenic acids and their addition to unsaturated acceptors. *Journal of Organic Chemistry*, **2002**, 67, 6925-30 4.2 23
- 30 Native Chemical Ligation Strategy to Overcome Side Reactions during Fmoc-Based Synthesis of C-Terminal Cysteine-Containing Peptides. *Organic Letters*, **2016**, 18, 920-3 6.2 22
- 29 Initial insights into structure-activity relationships of avian defensins. *Journal of Biological Chemistry*, **2012**, 287, 7746-55 5.4 22
- 28 Efficient synthesis of cysteine-rich cyclic peptides through intramolecular native chemical ligation of N-Hnb-Cys peptide crypto-thioesters. *Organic and Biomolecular Chemistry*, **2017**, 15, 316-319 3.9 20
- 27 The Ancestral N-Terminal Domain of Big Defensins Drives Bacterially Triggered Assembly into Antimicrobial Nanonets. *MBio*, **2019**, 10, 7.8 18
- 26 Alkyne-azide click chemistry mediated carbanucleosides synthesis. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1391-4 1.4 17
- 25 Synthetic Approaches to C-Glucosinolates. *Tetrahedron*, **2000**, 56, 2647-2654 2.4 17
- 24 Preparation of peptide thioesters using Fmoc strategy through hydroxyl side chain anchoring. *Tetrahedron Letters*, **2008**, 49, 4016-4019 2 15
- 23 Spermaurin, an La1-like peptide from the venom of the scorpion *Scorpio maurus palmatus*, improves sperm motility and fertilization in different mammalian species. *Molecular Human Reproduction*, **2017**, 23, 116-131 4.4 15
- 22 Synthesis of a Biologically Active Triazole-Containing Analogue of Cystatin A Through Successive Peptidomimetic Alkyne-Azide Ligations. *Angewandte Chemie*, **2012**, 124, 742-746 3.6 14

21	Substrate-derived triazolo- and azapeptides as inhibitors of cathepsins K and S. <i>European Journal of Medicinal Chemistry</i> , 2018 , 144, 201-210	6.8	13
20	The nuclear magnetic resonance solution structure of the synthetic AhPDF1.1b plant defensin evidences the structural feature within the Enotif. <i>Biochemistry</i> , 2014 , 53, 7745-54	3.2	13
19	Study of different copper (I) catalysts for the "click chemistry" approach to carbanucleosides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 779-83	1.4	12
18	Near-infrared emitting lanthanide(III) complexes as prototypes of optical imaging agents with peptide targeting ability: a methodological approach.. <i>RSC Advances</i> , 2019 , 9, 1747-1751	3.7	11
17	The kisspeptin analog C6 is a possible alternative to PMSG (pregnant mare serum gonadotropin) for triggering synchronized and fertile ovulations in the Alpine goat. <i>PLoS ONE</i> , 2019 , 14, e0214424	3.7	11
16	Synthesis of 5-haloethynyl- and 5-(1,2-dihalo)vinyluracil nucleosides: antiviral activity and cellular toxicity. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 6015-24	3.4	9
15	Structure, function, and evolution of -AvBD11, the archetype of the structural avian-double-defensin family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 337-345	11.5	9
14	Thermodynamics versus kinetics in hetero-Michael cyclizations: a highly stereoselective approach to access both epimers of a C-d-mannopyranoside. <i>Tetrahedron Letters</i> , 2008 , 49, 4750-4753	2	7
13	In Silico Peptide Ligation: Iterative Residue Docking and Linking as a New Approach to Predict Protein-Peptide Interactions. <i>Molecules</i> , 2019 , 24,	4.8	6
12	Imaging of extracellular cathepsin S activity by a selective near infrared fluorescence substrate-based probe. <i>Biochimie</i> , 2019 , 166, 84-93	4.6	6
11	Towards the Simplification of Protein Synthesis: Iterative Solid-Supported Ligations with Concomitant Purifications. <i>Angewandte Chemie</i> , 2012 , 124, 11482-11486	3.6	6
10	A straightforward methodology to overcome solubility challenges for N-terminal cysteinyl peptide segments used in native chemical ligation. <i>Chemical Science</i> , 2021 , 12, 3194-3201	9.4	6
9	Synergic effect of hydride and proton donors in the Pd(0)-mediated deprotection of N ^B Aloc proline derivatives. <i>Tetrahedron Letters</i> , 2007 , 48, 6523-6526	2	5
8	An optimized protocol for the synthesis of -2-hydroxybenzyl-cysteine peptide crypto-thioesters. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 8199-8208	3.9	4
7	Highly Efficient AgNO ₃ -Catalyzed Preparation of Substituted Furano[pyrimidine Nucleosides. <i>Synlett</i> , 2004 , 2004, 2406-2408	2.2	3
6	Solid-phase Chemical Ligation 2021 , 259-284		2
5	Complete ¹ H, ¹⁵ N and ¹³ C assignment of trappin-2 and ¹ H assignment of its two domains, elafin and cementoin. <i>Biomolecular NMR Assignments</i> , 2016 , 10, 223-6	0.7	1
4	Enzyme-Cleavable Linkers for Protein Chemical Synthesis through Solid-Phase Ligations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18612-18618	16.4	1

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| 3 | Monitoring Human Neutrophil Activation by a Proteinase 3 Near-Infrared Fluorescence Substrate-Based Probe. <i>Bioconjugate Chemistry</i> , 2021 , 32, 1782-1790 | 6.3 | o |
| 2 | Enzyme-Cleavable Linkers for Protein Chemical Synthesis through Solid-Phase Ligations. <i>Angewandte Chemie</i> , 2021 , 133, 18760-18766 | 3.6 | o |
| 1 | A customized long acting formulation of the kisspeptin analog C6 triggers ovulation in anestrous ewe.. <i>Journal of Neuroendocrinology</i> , 2022 , e13121 | 3.8 | o |