

# Vincent Aucagne

## List of Publications by Year in descending order

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54  
papers

2,413  
citations

236833

25  
h-index

197736

49  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic "Click" Rotaxanes: A Substoichiometric Metal-Template Pathway to Mechanically Interlocked Architectures. <i>Journal of the American Chemical Society</i> , 2006, 128, 2186-2187.	6.6	350
2	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, 11950-11963.	6.6	248
3	Chemoselective Formation of Successive Triazole Linkages in One Pot: "Click" Click-Chemistry. <i>Organic Letters</i> , 2006, 8, 4505-4507.	2.4	212
4	Rotaxane-Based Propeptides: Protection and Enzymatic Release of a Bioactive Pentapeptide. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6443-6447.	7.2	129
5	A mechanically interlocked molecular system programmed for the delivery of an anticancer drug. <i>Chemical Science</i> , 2015, 6, 2608-2613.	3.7	124
6	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, 718-722.	7.2	75
7	A Helping Hand to Overcome Solubility Challenges in Chemical Protein Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 11775-11782.	6.6	75
8	Click À la carte: robust semi-orthogonal alkyne protecting groups for multiple successive azide/alkyne cycloadditions. <i>Tetrahedron</i> , 2009, 65, 7597-7602.	1.0	64
9	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, 1239-1248.	1.4	59
10	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.	3.7	55
11	Towards the Simplification of Protein Synthesis: Iterative Solid-Supported Ligations with Concomitant Purifications. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11320-11324.	7.2	52
12	A straightforward method for automated Fmoc-based synthesis of bio-inspired peptide crypto-thioesters. <i>Chemical Science</i> , 2016, 7, 339-345.	3.7	51
13	Second generation specific-enzyme-activated rotaxane propeptides. <i>Chemical Communications</i> , 2012, 48, 2083.	2.2	50
14	A water soluble CuI-NHC for CuAAC ligation of unprotected peptides under open air conditions. <i>Chemical Communications</i> , 2012, 48, 4005.	2.2	48
15	Primary Structure and Antibacterial Activity of Chicken Bone Marrow-Derived Î²-Defensins. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 4647-4655.	1.4	46
16	Activation of TRPV2 and BKCa channels by the LL-37 enantiomers stimulates calcium entry and migration of cancer cells. <i>Oncotarget</i> , 2016, 7, 23785-23800.	0.8	44
17	Sulfur-containing amide-based [2]rotaxanes and molecular shuttles. <i>Chemical Science</i> , 2011, 2, 1922.	3.7	43
18	Rotaxanes of Cyclic Peptides. <i>Journal of the American Chemical Society</i> , 2006, 128, 1784-1785.	6.6	38

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19	The Ancestral N-Terminal Domain of Big Defensins Drives Bacterially Triggered Assembly into Antimicrobial Nanonets. <i>MBio</i> , 2019, 10, .	1.8	35
20	Rational Design of Triazololipopeptides Analogs of Kisspeptin Inducing a Long-Lasting Increase of Gonadotropins. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3459-3470.	2.9	34
21	Synthesis of aryl-thioglycopeptides through chemoselective Pd-mediated conjugation. <i>Chemical Science</i> , 2018, 9, 8753-8759.	3.7	34
22	Wittig approach to carbohydrate-derived vinyl sulfides, new substrates for regiocontrolled ring-closure reactions. <i>Tetrahedron</i> , 2004, 60, 1817-1826.	1.0	33
23	Combining triazole ligation and enzymatic glycosylation on solid phase simplifies the synthesis of very long glycoprotein analogues. <i>Chemical Science</i> , 2015, 6, 3617-3623.	3.7	31
24	Palladium-Catalyzed Synthesis of Uridines on Polystyrene-Based Solid Supports. <i>ACS Combinatorial Science</i> , 2004, 6, 717-723.	3.3	29
25	Initial Insights into Structure-Activity Relationships of Avian Defensins. <i>Journal of Biological Chemistry</i> , 2012, 287, 7746-7755.	1.6	27
26	Efficient synthesis of cysteine-rich cyclic peptides through intramolecular native chemical ligation of N-Hnb-Cys peptide crypto-thioesters. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 316-319.	1.5	27
27	Native Chemical Ligation Strategy to Overcome Side Reactions during Fmoc-Based Synthesis of C-Terminal Cysteine-Containing Peptides. <i>Organic Letters</i> , 2016, 18, 920-923.	2.4	25
28	Sulfenic Acids in the Carbohydrate Field. Synthesis of Transient Glycosulfenic Acids and Their Addition to Unsaturated Acceptors. <i>Journal of Organic Chemistry</i> , 2002, 67, 6925-6930.	1.7	24
29	Solid phase oxime ligations for the iterative synthesis of polypeptide conjugates. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 5536-5543.	1.5	23
30	Synthetic Approaches to C-Glucosinolates. <i>Tetrahedron</i> , 2000, 56, 2647-2654.	1.0	20
31	Alkyne-Azide Click Chemistry Mediated Carbanucleosides Synthesis. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1391-1394.	0.4	18
32	Spermaurin, an La1-like peptide from the venom of the scorpion <i>Scorpio maurus palmatus</i> , improves sperm motility and fertilization in different mammalian species. <i>Molecular Human Reproduction</i> , 2016, 23, 116-131.	1.3	18
33	Structure, function, and evolution of <i>Gga</i> -AvBD11, the archetype of the structural avian-double- $\beta$ -defensin family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 337-345.	3.3	18
34	The Nuclear Magnetic Resonance Solution Structure of the Synthetic AhPDF1.1b Plant Defensin Evidences the Structural Feature within the $\beta^3$ -Motif. <i>Biochemistry</i> , 2014, 53, 7745-7754.	1.2	17
35	Substrate-derived triazolo- and azapeptides as inhibitors of cathepsins K and S. <i>European Journal of Medicinal Chemistry</i> , 2018, 144, 201-210.	2.6	17
36	Study of Different Copper (I) Catalysts for the "Click Chemistry" Approach to Carbanucleosides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 779-783.	0.4	16

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37	Preparation of peptide thioesters using Fmoc strategy through hydroxyl side chain anchoring. <i>Tetrahedron Letters</i> , 2008, 49, 4016-4019.	0.7	15
38	Near-infrared emitting lanthanide( $\text{Ln}^{3+}$ ) complexes as prototypes of optical imaging agents with peptide targeting ability: a methodological approach. <i>RSC Advances</i> , 2019, 9, 1747-1751.	1.7	15
39	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.	1.1	15
40	In Silico Peptide Ligation: Iterative Residue Docking and Linking as a New Approach to Predict Protein-Peptide Interactions. <i>Molecules</i> , 2019, 24, 1351.	1.7	14
41	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.	3.7	11
42	Synthesis of 5-haloethyl- and 5-(1,2-dihalo)vinyluracil nucleosides: Antiviral activity and cellular toxicity. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 6015-6024.	1.4	10
43	Imaging of extracellular cathepsin S activity by a selective near infrared fluorescence substrate-based probe. <i>Biochimie</i> , 2019, 166, 84-93.	1.3	10
44	An optimized protocol for the synthesis of <i>N</i> -2-hydroxybenzyl-cysteine peptide crypto-thioesters. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 8199-8208.	1.5	9
45	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.	0.7	7
46	Enzyme-Cleavable Linkers for Protein Chemical Synthesis through Solid-Phase Ligations. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18612-18618.	7.2	7
47	Synergic effect of hydride and proton donors in the Pd(0)-mediated deprotection of <i>N</i> -Aloc proline derivatives. <i>Tetrahedron Letters</i> , 2007, 48, 6523-6526.	0.7	5
48	Highly Efficient AgNO <sub>3</sub> -Catalyzed Preparation of Substituted Furano-pyrimidine Nucleosides. <i>Synlett</i> , 2004, 2004, 2406-2408.	1.0	4
49	Complete <sup>1</sup> H, <sup>15</sup> N and <sup>13</sup> C assignment of trappin-2 and <sup>1</sup> H assignment of its two domains, elafin and cementoin. <i>Biomolecular NMR Assignments</i> , 2016, 10, 223-226.	0.4	2
50	Monitoring Human Neutrophil Activation by a Proteinase 3 Near-Infrared Fluorescence Substrate-Based Probe. <i>Bioconjugate Chemistry</i> , 2021, 32, 1782-1790.	1.8	2
51	The Kisspeptin analogue C6 induces ovulation in jennies. <i>Theriogenology</i> , 2022, 189, 107-112.	0.9	2
52	Enzyme-Cleavable Linkers for Protein Chemical Synthesis through Solid-Phase Ligations. <i>Angewandte Chemie</i> , 2021, 133, 18760-18766.	1.6	1
53	Real-Time Fluorescence Microscopy on Living <i>E. coli</i> Sheds New Light on the Antibacterial Effects of the King Penguin $\beta$ -Defensin AvBD103b. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2057.	1.8	1
54	A customized long acting formulation of the kisspeptin analog C6 triggers ovulation in anestrous ewe. <i>Journal of Neuroendocrinology</i> , 2022, 34, e13121.	1.2	1