StÃ©phane P Vincent

List of Publications by Year
in descending order

82 papers	4,405 citations	126907 33 h-index	106344 65 g-index
91 all docs	91 docs citations	91 times ranked	5165 citing authors

#	Article	IF	Citations
1	Selectfluor: Mechanistic Insight and Applications. Angewandte Chemie - International Edition, 2005, 44, 192-212.	13.8	536
2	Molecular interaction and inhibition of SARS-CoV-2 binding to the ACE2 receptor. Nature Communications, 2020, 11, 4541.	12.8	485
3	Multivalent glycoconjugates as anti-pathogenic agents. Chemical Society Reviews, 2013, 42, 4709-4727.	38.1	464
4	Synthesis of giant globular multivalent glycofullerenes as potent inhibitors in a model of Ebola virus infection. Nature Chemistry, 2016, 8, 50-57.	13.6	251
5	Fullerene sugar balls. Chemical Communications, 2010, 46, 3860.	4.1	169
6	Electrophilic Fluorinationâˆ’Nucleophilic Addition Reaction Mediated by Selectfluor: Mechanistic Studies and New Applications. Journal of Organic Chemistry, 1999, 64, 5264-5279.	3.2	156
7	The functional valency of dodecamannosylated fullerenes with Escherichia coli FimHâ€”towards novel bacterial antiadhesives. Chemical Communications, 2011, 47, 1321-1323.	4.1	132
8	Chemo-enzymatic synthesis of fluorinated sugar nucleotide: useful mechanistic Probes for glycosyltransferases. Bioorganic and Medicinal Chemistry, 2000, 8, 1937-1946.	3.0	120
9	The Inhibition of Liposaccharide Heptosyltransferase WaaC with Multivalent Glycosylated Fullerenes: A New Mode of Glycosyltransferase Inhibition. Chemistry - A European Journal, 2012, 18, 641-651.	3.3	97
10	Structure of the Escherichia coli Heptosyltransferase WaaC: Binary Complexes with ADP AND ADP-2-deoxy-2-fluoro Heptose. Journal of Molecular Biology, 2006, 363, 383-394.	4.2	83
11	Fluorinated carbohydrates as chemical probes for molecular recognition studies. Current status and perspectives. Chemical Society Reviews, 2020, 49, 3863-3888.	38.1	77
12	Synthesis and Inhibition Properties of Conformational Probes for the Mutase-Catalyzed UDP-Galactopyranose/Furanose Interconversion. Chemistry - A European Journal, 2003, 9, 5888-5898.	3.3	74
13	A mannosylated pillar[5]arene derivative: chiral information transfer and antiadhesive properties against uropathogenic bacteria. Tetrahedron Letters, 2013, 54, 2398-2402.	1.4	73
14	Structural Basis of Ligand Binding to UDP-Galactopyranose Mutase from <i>Mycobacterium tuberculosis</i> Using Substrate and Tetrafluorinated Substrate Analogues. Journal of the American Chemical Society, 2015, 137, 1230-1244.	13.7	73
15	Potent Glycosidase Inhibition with Heterovalent Fullerenes: Unveiling the Binding Modes Triggering Multivalent Inhibition. Chemistry - A European Journal, 2016, 22, 11450-11460.	3.3	65
16	Tetrafluorination of Sugars as Strategy for Enhancing Proteinâ€“Carbohydrate Affinity: Application to UDPâ€Gal<i>p</i> Mutase Inhibition. Chemistry - A European Journal, 2014, 20, 106-112.	3.3	64
17	Pillar[5]areneâ€Based Glycoclusters: Synthesis and Multivalent Binding to Pathogenic Bacterial Lectins. Chemistry - A European Journal, 2016, 22, 2955-2963.	3.3	64
18	A New Methodology for the Synthesis of Fluorinatedexo-Glycals and Their Time-Dependent Inhibition of UDP-Galactopyranose Mutase. Chemistry - A European Journal, 2006, 12, 3114-3123.	3.3	63

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19	Biologically Active Heteroglycoclusters Constructed on a Pillar[5]areneâ€Containing [2]Rotaxane Scaffold. Chemistry - A European Journal, 2016, 22, 88-92.	3.3	62
20	Cyclic Amidine Sugars as Transition-State Analogue Inhibitors of Glycosidases: Potent Competitive Inhibitors of Mannosidases. Journal of the American Chemical Society, 2004, 126, 1971-1979.	13.7	57
21	Synthesis of acyclic galactitol- and lyxitol-aminophosphonates as inhibitors of UDP-galactopyranose mutase. Tetrahedron Letters, 2007, 48, 4353-4356.	1.4	48
22	An efficient synthesis of CMP-3-fluoroneuraminic acid. Chemical Communications, 1999, , 1525-1526.	4.1	47
23	Fucofullerenes as tight ligands of RSL and LecB, two bacterial lectins. Organic and Biomolecular Chemistry, 2015, 13, 6482-6492.	2.8	42
24	Efficient synthesis of a nucleoside-diphospho-exo-glycal displaying time-dependent inactivation of UDP-galactopyranose mutase. Chemical Communications, 2004, , 1216-1217.	4.1	41
25	Stereoselective Glycal Fluorophosphorylation: Synthesis of ADPâ€2â€fluoroheptose, an Inhibitor of the LPS Biosynthesis. Chemistry - A European Journal, 2008, 14, 9530-9539.	3.3	40
26	Synthesis of Three <i>C</i>â€Glycoside Analogues of UDPâ€Galactopyranose as Conformational Probes for the Mutaseâ€Catalyzed Furanose/Pyranose Interconversion. European Journal of Organic Chemistry, 2009, 2009, 1771-1780.	2.4	40
27	Systematic Synthesis of Inhibitors of the Two First Enzymes of the Bacterial Heptose Biosynthetic Pathway: Towards Antivirulence Molecules Targeting Lipopolysaccharide Biosynthesis. Chemistry - A European Journal, 2011, 17, 11305-11313.	3.3	40
28	Mechanistic Insight into Heptosyltransferase Inhibition by using Kdo Multivalent Glycoclusters. Chemistry - A European Journal, 2016, 22, 13147-13155.	3.3	40
29	Asymmetric Strecker Synthesis of C-Glycopeptide. Journal of Organic Chemistry, 2000, 65, 4440-4443.	3.2	37
30	Exploring carbonic anhydrase inhibition with multimeric coumarins displayed on a fullerene scaffold. Organic and Biomolecular Chemistry, 2015, 13, 7445-7451.	2.8	37
31	Force Nanoscopy as a Versatile Platform for Quantifying the Activity of Antiadhesion Compounds Targeting Bacterial Pathogens. Nano Letters, 2016, 16, 1299-1307.	9.1	35
32	1,4-Anhydrogalactopyranose is not an intermediate of the mutase catalyzed UDP-galactopyranose/furanose interconversion. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 1123-1125.	2.2	34
33	Multivalent 9-O-Acetylated-sialic acid glycoclusters as potent inhibitors for SARS-CoV-2 infection. Nature Communications, 2022, 13, 2564.	12.8	32
34	Probing UDP-galactopyranose mutase binding pocket: A dramatic effect on substitution of the 6-position of UDP-galactofuranose. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 814-816.	2.2	31
35	Reversible and Efficient Inhibition of UDPâ€Galactopyranose Mutase by Electrophilic, Constrained and Unsaturated UDPâ€Galactitol Analogues. Chemistry - A European Journal, 2012, 18, 14860-14866.	3.3	31
36	Natural and Synthetic Flavonoids as Potent <i>Mycobacterium tuberculosis</i> UGM Inhibitors. Chemistry - A European Journal, 2017, 23, 10423-10429.	3.3	31

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37	Selectfluor and NFSI <i>exo</i>â€Glycal Fluorination Strategies Applied to the Enhancement of the Binding Affinity of Galactofuranosyltransferase Gl<i>f</i>T2 Inhibitors. Chemistry - A European Journal, 2014, 20, 15208-15215.	3.3	27
38	Identification of inhibitors targeting Mycobacterium tuberculosis cell wall biosynthesis via dynamic combinatorial chemistry. Chemical Communications, 2017, 53, 10632-10635.	4.1	27
39	Î²-Stereoselective Phosphorylations Applied to the Synthesis of ADP- and Polyprenyl-Î²-Mannopyranosides. Organic Letters, 2014, 16, 5628-5631.	4.6	25
40	Synthesis of a Novel UDP-carbasugar as UDP-galactopyranose Mutase Inhibitor. Organic Letters, 2014, 16, 2462-2465.	4.6	25
41	Debenzylative Cycloetherification: An Overlooked Key Strategy for Complex Tetrahydrofuran Synthesis. Chemistry - A European Journal, 2016, 22, 9456-9476.	3.3	22
42	Synthesis of Unprecedented Sulfonylated Phosphonoâ€<i>exo</i>â€Glycals Designed as Inhibitors of the Three Mycobacterial Galactofuranose Processing Enzymes. Chemistry - A European Journal, 2016, 22, 15913-15920.	3.3	22
43	Highly (<i>Z</i>)-Diastereoselective Synthesis of Trifluoromethylated <i>exo</i>-Glycals via Photoredox and Copper Catalysis. Organic Letters, 2018, 20, 6769-6773.	4.6	20
44	Identification of a cytotoxic molecule in heat-modified citrus pectin. Carbohydrate Polymers, 2016, 137, 39-51.	10.2	19
45	Occurrence and repair of alkylating stress in the intracellular pathogen Brucella abortus. Nature Communications, 2019, 10, 4847.	12.8	19
46	Constrained 3,6â€Anhydroâ€Heptosides: Synthesis by a DASTâ€Induced Debenzylative Reaction, and Reactivity Profile. European Journal of Organic Chemistry, 2013, 2013, 7593-7603.	2.4	14
47	Direct Evaluation of Live Uropathogenic <i>Escherichia coli</i> Adhesion and Efficiency of Antiadhesive Compounds Using a Simple Microarray Approach. Analytical Chemistry, 2018, 90, 12314-12321.	6.5	14
48	The endogenous galactofuranosidase GlfH1 hydrolyzes mycobacterial arabinogalactan. Journal of Biological Chemistry, 2020, 295, 5110-5123.	3.4	14
49	Dynamic Constitutional Frameworks as Antibacterial and Antibiofilm Agents. Angewandte Chemie - International Edition, 2021, 60, 22505-22512.	13.8	14
50	Synthesis of galactosides locked in a 1,4B boat conformation and functionalized at the anomeric position. Tetrahedron, 2007, 63, 2070-2077.	1.9	13
51	Multimeric xanthates as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 946-952.	5.2	13
52	Synthesis of exo-glycals and their biochemical applications. Tetrahedron, 2018, 74, 6512-6519.	1.9	13
53	Synthesis and evaluation of heterocycle structures as potential inhibitors of Mycobacterium tuberculosis UGM. Bioorganic and Medicinal Chemistry, 2020, 28, 115579.	3.0	12
54	A Novel Baseâ€Induced Isomerization Gives Access to Unprecedented (<i>E</i>)â€<i>exo</i>â€Glycals. Chemistry - A European Journal, 2013, 19, 11547-11552.	3.3	11

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55	QCM sensing of multivalent interactions between lectins and well-defined glycosylated nanoplatforms. Biosensors and Bioelectronics, 2019, 139, 111328.	10.1	11
56	Pillar[5]arene-Based Polycationic Glyco[2]rotaxanes Designed as <i>Pseudomonas aeruginosa</i> Antibiofilm Agents. Journal of Medicinal Chemistry, 2021, 64, 14728-14744.	6.4	11
57	Fucosylation of triethyleneglycol-based acceptors into â€˜clickableâ€™ Î±-fucosides. Carbohydrate Research, 2014, 395, 15-18.	2.3	10
58	Multigram-scale synthesis of l,d-heptoside using a Fleming-Tamao oxidation promoted by mercuric trifluoroacetate. Carbohydrate Research, 2016, 432, 71-75.	2.3	10
59	Synthesis of functionalized copillar[4+1]arenes and rotaxane as heteromultivalent scaffolds. Chemical Communications, 2021, 57, 492-495.	4.1	10
60	A Simple Synthesis of D-Galactono-1,4-Lactone and Key Building Blocks for the Preparation of Galactofuranosides. Journal of Carbohydrate Chemistry, 2011, 30, 605-617.	1.1	9
61	Synthesis of d-glycero-d-manno-heptose 1,7-bisphosphate (HBP) featuring a Î²-stereoselective bis-phosphorylation. Tetrahedron Letters, 2017, 58, 3631-3633.	1.4	9
62	Chapter 20. Conformationally restricted glycoside derivatives as mechanistic probes and/or inhibitors of sugar processing enzymes and receptors. Carbohydrate Chemistry, 2014, , 418-444.	0.3	9
63	Galactofuranose Biosynthesis: Discovery, Mechanisms and Therapeutic Relevance. RSC Drug Discovery Series, 2015, , 209-241.	0.3	8
64	Fluorinated Galactoses Inhibit Galactose-1-Phosphate Uridyltransferase and Metabolically Induce Galactosemia-like Phenotypes in HEK-293 Cells. Cells, 2020, 9, 607.	4.1	8
65	A General Strategy to Synthesize ADP-7-Azido-heptose and ADP-Azido-mannoses and Their Heptosyltransferase Binding Properties. Organic Letters, 2021, 23, 1638-1642.	4.6	8
66	Photocontrolled lactide ROP by the light-regulated release of potassium acetate from an azobenzene-bridged crown ether. Catalysis Science and Technology, 2021, 11, 6048-6052.	4.1	8
67	First steps towards conformationally selective artificial lectins: the chair-boat discrimination by molecularly imprinted polymers. Chemical Communications, 2012, 48, 10684.	4.1	7
68	Î²â€Selective Oneâ€Pot Fluorophosphorylation of <scp>d,d</scp>â€Heptosylglycals Mediated by Selectfluor. Israel Journal of Chemistry, 2015, 55, 392-397.	2.3	7
69	Regioselective Synthesis of Difluorinated <i>C</i>-Furanosides Involving a Debenzylative Cycloetherification. Organic Letters, 2019, 21, 5562-5566.	4.6	6
70	Nonhydrolyzable Heptose Bisâ€and Monophosphate Analogues Modulate Proâ€inflammatory TIFAâ€NFâ€ÎºB Signaling. ChemBioChem, 2020, 21, 2982-2990.	2.6	6
71	Synthesis and biological evaluation of 3,4-dihydro-1H-[1,4] oxazepino [6,5,4-hi] indol-1-ones and 4,6-dihydrooxepino [5,4,3-cd] indol-1(3H)-ones as Mycobacterium tuberculosis inhibitors. Bioorganic and Medicinal Chemistry, 2021, 43, 116248.	3.0	6
72	Stereoselective Synthesis of Boatâ€Locked Glycosides Designed as Glycosyl Hydrolase Conformational Probes. European Journal of Organic Chemistry, 2015, 2015, 1472-1484.	2.4	5

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73	Efficient and regioselective synthesis of Î³-lactone glycosides through a novel debenzylative cyclization reaction. Chemical Communications, 2018, 54, 9845-9848.	4.1	5
74	Pyruvateâ€Kinaseâ€Coupled Glycosyltransferase Assays: Limitations, Struggles and Problem Resolution. ChemBioChem, 2017, 18, 2129-2136.	2.6	4
75	Fluorosugars as inhibitors of bacterial enzymes. , 2019, , 241-279.		4
76	Synthesis of a biotinylated heptose 1,7-bisphosphate analogue, a probe to study immunity and inflammation. Organic and Biomolecular Chemistry, 2021, 19, 4943-4948.	2.8	3
77	Synthesis and evaluation of inhibitors of Mycobacterium tuberculosis UGM using bioisosteric replacement. Bioorganic and Medicinal Chemistry, 2022, 69, 116896.	3.0	3
78	Synthesis of Spirocyclic Cyclopropyl Glycosyl-1-phosphate Analogues. Organic Letters, 2022, 24, 4165-4169.	4.6	2
79	Pillar[5]areneâ€Based Glycoclusters: Synthesis and Multivalent Binding to Pathogenic Bacterial Lectins. Chemistry - A European Journal, 2016, 22, 2837-2837.	3.3	1
80	Identification of inhibitors of UDP-galactopyranose mutase<i>via</i>combinatorial<i>in situ</i>screening. Organic and Biomolecular Chemistry, 2021, 19, 1818-1826.	2.8	1
81	Copillar[5]arene Chemistry: Synthesis and Applications. Synthesis, 0, , .	2.3	1
82	Dynamic Constitutional Frameworks as Antibacterial and Antibiofilm Agents. Angewandte Chemie, 2021, 133, 22679-22686.	2.0	0