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	Multivalent 9-O-Acetylated-sialic acid glycoclusters as potent inhibitors for SARS-CoV-2 infection. Nature Communications, 2022, 13, 2564.	12.8	32
2	Synthesis of Spirocyclic Cyclopropyl Glycosyl-1-phosphate Analogues. Organic Letters, 2022, 24, 4165-4169.	4.6	2
3	Synthesis and evaluation of inhibitors of Mycobacterium tuberculosis UGM using bioisosteric replacement. Bioorganic and Medicinal Chemistry, 2022, 69, 116896.	3.0	3
4	Synthesis of functionalized copillar[4+1]arenes and rotaxane as heteromultivalent scaffolds. Chemical Communications, 2021, 57, 492-495.	4.1	10
5	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
6	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
7	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
8	Pillar[5]arene-Based Polycationic Glyco[2]rotaxanes Designed as Pseudomonas aeruginosa Antibiofilm Agents. Journal of Medicinal Chemistry, 2021, 64, 14728-14744.	6.4	11
9	Dynamic Constitutional Frameworks as Antibacterial and Antibiofilm Agents. Angewandte Chemie - International Edition, 2021, 60, 22505-22512.	13.8	14
10	Dynamic Constitutional Frameworks as Antibacterial and Antibiofilm Agents. Angewandte Chemie, 2021, 133, 22679-22686.	2.0	0
11	Identification of inhibitors of UDP-galactopyranose mutaseviacombinatorialin situscreening. Organic and Biomolecular Chemistry, 2021, 19, 1818-1826.	2.8	1
12	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
13	Molecular interaction and inhibition of SARS-CoV-2 binding to the ACE2 receptor. Nature Communications, 2020, 11, 4541.	12.8	485
14	Synthesis and evaluation of heterocycle structures as potential inhibitors of Mycobacterium tuberculosis UGM. Bioorganic and Medicinal Chemistry, 2020, 28, 115579.	3.0	12
15	Nonhydrolyzable Heptose Bisâ€•and Monophosphate Analogues Modulate Proâ€inflammatory TIFAâ€NFâ€ºB Signaling. ChemBioChem, 2020, 21, 2982-2990.	2.6	6
16	Fluorinated carbohydrates as chemical probes for molecular recognition studies. Current status and perspectives. Chemical Society Reviews, 2020, 49, 3863-3888.	38.1	77
17	Fluorinated Galactoses Inhibit Galactose-1-Phosphate Uridyltransferase and Metabolically Induce Galactosemia-like Phenotypes in HEK-293 Cells. Cells, 2020, 9, 607.	4.1	8
18	The endogenous galactofuranosidase GlfH1 hydrolyzes mycobacterial arabinogalactan. Journal of Biological Chemistry, 2020, 295, 5110-5123.	3.4	14

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19	Regioselective Synthesis of Difluorinated C-Furanosides Involving a Debenzylative Cycloetherification. Organic Letters, 2019, 21, 5562-5566.	4.6	6
20	Occurrence and repair of alkylating stress in the intracellular pathogen Brucella abortus. Nature Communications, 2019, 10, 4847.	12.8	19
21	QCM sensing of multivalent interactions between lectins and well-defined glycosylated nanoplatforms. Biosensors and Bioelectronics, 2019, 139, 111328.	10.1	11
22	Fluorosugars as inhibitors of bacterial enzymes. , 2019, , 241-279.		4
23	Direct Evaluation of Live Uropathogenic Escherichia coli Adhesion and Efficiency of Antiadhesive Compounds Using a Simple Microarray Approach. Analytical Chemistry, 2018, 90, 12314-12321.	6.5	14
24	Synthesis of exo-glycals and their biochemical applications. Tetrahedron, 2018, 74, 6512-6519.	1.9	13
25	Highly (Z)-Diastereoselective Synthesis of Trifluoromethylated exo-Glycals via Photoredox and Copper Catalysis. Organic Letters, 2018, 20, 6769-6773.	4.6	20
26	Efficient and regioselective synthesis of Î³-lactone glycosides through a novel debenzylative cyclization reaction. Chemical Communications, 2018, 54, 9845-9848.	4.1	5
27	Natural and Synthetic Flavonoids as Potent Mycobacterium tuberculosis UGM Inhibitors. Chemistry - A European Journal, 2017, 23, 10423-10429.	3.3	31
28	Pyruvateâ€Kinaseâ€Coupled Glycosyltransferase Assays: Limitations, Struggles and Problem Resolution. ChemBioChem, 2017, 18, 2129-2136.	2.6	4
29	Identification of inhibitors targeting Mycobacterium tuberculosis cell wall biosynthesis via dynamic combinatorial chemistry. Chemical Communications, 2017, 53, 10632-10635.	4.1	27
30	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
31	Debenzylative Cycloetherification: An Overlooked Key Strategy for Complex Tetrahydrofuran Synthesis. Chemistry - A European Journal, 2016, 22, 9456-9476.	3.3	22
32	Pillar[5]areneâ€Based Glycoclusters: Synthesis and Multivalent Binding to Pathogenic Bacterial Lectins. Chemistry - A European Journal, 2016, 22, 2955-2963.	3.3	64
33	Biologically Active Heteroglycoclusters Constructed on a Pillar[5]areneâ€Containing [2]Rotaxane Scaffold. Chemistry - A European Journal, 2016, 22, 88-92.	3.3	62
34	Mechanistic Insight into Heptosyltransferase Inhibition by using Kdo Multivalent Glycoclusters. Chemistry - A European Journal, 2016, 22, 13147-13155.	3.3	40
35	Synthesis of Unprecedented Sulfonylated Phosphonoâ€exoâ€Glycals Designed as Inhibitors of the Three Mycobacterial Galactofuranose Processing Enzymes. Chemistry - A European Journal, 2016, 22, 15913-15920.	3.3	22
36	Potent Glycosidase Inhibition with Heterovalent Fullerenes: Unveiling the Binding Modes Triggering Multivalent Inhibition. Chemistry - A European Journal, 2016, 22, 11450-11460.	3.3	65

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37	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
38	Identification of a cytotoxic molecule in heat-modified citrus pectin. Carbohydrate Polymers, 2016, 137, 39-51.	10.2	19
39	Pillar[5]areneâ€Based Glycoclusters: Synthesis and Multivalent Binding to Pathogenic Bacterial Lectins. Chemistry - A European Journal, 2016, 22, 2837-2837.	3.3	1
40	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
41	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
42	Multimeric xanthates as carbonic anhydrase inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 946-952.	5.2	13
43	Fucofullerenes as tight ligands of RSL and LecB, two bacterial lectins. Organic and Biomolecular Chemistry, 2015, 13, 6482-6492.	2.8	42
44	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
45	Stereoselective Synthesis of Boatâ€Locked Glycosides Designed as Glycosyl Hydrolase Conformational Probes. European Journal of Organic Chemistry, 2015, 2015, 1472-1484.	2.4	5
46	Structural Basis of Ligand Binding to UDP-Galactopyranose Mutase from Mycobacterium tuberculosis Using Substrate and Tetrafluorinated Substrate Analogues. Journal of the American Chemical Society, 2015, 137, 1230-1244.	13.7	73
47	Exploring carbonic anhydrase inhibition with multimeric coumarins displayed on a fullerene scaffold. Organic and Biomolecular Chemistry, 2015, 13, 7445-7451.	2.8	37
48	Galactofuranose Biosynthesis: Discovery, Mechanisms and Therapeutic Relevance. RSC Drug Discovery Series, 2015, , 209-241.	0.3	8
49	Î²-Stereoselective Phosphorylations Applied to the Synthesis of ADP- and Polyprenyl-Î²-Mannopyranosides. Organic Letters, 2014, 16, 5628-5631.	4.6	25
50	Selectfluor and NFSI exoâ€Glycal Fluorination Strategies Applied to the Enhancement of the Binding Affinity of Galactofuranosyltransferase GIfT2 Inhibitors. Chemistry - A European Journal, 2014, 20, 15208-15215.	3.3	27
51	Fucosylation of triethyleneglycol-based acceptors into â€˜clickableâ€™ Î±-fucosides. Carbohydrate Research, 2014, 395, 15-18.	2.3	10
52	Synthesis of a Novel UDP-carbasugar as UDP-galactopyranose Mutase Inhibitor. Organic Letters, 2014, 16, 2462-2465.	4.6	25
53	Tetrafluorination of Sugars as Strategy for Enhancing Proteinâ€“Carbohydrate Affinity: Application to UDPâ€Galp Mutase Inhibition. Chemistry - A European Journal, 2014, 20, 106-112.	3.3	64
54	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

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55	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
56	Multivalent glycoconjugates as anti-pathogenic agents. Chemical Society Reviews, 2013, 42, 4709-4727.	38.1	464
57	A mannosylated pillar[5]arene derivative: chiral information transfer and antiadhesive properties against uropathogenic bacteria. Tetrahedron Letters, 2013, 54, 2398-2402.	1.4	73
58	A Novel Baseâ€Induced Isomerization Gives Access to Unprecedented (E)â€exoâ€Glycals. Chemistry - A European Journal, 2013, 19, 11547-11552.	3.3	11
59	First steps towards conformationally selective artificial lectins: the chair-boat discrimination by molecularly imprinted polymers. Chemical Communications, 2012, 48, 10684.	4.1	7
60	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
61	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
62	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
63	The functional valency of dodecamannosylated fullerenes with Escherichia coli FimHâ€"towards novel bacterial antiadhesives. Chemical Communications, 2011, 47, 1321-1323.	4.1	132
64	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
65	Fullerene sugar balls. Chemical Communications, 2010, 46, 3860.	4.1	169
66	Synthesis of Three Câ€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
67	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
68	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
69	Synthesis of galactosides locked in a 1,4B boat conformation and functionalized at the anomeric position. Tetrahedron, 2007, 63, 2070-2077.	1.9	13
70	Synthesis of acyclic galactitol- and lyxitol-aminophosphonates as inhibitors of UDP-galactopyranose mutase. Tetrahedron Letters, 2007, 48, 4353-4356.	1.4	48
71	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
72	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

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73	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
74	Selectfluor: Mechanistic Insight and Applications. Angewandte Chemie - International Edition, 2005, 44, 192-212.	13.8	536
75	Efficient synthesis of a nucleoside-diphospho-exo-glycal displaying time-dependent inactivation of UDP-galactopyranose mutase. Chemical Communications, 2004, , 1216-1217.	4.1	41
76	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
77	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
78	Chemo-enzymatic synthesis of fluorinated sugar nucleotide: useful mechanistic Probes for glycosyltransferases. Bioorganic and Medicinal Chemistry, 2000, 8, 1937-1946.	3.0	120
79	Asymmetric Strecker Synthesis of C-Glycopeptide. Journal of Organic Chemistry, 2000, 65, 4440-4443.	3.2	37
80	An efficient synthesis of CMP-3-fluoroneuraminic acid. Chemical Communications, 1999, , 1525-1526.	4.1	47
81	Electrophilic Fluorinationâ^'Nucleophilic Addition Reaction Mediated by Selectfluor: Mechanistic Studies and New Applications. Journal of Organic Chemistry, 1999, 64, 5264-5279.	3.2	156
82	Copillar[5]arene Chemistry: Synthesis and Applications. Synthesis, 0, , .	2.3	1