

Christopher D Vanderwal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1061720/publications.pdf>

Version: 2024-02-01

78
papers

3,213
citations

136950

32
h-index

168389

53
g-index

90
all docs

90
docs citations

90
times ranked

2817
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereoselective Halogenation in Natural Product Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4396-4434.	13.8	220
2	Site-Selective Aliphatic C-H Chlorination Using <i>N</i> -Chloroamides Enables a Synthesis of Chlorolissoclimide. <i>Journal of the American Chemical Society</i> , 2016, 138, 696-702.	13.7	218
3	An Enantioselective Synthesis of FR182877 Provides a Chemical Rationalization of Its Structure and Affords Multigram Quantities of Its Direct Precursor. <i>Journal of the American Chemical Society</i> , 2003, 125, 5393-5407.	13.7	141
4	Cyclostreptin binds covalently to microtubule pores and luminal taxoid binding sites. , 2007, 3, 117-125.		130
5	Efficient Access to the Core of the <i>Strychnos</i> , <i>Aspidosperma</i> and <i>Iboga</i> Alkaloids. A Short Synthesis of Norfluorocurarine. <i>Journal of the American Chemical Society</i> , 2009, 131, 3472-3473.	13.7	108
6	A synthesis of strychnine by a longest linear sequence of six steps. <i>Chemical Science</i> , 2011, 2, 649.	7.4	100
7	Stereoselective Dichlorination of Allylic Alcohol Derivatives to Access Key Stereochemical Arrays of the Chlorosulfolipids. <i>Journal of the American Chemical Society</i> , 2008, 130, 12514-12518.	13.7	95
8	Relative Stereochemistry Determination and Synthesis of the Major Chlorosulfolipid from <i>Ochromonas danica</i> . <i>Journal of the American Chemical Society</i> , 2009, 131, 7570-7572.	13.7	92
9	Syntheses of Strychnine, Norfluorocurarine, Dehydrodesacetylretuline, and Valparicine Enabled by Intramolecular Cycloadditions of Zincke Aldehydes. <i>Journal of Organic Chemistry</i> , 2012, 77, 17-46.	3.2	90
10	Unraveling the Mechanism of Cascade Reactions of Zincke Aldehydes. <i>Journal of the American Chemical Society</i> , 2011, 133, 3895-3905.	13.7	88
11	Chlorosulfolipids: Structure, synthesis, and biological relevance. <i>Natural Product Reports</i> , 2011, 28, 15-25.	10.3	83
12	A Concise Enantioselective Synthesis of the Chlorosulfolipid Malhamensilipin A. <i>Journal of the American Chemical Society</i> , 2010, 132, 2542-2543.	13.7	76
13	Reactivity and Synthesis Inspired by the Zincke Ring-Opening of Pyridines. <i>Journal of Organic Chemistry</i> , 2011, 76, 9555-9567.	3.2	71
14	Synthesis of Nitrogen Heterocycles by the Ring Opening of Pyridinium Salts. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7803-7806.	13.8	68
15	Stereocontrolled Synthesis of <i>Z</i> -Dienes via an Unexpected Pericyclic Cascade Rearrangement of 5-Amino-2,4-pentadienals. <i>Journal of the American Chemical Society</i> , 2008, 130, 7560-7561.	13.7	61
16	Approaches to the Chemical Synthesis of the Chlorosulfolipids. <i>Accounts of Chemical Research</i> , 2014, 47, 718-728.	15.6	60
17	A Synthesis of Alsmaphorazine B Demonstrates the Chemical Feasibility of a New Biogenetic Hypothesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 7306-7309.	13.7	59
18	A Synthesis of the Chlorosulfolipid Mytilipin A via a Longest Linear Sequence of Seven Steps. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10052-10055.	13.8	57

#	ARTICLE	IF	CITATIONS
19	General Approach to the Synthesis of the Chlorosulfolipids Danicalipin A, Mytilipin A, and Malhamensilipin A in Enantioenriched Form. <i>Journal of Organic Chemistry</i> , 2014, 79, 2226-2241.	3.2	57
20	Cyclostreptin (FR182877), an Antitumor Tubulin-Polymerizing Agent Deficient in Enhancing Tubulin Assembly Despite Its High Affinity for the Taxoid Site. <i>Biochemistry</i> , 2005, 44, 11525-11538.	2.5	55
21	Stereoselektive Halogenierungen in der Naturstoffsynthese. <i>Angewandte Chemie</i> , 2016, 128, 4470-4510.	2.0	54
22	Intramolecular Allenolate Acylations in Studies toward a Synthesis of FR182877. <i>Organic Letters</i> , 2001, 3, 4307-4310.	4.6	51
23	Synthesis of β -Tributylstannyl- α,β,γ -Unsaturated Aldehydes from Pyridines. <i>Organic Letters</i> , 2008, 10, 4787-4790.	4.6	51
24	Studies on the Himbert Intramolecular Arene/Allene Diels-Alder Cycloaddition. Mechanistic Studies and Expansion of Scope to All-Carbon Tethers. <i>Journal of the American Chemical Society</i> , 2013, 135, 7339-7348.	13.7	47
25	Complex Polycyclic Lactams from Pericyclic Cascade Reactions of Zincke Aldehydes. <i>Journal of the American Chemical Society</i> , 2009, 131, 7546-7547.	13.7	45
26	Ring-Closing Metathesis of Allylsilanes As a Flexible Strategy toward Cyclic Terpenes. Short Syntheses of Teucladiol, Isoteucladiol, Poitediol, and Dactylol and an Attempted Synthesis of Caryophyllene. <i>Journal of Organic Chemistry</i> , 2010, 75, 6908-6922.	3.2	45
27	Synthesis and Potent Antimalarial Activity of Kalihinol B. <i>Journal of the American Chemical Society</i> , 2015, 137, 4912-4915.	13.7	42
28	Structure Revision and Absolute Configuration of Malhamensilipin A from the Freshwater Chrysophyte <i>Poterioochromonas malhamensis</i> . <i>Journal of Natural Products</i> , 2010, 73, 279-283.	3.0	41
29	Complex Polycyclic Scaffolds by Metathesis Rearrangement of Himbert Arene/Allene Cycloadducts. <i>Organic Letters</i> , 2012, 14, 5566-5569.	4.6	40
30	Cobalt-Catalyzed Hydrogen-Atom Transfer Induces Bicyclizations that Tolerate Electron-Rich and Electron-Deficient Intermediate Alkenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6115-6121.	13.8	40
31	A Direct Synthesis of Highly Substituted β -Rich Aromatic Heterocycles from Oxetanes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10525-10529.	13.8	37
32	Synthesis facilitates an understanding of the structural basis for translation inhibition by the lissoclimides. <i>Nature Chemistry</i> , 2017, 9, 1140-1149.	13.6	36
33	Ring-Closing Metathesis of Allylsilanes/Electrophilic Desilylation To Prepare <i>exo</i> -Methylidenecycloalkanes. Short Syntheses of Teucladiol and Poitediol. <i>Journal of the American Chemical Society</i> , 2009, 131, 15090-15091.	13.7	35
34	Stereocontrolled Radical Bicyclizations of Oxygenated Precursors Enable Short Syntheses of Oxidized Abietane Diterpenoids. <i>Journal of the American Chemical Society</i> , 2021, 143, 2944-2952.	13.7	35
35	A Synthesis of Echinopine...B. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7572-7576.	13.8	34
36	Enantioselective Divergent Syntheses of Several Polyhalogenated <i>Plocamium</i> Monoterpenes and Evaluation of Their Selectivity for Solid Tumors. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12205-12209.	13.8	32

#	ARTICLE	IF	CITATIONS
37	Mitochondrial Lon is over-expressed in high-grade gliomas, and mediates hypoxic adaptation: potential role of Lon as a therapeutic target in glioma. <i>Oncotarget</i> , 2016, 7, 77457-77467.	1.8	31
38	A Failed Late-Stage Epimerization Thwarts an Approach to Ineleganolide. <i>Journal of Organic Chemistry</i> , 2016, 81, 1819-1838.	3.2	29
39	Concise Formal Synthesis of Porothramycins A and B via Zincke Pyridinium Ring-Opening/Ring-Closing Cascade. <i>Organic Letters</i> , 2010, 12, 3093-3095.	4.6	28
40	Concise Synthesis of (â~)â€Nakadomarinâ€...A. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2830-2832.	13.8	25
41	Antimalarial Properties of Simplified Kalihinol Analogues. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 355-360.	2.8	25
42	Catalyst-Controlled Stereoselective Synthesis Secures the Structure of the Antimalarial Isocyanoterpene Pustulosaisonitrile-1. <i>Journal of Organic Chemistry</i> , 2017, 82, 13313-13323.	3.2	25
43	Crystal Structure of the Cyclostreptin-Tubulin Adduct: Implications for Tubulin Activation by Taxane-Site Ligands. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1392.	4.1	24
44	Dopaminergic Control of Striatal Cholinergic Interneurons Underlies Cocaine-Induced Psychostimulation. <i>Cell Reports</i> , 2020, 31, 107527.	6.4	23
45	Absorption spectra and aqueous photochemistry of Î²-hydroxyalkyl nitrates of atmospheric interest. <i>Molecular Physics</i> , 2015, 113, 2179-2190.	1.7	22
46	A sequential cycloaddition strategy for the synthesis of Alsmaphorazine B traces a path through a family of Alstonia alkaloids. <i>Tetrahedron</i> , 2017, 73, 4160-4171.	1.9	22
47	A Formal Enantiospecific Synthesis of 7,20â€Diisocyanoadociane. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7180-7183.	13.8	21
48	An Oxetane-Based Polyketide Surrogate To Probe Substrate Binding in a Polyketide Synthase. <i>Journal of the American Chemical Society</i> , 2018, 140, 4961-4964.	13.7	21
49	Investigations into an Anionic Oxy-Cope/Transannular Conjugate Addition Approach to 7,20-Diisocyanoadociane. <i>Organic Letters</i> , 2014, 16, 4368-4371.	4.6	18
50	Cyclostreptin Derivatives Specifically Target Cellular Tubulin and Further Map the Paclitaxel Site. <i>Biochemistry</i> , 2012, 51, 329-341.	2.5	17
51	Synthesis of the Tetracyclic Core of Exiguaquinol. <i>Organic Letters</i> , 2013, 15, 6014-6017.	4.6	16
52	A Synthesis of the ABC Tricyclic Core of the Clionastatins Serves To Corroborate Their Proposed Structures. <i>Organic Letters</i> , 2014, 16, 1458-1461.	4.6	16
53	Computational and Experimental Investigations of the Formal Dyotropic Rearrangements of Himbert Arene/Allene Cycloadducts. <i>Journal of the American Chemical Society</i> , 2015, 137, 6956-6964.	13.7	16
54	A Novel Polyhalogenated Monoterpene Induces Cell Cycle Arrest and Apoptosis in Breast Cancer Cells. <i>Marine Drugs</i> , 2019, 17, 437.	4.6	15

#	ARTICLE	IF	CITATIONS
55	Identification of Adenosine-to-Inosine RNA Editing with Acrylonitrile Reagents. <i>Organic Letters</i> , 2019, 21, 7948-7951.	4.6	15
56	A Chlorine-Atom-Controlled Terminal-Epoxy-Initiated Bicyclization Cascade Enables a Synthesis of the Potent Cytotoxins Haterumaimides J and K. <i>Journal of the American Chemical Society</i> , 2019, 141, 9202-9206.	13.7	15
57	A Zincke aldehyde approach to gelsemine. <i>Tetrahedron Letters</i> , 2015, 56, 3165-3168.	1.4	14
58	The Alga <i>Ochromonas danica</i> Produces Bromosulfolipids. <i>Organic Letters</i> , 2016, 18, 1124-1127.	4.6	13
59	Concise Synthesis of the Antiplasmodial Isocyanoterpene 7,20-Diisocyanoadociane. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13749-13752.	13.8	12
60	Strategies for the Synthesis of the Halenaquinol and Xestoquinol Families of Natural Products. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1567-1577.	2.4	11
61	A Direct Synthesis of Highly Substituted β -Rich Aromatic Heterocycles from Oxetanes. <i>Angewandte Chemie</i> , 2017, 129, 10661-10665.	2.0	11
62	A Formal Enantiospecific Synthesis of 7,20-Diisocyanoadociane. <i>Angewandte Chemie</i> , 2016, 128, 7296-7299.	2.0	9
63	Hughes and Gleason's Virosaine: Appreciating the Art in Synthesis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13940-13942.	13.8	9
64	Stereocontrolled Synthesis and Structural Revision of Plebeianiol A. <i>Organic Letters</i> , 2021, 23, 9569-9573.	4.6	9
65	General Approaches to Structurally Diverse Isocyanoditerpenes. <i>Journal of Organic Chemistry</i> , 2017, 82, 4533-4541.	3.2	8
66	Introduction: Natural Product Synthesis. <i>Chemical Reviews</i> , 2017, 117, 11649-11650.	47.7	7
67	Efforts Toward a Synthesis of Crotoougoudin and Crotoobarin. <i>Synlett</i> , 2017, 28, 1758-1762.	1.8	7
68	Concise Formal Synthesis of the Pseudopterosins via Anionic Oxy-Cope/Transannular Michael Addition Cascade. <i>Organic Letters</i> , 2020, 22, 2883-2886.	4.6	7
69	Cobalt-Catalyzed Hydrogen-Atom Transfer Induces Bicyclizations that Tolerate Electron-Rich and Electron-Deficient Intermediate Alkenes. <i>Angewandte Chemie</i> , 2020, 132, 6171-6177.	2.0	7
70	A Synthesis of Exiguaquinol Dessulfate. <i>Chemistry - A European Journal</i> , 2016, 22, 17953-17957.	3.3	5
71	Chlorine lends a helping hand. <i>Nature</i> , 2009, 457, 548-549.	27.8	3
72	The Recurring Roles of Chlorine in Synthetic and Biological Studies of the Lissoclimides. <i>Accounts of Chemical Research</i> , 2021, 54, 1131-1142.	15.6	3

#	ARTICLE	IF	CITATIONS
73	Synthetic strategies for mining the information-rich content of natural products for biology and medicine. <i>Natural Product Reports</i> , 2020, 37, 1393-1394.	10.3	2
74	A Short Synthesis of Strychnine from Pyridine. , 2012, , 67-102.		1
75	Evolution of a Short and Stereocontrolled Synthesis of (+)-7,20-Diisocyanoadociane. <i>Journal of Organic Chemistry</i> , 2022, 87, 1398-1420.	3.2	1
76	Soft Enolization of 3-Substituted Cycloalkanones Exhibits Significantly Improved Regiocontrol vs Hard Enolization Conditions. <i>Organic Letters</i> , 2021, 23, 9616-9619.	4.6	1
77	Virosainâ€¦A nach Hughes und Gleason â€œ die Kunst der Synthese. <i>Angewandte Chemie</i> , 2017, 129, 14128-14130.	2.0	0
78	Concise Synthesis of the Antiplasmodial Isocyanoterpene 7,20â€œDiisocyanoadociane. <i>Angewandte Chemie</i> , 2019, 131, 13887-13890.	2.0	0