Seth B Herzon

List of Publications by Year
in descending order

83	2,859	126708	197535
papers	citations	33 h-index	49 g-index

99	99	99	2465
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FragmentverknÃ¼pfungen in der Totalsynthese â€“ Bildung von Câ€Câ€Bindungen Ã¼ber intermediÃre Carbanionen oder freie Radikale. Angewandte Chemie, 2021, 133, 1132-1167.	1.6	5
2	Fragment Coupling Reactions in Total Synthesis That Form Carbonâ€“Carbon Bonds via Carbanionic or Free Radical Intermediates. Angewandte Chemie - International Edition, 2021, 60, 1116-1150.	7.2	32
3	Synthesis and Biological Evaluation of (2S,2â€²S)-Lomaiviticin A. Journal of the American Chemical Society, 2021, 143, 1126-1132.	6.6	8
4	Enantioselective Synthesis of Euonyminol. Journal of the American Chemical Society, 2021, 143, 699-704.	6.6	15
5	General Method for the Synthesis of Î±- or Î²-Deoxyaminoglycosides Bearing Basic Nitrogen. Journal of the American Chemical Society, 2021, 143, 2777-2783.	6.6	20
6	Metric-Based Analysis of Convergence in Complex Molecule Synthesis. Accounts of Chemical Research, 2021, 54, 903-916.	7.6	10
7	Structure Revision of the Lomaiviticins. Journal of the American Chemical Society, 2021, 143, 6578-6585.	6.6	36
8	On the Stability and Spectroscopic Properties of 5-Hydroxyoxazole-4-carboxylic Acid Derivatives. Organic Letters, 2021, 23, 5457-5460.	2.4	2
9	Natural Products: An Era of Discovery in Organic Chemistry. Journal of Organic Chemistry, 2021, 86, 10943-10945.	1.7	3
10	Probing Microbiome Genotoxicity: A Stable Colibactin Provides Insight into Structureâ€“Activity Relationships and Facilitates Mechanism of Action Studies. Journal of the American Chemical Society, 2021, 143, 15824-15833.	6.6	8
11	Chemoproteomic Profiling by Cysteine Fluoroalkylation Reveals Myrocin G as an Inhibitor of the Nonhomologous End Joining DNA Repair Pathway. Journal of the American Chemical Society, 2021, 143, 20332-20342.	6.6	22
12	Development of an Enantioselective Synthesis of (â^')-Euonyminol. Journal of Organic Chemistry, 2021, 86, 17011-17035.	1.7	6
13	Employing chemical synthesis to study the structure and function of colibactin, a â€œdark matterâ€• metabolite. Natural Product Reports, 2020, 37, 1532-1548.	5.2	12
14	Macrocyclic colibactins. Nature Chemistry, 2020, 12, 1005-1006.	6.6	6
15	Structure and bioactivity of colibactin. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127280.	1.0	44
16	New Leads for the Treatment of Multidrug Resistant Mycobacterium tuberculosis. ACS Central Science, 2020, 6, 833-835.	5.3	3
17	Development of a Convergent Enantioselective Synthetic Route to (â^')-Myrocin G. Journal of Organic Chemistry, 2020, 85, 8952-8989.	1.7	5
18	Synthesis of the bis(cyclohexenone) core of (â^')-lomaiviticin A. Chemical Science, 2020, 11, 7462-7467.	3.7	6

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19	Depurination of Colibactin-Derived Interstrand Cross-Links. Biochemistry, 2020, 59, 892-900.	1.2	25
20	Synthesis of (â€“)-Myrocin G via a Cascade Coupling. Trends in Chemistry, 2020, 2, 776-777.	4.4	0
21	Antibacterial properties and clinical potential of pleuromutilins. Natural Product Reports, 2019, 36, 220-247.	5.2	64
22	Structure elucidation of colibactin and its DNA cross-links. Science, 2019, 365, .	6.0	158
23	Synthesis and reactivity of precolibactin 886. Nature Chemistry, 2019, 11, 890-898.	6.6	31
24	Programmable Synthesis of 2-Deoxyglycosides. Journal of the American Chemical Society, 2019, 141, 8098-8103.	6.6	51
25	A convergent approach to batzelladine alkaloids. Total syntheses of (+)-batzelladine E, (â^')-dehydrobatzelladine C, and (+)-batzelladine K. Tetrahedron, 2018, 74, 3188-3197.	1.0	11
26	Directed Câ€“H Bond Oxidation of (+)-Pleuromutilin. Journal of Organic Chemistry, 2018, 83, 6843-6892.	1.7	23
27	DNA Repair: Unconventional Lesions Require Unconventional Repair. Biochemistry, 2018, 57, 1057-1058.	1.2	0
28	Synthesis of Myrocin G, the Putative Active Form of the Myrocin Antitumor Antibiotics. Journal of the American Chemical Society, 2018, 140, 16058-16061.	6.6	16
29	Model Colibactins Exhibit Human Cell Genotoxicity in the Absence of Host Bacteria. ACS Chemical Biology, 2018, 13, 3286-3293.	1.6	23
30	Cobalt bis(acetylacetonate)â€“tert-butyl hydroperoxideâ€“triethylsilane: a general reagent combination for the Markovnikov-selective hydrofunctionalization of alkenes by hydrogen atom transfer. Beilstein Journal of Organic Chemistry, 2018, 14, 2259-2265.	1.3	16
31	Characterization of Natural Colibactinâ€“Nucleobase Adducts by Tandem Mass Spectrometry and Isotopic Labeling. Support for DNA Alkylation by Cyclopropane Ring Opening. Biochemistry, 2018, 57, 6391-6394.	1.2	39
32	Emergent Properties of Natural Products. Synlett, 2018, 29, 1823-1835.	1.0	3
33	Domain-Targeted Metabolomics Delineates the Heterocycle Assembly Steps of Colibactin Biosynthesis. Journal of the American Chemical Society, 2017, 139, 4195-4201.	6.6	48
34	A complex stereochemical relay approach to the antimalarial alkaloid ocimicide A₁. Evidence for a structural revision. Chemical Science, 2017, 8, 4867-4871.	3.7	3
35	A modular and enantioselective synthesis of the pleuromutilin antibiotics. Science, 2017, 356, 956-959.	6.0	57
36	Hydroheteroarylation of Unactivated Alkenes Using N-Methoxyheteroarenium Salts. Journal of the American Chemical Society, 2017, 139, 5998-6007.	6.6	133

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37	Molecular Basis of Gut Microbiome-Associated Colorectal Cancer: AÂSynthetic Perspective. Journal of the American Chemical Society, 2017, 139, 14817-14824.	6.6	39
38	The Mechanism of Action of (â˜')-Lomaiviticin A. Accounts of Chemical Research, 2017, 50, 2577-2588.	7.6	20
39	Introduction: Natural Product Synthesis. Chemical Reviews, 2017, 117, 11649-11650.	23.0	7
40	Development of a Modular Synthetic Route to (+)-Pleuromutilin, (+)-12-epi-Mutilins, and Related Structures. Journal of the American Chemical Society, 2017, 139, 16377-16388.	6.6	46
41	Structure and Functional Analysis of ClbQ, an Unusual Intermediate-Releasing Thioesterase from the Colibactin Biosynthetic Pathway. ACS Chemical Biology, 2017, 12, 2598-2608.	1.6	32
42	Scalable Synthesis of a Key Intermediate for the Production of Pleuromutilin-Based Antibiotics. Organic Letters, 2017, 19, 4980-4983.	2.4	10
43	ClbS Is a Cyclopropane Hydrolase That Confers Colibactin Resistance. Journal of the American Chemical Society, 2017, 139, 17719-17722.	6.6	52
44	Intermolecular Hydropyridylation of Unactivated Alkenes. Journal of the American Chemical Society, 2016, 138, 8718-8721.	6.6	153
45	Convergent and Modular Synthesis of Candidate Precolibactins. Structural Revision of Precolibactin A. Journal of the American Chemical Society, 2016, 138, 5426-5432.	6.6	49
46	Synthesis of Ketones and Esters from Heteroatom-Functionalized Alkenes by Cobalt-Mediated Hydrogen Atom Transfer. Journal of Organic Chemistry, 2016, 81, 8673-8695.	1.7	37
47	Stereoselective Multicomponent Reactions Using Zincate Nucleophiles: Î²-Dicarbonyl Synthesis and Functionalization. Organic Letters, 2016, 18, 4880-4883.	2.4	12
48	A Mechanistic Model for Colibactin-Induced Genotoxicity. Journal of the American Chemical Society, 2016, 138, 15563-15570.	6.6	66
49	Mechanism of Nucleophilic Activation of (â˜')-Lomaiviticin A. Journal of the American Chemical Society, 2016, 138, 15559-15562.	6.6	12
50	Synergistic potentiation of (â˜')-lomaiviticin A cytotoxicity by the ATR inhibitor VE-821. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3122-3126.	1.0	4
51	Structural basis for DNA cleavage by the potent antiproliferative agent (â€“)-lomaiviticin A. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2851-2856.	3.3	29
52	Characterization of Cardiac Glycoside Natural Products as Potent Inhibitors of DNA Double-Strand Break Repair by a Whole-Cell Double Immunofluorescence Assay. Journal of the American Chemical Society, 2016, 138, 3844-3855.	6.6	43
53	Synthesis of 1,3-Amino Alcohols, 1,3-Diols, Amines, and Carboxylic Acids from Terminal Alkynes. Journal of Organic Chemistry, 2015, 80, 8604-8618.	1.7	28
54	Mechanism of Action Studies of Lomaiviticin A and the Monomeric Lomaiviticin Aglycon. Selective and Potent Activity Toward DNA Double-Strand Break Repair-Deficient Cell Lines. Journal of the American Chemical Society, 2015, 137, 5741-5747.	6.6	17

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55	Multigram synthesis of 1- O -acetyl-3- O -(4-methoxybenzyl)-4- N -(9-fluorenylmethoxycarbonyl)-4- N -methyl- l -pyrrolosamine. Tetrahedron Letters, 2015, 56, 3231-3234.	0.7	1
56	The Discovery of a Novel Route to Highly Substituted Î±-Tropolones Enables Expedient Entry to the Core of the Gukulenins. Organic Letters, 2015, 17, 2030-2033.	2.4	24
57	Non-classical selectivities in the reduction of alkenes by cobalt-mediated hydrogen atom transfer. Chemical Science, 2015, 6, 6250-6255.	3.7	74
58	A concise synthesis of (+)-batzelladine B from simple pyrrole-based starting materials. Nature, 2015, 525, 507-510.	13.7	54
59	The Hasubanan and Acutumine Alkaloids. The Alkaloids Chemistry and Biology, 2014, 73, 161-222.	0.8	18
60	Analysis of Diazofluorene DNA Binding and Damaging Activity: DNA Cleavage by a Synthetic Monomeric Diazofluorene. Angewandte Chemie - International Edition, 2014, 53, 9325-9328.	7.2	22
61	The cytotoxicity of (â˜)-lomaiviticin A arises from induction of double-strand breaks in DNA. Nature Chemistry, 2014, 6, 504-510.	6.6	73
62	Scope and Limitations of 2-Deoxy- and 2,6-Dideoxyglycosyl Bromides as Donors for the Synthesis of Î²-2-Deoxy- and Î²-2,6-Dideoxyglycosides. Organic Letters, 2014, 16, 2776-2779.	2.4	53
63	Temporal separation of catalytic activities allows anti-Markovnikov reductive functionalization of terminal alkynes. Nature Chemistry, 2014, 6, 22-27.	6.6	51
64	Substrate-Modified Functional Group Reactivity: Hasubanan and Acutumine Alkaloid Syntheses. Journal of Organic Chemistry, 2014, 79, 8937-8947.	1.7	18
65	Broadâ€Spectrum Catalysts for the Ambient Temperature Antiâ€Markovnikov Hydration of Alkynes. Angewandte Chemie - International Edition, 2014, 53, 7892-7895.	7.2	50
66	A Method for the Selective Hydrogenation of Alkenyl Halides to Alkyl Halides. Journal of the American Chemical Society, 2014, 136, 6884-6887.	6.6	134
67	A practical method for regiocontrolled one-carbon ring contraction. Tetrahedron, 2013, 69, 5634-5639.	1.0	6
68	Development of Enantioselective Synthetic Routes to the Hasubanan and Acutumine Alkaloids. Journal of Organic Chemistry, 2013, 78, 10031-10057.	1.7	44
69	Total Syntheses of (â˜)â€Acutumine and (â˜)â€Dechloroacutumine. Angewandte Chemie - International Edition, 2013, 52, 3642-3645.	7.2	61
70	Direct Synthesis of Î²â€Nâ€Glycosides by the Reductive Glycosylation of Azides with Protected and Native Carbohydrate Donors. Angewandte Chemie - International Edition, 2013, 52, 6068-6071.	7.2	17
71	Characterization of a reductively-activated elimination pathway relevant to the biological chemistry of the kinamycins and lomaiviticins. Chemical Science, 2012, 3, 1070-1074.	3.7	16
72	The diazofluorene antitumor antibiotics: Structural elucidation, biosynthetic, synthetic, and chemical biological studies. Natural Product Reports, 2012, 29, 87-118.	5.2	70

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73	Isolation of Lomaiviticins Câ€“E, Transformation of Lomaiviticin C to Lomaiviticin A, Complete Structure Elucidation of Lomaiviticin A, and Structureâ€“Activity Analyses. Journal of the American Chemical Society, 2012, 134, 15285-15288.	6.6	63
74	Synthesis of (R)-(+)-4-Methylcyclohex-2-ene-1-one. Journal of Organic Chemistry, 2012, 77, 9422-9425.	1.7	5
75	The Kinamycins. , 2012, , 39-65.		7
76	Development of Enantioselective Synthetic Routes to (â^')-Kinamycin F and (â^')-Lomaiviticin Aglycon. Journal of the American Chemical Society, 2012, 134, 17262-17273.	6.6	37
77	A robust and scalable synthesis of the potent neuroprotective agent (â^')-huperzine A. Chemical Science, 2011, 2, 2251.	3.7	51
78	11-Step Enantioselective Synthesis of (â^')-Lomaiviticin Aglycon. Journal of the American Chemical Society, 2011, 133, 7260-7263.	6.6	68
79	Efficient Entry to the Hasubanan Alkaloids: First Enantioselective Total Syntheses of (â^')â€Hasubanonine, (â^')â€Runanine, (â^')â€Delavayine, and (+)â€Periglaucineâ€¦B. Angewandte Chemie - International Edition, 2011, 50, 8863-8866.	7.1	60
80	Cover Picture: Efficient Entry to the Hasubanan Alkaloids: First Enantioselective Total Syntheses of (â^')â€Hasubanonine, (â^')â€Runanine, (â^')â€Delavayine, and (+)â€Periglaucineâ€¦B (Angew. Chem. Int. Ed. 38/2011). Angewandte Chemie - International Edition, 2011, 50, 8761-8761.		0
81	Single-Step Synthesis of Secondary Phosphine Oxides. Organometallics, 2010, 29, 4193-4195.	1.1	22
82	Development of a Convergent Entry to the Diazofluorene Antitumor Antibiotics: Enantioselective Synthesis of Kinamycin F. Journal of the American Chemical Society, 2010, 132, 2540-2541.	6.6	46
83	Synthesis of the Fully Glycosylated Cyclohexenone Core of Lomaiviticin A. Organic Letters, 2009, 11, 4322-4325.	2.4	39