

# Seth B Herzon

## List of Publications by Year in descending order

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83  
papers

2,859  
citations

126708

33  
h-index

197535

49  
g-index

99  
all docs

99  
docs citations

99  
times ranked

2465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure elucidation of colibactin and its DNA cross-links. <i>Science</i> , 2019, 365, .	6.0	158
2	Intermolecular Hydropyridylation of Unactivated Alkenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 8718-8721.	6.6	153
3	A Method for the Selective Hydrogenation of Alkenyl Halides to Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2014, 136, 6884-6887.	6.6	134
4	Hydroheteroarylation of Unactivated Alkenes Using <i>N</i> -Methoxyheteroarenium Salts. <i>Journal of the American Chemical Society</i> , 2017, 139, 5998-6007.	6.6	133
5	Non-classical selectivities in the reduction of alkenes by cobalt-mediated hydrogen atom transfer. <i>Chemical Science</i> , 2015, 6, 6250-6255.	3.7	74
6	The cytotoxicity of (âˆ“)lomaiviticin A arises from induction of double-strand breaks in DNA. <i>Nature Chemistry</i> , 2014, 6, 504-510.	6.6	73
7	The diazofluorene antitumor antibiotics: Structural elucidation, biosynthetic, synthetic, and chemical biological studies. <i>Natural Product Reports</i> , 2012, 29, 87-118.	5.2	70
8	11-Step Enantioselective Synthesis of (âˆ“)-Lomaiviticin Aglycon. <i>Journal of the American Chemical Society</i> , 2011, 133, 7260-7263.	6.6	68
9	A Mechanistic Model for Colibactin-Induced Genotoxicity. <i>Journal of the American Chemical Society</i> , 2016, 138, 15563-15570.	6.6	66
10	Antibacterial properties and clinical potential of pleuromutilins. <i>Natural Product Reports</i> , 2019, 36, 220-247.	5.2	64
11	Isolation of Lomaiviticins Câ€“E, Transformation of Lomaiviticin C to Lomaiviticin A, Complete Structure Elucidation of Lomaiviticin A, and Structureâ€“Activity Analyses. <i>Journal of the American Chemical Society</i> , 2012, 134, 15285-15288.	6.6	63
12	Total Syntheses of (âˆ“)â€“acutumine and (âˆ“)â€“dechloroacutumine. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3642-3645.	7.2	61
13	Efficient Entry to the Hasubanan Alkaloids: First Enantioselective Total Syntheses of (âˆ“)â€“hasubanonine, (âˆ“)â€“runanine, (âˆ“)â€“delavayine, and (+)â€“periglaucineâ€“B. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8863-8866.		60
14	A modular and enantioselective synthesis of the pleuromutilin antibiotics. <i>Science</i> , 2017, 356, 956-959.	6.0	57
15	A concise synthesis of (+)-batzelladine B from simple pyrrole-based starting materials. <i>Nature</i> , 2015, 525, 507-510.	13.7	54
16	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. <i>Organic Letters</i> , 2014, 16, 2776-2779.	2.4	53
17	ClsS Is a Cyclopropane Hydrolase That Confers Colibactin Resistance. <i>Journal of the American Chemical Society</i> , 2017, 139, 17719-17722.	6.6	52
18	A robust and scalable synthesis of the potent neuroprotective agent (âˆ“)-huperzine A. <i>Chemical Science</i> , 2011, 2, 2251.	3.7	51

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19	Temporal separation of catalytic activities allows anti-Markovnikov reductive functionalization of terminal alkynes. <i>Nature Chemistry</i> , 2014, 6, 22-27.	6.6	51
20	Programmable Synthesis of 2-Deoxyglycosides. <i>Journal of the American Chemical Society</i> , 2019, 141, 8098-8103.	6.6	51
21	Broad-Spectrum Catalysts for the Ambient Temperature Anti-Markovnikov Hydration of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7892-7895.	7.2	50
22	Convergent and Modular Synthesis of Candidate Precolibactins. Structural Revision of Precolibactin A. <i>Journal of the American Chemical Society</i> , 2016, 138, 5426-5432.	6.6	49
23	Domain-Targeted Metabolomics Delineates the Heterocycle Assembly Steps of Colibactin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2017, 139, 4195-4201.	6.6	48
24	Development of a Convergent Entry to the Diazofluorene Antitumor Antibiotics: Enantioselective Synthesis of Kinamycin F. <i>Journal of the American Chemical Society</i> , 2010, 132, 2540-2541.	6.6	46
25	Development of a Modular Synthetic Route to (+)-Pleuromutilin, (+)-12- <i>epi</i> -Mutilins, and Related Structures. <i>Journal of the American Chemical Society</i> , 2017, 139, 16377-16388.	6.6	46
26	Development of Enantioselective Synthetic Routes to the Hasubanan and Acutumine Alkaloids. <i>Journal of Organic Chemistry</i> , 2013, 78, 10031-10057.	1.7	44
27	Structure and bioactivity of colibactin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127280.	1.0	44
28	Characterization of Cardiac Glycoside Natural Products as Potent Inhibitors of DNA Double-Strand Break Repair by a Whole-Cell Double Immunofluorescence Assay. <i>Journal of the American Chemical Society</i> , 2016, 138, 3844-3855.	6.6	43
29	Synthesis of the Fully Glycosylated Cyclohexenone Core of Lomaiviticin A. <i>Organic Letters</i> , 2009, 11, 4322-4325.	2.4	39
30	Molecular Basis of Gut Microbiome-Associated Colorectal Cancer: A Synthetic Perspective. <i>Journal of the American Chemical Society</i> , 2017, 139, 14817-14824.	6.6	39
31	Characterization of Natural Colibactin Nucleobase Adducts by Tandem Mass Spectrometry and Isotopic Labeling. Support for DNA Alkylation by Cyclopropane Ring Opening. <i>Biochemistry</i> , 2018, 57, 6391-6394.	1.2	39
32	Development of Enantioselective Synthetic Routes to (âˆ’)-Kinamycin F and (âˆ’)-Lomaiviticin Aglycon. <i>Journal of the American Chemical Society</i> , 2012, 134, 17262-17273.	6.6	37
33	Synthesis of Ketones and Esters from Heteroatom-Functionalized Alkenes by Cobalt-Mediated Hydrogen Atom Transfer. <i>Journal of Organic Chemistry</i> , 2016, 81, 8673-8695.	1.7	37
34	Structure Revision of the Lomaiviticins. <i>Journal of the American Chemical Society</i> , 2021, 143, 6578-6585.	6.6	36
35	Structure and Functional Analysis of ClbQ, an Unusual Intermediate-Releasing Thioesterase from the Colibactin Biosynthetic Pathway. <i>ACS Chemical Biology</i> , 2017, 12, 2598-2608.	1.6	32
36	Fragment Coupling Reactions in Total Synthesis That Form Carbon-Carbon Bonds via Carbanionic or Free Radical Intermediates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1116-1150.	7.2	32

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37	Synthesis and reactivity of precolibactin 886. <i>Nature Chemistry</i> , 2019, 11, 890-898.	6.6	31
38	Structural basis for DNA cleavage by the potent antiproliferative agent (â€“)-lomaiviticin A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2851-2856.	3.3	29
39	Synthesis of 1,3-Amino Alcohols, 1,3-Diols, Amines, and Carboxylic Acids from Terminal Alkynes. <i>Journal of Organic Chemistry</i> , 2015, 80, 8604-8618.	1.7	28
40	Depurination of Colibactin-Derived Interstrand Cross-Links. <i>Biochemistry</i> , 2020, 59, 892-900.	1.2	25
41	The Discovery of a Novel Route to Highly Substituted Î±-Tropolones Enables Expedient Entry to the Core of the Gukulenins. <i>Organic Letters</i> , 2015, 17, 2030-2033.	2.4	24
42	Directed Câ€“H Bond Oxidation of (+)-Pleuromutilin. <i>Journal of Organic Chemistry</i> , 2018, 83, 6843-6892.	1.7	23
43	Model Colibactins Exhibit Human Cell Genotoxicity in the Absence of Host Bacteria. <i>ACS Chemical Biology</i> , 2018, 13, 3286-3293.	1.6	23
44	Single-Step Synthesis of Secondary Phosphine Oxides. <i>Organometallics</i> , 2010, 29, 4193-4195.	1.1	22
45	Analysis of Diazofluorene DNA Binding and Damaging Activity: DNA Cleavage by a Synthetic Monomeric Diazofluorene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9325-9328.	7.2	22
46	Chemoproteomic Profiling by Cysteine Fluoroalkylation Reveals Myrocin G as an Inhibitor of the Nonhomologous End Joining DNA Repair Pathway. <i>Journal of the American Chemical Society</i> , 2021, 143, 20332-20342.	6.6	22
47	The Mechanism of Action of (â€“)-Lomaiviticin A. <i>Accounts of Chemical Research</i> , 2017, 50, 2577-2588.	7.6	20
48	General Method for the Synthesis of Î±- or Î²-Deoxyaminoglycosides Bearing Basic Nitrogen. <i>Journal of the American Chemical Society</i> , 2021, 143, 2777-2783.	6.6	20
49	The Hasubanan and Acutumine Alkaloids. <i>The Alkaloids Chemistry and Biology</i> , 2014, 73, 161-222.	0.8	18
50	Substrate-Modified Functional Group Reactivity: Hasubanan and Acutumine Alkaloid Syntheses. <i>Journal of Organic Chemistry</i> , 2014, 79, 8937-8947.	1.7	18
51	Direct Synthesis of Î±-N-Glycosides by the Reductive Glycosylation of Azides with Protected and Native Carbohydrate Donors. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6068-6071.	7.2	17
52	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. <i>Journal of the American Chemical Society</i> , 2015, 137, 5741-5747.	6.6	17
53	Characterization of a reductively-activated elimination pathway relevant to the biological chemistry of the kinamycins and lomaiviticins. <i>Chemical Science</i> , 2012, 3, 1070-1074.	3.7	16
54	Synthesis of Myrocin G, the Putative Active Form of the Myrocin Antitumor Antibiotics. <i>Journal of the American Chemical Society</i> , 2018, 140, 16058-16061.	6.6	16

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55	Cobalt bis(acetylacetonate)– <i>tert</i> -butyl hydroperoxide–triethylsilane: a general reagent combination for the Markovnikov-selective hydrofunctionalization of alkenes by hydrogen atom transfer. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2259-2265.	1.3	16
56	Enantioselective Synthesis of Euonyminol. <i>Journal of the American Chemical Society</i> , 2021, 143, 699-704.	6.6	15
57	Stereoselective Multicomponent Reactions Using Zincate Nucleophiles: $\hat{1}^2$ -Dicarbonyl Synthesis and Functionalization. <i>Organic Letters</i> , 2016, 18, 4880-4883.	2.4	12
58	Mechanism of Nucleophilic Activation of ( $\hat{a}$ )-Lomaiviticin A. <i>Journal of the American Chemical Society</i> , 2016, 138, 15559-15562.	6.6	12
59	Employing chemical synthesis to study the structure and function of colibactin, a “dark matter” metabolite. <i>Natural Product Reports</i> , 2020, 37, 1532-1548.	5.2	12
60	A convergent approach to batzelladine alkaloids. Total syntheses of (+)-batzelladine E, ( $\hat{a}$ )-dehydrobatzelladine C, and (+)-batzelladine K. <i>Tetrahedron</i> , 2018, 74, 3188-3197.	1.0	11
61	Scalable Synthesis of a Key Intermediate for the Production of Pleuromutilin-Based Antibiotics. <i>Organic Letters</i> , 2017, 19, 4980-4983.	2.4	10
62	Metric-Based Analysis of Convergence in Complex Molecule Synthesis. <i>Accounts of Chemical Research</i> , 2021, 54, 903-916.	7.6	10
63	Synthesis and Biological Evaluation of (2 <i>S</i> ,2 <i>â€²</i> <i>S</i> )-Lomaiviticin A. <i>Journal of the American Chemical Society</i> , 2021, 143, 1126-1132.	6.6	8
64	Probing Microbiome Genotoxicity: A Stable Colibactin Provides Insight into Structure–Activity Relationships and Facilitates Mechanism of Action Studies. <i>Journal of the American Chemical Society</i> , 2021, 143, 15824-15833.	6.6	8
65	The Kinamycins. , 2012, , 39-65.		7
66	Introduction: Natural Product Synthesis. <i>Chemical Reviews</i> , 2017, 117, 11649-11650.	23.0	7
67	A practical method for regiocontrolled one-carbon ring contraction. <i>Tetrahedron</i> , 2013, 69, 5634-5639.	1.0	6
68	Macrocyclic colibactins. <i>Nature Chemistry</i> , 2020, 12, 1005-1006.	6.6	6
69	Synthesis of the bis(cyclohexenone) core of ( $\hat{a}$ )-lomaiviticin A. <i>Chemical Science</i> , 2020, 11, 7462-7467.	3.7	6
70	Development of an Enantioselective Synthesis of ( $\hat{a}$ )-Euonyminol. <i>Journal of Organic Chemistry</i> , 2021, 86, 17011-17035.	1.7	6
71	Synthesis of ( <i>R</i> )-(+)-4-Methylcyclohex-2-ene-1-one. <i>Journal of Organic Chemistry</i> , 2012, 77, 9422-9425.	1.7	5
72	Development of a Convergent Enantioselective Synthetic Route to ( $\hat{a}$ )-Myrocin G. <i>Journal of Organic Chemistry</i> , 2020, 85, 8952-8989.	1.7	5

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73	Fragmentverknüpfungen in der Totalsynthese – Bildung von C–C-Bindungen über intermediäre Carbanionen oder freie Radikale. <i>Angewandte Chemie</i> , 2021, 133, 1132-1167.	1.6	5
74	Synergistic potentiation of (S)-lomaiviticin A cytotoxicity by the ATR inhibitor VE-821. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3122-3126.	1.0	4
75	A complex stereochemical relay approach to the antimalarial alkaloid ocimicidin. Evidence for a structural revision. <i>Chemical Science</i> , 2017, 8, 4867-4871.	3.7	3
76	Emergent Properties of Natural Products. <i>Synlett</i> , 2018, 29, 1823-1835.	1.0	3
77	New Leads for the Treatment of Multidrug Resistant <i>Mycobacterium tuberculosis</i> . <i>ACS Central Science</i> , 2020, 6, 833-835.	5.3	3
78	Natural Products: An Era of Discovery in Organic Chemistry. <i>Journal of Organic Chemistry</i> , 2021, 86, 10943-10945.	1.7	3
79	On the Stability and Spectroscopic Properties of 5-Hydroxyoxazole-4-carboxylic Acid Derivatives. <i>Organic Letters</i> , 2021, 23, 5457-5460.	2.4	2
80	Multigram synthesis of 1-O-acetyl-3-O-(4-methoxybenzyl)-4-N-(9-fluorenylmethoxycarbonyl)-4-N-methyl-1-pyrrolisamine. <i>Tetrahedron Letters</i> , 2015, 56, 3231-3234.	0.7	1
81	Cover Picture: Efficient Entry to the Hasubanan Alkaloids: First Enantioselective Total Syntheses of (S)-Hasubanone, (S)-Runanine, (S)-Delavayine, and (+)-Periglaucine...B ( <i>Angew. Chem. Int. Ed.</i> 38/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8761-8761.		0
82	DNA Repair: Unconventional Lesions Require Unconventional Repair. <i>Biochemistry</i> , 2018, 57, 1057-1058.	1.2	0
83	Synthesis of (S)-Myrocin G via a Cascade Coupling. <i>Trends in Chemistry</i> , 2020, 2, 776-777.	4.4	0