Eric W Schmidt

List of Publications by Year
in descending order

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128 papers	8,603 citations	44069 48 h-index	49909 87 g-index
138 all docs	138 docs citations	138 times ranked	6211 citing authors

#	Article	IF	Citations
1	Halogenated Metal-Binding Compounds from Shipworm Symbionts. Journal of Natural Products, 2022, 85, 479-484.	3.0	10
2	Control of Nucleophile Chemoselectivity in Cyanobactin YcaO Heterocyclases PatD and TruD. ACS Chemical Biology, 2022, 17, 1215-1225.	3.4	3
3	Catalysts for the Enzymatic Lipidation of Peptides. Accounts of Chemical Research, 2022, 55, 1313-1323.	15.6	14
4	Sea Urchin Polyketide Synthase SpPks1 Produces the Naphthalene Precursor to Echinoderm Pigments. Journal of the American Chemical Society, 2022, 144, 9363-9371.	13.7	8
5	Ancient defensive terpene biosynthetic gene clusters in the soft corals. Nature Chemical Biology, 2022, 18, 659-663.	8.0	33
6	A Silent Biosynthetic Gene Cluster from a Methanotrophic Bacterium Potentiates Discovery of a Substrate Promiscuous Proteusin Cyclodehydratase. ACS Chemical Biology, 2022, 17, 1577-1585.	3.4	14
7	Applying Promiscuous RiPP Enzymes to Peptide Backbone N-Methylation Chemistry. ACS Chemical Biology, 2022, 17, 2165-2178.	3.4	5
8	New developments in RiPP discovery, enzymology and engineering. Natural Product Reports, 2021, 38, 130-239.	10.3	412
9	Small-molecule mimicry hunting strategy in the imperial cone snail, Conus imperialis. Science Advances, 2021, 7, .	10.3	18
10	Genomeâ€Miningâ€Based Discovery of the Cyclic Peptide Tolypamide and TolF, a Ser/Thr Forward Oâ€Prenyltransferase. Angewandte Chemie - International Edition, 2021, 60, 8460-8465.	13.8	20
11	Genomeâ€Miningâ€Based Discovery of the Cyclic Peptide Tolypamide and TolF, a Ser/Thr Forward Oâ€Prenyltransferase. Angewandte Chemie, 2021, 133, 8541-8546.	2.0	3
12	Neuroactive Type-A Î³-Aminobutyric Acid Receptor Allosteric Modulator Steroids from the Hypobranchial Gland of Marine Mollusk, Conus geographus. Journal of Medicinal Chemistry, 2021, 64, 7033-7043.	6.4	4
13	Non-Peptidic Small Molecule Components from Cone Snail Venoms. Frontiers in Pharmacology, 2021, 12, 655981.	3.5	7
14	Shipworm symbiosis ecology-guided discovery of an antibiotic that kills colistin-resistant Acinetobacter. Cell Chemical Biology, 2021, 28, 1628-1637.e4.	5.2	14
15	An Obligate Peptidyl Brominase Underlies the Discovery of Highly Distributed Biosynthetic Gene Clusters in Marine Sponge Microbiomes. Journal of the American Chemical Society, 2021, 143, 10221-10231.	13.7	22
16	Nicotinic Acetylcholine Receptor Partial Antagonist Polyamides from Tunicates and Their Predatory Sea Slugs. ACS Chemical Neuroscience, 2021, 12, 2693-2704.	3.5	4
17	The Tunicate Metabolite 2-(3,5-Diiodo-4-methoxyphenyl)ethan-1-amine Targets Ion Channels of Vertebrate Sensory Neurons. ACS Chemical Biology, 2021, 16, 1654-1662.	3.4	1
18	Inhibition of Biofilm Formation by Modified Oxylipins from the Shipworm Symbiont Teredinibacter turnerae. Marine Drugs, 2020, 18, 656.	4.6	3

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19	Pyrrolocin C and equisetin inhibit bacterial acetyl-CoA carboxylase. PLoS ONE, 2020, 15, e0233485.	2.5	19
20	Genetic and Biochemical Reconstitution of Bromoform Biosynthesis in Asparagopsis Lends Insights into Seaweed Reactive Oxygen Species Enzymology. ACS Chemical Biology, 2020, 15, 1662-1670.	3.4	27
21	A symbiotic bacterium of shipworms produces a compound with broad spectrum anti-apicomplexan activity. PLoS Pathogens, 2020, 16, e1008600.	4.7	20
22	Expanding the Chemical Space of Synthetic Cyclic Peptides Using a Promiscuous Macrocyclase from Prenylagaramide Biosynthesis. ACS Catalysis, 2020, 10, 7146-7153.	11.2	30
23	Animal biosynthesis of complex polyketides in a photosynthetic partnership. Nature Communications, 2020, 11, 2882.	12.8	38
24	Secondary Metabolites of the Genus Didemnum: A Comprehensive Review of Chemical Diversity and Pharmacological Properties. Marine Drugs, 2020, 18, 307.	4.6	14
25	Boholamide A, an APD-Class, Hypoxia-Selective Cyclodepsipeptide. Journal of Natural Products, 2020, 83, 1249-1257.	3.0	9
26	Secondary Metabolism in the Gill Microbiota of Shipworms (Teredinidae) as Revealed by Comparison of Metagenomes and Nearly Complete Symbiont Genomes. MSystems, 2020, 5, .	3.8	15
27	Synergistic anti-methicillin-resistant Staphylococcus aureus (MRSA) activity and absolute stereochemistry of 7,8-dideoxygriseorhodin C. Journal of Antibiotics, 2020, 73, 290-298.	2.0	10
28	Title is missing!. , 2020, 16, e1008600.		0
29	Title is missing!. , 2020, 16, e1008600.		0
30	Title is missing!. , 2020, 16, e1008600.		0
31	Title is missing!. , 2020, 16, e1008600.		0
32	Title is missing!. , 2020, 16, e1008600.		0
33	Title is missing!. , 2020, 16, e1008600.		0
34	The biosynthetic diversity of the animal world. Journal of Biological Chemistry, 2019, 294, 17684-17692.	3.4	33
35	Secondary Metabolites of Onygenales Fungi Exemplified by Aioliomyces pyridodomos. Journal of Natural Products, 2019, 82, 1616-1626.	3.0	8
36	Mindapyrroles Aâ€“C, Pyoluteorin Analogues from a Shipworm-Associated Bacterium. Journal of Natural Products, 2019, 82, 1024-1028.	3.0	21

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37	Parallel lives of symbionts and hosts: chemical mutualism in marine animals. Natural Product Reports, 2018, 35, 357-378.	10.3	57
38	Accessing chemical diversity from the uncultivated symbionts of small marine animals. Nature Chemical Biology, 2018, 14, 179-185.	8.0	80
39	Post-Translational Tyrosine Geranylation in Cyanobactin Biosynthesis. Journal of the American Chemical Society, 2018, 140, 6044-6048.	13.7	31
40	Onydecalins, Fungal Polyketides with Anti-Histoplasma and Anti-TRP Activity. Journal of Natural Products, 2018, 81, 2605-2611.	3.0	9
41	Roads to Rome: Role of Multiple Cassettes in Cyanobactin RiPP Biosynthesis. Journal of the American Chemical Society, 2018, 140, 16213-16221.	13.7	20
42	Thailandamide, a Fatty Acid Synthesis Antibiotic That Is Coexpressed with a Resistant Target Gene. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	18
43	The Biochemistry and Structural Biology of Cyanobactin Pathways: Enabling Combinatorial Biosynthesis. Methods in Enzymology, 2018, 604, 113-163.	1.0	50
44	A Single Amino Acid Switch Alters the Isoprene Donor Specificity in Ribosomally Synthesized and Post-Translationally Modified Peptide Prenyltransferases. Journal of the American Chemical Society, 2018, 140, 8124-8127.	13.7	26
45	Identification of Cyclic Depsipeptides and Their Dedicated Synthetase from Hapsidospora irregularis. Journal of Natural Products, 2017, 80, 363-370.	3.0	7
46	Enzymatic N- and C-Protection in Cyanobactin RiPP Natural Products. Journal of the American Chemical Society, 2017, 139, 2884-2887.	13.7	43
47	Discovery of chemoautotrophic symbiosis in the giant shipworm Kuphus polythalamia (Bivalvia:) Tj ETQq1 1 0.784314 rgBT /Ov United States of America, 2017, 114, E3652-E3658.	7.1	72
48	Metagenomic discovery of polybrominated diphenyl ether biosynthesis by marine sponges. Nature Chemical Biology, 2017, 13, 537-543.	8.0	141
49	Stenotrophomonas-Like Bacteria Are Widespread Symbionts in Cone Snail Venom Ducts. Applied and Environmental Microbiology, 2017, 83, .	3.1	10
50	Three Principles of Diversity-Generating Biosynthesis. Accounts of Chemical Research, 2017, 50, 2569-2576.	15.6	17
51	Modulating the Serotonin Receptor Spectrum of Pulicatin Natural Products. Journal of Natural Products, 2017, 80, 2360-2370.	3.0	7
52	Linking neuroethology to the chemical biology of natural products: interactions between cone snails and their fish prey, a case study. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2017, 203, 717-735.	1.6	9
53	Cysteine-Free Intramolecular Ligation of N-Sulfanylethylanilide Peptide Using 4-Mercaptobenzylphosphonic Acid: Synthesis of Cyclic Peptide Trichamide. Synlett, 2017, 28, 1944-1949.	1.8	6
54	Origin of Chemical Diversity in Prochloron-Tunicate Symbiosis. Applied and Environmental Microbiology, 2016, 82, 3450-3460.	3.1	25

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55	Molecular basis for the broad substrate selectivity of a peptide prenyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14037-14042.	7.1	45
56	Directing Biosynthesis. Methods in Enzymology, 2016, 575, 1-20.	1.0	11
57	Metabolic model for diversity-generating biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1772-1777.	7.1	47
58	Combinatorial biosynthesis of RiPPs: docking with marine life. Current Opinion in Chemical Biology, 2016, 31, 15-21.	6.1	51
59	Constellation Pharmacology: A New Paradigm for Drug Discovery. Annual Review of Pharmacology and Toxicology, 2015, 55, 573-589.	9.4	37
60	Modularity of RiPP Enzymes Enables Designed Synthesis of Decorated Peptides. Chemistry and Biology, 2015, 22, 907-916.	6.0	71
61	Hunting microbial metabolites. Nature Chemistry, 2015, 7, 375-376.	13.6	2
62	Biosynthesis of the Tetramic Acids Sch210971 and Sch210972. Organic Letters, 2015, 17, 2295-2297.	4.6	29
63	The secret to a successful relationship: lasting chemistry between ascidians and their symbiotic bacteria. Invertebrate Biology, 2015, 134, 88-102.	0.9	54
64	Small Molecules in the Cone Snail Arsenal. Organic Letters, 2015, 17, 4933-4935.	4.6	25
65	Recognition Sequences and Substrate Evolution in Cyanobactin Biosynthesis. ACS Synthetic Biology, 2015, 4, 167-176.	3.8	71
66	Assessing the Combinatorial Potential of the RiPP Cyanobactin tru Pathway. ACS Synthetic Biology, 2015, 4, 482-492.	3.8	83
67	Native Promoter Strategy for High-Yielding Synthesis and Engineering of Fungal Secondary Metabolites. ACS Synthetic Biology, 2015, 4, 625-633.	3.8	43
68	Species specificity of symbiosis and secondary metabolism in ascidians. ISME Journal, 2015, 9, 615-628.	9.8	85
69	Host Control of Symbiont Natural Product Chemistry in Cryptic Populations of the Tunicate Lissoclinum patella. PLoS ONE, 2014, 9, e95850.	2.5	31
70	Combinatorialization of Fungal Polyketide Synthaseâ€“Peptide Synthetase Hybrid Proteins. Journal of the American Chemical Society, 2014, 136, 17882-17890.	13.7	39
71	Structure and activity of lobophorins from a turrid mollusk-associated Streptomyces sp. Journal of Antibiotics, 2014, 67, 121-126.	2.0	33
72	Isolation of Pyrrolocins Aâ€“C: cis- and trans-Decalin Tetramic Acid Antibiotics from an Endophytic Fungal-Derived Pathway. Journal of Natural Products, 2014, 77, 2537-2544.	3.0	36

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73	Oxazinin A, a Pseudodimeric Natural Product of Mixed Biosynthetic Origin from a Filamentous Fungus. Organic Letters, 2014, 16, 4774-4777.	4.6	32
74	Griseorhodins Dâ€“F, Neuroactive Intermediates and End Products of Post-PKS Tailoring Modification in Griseorhodin Biosynthesis. Journal of Natural Products, 2014, 77, 1224-1230.	3.0	13
75	Neuroactive diol and acyloin metabolites from cone snail-associated bacteria. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 4867-4869.	2.2	23
76	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. Natural Product Reports, 2013, 30, 108-160.	10.3	1,692
77	Aestuaramides, a Natural Library of Cyanobactin Cyclic Peptides Resulting from Isoprene-Derived Claisen Rearrangements. ACS Chemical Biology, 2013, 8, 877-883.	3.4	53
78	A Bacterial Source for Mollusk Pyrone Polyketides. Chemistry and Biology, 2013, 20, 73-81.	6.0	71
79	Two Related Pyrrolidinedione Synthetase Loci in Fusarium heterosporum ATCC 74349 Produce Divergent Metabolites. ACS Chemical Biology, 2013, 8, 1549-1557.	3.4	71
80	Boronated tartrolon antibiotic produced by symbiotic cellulose-degrading bacteria in shipworm gills. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E295-304.	7.1	89
81	Bacterial Endosymbiosis in a Chordate Host: Long-Term Co-Evolution and Conservation of Secondary Metabolism. PLoS ONE, 2013, 8, e80822.	2.5	52
82	Structure and Biosynthesis of the Antibiotic Bottromycin D. Organic Letters, 2012, 14, 5050-5053.	4.6	80
83	Genome streamlining and chemical defense in a coral reef symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20655-20660.	7.1	146
84	Origin and Variation of Tunicate Secondary Metabolites. Journal of Natural Products, 2012, 75, 295-304.	3.0	71
85	Structures of Cyanobactin Maturation Enzymes Define a Family of Transamidating Proteases. Chemistry and Biology, 2012, 19, 1411-1422.	6.0	62
86	Decoding and Recoding the Ribosomal Peptide Universe. Chemistry and Biology, 2012, 19, 1501-1502.	6.0	3
87	Totopotensamides, Polyketideâ€“Cyclic Peptide Hybrids from a Mollusk-Associated Bacterium Streptomyces sp.. Journal of Natural Products, 2012, 75, 644-649.	3.0	30
88	Ribosomal Route to Small-Molecule Diversity. Journal of the American Chemical Society, 2012, 134, 418-425.	13.7	105
89	Burkholdines from Burkholderia ambifaria: Antifungal Agents and Possible Virulence Factors. Journal of Natural Products, 2012, 75, 1518-1523.	3.0	55
90	Cleaning up Polyketide Synthases. Chemistry and Biology, 2012, 19, 309-311.	6.0	5

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91	Enzymatic Basis of Ribosomal Peptide Prenylation in Cyanobacteria. Journal of the American Chemical Society, 2011, 133, 13698-13705.	13.7	113
92	Nobilamides Aâ€“H, Long-Acting Transient Receptor Potential Vanilloid-1 (TRPV1) Antagonists from Mollusk-Associated Bacteria. Journal of Medicinal Chemistry, 2011, 54, 3746-3755.	6.4	35
93	Variation in Tropical Reef Symbiont Metagenomes Defined by Secondary Metabolism. PLoS ONE, 2011, 6, e17897.	2.5	59
94	An Enzymatic Route to Sunscreens. ChemBioChem, 2011, 12, 363-365.	2.6	9
95	Accessing the Hidden Majority of Marine Natural Products through Metagenomics. ChemBioChem, 2011, 12, 1230-1236.	2.6	57
96	Linking Chemistry and Genetics in the Growing Cyanobactin Natural Products Family. Chemistry and Biology, 2011, 18, 508-519.	6.0	103
97	Complex microbiome underlying secondary and primary metabolism in the tunicate- Prochloron symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1423-32.	7.1	146
98	Marine Molecular Machines: Heterocyclization in Cyanobactin Biosynthesis. ChemBioChem, 2010, 11, 1413-1421.	2.6	75
99	Life in cellulose houses: symbiotic bacterial biosynthesis of ascidian drugs and drug leads. Current Opinion in Biotechnology, 2010, 21, 827-833.	6.6	68
100	The hidden diversity of ribosomal peptide natural products. BMC Biology, 2010, 8, 83.	3.8	26
101	Cyanobactins â€“ Ubiquitous Cyanobacterial Ribosomal Peptide Metabolites. , 2010, , 539-558.		19
102	Pulicatins Aâ^'E, Neuroactive Thiazoline Metabolites from Cone Snail-Associated Bacteria. Journal of Natural Products, 2010, 73, 1922-1926.	3.0	59
103	Circular Logic: Nonribosomal Peptide-like Macrocyclization with a Ribosomal Peptide Catalyst. Journal of the American Chemical Society, 2010, 132, 15499-15501.	13.7	93
104	Insights into Heterocyclization from Two Highly Similar Enzymes. Journal of the American Chemical Society, 2010, 132, 4089-4091.	13.7	80
105	Burkholdines 1097 and 1229, Potent Antifungal Peptides from Burkholderia ambifaria 2.2N. Organic Letters, 2010, 12, 664-666.	4.6	58
106	The Complete Genome of Teredinibacter turnerae T7901: An Intracellular Endosymbiont of Marine Wood-Boring Bivalves (Shipworms). PLoS ONE, 2009, 4, e6085.	2.5	93
107	Microhabitats within Venomous Cone Snails Contain Diverse Actinobacteria. Applied and Environmental Microbiology, 2009, 75, 6820-6826.	3.1	43
108	Using Marine Natural Products to Discover a Protease that Catalyzes Peptide Macrocyclization of Diverse Substrates. Journal of the American Chemical Society, 2009, 131, 2122-2124.	13.7	133

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109	Chapter 23 Cyanobactin Ribosomally Synthesized Peptidesâ€"A Case of Deep Metagenome Mining. Methods in Enzymology, 2009, 458, 575-596.	1.0	45
110	Metagenomic approaches to natural products from free-living and symbiotic organisms. Natural Product Reports, 2009, 26, 1488.	10.3	112
111	Ribosomal peptide natural products: bridging the ribosomal and nonribosomal worlds. Natural Product Reports, 2009, 26, 537.	10.3	237
112	Trading molecules and tracking targets in symbiotic interactions. Nature Chemical Biology, 2008, 4, 466-473.	8.0	95
113	A global assembly line for cyanobactins. Nature Chemical Biology, 2008, 4, 341-343.	8.0	257
114	Thioesterase-Like Role for Fungal PKS-NRPS Hybrid Reductive Domains. Journal of the American Chemical Society, 2008, 130, 11149-11155.	13.7	96
115	Characterization of SafC, a Catechol 4- O -Methyltransferase Involved in Saframycin Biosynthesis. Applied and Environmental Microbiology, 2007, 73, 3575-3580.	3.1	44
116	Natural combinatorial peptide libraries in cyanobacterial symbionts of marine ascidians. , 2006, 2, 729-735.		241
117	Structure of Trichamide, a Cyclic Peptide from the Bloom-Forming Cyanobacterium Trichodesmium erythraeum, Predicted from the Genome Sequence. Applied and Environmental Microbiology, 2006, 72, 4382-4387.	3.1	131
118	From chemical structure to environmental biosynthetic pathways: navigating marine invertebrateâ€"bacteria associations. Trends in Biotechnology, 2005, 23, 437-440.	9.3	38
119	Patellamide A and C biosynthesis by a microcin-like pathway in Prochloron didemni, the cyanobacterial symbiont of Lissoclinum patella. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7315-7320.	7.1	553
120	Synthesis of tyrosine derivatives for saframycin MX1 biosynthetic studies. Tetrahedron Letters, 2004, 45, 3921-3924.	1.4	21
121	Genetic Evidence Supports Secondary Metabolic Diversity in Prochloron spp., the Cyanobacterial Symbiont of a Tropical Ascidian. Journal of Natural Products, 2004, 67, 1341-1345.	3.0	59
122	Scleritodermin A, a Cytotoxic Cyclic Peptide from the Lithistid SpongeScleritodermanodosum. Journal of Natural Products, 2004, 67, 475-478.	3.0	66
123	Microsclerodermins C - E, antifungal cyclic peptides from the lithistid marine sponges Theonella sp. and Microscleroderma sp.. Tetrahedron, 1998, 54, 3043-3056.	1.9	79
124	Theopalauamide, a Bicyclic Glycopeptide from Filamentous Bacterial Symbionts of the Lithistid SpongeTheonella swinhoeifrom Palau and Mozambique. Journal of Organic Chemistry, 1998, 63, 1254-1258.	3.2	103
125	Mozamides A and B, Cyclic Peptides from a Theonellid Sponge from Mozambique. Journal of Natural Products, 1997, 60, 779-782.	3.0	66
126	Palauolol, a new anti-inflammatory sesterterpene from the sponge Fascaplysinopsis sp. from Palau. Tetrahedron Letters, 1996, 37, 3951-3954.	1.4	51

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127	Absolute configuration of methyl (2Z,6R,8R,9E)-3,6-epoxy-4,6,8-triethyl-2,4,9-dodecatrienoate from the sponge Plakortis halichondrioides. Tetrahedron Letters, 1996, 37, 6681-6684.	1.4	25
128	Makaluvamines H-M and Damirone C from the Pohnpeian Sponge Zyzzya fuliginosa. Journal of Natural Products, 1995, 58, 1861-1867.	3.0	92