

Lena Gerwick

List of Publications by Year in descending order

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73
papers

7,216
citations

117625

34
h-index

95266

68
g-index

75
all docs

75
docs citations

75
times ranked

9742
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	17.5	2,802
2	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015, 11, 625-631.	8.0	715
3	The acute phase response and innate immunity of fish. <i>Developmental and Comparative Immunology</i> , 2001, 25, 725-743.	2.3	390
4	Characterization of Cyanobacterial Hydrocarbon Composition and Distribution of Biosynthetic Pathways. <i>PLoS ONE</i> , 2014, 9, e85140.	2.5	190
5	Metamorphic enzyme assembly in polyketide diversification. <i>Nature</i> , 2009, 459, 731-735.	27.8	165
6	Combining Mass Spectrometric Metabolic Profiling with Genomic Analysis: A Powerful Approach for Discovering Natural Products from Cyanobacteria. <i>Journal of Natural Products</i> , 2015, 78, 1671-1682.	3.0	156
7	Gene transcript changes in individual rainbow trout livers following an inflammatory stimulus. <i>Fish and Shellfish Immunology</i> , 2007, 22, 157-171.	3.6	134
8	Single Cell Genome Amplification Accelerates Identification of the Apratoxin Biosynthetic Pathway from a Complex Microbial Assemblage. <i>PLoS ONE</i> , 2011, 6, e18565.	2.5	132
9	Marine natural product drug discovery: Leads for treatment of inflammation, cancer, infections, and neurological disorders. <i>Immunopharmacology and Immunotoxicology</i> , 2010, 32, 228-237.	2.4	125
10	Viridamides A and B, Lipodepsipeptides with Antiprotozoal Activity from the Marine Cyanobacterium <i>Oscillatoria nigro-viridis</i> . <i>Journal of Natural Products</i> , 2008, 71, 1544-1550.	3.0	119
11	Real-Time Metabolomics on Living Microorganisms Using Ambient Electrospray Ionization Flow-Probe. <i>Analytical Chemistry</i> , 2013, 85, 7014-7018.	6.5	106
12	The unique mechanistic transformations involved in the biosynthesis of modular natural products from marine cyanobacteria. <i>Natural Product Reports</i> , 2010, 27, 1048.	10.3	103
13	Genomic insights into the physiology and ecology of the marine filamentous cyanobacterium <i>Lyngbya majuscula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8815-8820.	7.1	99
14	Significant Natural Product Biosynthetic Potential of Actinorhizal Symbionts of the Genus <i>Frankia</i> , as Revealed by Comparative Genomic and Proteomic Analyses. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3617-3625.	3.1	94
15	Honaucins A-C, Potent Inhibitors of Inflammation and Bacterial Quorum Sensing: Synthetic Derivatives and Structure-Activity Relationships. <i>Chemistry and Biology</i> , 2012, 19, 589-598.	6.0	92
16	Polyketide Decarboxylative Chain Termination Preceded by <i>O</i> -Sulfonation in Curacin A Biosynthesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 16033-16035.	13.7	88
17	The C1q domain containing proteins: Where do they come from and what do they do?. <i>Developmental and Comparative Immunology</i> , 2010, 34, 785-790.	2.3	88
18	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021, 17, 363-368.	8.0	81

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19	Comparative genomics uncovers the prolific and distinctive metabolic potential of the cyanobacterial genus <i>Moorea</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3198-3203.	7.1	77
20	Development of a Potent Inhibitor of the <i>Plasmodium</i> Proteasome with Reduced Mammalian Toxicity. Journal of Medicinal Chemistry, 2017, 60, 6721-6732.	6.4	70
21	Bastimolide A, a Potent Antimalarial Polyhydroxy Macrolide from the Marine Cyanobacterium <i>Okeania hirsuta</i> . Journal of Organic Chemistry, 2015, 80, 7849-7855.	3.2	68
22	Malyngamide 2, an Oxidized Lipopeptide with Nitric Oxide Inhibiting Activity from a Papua New Guinea Marine Cyanobacterium. Journal of Natural Products, 2011, 74, 95-98.	3.0	65
23	Coibacins A-D, Antileishmanial Marine Cyanobacterial Polyketides with Intriguing Biosynthetic Origins. Organic Letters, 2012, 14, 3878-3881.	4.6	56
24	Unique marine derived cyanobacterial biosynthetic genes for chemical diversity. Natural Product Reports, 2016, 33, 348-364.	10.3	56
25	Combined LC-MS/MS and Molecular Networking Approach Reveals New Cyanotoxins from the 2014 Cyanobacterial Bloom in Green Lake, Seattle. Environmental Science & Technology, 2015, 49, 14301-14310.	10.0	55
26	Selective MyD88-dependent pathway inhibition by the cyanobacterial natural product malyngamide F acetate. European Journal of Pharmacology, 2010, 629, 140-146.	3.5	49
27	A precerebellin-like protein is part of the acute phase response in rainbow trout, <i>Oncorhynchus mykiss</i> . Developmental and Comparative Immunology, 2000, 24, 597-607.	2.3	47
28	MetaMiner: A Scalable Peptidogenomics Approach for Discovery of Ribosomal Peptide Natural Products with Blind Modifications from Microbial Communities. Cell Systems, 2019, 9, 600-608.e4.	6.2	46
29	Integrating mass spectrometry and genomics for cyanobacterial metabolite discovery. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 313-324.	3.0	45
30	Expanding the Described Metabolome of the Marine Cyanobacterium <i>Moorea producens</i> JHB through Orthogonal Natural Products Workflows. PLoS ONE, 2015, 10, e0133297.	2.5	40
31	Giant Marine Cyanobacteria Produce Exciting Potential Pharmaceuticals. Microbe Magazine, 2008, 3, 277-284.	0.4	40
32	Natural Products with Potential to Treat RNA Virus Pathogens Including SARS-CoV-2. Journal of Natural Products, 2021, 84, 161-182.	3.0	38
33	Examination of the Mode of Action of the Almiramide Family of Natural Products against the Kinetoplastid Parasite <i>Trypanosoma brucei</i> . Journal of Natural Products, 2013, 76, 630-641.	3.0	37
34	The Phormidolide Biosynthetic Gene Cluster: A <i>trans</i> -CAT PKS Pathway Encoding a Toxic Macrocytic Polyketide. ChemBioChem, 2016, 17, 164-173.	2.6	36
35	Nature's Combinatorial Biosynthesis Produces Vatiamides F. Angewandte Chemie - International Edition, 2019, 58, 9027-9031.	13.8	36
36	Structural Basis of Functional Group Activation by Sulfotransferases in Complex Metabolic Pathways. ACS Chemical Biology, 2012, 7, 1994-2003.	3.4	34

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37	Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. <i>ELife</i> , 2017, 6, .	6.0	33
38	Structure and activity of DmmA, a marine haloalkane dehalogenase. <i>Protein Science</i> , 2012, 21, 239-248.	7.6	32
39	A Maldisotopic Approach to Discover Natural Products: Cryptomaldamide, a Hybrid Tripeptide from the Marine Cyanobacterium <i>Moorea producens</i> . <i>Journal of Natural Products</i> , 2017, 80, 1514-1521.	3.0	30
40	Direct Detection of Fungal Siderophores on Bats with White-Nose Syndrome via Fluorescence Microscopy-Guided Ambient Ionization Mass Spectrometry. <i>PLoS ONE</i> , 2015, 10, e0119668.	2.5	30
41	Modulation of stress hormones in rainbow trout by means of anesthesia, sensory deprivation and receptor blockade. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 1999, 124, 329-334.	1.8	29
42	Phylogeny-Guided Isolation of Ethyl Tumonoate A from the Marine Cyanobacterium cf. <i>Oscillatoria margaritifera</i> . <i>Journal of Natural Products</i> , 2011, 74, 1737-1743.	3.0	29
43	Evaluation of <i>Streptomyces coelicolor</i> Δ 3(2) as a heterologous expression host for the cyanobacterial protein kinase <i>lyngbyatoxin</i> A. <i>FEBS Journal</i> , 2012, 279, 1243-1251.	4.7	29
44	Anatomy of the β^2 -branching enzyme of polyketide biosynthesis and its interaction with an acyl-ACP substrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10316-10321.	7.1	29
45	Bastimolide B, an Antimalarial 24-Membered Marine Macrolide Possessing a <i>tert</i> -Butyl Group. <i>Journal of Natural Products</i> , 2018, 81, 211-215.	3.0	29
46	Spongiosine Production by a <i>Vibrio harveyi</i> Strain Associated with the Sponge <i>Tectitethya crypta</i> . <i>Journal of Natural Products</i> , 2015, 78, 493-499.	3.0	28
47	Polyketide genes in the marine sponge <i>Plakortis simplex</i> : a new group of mono-modular type <i>polyketide</i> synthases from sponge symbionts. <i>Environmental Microbiology Reports</i> , 2013, 5, 809-818.	2.4	27
48	Marine Natural Product Honaucin A Attenuates Inflammation by Activating the Nrf2-ARE Pathway. <i>Journal of Natural Products</i> , 2018, 81, 506-514.	3.0	25
49	Ketoreductase Domain Dysfunction Expands Chemodiversity: Malyngamide Biosynthesis in the Cyanobacterium <i>Okeania hirsuta</i> . <i>ACS Chemical Biology</i> , 2018, 13, 3385-3395.	3.4	25
50	Cytotoxic Microcolin Lipopeptides from the Marine Cyanobacterium <i>Moorea producens</i> . <i>Journal of Natural Products</i> , 2019, 82, 2608-2619.	3.0	23
51	Heterologous Expression of Cryptomaldamide in a Cyanobacterial Host. <i>ACS Synthetic Biology</i> , 2020, 9, 3364-3376.	3.8	23
52	Isolation of Polycavernoside D from a Marine Cyanobacterium. <i>Environmental Science and Technology Letters</i> , 2015, 2, 166-170.	8.7	22
53	A Mononuclear Iron-Dependent Methyltransferase Catalyzes Initial Steps in Assembly of the Apratoxin A Polyketide Starter Unit. <i>ACS Chemical Biology</i> , 2017, 12, 3039-3048.	3.4	22
54	Pagoamide A, a Cyclic Depsipeptide Isolated from a Cultured Marine Chlorophyte, <i>Derbesia</i> sp., Using MS/MS-Based Molecular Networking. <i>Journal of Natural Products</i> , 2020, 83, 617-625.	3.0	22

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55	Biosynthesis of <i>t</i> -Butyl in Apratoxin A: Functional Analysis and Architecture of a PKS Loading Module. <i>ACS Chemical Biology</i> , 2018, 13, 1640-1650.	3.4	21
56	A Multi-Omics Characterization of the Natural Product Potential of Tropical Filamentous Marine Cyanobacteria. <i>Marine Drugs</i> , 2021, 19, 20.	4.6	19
57	Molecular identification and expression analysis of two distinct BPI/LBPs (bactericidal) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 Shellfish Immunology, 2012, 33, 75-84.	3.6	18
58	A novel uncultured heterotrophic bacterial associate of the cyanobacterium <i>Moorea producens</i> JHB. <i>BMC Microbiology</i> , 2016, 16, 198.	3.3	13
59	Samholides, Swinholide-Related Metabolites from a Marine Cyanobacterium cf. <i>Phormidium</i> sp.. <i>Journal of Organic Chemistry</i> , 2018, 83, 3034-3046.	3.2	12
60	Molecular cloning and characterization of rainbow trout (<i>Oncorhynchus mykiss</i>) CCAAT/enhancer binding protein ?. <i>Immunogenetics</i> , 2003, 55, 253-261.	2.4	11
61	Differential expression and intrachromosomal evolution of the <i>sghC1q</i> genes in zebrafish (<i>Danio</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 11 2.3	2.3	11
62	Collection, Culturing, and Genome Analyses of Tropical Marine Filamentous Benthic Cyanobacteria. <i>Methods in Enzymology</i> , 2018, 604, 3-43.	1.0	10
63	Intracranial injections induce local transcription of a gene encoding precerebellin-like protein. <i>Fish Physiology and Biochemistry</i> , 2005, 31, 363-372.	2.3	9
64	Interkingdom signaling by structurally related cyanobacterial and algal secondary metabolites. <i>Phytochemistry Reviews</i> , 2013, 12, 459-465.	6.5	9
65	Heterologous Expression in <i>Anabaena</i> of the Columbamide Pathway from the Cyanobacterium <i>Moorea bouillonii</i> and Production of New Analogs. <i>ACS Chemical Biology</i> , 2022, 17, 1910-1923.	3.4	7
66	An anti-inflammatory isoflavone from soybean inoculated with a marine fungus <i>Aspergillus terreus</i> C23-3. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 1546-1553.	1.3	6
67	Nature's Combinatorial Biosynthesis Produces Vatiamides A-F. <i>Angewandte Chemie</i> , 2019, 131, 9125-9129.	2.0	4
68	Portobelamides A and B and Caciqueamide, Cytotoxic Peptidic Natural Products from a <i>Caldora</i> sp. Marine Cyanobacterium. <i>Journal of Natural Products</i> , 2021, 84, 2081-2093.	3.0	2
69	K5 2:45 Acute plasma hormonal changes within minutes of acute stress in rainbow trout. <i>Developmental and Comparative Immunology</i> , 1997, 21, 169.	2.3	0
70	KP2 Acute phase proteins in trout. <i>Developmental and Comparative Immunology</i> , 1997, 21, 173.	2.3	0
71	Transcriptional studies of a novel family of "short C1q" domain proteins in zebrafish. <i>FASEB Journal</i> , 2008, 22, 558-558.	0.5	0
72	Development of in vitro and in vivo anti-inflammatory assays for testing cyanobacterial marine natural products. <i>FASEB Journal</i> , 2008, 22, 537-537.	0.5	0

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73	Effect of xanthopterin and isoxanthopterin on nitric oxide production by a RAW264.7 cell line. FASEB Journal, 2012, 26, 797.9.	0.5	0