

Lena Gerwick

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

4,869
citations

29
h-index

69
g-index

75
ext. papers

6,205
ext. citations

6.8
avg, IF

4.96
L-index

#	Paper	IF	Citations
71	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016 , 34, 828-837	44.5	1566
70	Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , 2015 , 11, 625-31	11.7	498
69	The acute phase response and innate immunity of fish. <i>Developmental and Comparative Immunology</i> , 2001 , 25, 725-43	3.2	331
68	Metamorphic enzyme assembly in polyketide diversification. <i>Nature</i> , 2009 , 459, 731-5	50.4	146
67	Gene transcript changes in individual rainbow trout livers following an inflammatory stimulus. <i>Fish and Shellfish Immunology</i> , 2007 , 22, 157-71	4.3	119
66	Single cell genome amplification accelerates identification of the apratoxin biosynthetic pathway from a complex microbial assemblage. <i>PLoS ONE</i> , 2011 , 6, e18565	3.7	117
65	Characterization of cyanobacterial hydrocarbon composition and distribution of biosynthetic pathways. <i>PLoS ONE</i> , 2014 , 9, e85140	3.7	114
64	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, 1671-82	4.9	106
63	Marine natural product drug discovery: Leads for treatment of inflammation, cancer, infections, and neurological disorders. <i>Immunopharmacology and Immunotoxicology</i> , 2010 , 32, 228-37	3.2	98
62	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, 1544-50	4.9	95
61	The unique mechanistic transformations involved in the biosynthesis of modular natural products from marine cyanobacteria. <i>Natural Product Reports</i> , 2010 , 27, 1048-65	15.1	93
60	Real-time metabolomics on living microorganisms using ambient electrospray ionization flow-probe. <i>Analytical Chemistry</i> , 2013 , 85, 7014-8	7.8	91
59	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, 8815-20	11.5	90
58	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, 3617-25	4.8	81
57	Honaucins A-C, potent inhibitors of inflammation and bacterial quorum sensing: synthetic derivatives and structure-activity relationships. <i>Chemistry and Biology</i> , 2012 , 19, 589-98		79
56	Polyketide decarboxylative chain termination preceded by o-sulfonation in curacin A biosynthesis. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16033-5	16.4	77
55	The C1q domain containing proteins: Where do they come from and what do they do?. <i>Developmental and Comparative Immunology</i> , 2010 , 34, 785-90	3.2	75

54	Malyngamide 2, an oxidized lipopeptide with nitric oxide inhibiting activity from a Papua New Guinea marine cyanobacterium. <i>Journal of Natural Products</i> , 2011 , 74, 95-8	4.9	57
53	Bastimolide A, a Potent Antimalarial Polyhydroxy Macrolide from the Marine Cyanobacterium <i>Okeania hirsuta</i> . <i>Journal of Organic Chemistry</i> , 2015 , 80, 7849-55	4.2	54
52	Comparative genomics uncovers the prolific and distinctive metabolic potential of the cyanobacterial genus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3198-3203	11.5	47
51	Development of a Potent Inhibitor of the Plasmodium Proteasome with Reduced Mammalian Toxicity. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 6721-6732	8.3	46
50	Coibacins A-D, antileishmanial marine cyanobacterial polyketides with intriguing biosynthetic origins. <i>Organic Letters</i> , 2012 , 14, 3878-81	6.2	42
49	Selective MyD88-dependent pathway inhibition by the cyanobacterial natural product malyngamide F acetate. <i>European Journal of Pharmacology</i> , 2010 , 629, 140-6	5.3	42
48	Combined LC-MS/MS and Molecular Networking Approach Reveals New Cyanotoxins from the 2014 Cyanobacterial Bloom in Green Lake, Seattle. <i>Environmental Science & Technology</i> , 2015 , 49, 14301-10	10.3	39
47	A precerebellin-like protein is part of the acute phase response in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Developmental and Comparative Immunology</i> , 2000 , 24, 597-607	3.2	39
46	Unique marine derived cyanobacterial biosynthetic genes for chemical diversity. <i>Natural Product Reports</i> , 2016 , 33, 348-64	15.1	36
45	Giant Marine Cyanobacteria Produce Exciting Potential Pharmaceuticals. <i>Microbe Magazine</i> , 2008 , 3, 277-284		34
44	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021 , 17, 363-368	11.7	32
43	Examination of the mode of action of the almiramide family of natural products against the kinetoplastid parasite <i>Trypanosoma brucei</i> . <i>Journal of Natural Products</i> , 2013 , 76, 630-41	4.9	30
42	The Phormidolide Biosynthetic Gene Cluster: A trans-AT PKS Pathway Encoding a Toxic Macrocylic Polyketide. <i>ChemBioChem</i> , 2016 , 17, 164-73	3.8	29
41	Structure and activity of DmmA, a marine haloalkane dehalogenase. <i>Protein Science</i> , 2012 , 21, 239-48	6.3	29
40	Evaluation of <i>Streptomyces coelicolor</i> A3(2) as a heterologous expression host for the cyanobacterial protein kinase C activator lyngbyatoxin A. <i>FEBS Journal</i> , 2012 , 279, 1243-51	5.7	27
39	Structural basis of functional group activation by sulfotransferases in complex metabolic pathways. <i>ACS Chemical Biology</i> , 2012 , 7, 1994-2003	4.9	27
38	MetaMiner: A Scalable Peptidogenomics Approach for Discovery of Ribosomal Peptide Natural Products with Blind Modifications from Microbial Communities. <i>Cell Systems</i> , 2019 , 9, 600-608.e4	10.6	26
37	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, 329-34	2.6	26

36	Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. <i>ELife</i> , 2017 , 6,	8.9	26
35	Anatomy of the 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, 10316-21	11.5	25
34	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, 493-9	4.9	24
33	Expanding the Described Metabolome of the Marine Cyanobacterium <i>Moorea producens</i> JHB through Orthogonal Natural Products Workflows. <i>PLoS ONE</i> , 2015 , 10, e0133297	3.7	23
32	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	3.7	23
31	Polyketide genes in the marine sponge <i>Plakortis simplex</i> : a new group of mono-modular type I polyketide synthases from sponge symbionts. <i>Environmental Microbiology Reports</i> , 2013 , 5, 809-18	3.7	19
30	Phylogeny-guided isolation of ethyl tumonoate A from the marine cyanobacterium cf. <i>Oscillatoria margaritifera</i> . <i>Journal of Natural Products</i> , 2011 , 74, 1737-43	4.9	19
29	A Maldiisotopic 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	4.9	18
28	Nature's Combinatorial Biosynthesis Produces Vatiamides A-F. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9027-9031	16.4	18
27	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	4.9	17
26	Molecular identification and expression analysis of two distinct BPI/LBPs (bactericidal permeability-increasing protein/LPS-binding protein) from rock bream, <i>Oplegnathus fasciatus</i> . <i>Fish and Shellfish Immunology</i> , 2012 , 33, 75-84	4.3	17
25	Isolation of Polycavernoside D from a Marine Cyanobacterium. <i>Environmental Science and Technology Letters</i> , 2015 , 2, 166-170	11	16
24	Marine Natural Product Honaucin A Attenuates Inflammation by Activating the Nrf2-ARE Pathway. <i>Journal of Natural Products</i> , 2018 , 81, 506-514	4.9	16
23	Bastimolide B, an Antimalarial 24-Membered Marine Macrolide Possessing a tert-Butyl Group. <i>Journal of Natural Products</i> , 2018 , 81, 211-215	4.9	15
22	Biosynthesis of t-Butyl in Apratoxin A: Functional Analysis and Architecture of a PKS Loading Module. <i>ACS Chemical Biology</i> , 2018 , 13, 1640-1650	4.9	15
21	Integrating mass spectrometry and genomics for cyanobacterial metabolite discovery. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 313-24	4.2	15
20	Natural Products with Potential to Treat RNA Virus Pathogens Including SARS-CoV-2. <i>Journal of Natural Products</i> , 2021 , 84, 161-182	4.9	15
19	Ketoreductase Domain Dysfunction Expands Chemodiversity: Malyngamide Biosynthesis in the Cyanobacterium <i>Okeania hirsuta</i> . <i>ACS Chemical Biology</i> , 2018 , 13, 3385-3395	4.9	12

18	Molecular cloning and characterization of rainbow trout (<i>Oncorhynchus mykiss</i>) CCAAT/enhancer binding protein beta. <i>Immunogenetics</i> , 2003 , 55, 253-61	3.2	11
17	Pagoamide A, a Cyclic Depsipeptide Isolated from a Cultured Marine Chlorophyte, sp., Using MS/MS-Based Molecular Networking. <i>Journal of Natural Products</i> , 2020 , 83, 617-625	4.9	10
16	Heterologous Expression of Cryptomaldamide in a Cyanobacterial Host. <i>ACS Synthetic Biology</i> , 2020 , 9, 3364-3376	5.7	10
15	A novel uncultured heterotrophic bacterial associate of the cyanobacterium <i>Moorea producens</i> JHB. <i>BMC Microbiology</i> , 2016 , 16, 198	4.5	10
14	Differential expression and intrachromosomal evolution of the <i>sgH1q</i> genes in zebrafish (<i>Danio rerio</i>). <i>Developmental and Comparative Immunology</i> , 2012 , 36, 31-8	3.2	9
13	Cytotoxic Microcolin Lipopeptides from the Marine Cyanobacterium. <i>Journal of Natural Products</i> , 2019 , 82, 2608-2619	4.9	7
12	Samholides, Swinholide-Related Metabolites from a Marine Cyanobacterium cf. <i>Phormidium</i> sp. <i>Journal of Organic Chemistry</i> , 2018 , 83, 3034-3046	4.2	7
11	Interkingdom signaling by structurally related cyanobacterial and algal secondary metabolites. <i>Phytochemistry Reviews</i> , 2013 , 12, 459-465	7.7	7
10	Intracranial injections induce local transcription of a gene encoding precerebellin-like protein. <i>Fish Physiology and Biochemistry</i> , 2005 , 31, 363-372	2.7	7
9	Collection, Culturing, and Genome Analyses of Tropical Marine Filamentous Benthic Cyanobacteria. <i>Methods in Enzymology</i> , 2018 , 604, 3-43	1.7	6
8	A Multi-Omics Characterization of the Natural Product Potential of Tropical Filamentous Marine Cyanobacteria. <i>Marine Drugs</i> , 2021 , 19,	6	6
7	An anti-inflammatory isoflavone from soybean inoculated with a marine fungus C23-3. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020 , 84, 1546-1553	2.1	3
6	Nature's Combinatorial Biosynthesis Produces Vatiamides A-E. <i>Angewandte Chemie</i> , 2019 , 131, 9125-9129	3.6	2
5	Heterologous expression of cryptomaldamide in a cyanobacterial host		1
4	Transcriptional studies of a novel family of short C1q domain proteins in zebrafish. <i>FASEB Journal</i> , 2008 , 22, 558-558	0.9	
3	Development of in vitro and in vivo anti-inflammatory assays for testing cyanobacterial marine natural products. <i>FASEB Journal</i> , 2008 , 22, 537-537	0.9	
2	Effect of xanthopterin and isoxanthopterin on nitric oxide production by a RAW264.7 cell line. <i>FASEB Journal</i> , 2012 , 26, 797.9	0.9	
1	Portobelamides A and B and Caciqueamide, Cytotoxic Peptidic Natural Products from a sp. Marine Cyanobacterium. <i>Journal of Natural Products</i> , 2021 , 84, 2081-2093	4.9	

