Kerry L Mcphail

List of Publications by Year
in descending order

87 papers	7,852 citations	87888 38 h-index	53230 85 g-index
96 all docs	96 docs citations	96 times ranked	9699 citing authors

#	Article	IF	Citations
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. Nature Biotechnology, 2016, 34, 828-837.	17.5	2,802
2	Structure and Biosynthesis of the Jamaicamides, New Mixed Polyketide-Peptide Neurotoxins from the Marine Cyanobacterium Lyngbya majuscula. Chemistry and Biology, 2004, 11, 817-833.	6.0	453
3	Marine natural products as anticancer drugs. Molecular Cancer Therapeutics, 2005, 4, 333-42.	4.1	366
4	Reproducible molecular networking of untargeted mass spectrometry data using GNPS. Nature Protocols, 2020, 15, 1954-1991.	12.0	344
5	Coibamide A, a Potent Antiproliferative Cyclic Depsipeptide from the Panamanian Marine Cyanobacterium Leptolyngbya sp.. Journal of the American Chemical Society, 2008, 130, 6324-6325.	13.7	192
6	Symplocamide A, a Potent Cytotoxin and Chymotrypsin Inhibitor from the Marine Cyanobacterium Symploca sp.. Journal of Natural Products, 2008, 71, 22-27.	3.0	172
7	Survey of marine natural product structure revisions: A synergy of spectroscopy and chemical synthesis. Bioorganic and Medicinal Chemistry, 2011, 19, 6675-6701.	3.0	158
8	The Genome of Tolypocladium inflatum: Evolution, Organization, and Expression of the Cyclosporin Biosynthetic Gene Cluster. PLoS Genetics, 2013, 9, e1003496.	3.5	144
9	Antimalarial Linear Lipopeptides from a Panamanian Strain of the Marine CyanobacteriumLyngbyamajuscula. Journal of Natural Products, 2007, 70, 984-988.	3.0	143
10	Oxylipin Profiling of the Hypersensitive Response inArabidopsis thaliana. Journal of Biological Chemistry, 2006, 281, 31528-31537.	3.4	136
11	Isolation of Swinholide A and Related Glycosylated Derivatives from Two Field Collections of Marine Cyanobacteria. Organic Letters, 2005, 7, 1375-1378.	4.6	125
12	Deep-Sea Hydrothermal Vents: Potential Hot Spots for Natural Products Discovery?. Journal of Natural Products, 2010, 73, 489-499.	3.0	121
13	Ion identity molecular networking for mass spectrometry-based metabolomics in the GNPS environment. Nature Communications, 2021, 12, 3832.	12.8	119
14	Oxo-Phytodienoic Acid-Containing Galactolipids in Arabidopsis: Jasmonate Signaling Dependence. Plant Physiology, 2007, 145, 1658-1669.	4.8	104
15	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. Natural Product Reports, 2019, 36, 35-107.	10.3	92
16	Apratoxin H and Apratoxin A Sulfoxide from the Red Sea Cyanobacterium Moorea producens. Journal of Natural Products, 2013, 76, 1781-1788.	3.0	88
17	Analysis of macamides in samples of Maca (Lepidium meyenii) by HPLC-UV-MS/MS. Phytochemical Analysis, 2005, 16, 463-469.	2.4	83
18	Belamide A, a new antimitotic tetrapeptide from a Panamanian marine cyanobacterium. Tetrahedron Letters, 2006, 47, 3387-3390.	1.4	80

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19	Coibamide A Induces mTOR-Independent Autophagy and Cell Death in Human Glioblastoma Cells. PLoS ONE, 2013, 8, e65250.	2.5	80
20	ReDU: a framework to find and reanalyze public mass spectrometry data. Nature Methods, 2020, 17, 901-904.	19.0	79
21	Isolation and structure of five lyngbyabellin derivatives from a Papua New Guinea collection of the marine cyanobacterium Lyngbya majuscula. Tetrahedron, 2005, 61, 11723-11729.	1.9	75
22	Characterization of the Initial Enzymatic Steps of Barbamide Biosynthesis. Journal of Natural Products, 2006, 69, 938-944.	3.0	71
23	Neurotoxic Meroditerpenoids from the Tropical Marine Brown AlgaStypopodium flabelliforme. Journal of Natural Products, 2005, 68, 1022-1030.	3.0	67
24	Cyclic Depsipeptides, Grassypeptolides D and E and Ibu-epidemethoxylyngbyastatin 3, from a Red Sea Leptolyngbya Cyanobacterium. Journal of Natural Products, 2011, 74, 1677-1685.	3.0	67
25	Mandelalides Aâ€“D, Cytotoxic Macrolides from a New Lissoclinum Species of South African Tunicate. Journal of Organic Chemistry, 2012, 77, 6066-6075.	3.2	64
26	Santacruzamate A, a Potent and Selective Histone Deacetylase Inhibitor from the Panamanian Marine Cyanobacterium cf. Symploca sp.. Journal of Natural Products, 2013, 76, 2026-2033.	3.0	64
27	Sequestered Chemistry of the Arminacean NudibranchLemindamillecrain Algoa Bay, South Africa. Journal of Natural Products, 2001, 64, 1183-1190.	3.0	59
28	Coibacins Aâ€“D, Antileishmanial Marine Cyanobacterial Polyketides with Intriguing Biosynthetic Origins. Organic Letters, 2012, 14, 3878-3881.	4.6	56
29	The Structure and Synthesis of Tsitsikammafuran: A New Furanosesquiterpene from a South African Dysidea Sponge. Tetrahedron, 2000, 56, 9391-9396.	1.9	54
30	Semiplenamides Aâ^'G, Fatty Acid Amides from a Papua New Guinea Collection of the Marine CyanobacteriumLyngbyasemiplena. Journal of Natural Products, 2003, 66, 1364-1368.	3.0	52
31	Depsipeptide Companeramides from a Panamanian Marine Cyanobacterium Associated with the Coibamide Producer. Journal of Natural Products, 2015, 78, 413-420.	3.0	49
32	Coibamide A, a natural lariat depsipeptide, inhibits VEGFA/VEGFR2 expression and suppresses tumor growth in glioblastoma xenografts. Investigational New Drugs, 2016, 34, 24-40.	2.6	49
33	Increased Biosynthetic Gene Dosage in a Genome-Reduced Defensive Bacterial Symbiont. MSystems, 2017, 2, .	3.8	46
34	Formation of the Nonproteinogenic Amino Acid 2S,3R-Capreomycidine by VioD from the Viomycin Biosynthesis Pathway. ChemBioChem, 2004, 5, 1278-1281.	2.6	43
35	Evaluation of the Efficiency of Three Different Solvent Systems to Extract Triterpene Saponins from Roots of Panax quinquefolius Using High-Performance Liquid Chromatography. Journal of Agricultural and Food Chemistry, 2004, 52, 1546-1550.	5.2	42
36	Reactive oxygen species mediated apoptosis of esophageal cancer cells induced by marine triprenyl toluquinones and toluhydroquinones. Molecular Cancer Therapeutics, 2007, 6, 2535-2543.	4.1	42

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37	4-Formylaminooxyvinylglycine, an Herbicidal Germination-Arrest Factor from Pseudomonas Rhizosphere Bacteria. Journal of Natural Products, 2010, 73, 1853-1857.	3.0	41
38	Antimicrobial Rubrolides from a South African Species of Synoicum Tunicate. Journal of Natural Products, 2012, 75, 1824-1827.	3.0	41
39	Coibamide A Targets Sec61 to Prevent Biogenesis of Secretory and Membrane Proteins. ACS Chemical Biology, 2020, 15, 2125-2136.	3.4	39
40	Peyssonenynes A and B, Novel Enediyne Oxylipins with DNA Methyl Transferase Inhibitory Activity from the Red Marine AlgaPeyssonneliacaulifera. Journal of Natural Products, 2004, 67, 1010-1013.	3.0	37
41	Two cytotoxic stereoisomers of malyngamide C, 8-epi-malyngamide C and 8-O-acetyl-8-epi-malyngamide C, from the marine cyanobacterium Lyngbya majuscula. Phytochemistry, 2010, 71, 1729-1735.	2.9	37
42	Malyngamide 4, a new lipopeptide from the Red Sea marine cyanobacterium Moorea producens (formerly Lyngbya majuscula). Phytochemistry Letters, 2013, 6, 183-188.	1.2	35
43	Secondary Metabolism and Interspecific Competition Affect Accumulation of Spontaneous Mutants in the GacS-GacA Regulatory System in Pseudomonas protegens. MBio, 2018, 9, .	4.1	33
44	Three New Malyngamides from a Papua New Guinea Collection of the Marine Cyanobacterium Lyngbya majuscula. Journal of Natural Products, 2003, 66, 132-135.	3.0	31
45	Alkaloids fromEschscholziacalifornicaand Their Capacity to Inhibit Binding of [3H]8-Hydroxy-2-(di-N-propylamino)tetralin to 5-HT1AReceptors in Vitro#. Journal of Natural Products, 2006, 69, 432-435.	3.0	30
46	Enantioselective Total Synthesis of Mandelalide A and Isomandelalide A: Discovery of a Cytotoxic Ring-Expanded Isomer. Journal of the American Chemical Society, 2016, 138, 770-773.	13.7	30
47	A New Furanosesterterpene from the South African Nudibranch Hypselodoris capensis and a Dictyoceratida Sponge. Journal of Natural Products, 1998, 61, 961-964.	3.0	28
48	New spongiane diterpenes from the East African nudibranch Chromodoris hamiltoni. Tetrahedron, 1997, 53, 4655-4660.	1.9	27
49	Pseudomonas fluorescens SBW25 produces furanomycin, a non-proteinogenic amino acid with selective antimicrobial properties. BMC Microbiology, 2013, 13, 111.	3.3	27
50	Securing Economic Benefits and Promoting Conservation through Bioprospecting. BioScience, 2006, 56, 1005.	4.9	26
51	New Mandelalides Expand a Macrolide Series of Mitochondrial Inhibitors. Journal of Medicinal Chemistry, 2017, 60, 7850-7862.	6.4	26
52	Phloroglucinol functions as an intracellular and intercellular chemical messenger influencing gene expression in <scp>P</scp>seudomonas protegens. Environmental Microbiology, 2016, 18, 3296-3308.	3.8	25
53	Antiprotozoal Activity AgainstPlasmodium falciparum. andTrypanosoma cruzi. of Xanthones Isolated fromChrysochlamys tenuis.. Pharmaceutical Biology, 2006, 44, 550-553.	2.9	24
54	Weakly Antimalarial Flavonol Arabinofuranosides fromCalycolpuswarszewiczianus. Journal of Natural Products, 2006, 69, 826-828.	3.0	24

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55	New Halogenated Sesquiterpenes from South African Specimens of the Circumtropical Sea HareAplysiadactylomela. Journal of Natural Products, 1999, 62, 1618-1623.	3.0	23
56	Linking bioprospecting with sustainable development and conservation: the Panama case. Biodiversity and Conservation, 2007, 16, 2789-2800.	2.6	23
57	Germination-Arrest Factor (GAF): 3. Determination that the herbicidal activity of GAF is associated with a ninhydrin-reactive compound and counteracted by selected amino acids. Biological Control, 2009, 51, 181-190.	3.0	22
58	Wewakamide A and Guineamide G, Cyclic Depsipeptides from the Marine Cyanobacteria Lyngbya semiplena and Lyngbya majuscula. Journal of Microbiology and Biotechnology, 2011, 21, 930-936.	2.1	21
59	Synthetic Access to the Mandelalide Family of Macrolides: Development of an Anion Relay Chemistry Strategy. Journal of Organic Chemistry, 2018, 83, 4287-4306.	3.2	21
60	Supramolecular self assembly of nanodrill-like structures for intracellular delivery. Journal of Controlled Release, 2018, 282, 76-89.	9.9	21
61	Oxylipin Profiling of the Hypersensitive Response in Arabidopsis thaliana. Journal of Biological Chemistry, 2006, 281, 31528-31537.	3.4	20
62	Novel Cassane and Cleistanthane Diterpenes fromMyrospermumfrutescens:Â Absolute Stereochemistry of the Cassane Diterpene Series. Journal of Natural Products, 2004, 67, 1711-1715.	3.0	19
63	Hydroxyalkenylresorcinols from Stylogyne turbacensis. Journal of Natural Products, 2007, 70, 1249-1252.	3.0	19
64	Selective inhibition of Erwinia amylovora by the herbicidally active germination-arrest factor (GAF) produced by Pseudomonas bacteria. Journal of Applied Microbiology, 2011, 111, 949-959.	3.1	19
65	ATG5 Promotes Death Signaling in Response to the Cyclic Depsipeptides Coibamide A and Apratoxin A. Marine Drugs, 2018, 16, 77.	4.6	19
66	Molecular Networking Reveals Two Distinct Chemotypes in Pyrroloiminoquinone-Producing Tsitsikamma favus Sponges. Marine Drugs, 2019, 17, 60.	4.6	19
67	Bathymodiolamides A and B, Ceramide Derivatives from a Deep-Sea Hydrothermal Vent Invertebrate Mussel, Bathymodiolus thermophilus. Journal of Natural Products, 2011, 74, 842-846.	3.0	18
68	Synthesis and biological evaluation of the [d-MeAla11]-epimer of coibamide A. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 302-306.	2.2	18
69	Towards theory driven structure elucidation of complex natural products: mandelalides and coibamide A. Organic and Biomolecular Chemistry, 2016, 14, 5826-5831.	2.8	18
70	Apoptolidins A and C activate AMPK in metabolically sensitive cell types and are mechanistically distinct from oligomycin A. Biochemical Pharmacology, 2015, 93, 251-265.	4.4	17
71	Jizanpeptins, Cyanobacterial Protease Inhibitors from a Symploca sp. Cyanobacterium Collected in the Red Sea. Journal of Natural Products, 2018, 81, 1417-1425.	3.0	17
72	(3Z)-Bromofucin from a South African sea hare. Natural Product Research, 2005, 19, 449-452.	1.8	16

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73	Discovery of Mandelalide E and Determinants of Cytotoxicity for the Mandelalide Series. Organic Letters, 2016, 18, 1374-1377.	4.6	15
74	Radio-protective and antioxidative activities of astaxanthin from newly isolated radio-resistant bacterium Deinococcus sp. strain WMA-LM9. Annals of Microbiology, 2017, 67, 443-455.	2.6	14
75	Absolute Stereochemistry of Ibhayinol from a South African Sea Hare. Journal of Natural Products, 2002, 65, 580-582.	3.0	13
76	3,4-Dehydrodebrisoquine, a Novel Debrisoquine Metabolite Formed from 4-Hydroxydebrisoquine That Affects the CYP2D6 Metabolic Ratio. Drug Metabolism and Disposition, 2006, 34, 1563-1574.	3.3	13
77	2,3-Seco-2,3-dioxo-lyngbyatoxin A from a Red Sea strain of the marine cyanobacterium Moorea producens. Natural Product Research, 2015, 29, 703-709.	1.8	13
78	Targeting of HER/ErbB family proteins using broad spectrum Sec61 inhibitors coibamide A and apratoxin A. Biochemical Pharmacology, 2021, 183, 114317.	4.4	13
79	Tolypocladamide H and the Proposed Tolypocladamide NRPS in Tolypocladium Species. Journal of Natural Products, 2022, 85, 1363-1373.	3.0	10
80	Two-step total synthesis of an anti-MRSA and myosin-inhibiting marine natural product pentabromopseudilin via Suzuki-Miyaura coupling of a MIDA boronate ester. Tetrahedron Letters, 2017, 58, 3374-3376.	1.4	6
81	Indomethacin reduces lipid peroxidation in rat brain homogenate by binding Fe2+. Metabolic Brain Disease, 2003, 18, 1-9.	2.9	5
82	Canine osteosarcoma cells exhibit basal accumulation of multiple chaperone proteins and are sensitive to small molecule inhibitors of GRP78 and heat shock protein function. Cell Stress and Chaperones, 2022, 27, 223-239.	2.9	4
83	The Marine-Derived Macrolactone Mandelalide A Is an Indirect Activator of AMPK. Marine Drugs, 2022, 20, 418.	4.6	4
84	Development of a Quantitative Assay Amenable for High-Throughput Screening to Target the Type II Secretion System for New Treatments against Plant-Pathogenic Bacteria. Journal of Biomolecular Screening, 2013, 18, 921-929.	2.6	3
85	Utilization of Vibrio cholerae as aÂModel Organism to Screen Natural Product Libraries for Identification of New Antibiotics. Methods in Molecular Biology, 2018, 1839, 135-146.	0.9	3
86	Design of Coibamide A Mimetics with Improved Cellular Bioactivity. ACS Medicinal Chemistry Letters, 2022, 13, 105-110.	2.8	2
87	The marine natural product coibamide targets expression of HER family receptors. FASEB Journal, 2018, 32, lb670.	0.5	0