

Bill J Baker

List of Publications by Year in descending order

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100
papers

3,536
citations

101543

36
h-index

149698

56
g-index

107
all docs

107
docs citations

107
times ranked

2724
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolites from an Antarctic Sponge-Associated Bacterium, <i>Pseudomonas aeruginosa</i> . <i>Journal of Natural Products</i> , 1996, 59, 293-296.	3.0	237
2	Ecology of Antarctic Marine Sponges: An Overview. <i>Integrative and Comparative Biology</i> , 2005, 45, 359-368.	2.0	173
3	Palmerolide A, a Cytotoxic Macrolide from the Antarctic Tunicate <i>Synoicum adareanum</i> . <i>Journal of the American Chemical Society</i> , 2006, 128, 5630-5631.	13.7	162
4	Cold-water marine natural products. <i>Natural Product Reports</i> , 2007, 24, 774.	10.3	145
5	Patterns of gammaridean amphipod abundance and species composition associated with dominant subtidal macroalgae from the western Antarctic Peninsula. <i>Polar Biology</i> , 2007, 30, 1417-1430.	1.2	94
6	Surface sequestration of chemical feeding deterrents in the Antarctic sponge <i>Latrunculia apicalis</i> as an optimal defense against sea star spongivory. <i>Marine Biology</i> , 2003, 143, 443-449.	1.5	91
7	Feeding rates of common Antarctic gammarid amphipods on ecologically important sympatric macroalgae. <i>Journal of Experimental Marine Biology and Ecology</i> , 2006, 329, 55-65.	1.5	90
8	Epigenetic Tailoring for the Production of Anti-Infective Cytosporones from the Marine Fungus <i>Leucostoma persoonii</i> . <i>Marine Drugs</i> , 2012, 10, 762-774.	4.6	89
9	Chemical Investigation of Predator-Deterred Macroalgae from the Antarctic Peninsula. <i>Journal of Natural Products</i> , 2004, 67, 1295-1302.	3.0	84
10	Cold-water marine natural products, 2006 to 2016. <i>Natural Product Reports</i> , 2017, 34, 585-626.	10.3	80
11	Chemical mediation of mutualistic interactions between macroalgae and mesograzers structure unique coastal communities along the western Antarctic Peninsula. <i>Journal of Phycology</i> , 2014, 50, 1-10.	2.3	77
12	A Species Flock Driven by Predation? Secondary Metabolites Support Diversification of Slugs in Antarctica. <i>PLoS ONE</i> , 2013, 8, e80277.	2.5	76
13	Overview of the Chemical Ecology of Benthic Marine Invertebrates along the Western Antarctic Peninsula. <i>Integrative and Comparative Biology</i> , 2010, 50, 967-980.	2.0	72
14	Ecdysteroids from the Antarctic Tunicate <i>Synoicum adareanum</i> . <i>Journal of Natural Products</i> , 2007, 70, 1859-1864.	3.0	66
15	Defenses of polar macroalgae against herbivores and biofoulers. <i>Botanica Marina</i> , 2009, 52, 535-545.	1.2	64
16	Variation in phlorotannin content within two species of brown macroalgae (<i>Desmarestia anceps</i> and <i>Tj ETQq0 0 0 rgBT / Overlock 10 Tf</i>)	1.2	61
17	Chemically mediated resistance to mesoherbivory in finely branched macroalgae along the western Antarctic Peninsula. <i>European Journal of Phycology</i> , 2010, 45, 19-26.	2.0	61
18	Within-thallus variation in chemical and physical defences in two species of ecologically dominant brown macroalgae from the Antarctic Peninsula. <i>Journal of Experimental Marine Biology and Ecology</i> , 2005, 322, 1-12.	1.5	60

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19	LACK OF DEFENSE OR PHLOROTANNIN INDUCTION BY LIV RADIATION OR MESOGRAZERS IN DESMARESTIA ANCEPS AND D. MENZIESII (PHAEOPHYCEAE) 1. Journal of Phycology, 2006, 42, 1174-1183.	2.3	58
20	Screening Mangrove Endophytic Fungi for Antimalarial Natural Products. Marine Drugs, 2013, 11, 5036-5050.	4.6	58
21	Ainigmaptilones, Sesquiterpenes from the Antarctic Gorgonian Coral <i>Ainigmaptilon antarcticus</i> . Journal of Natural Products, 2003, 66, 888-890.	3.0	55
22	Shagenes A and B, New Tricyclic Sesquiterpenes Produced by an Undescribed Antarctic Octocoral. Organic Letters, 2014, 16, 2630-2633.	4.6	55
23	Norselic Acids \hat{E} , Highly Oxidized Anti-infective Steroids that Deter Mesograzer Predation, from the Antarctic Sponge <i>Crella</i> sp.. Journal of Natural Products, 2009, 72, 1842-1846.	3.0	54
24	Isolation, Structure Elucidation, and Biological Activity of the Steroid Oligoglycosides and Polyhydroxysteroids from the Antarctic Starfish <i>Acodontaster conspicuus</i> . Journal of Natural Products, 1997, 60, 959-966.	3.0	52
25	Characterization of the Microbial Community and Polyketide Biosynthetic Potential in the Palmerolide-Producing Tunicate <i>Synoicum adareanum</i> . Journal of Natural Products, 2008, 71, 1812-1818.	3.0	52
26	An evaluation of sponge-associated amphipods from the Antarctic Peninsula. Antarctic Science, 2009, 21, 579-589.	0.9	52
27	Filamentous algal endophytes in macrophytic Antarctic algae: prevalence in hosts and palatability to mesoherbivores. Phycologia, 2009, 48, 324-334.	1.4	51
28	Site-Specific Variability in the Chemical Diversity of the Antarctic Red Alga <i>Plocamium cartilagineum</i> . Marine Drugs, 2013, 11, 2126-2139.	4.6	49
29	Palmerolide macrolides from the Antarctic tunicate <i>Synoicum adareanum</i> . Bioorganic and Medicinal Chemistry, 2011, 19, 6608-6614.	3.0	48
30	Darwinolide, a New Diterpene Scaffold That Inhibits Methicillin-Resistant <i>Staphylococcus aureus</i> Biofilm from the Antarctic Sponge <i>Dendrilla membranosa</i> . Organic Letters, 2016, 18, 2596-2599.	4.6	47
31	Palmadorin chemodiversity from the Antarctic nudibranch <i>Austrodoris kerguelenensis</i> and inhibition of Jak2/STAT5-dependent HEL leukemia cells. Tetrahedron, 2012, 68, 9095-9104.	1.9	46
32	Further Membranolide Diterpenes from the Antarctic Sponge <i>Dendrilla membranosa</i> . Journal of Natural Products, 2004, 67, 1172-1174.	3.0	43
33	Reactive oxygen species and the Antarctic macroalgal wound response. Journal of Phycology, 2014, 50, 71-80.	2.3	41
34	Chemical and Ecological Studies of the Antarctic Sponge <i>Dendrilla membranosa</i> . Journal of Natural Products, 1995, 58, 1459-1462.	3.0	40
35	Palatability of the Antarctic rhodophyte <i>Palmaria decipiens</i> (Reinsch) RW Ricker and its endo/epiphyte <i>Elachista antarctica</i> Skottsborg to sympatric amphipods. Journal of Experimental Marine Biology and Ecology, 2011, 396, 202-206.	1.5	40
36	Impacts of acute elevated seawater temperature on the feeding preferences of an Antarctic amphipod toward chemically deterrent macroalgae. Marine Biology, 2015, 162, 425-433.	1.5	39

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37	A laboratory study of behavioral interactions of the Antarctic keystone sea star <i>Odontaster validus</i> with three sympatric predatory sea stars. <i>Marine Biology</i> , 2008, 154, 1077-1084.	1.5	35
38	On the stereochemistry of palmerolide A. <i>Tetrahedron Letters</i> , 2007, 48, 8009-8010.	1.4	34
39	Field studies on deterrent properties of phlorotannins in Antarctic brown algae. <i>Botanica Marina</i> , 2009, 52, 547-557.	1.2	34
40	Potential chemical defenses against diatom fouling in Antarctic macroalgae. <i>Botanica Marina</i> , 2005, 48, .	1.2	32
41	CNS and antimalarial activity of synthetic meridianin and psammopemmin analogs. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 5756-5762.	3.0	31
42	Elucidating a chemical defense mechanism of Antarctic sponges: A computational study. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 71, 104-115.	2.4	30
43	Inhibition of Bacterial Quorum Sensing and Biofilm Formation by Extracts of Neotropical Rainforest Plants. <i>Planta Medica</i> , 2014, 80, 343-350.	1.3	28
44	Chemo-tactile predator avoidance responses of the common Antarctic limpet <i>Nacella concinna</i> . <i>Polar Biology</i> , 2002, 25, 469-473.	1.2	27
45	IMPACTS OF MESOGRAZERS ON EPIPHYTE AND ENDOPHYTE GROWTH ASSOCIATED WITH CHEMICALLY DEFENDED MACROALGAE FROM THE WESTERN ANTARCTIC PENINSULA: A MESOCOSM EXPERIMENT¹. <i>Journal of Phycology</i> , 2011, 47, 36-41.	2.3	27
46	Isolation and Identification of a Stilbene Derivative from the Antarctic Sponge <i>Kirkpatrickia variolosa</i> . <i>Journal of Natural Products</i> , 1995, 58, 1958-1960.	3.0	25
47	Changes in amphipod densities among macroalgal habitats in day versus night collections along the Western Antarctic Peninsula. <i>Marine Biology</i> , 2011, 158, 1879-1885.	1.5	25
48	Potential chemical defenses of Antarctic sponges against sympatric microorganisms. <i>Polar Biology</i> , 2010, 33, 649-658.	1.2	23
49	Gut content, fatty acid, and stable isotope analyses reveal dietary sources of macroalgal-associated amphipods along the western Antarctic Peninsula. <i>Polar Biology</i> , 2017, 40, 1371-1384.	1.2	22
50	Spongian Diterpenoids Derived from the Antarctic Sponge <i>Dendrilla antarctica</i> Are Potent Inhibitors of the <i>Leishmania</i> Parasite. <i>Journal of Natural Products</i> , 2020, 83, 1553-1562.	3.0	22
51	Palmdorins Aâˆ™C, Diterpene Glycerides from the Antarctic Nudibranch <i>Austrodoris kerguelensis</i> . <i>Journal of Natural Products</i> , 2010, 73, 416-421.	3.0	21
52	Exploitation of Mangrove Endophytic Fungi for Infectious Disease Drug Discovery. <i>Marine Drugs</i> , 2018, 16, 376.	4.6	21
53	Reactive oxygen species as a marine grazing defense: H ₂ O ₂ and wounded <i>Ascoseira mirabilis</i> both inhibit feeding by an amphipod grazer. <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 458, 34-38.	1.5	20
54	Marine Terpenoids from Polar Latitudes and Their Potential Applications in Biotechnology. <i>Marine Drugs</i> , 2020, 18, 401.	4.6	20

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55	Synthesis of the C3 ¹⁴ fragment of palmerolide A using a chiral pool based strategy. <i>Tetrahedron</i> , 2010, 66, 1557-1562.	1.9	19
56	Synthesis, Stereochemical Analysis, and Derivatization of Myricanol Provide New Probes That Promote Autophagic Tau Clearance. <i>ACS Chemical Biology</i> , 2015, 10, 1099-1109.	3.4	18
57	A comprehensive evaluation of the potential chemical defenses of antarctic ascidians against sympatric fouling microorganisms. <i>Marine Biology</i> , 2011, 158, 2661-2671.	1.5	17
58	A new carnivorous shallow-water sponge from McMurdo Sound, Antarctica (Porifera, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (Poe	1.0	17
59	Amphipods exclude filamentous algae from the Western Antarctic Peninsula benthos: experimental evidence. <i>Polar Biology</i> , 2012, 35, 171-177.	1.2	17
60	Keikipukalides, Furanocembrane Diterpenes from the Antarctic Deep Sea Octocoral Plumarella delicatissima. <i>Journal of Natural Products</i> , 2018, 81, 117-123.	3.0	17
61	Conditioned media and organic elicitors underpin the production of potent antiplasmodial metabolites by endophytic fungi from Cameroonian medicinal plants. <i>Parasitology Research</i> , 2018, 117, 2473-2485.	1.6	17
62	Anverenes B ^E , New Polyhalogenated Monoterpenes from the Antarctic Red Alga Plocamium cartilagineum. <i>Marine Drugs</i> , 2019, 17, 230.	4.6	16
63	Palatability of living and dead detached Antarctic macroalgae to consumers. <i>Antarctic Science</i> , 2012, 24, 589-590.	0.9	15
64	Bioactivity of Spongian Diterpenoid Scaffolds from the Antarctic Sponge Dendrilla antarctica. <i>Marine Drugs</i> , 2020, 18, 327.	4.6	15
65	Chemical defences in embryos and juveniles of two common Antarctic sea stars and an isopod. <i>Antarctic Science</i> , 2003, 15, 339-344.	0.9	14
66	Gut contents and stable isotope analyses of the Antarctic fish, <i>Notothenia coriiceps</i> (Richardson), from two macroalgal communities. <i>Antarctic Science</i> , 2011, 23, 107-116.	0.9	14
67	Uncovering the Core Microbiome and Distribution of Palmerolide in Synoicum adareanum Across the Anvers Island Archipelago, Antarctica. <i>Marine Drugs</i> , 2020, 18, 298.	4.6	12
68	Fromaramide, a Highly Modified Linear Hexapeptide from an Antarctic Sponge, Inhibits Plasmodium falciparum Liver-Stage Development. <i>Journal of Natural Products</i> , 2019, 82, 2354-2358.	3.0	11
69	Impacts of gastropods on epiphytic microalgae on the brown macroalga <i>Himantothallus grandifolius</i> . <i>Antarctic Science</i> , 2019, 31, 89-97.	0.9	11
70	Every Rule Has an Exception: a Cheater in the Community-Wide Mutualism in Antarctic Seaweed Forests. <i>Integrative and Comparative Biology</i> , 2020, 60, 1358-1368.	2.0	10
71	Hidden Diversity in an Antarctic Algal Forest: Metabolomic Profiling Linked to Patterns of Genetic Diversification in the Antarctic Red Alga Plocamium sp.. <i>Marine Drugs</i> , 2021, 19, 607.	4.6	10
72	Bathypilones: Terpenoids from an Antarctic Sea Pen, <i>Anthoptilum grandiflorum</i> (Verrill, 1879). <i>Marine Drugs</i> , 2019, 17, 513.	4.6	9

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73	Accumulation of vanadium, manganese, and nickel in Antarctic tunicates. <i>Polar Biology</i> , 2011, 34, 587-590.	1.2	8
74	Deep-Sea Coral Garden Invertebrates and Their Associated Fungi Are Genetic Resources for Chronic Disease Drug Discovery. <i>Marine Drugs</i> , 2021, 19, 390.	4.6	8
75	The biochemical composition, energy content, and chemical antifeedant defenses of the common Antarctic Peninsular sea stars <i>Granaster nutrix</i> and <i>Neosmilaster georgianus</i> . <i>Polar Biology</i> , 2006, 29, 615-623.	1.2	7
76	Effects of Macroalgal Chemical Extracts on Spore Behavior of the Antarctic Epiphyte <i>Elachista antarctica</i> Phaeophyceae. <i>Journal of Phycology</i> , 2012, 48, 1403-1410.	2.3	7
77	A potent antimalarial trichothecene from hyphomycete species. <i>Tetrahedron Letters</i> , 2014, 55, 3989-3991.	1.4	7
78	Specialized antiplasmodial secondary metabolites from <i>Aspergillus niger</i> 58, an endophytic fungus from <i>Terminalia catappa</i> . <i>Journal of Ethnopharmacology</i> , 2021, 269, 113672.	4.1	7
79	Discovery of an Antarctic Ascidian-Associated Uncultivated <i>Verrucomicrobia</i> with Antimelanoma Palmerolide Biosynthetic Potential. <i>MSphere</i> , 2021, 6, e0075921.	2.9	7
80	Bioinformatic and Mechanistic Analysis of the Palmerolide PKS-NRPS Biosynthetic Pathway From the Microbiome of an Antarctic Ascidian. <i>Frontiers in Chemistry</i> , 2021, 9, 802574.	3.6	7
81	Gastropod assemblages associated with <i>Himantothallus grandifolius</i> , <i>Sarcopeltis antarctica</i> and other subtidal macroalgae. <i>Antarctic Science</i> , 0, , 1-10.	0.9	7
82	Introduction to the Symposium: Antarctic Marine Biology. <i>American Zoologist</i> , 2001, 41, 1-2.	0.7	6
83	Identification of Communal Oviposition Pheromones from the Black Fly <i>Simulium vittatum</i> . <i>PLoS ONE</i> , 2015, 10, e0118904.	2.5	6
84	Miniaturized Cultivation of Microbiota for Antimalarial Drug Discovery. <i>Medicinal Research Reviews</i> , 2016, 36, 144-168.	10.5	6
85	Tuaimenal A, a Meroterpene from the Irish Deep-Sea Soft Coral <i>Duva florida</i> , Displays Inhibition of the SARS-CoV-2 3CLpro Enzyme. <i>Journal of Natural Products</i> , 2022, 85, 1315-1323.	3.0	6
86	Synthesis of Pteroenone and Its Stereoisomers, a Defensive Metabolite of the Abducted Antarctic Pteropod <i>Clione antarctica</i> . <i>Helvetica Chimica Acta</i> , 2010, 93, 1933-1944.	1.6	5
87	Australindolones, New Aminopyrimidine Substituted Indolone Alkaloids from an Antarctic Tunicate <i>Synoicum</i> sp.. <i>Marine Drugs</i> , 2022, 20, 196.	4.6	5
88	Not Drug-like, but Like Drugs: Cnidaria Natural Products. <i>Marine Drugs</i> , 2022, 20, 42.	4.6	5
89	From Antarctica to cancer research: a novel human DNA topoisomerase 1B inhibitor from Antarctic sponge <i>Dendrilla antarctica</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 1404-1410.	5.2	5
90	One Antarctic slug to confuse them all: the underestimated diversity of <i>Doris kerguelenensis</i> . <i>Invertebrate Systematics</i> , 2022, 36, 419.	1.3	5

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91	Algicidal activity and potential antifouling defenses in macroalgae from the western Antarctic Peninsula including probable synergistic effects of multiple compounds. <i>Botanica Marina</i> , 2012, 55, 311-315.	1.2	4
92	Chemical Mediation of Antarctic Macroalga-Grazer Interactions. , 2020, , 339-363.		4
93	Tongalides, Halogenated Butenolides from an Antarctic <i>Delisea</i> sp. Rhodophyte. <i>Journal of Natural Products</i> , 2022, 85, 1886-1891.	3.0	3
94	Chromatographic editing enhances natural product discovery. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 176, 112831.	2.8	2
95	Draft Genome Sequence of <i>Verrucosispora</i> sp. Strain CWR15, Isolated from a Gulf of Mexico Sponge. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	2
96	Who Cares More about Chemical Defenses – the Macroalgal Producer or Its Main Grazer?. <i>Journal of Chemical Ecology</i> , 2022, 48, 416-430.	1.8	2
97	Screening Marine Microbial Libraries. , 2015, , 105-134.		1
98	Introduction to the Symposium: New Frontiers in Antarctic Marine Biology. <i>Integrative and Comparative Biology</i> , 2020, 60, 1355-1357.	2.0	1
99	Phototactic responses of <i>Elachista antarctica</i> (Phaeophyceae) spores of different ages across a broad irradiance range using new motion analysis software. <i>Botanica Marina</i> , 2012, 55, .	1.2	0
100	Marine Natural Products with Bioactivity Against Neglected Tropical Diseases. <i>Topics in Heterocyclic Chemistry</i> , 2021, , 209-251.	0.2	0