

John B Macmillan

List of Publications by Year in descending order

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81
papers

4,517
citations

87888

38
h-index

106344

65
g-index

102
all docs

102
docs citations

102
times ranked

7136
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibiotic natural product hunanamycin A: Lead identification towards anti-Salmonella agents. <i>European Journal of Medicinal Chemistry</i> , 2022, 236, 114245.	5.5	1
2	Boron NMR as a Method to Screen Natural Product Libraries for B-Containing Compounds. <i>Organic Letters</i> , 2022, 24, 3161-3166.	4.6	3
3	Draft Genome Sequence of Marine Actinobacterium <i>Streptomyces spinoverrucosus</i> SNB-032. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	1
4	Strategies and Approaches for Discovery of Small Molecule Disruptors of Biofilm Physiology. <i>Molecules</i> , 2021, 26, 4582.	3.8	5
5	Improving natural product research translation: From source to clinical trial. <i>FASEB Journal</i> , 2020, 34, 41-65.	0.5	45
6	Targeting and extending the eukaryotic druggable genome with natural products. <i>Natural Product Reports</i> , 2020, 37, 744-746.	10.3	5
7	The Serotonin Neurotransmitter Modulates Virulence of Enteric Pathogens. <i>Cell Host and Microbe</i> , 2020, 28, 41-53.e8.	11.0	70
8	Synthesis and Investigation of the Abiotic Formation of Pyonitrins Aâ€“D. <i>Organic Letters</i> , 2020, 22, 1516-1519.	4.6	12
9	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. <i>Natural Product Reports</i> , 2019, 36, 35-107.	10.3	92
10	A Genome-wide Functional Signature Ontology Map and Applications to Natural Product Mechanism of Action Discovery. <i>Cell Chemical Biology</i> , 2019, 26, 1380-1392.e6.	5.2	8
11	Isolation, Structure, and Total Synthesis of the Marine Macrolide Mangrolide D. <i>Organic Letters</i> , 2019, 21, 2957-2961.	4.6	17
12	A Functional Signature Ontology (FUSION) screen detects an AMPK inhibitor with selective toxicity toward human colon tumor cells. <i>Scientific Reports</i> , 2018, 8, 3770.	3.3	14
13	Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. <i>Cell</i> , 2018, 173, 864-878.e29.	28.9	102
14	Chromomycin A2 potently inhibits glucose-stimulated insulin secretion from pancreatic Î² cells. <i>Journal of General Physiology</i> , 2018, 150, 1747-1757.	1.9	9
15	HORMAD1 Is a Negative Prognostic Indicator in Lung Adenocarcinoma and Specifies Resistance to Oxidative and Genotoxic Stress. <i>Cancer Research</i> , 2018, 78, 6196-6208.	0.9	50
16	Daryamide Analogues from a Marine-Derived <i>Streptomyces</i> species. <i>Journal of Natural Products</i> , 2017, 80, 1096-1101.	3.0	8
17	Carpatizine, a novel bridged oxazine derivative generated by non-enzymatic reactions. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5275-5278.	2.8	1
18	Palliative Care Professional Development for Critical Care Nurses: A Multicenter Program. <i>American Journal of Critical Care</i> , 2017, 26, 361-371.	1.6	41

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19	Small-molecule TFEB pathway agonists that ameliorate metabolic syndrome in mice and extend <i>C. elegans</i> lifespan. <i>Nature Communications</i> , 2017, 8, 2270.	12.8	121
20	FUSION-Guided Hypothesis Development Leads to the Identification of N ₆ ,N ₆ -Dimethyladenosine, a Marine-Derived AKT Pathway Inhibitor. <i>Marine Drugs</i> , 2017, 15, 75.	4.6	14
21	Discovery, Characterization, and Analogue Synthesis of Bohemamine Dimers Generated by Non-enzymatic Biosynthesis. <i>Chemistry - A European Journal</i> , 2016, 22, 3491-3495.	3.3	38
22	Ammosamides Unveil Novel Biosynthetic Machinery. <i>Cell Chemical Biology</i> , 2016, 23, 1444-1446.	5.2	3
23	Rifamycin Biosynthetic Congeners: Isolation and Total Synthesis of Rifsaliniketol and Total Synthesis of Salinisporamycin and Saliniketols A and B. <i>Journal of the American Chemical Society</i> , 2016, 138, 7130-7142.	13.7	25
24	Ikurugamycin: A Natural Product Inhibitor of Clathrin-Mediated Endocytosis. <i>Traffic</i> , 2016, 17, 1139-1149.	2.7	65
25	Functional Identification of Putrescine C- and N-Hydroxylases. <i>ACS Chemical Biology</i> , 2016, 11, 2782-2789.	3.4	26
26	Insulin Promoter-Driven <i>Gussia</i> Luciferase-Based Insulin Secretion Biosensor Assay for Discovery of β -Cell Glucose-Sensing Pathways. <i>ACS Sensors</i> , 2016, 1, 1208-1212.	7.8	39
27	One-Pot Synthesis of 5-Hydroxy-4 <i>H</i> -1,3-thiazin-4-ones: Structure Revision, Synthesis, and NMR Shift Dependence of Thiasporine A. <i>Organic Letters</i> , 2016, 18, 3070-3073.	4.6	23
28	Metabolite Regulation of Nuclear Localization of Carbohydrate-response Element-binding Protein (ChREBP). <i>Journal of Biological Chemistry</i> , 2016, 291, 10515-10527.	3.4	58
29	ICU Bedside Nurses' Involvement in Palliative Care Communication: A Multicenter Survey. <i>Journal of Pain and Symptom Management</i> , 2016, 51, 589-596.e2.	1.2	45
30	Detailed Mechanistic Study of the Non-enzymatic Formation of the Discoipyrrole Family of Natural Products. <i>Journal of the American Chemical Society</i> , 2016, 138, 2383-2388.	13.7	22
31	1,3-Oxazin-6-one Derivatives and Bohemamine-Type Pyrrolizidine Alkaloids from a Marine-Derived <i>Streptomyces spinoverrucosus</i> . <i>Journal of Natural Products</i> , 2016, 79, 455-462.	3.0	36
32	Total Syntheses and Biological Evaluation of Both Enantiomers of Several Hydroxylated Dimeric Nuphar Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10604-10607.	13.8	24
33	Spithioneines A and B, Two New Bohemamine Derivatives Possessing Ergothioneine Moiety from a Marine-Derived <i>Streptomyces spinoverrucosus</i> . <i>Organic Letters</i> , 2015, 17, 3046-3049.	4.6	41
34	Thiasporines A-C, Thiazine and Thiazole Derivatives from a Marine-Derived <i>Actinomycetospora chlora</i> . <i>Journal of Natural Products</i> , 2015, 78, 548-551.	3.0	40
35	Structure elucidation of nigricanoside A through enantioselective total synthesis. <i>Chemical Science</i> , 2015, 6, 2932-2937.	7.4	13
36	Mode of action and pharmacogenomic biomarkers for exceptional responders to didemnin B. <i>Nature Chemical Biology</i> , 2015, 11, 401-408.	8.0	54

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37	Isoform-Selective and Stereoselective Inhibition of Hypoxia Inducible Factor-2. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5930-5941.	6.4	59
38	Structural and Mechanistic Roles of Novel Chemical Ligands on the SdiA Quorum-Sensing Transcription Regulator. <i>MBio</i> , 2015, 6, .	4.1	81
39	AMPK Promotes Aberrant PGC1 β Expression To Support Human Colon Tumor Cell Survival. <i>Molecular and Cellular Biology</i> , 2015, 35, 3866-3879.	2.3	33
40	Next Generation XPO1 Inhibitor Shows Improved Efficacy and In Vivo Tolerability in Hematologic Malignancies. <i>Blood</i> , 2015, 126, 317-317.	1.4	1
41	Inducamides Aâ€”C, Chlorinated Alkaloids from an RNA Polymerase Mutant Strain of <i>Streptomyces</i> sp.. <i>Organic Letters</i> , 2014, 16, 5656-5659.	4.6	42
42	Carpatamides Aâ€”C, Cytotoxic Arylamine Derivatives from a Marine-Derived <i>Streptomyces</i> sp.. <i>Journal of Natural Products</i> , 2014, 77, 1245-1248.	3.0	22
43	Serum amyloid A is a retinol binding protein that transports retinol during bacterial infection. <i>ELife</i> , 2014, 3, e03206.	6.0	108
44	Abstract A07: Novel effectors of K-Ras-mediated and KSR1 dependent colon tumorigenesis. , 2014, , .		0
45	Development of Inhibitors of the PAS-B Domain of the HIF-2 α Transcription Factor. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 1739-1747.	6.4	101
46	Discoipyrroles Aâ€”D: Isolation, Structure Determination, and Synthesis of Potent Migration Inhibitors from <i>Bacillus hunanensis</i> . <i>Journal of the American Chemical Society</i> , 2013, 135, 13387-13392.	13.7	63
47	Precursor-directed generation of amidine containing ammosamide analogs: ammosamides Eâ€”P. <i>Chemical Science</i> , 2013, 4, 482-488.	7.4	71
48	Hunanamycin A, an Antibiotic from a Marine-Derived <i>Bacillus hunanensis</i> . <i>Organic Letters</i> , 2013, 15, 390-393.	4.6	36
49	Using Functional Signature Ontology (FUSION) to Identify Mechanisms of Action for Natural Products. <i>Science Signaling</i> , 2013, 6, ra90.	3.6	66
50	Nuclear export inhibition through covalent conjugation and hydrolysis of Leptomycin B by CRM1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1303-1308.	7.1	163
51	Ammosamide D, an Oxidatively Ring Opened Ammosamide Analog from a Marine-Derived <i>Streptomyces variabilis</i> . <i>Organic Letters</i> , 2012, 14, 2390-2393.	4.6	45
52	Erythrolic acids Aâ€”E, Meroterpenoids from a Marine-Derived <i>Erythrobacter</i> sp.. <i>Journal of Organic Chemistry</i> , 2012, 77, 3401-3407.	3.2	26
53	A Labeled Substrate Approach to Discovery of Biocatalytic Reactions: A Proof of Concept Transformation with N-Methylindole. <i>Journal of the American Chemical Society</i> , 2012, 134, 12378-12381.	13.7	11
54	Antraquinones from a Marine-Derived <i>Streptomyces spinoverrucosus</i> . <i>Journal of Natural Products</i> , 2012, 75, 1759-1764.	3.0	31

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55	The Deep Oceans as a Source for New Treatments for Cancer. , 2012, , 83-91.		0
56	Erythrazoles Aâ€“B, Cytotoxic Benzothiazoles from a Marine-Derived <i>Erythrobacter</i> sp.. Organic Letters, 2011, 13, 6580-6583.	4.6	56
57	Chromomycin SA analogs from a marine-derived Streptomyces sp.. Bioorganic and Medicinal Chemistry, 2011, 19, 5183-5189.	3.0	24
58	Towards patient-based cancer therapeutics. Nature Biotechnology, 2010, 28, 904-906.	17.5	65
59	Ammosamidesâ€“A and B Target Myosin. Angewandte Chemie - International Edition, 2009, 48, 728-732.	13.8	99
60	The Ammosamides: Structures of Cell Cycle Modulators from a Marineâ€“Derived <i>Streptomyces</i> Species. Angewandte Chemie - International Edition, 2009, 48, 725-727.	13.8	162
61	RNA Polymerase III Detects Cytosolic DNA and Induces Type I Interferons through the RIG-I Pathway. Cell, 2009, 138, 576-591.	28.9	1,026
62	Deconvolution of Complex NMR Spectra in Small Molecules by Multi Frequency Homonuclear Decoupling (MDEC). Journal of the American Chemical Society, 2009, 131, 15994-15995.	13.7	27
63	Lodopyridone, a Structurally Unprecedented Alkaloid from a Marine Actinomycete. Organic Letters, 2009, 11, 5422-5424.	4.6	79
64	An N-acyl homolog of mycothiol is produced in marine actinomycetes. Archives of Microbiology, 2008, 190, 547-557.	2.2	23
65	Phorbasides Aâ€“E, Cytotoxic Chlorocyclopropane Macrolide Glycosides from the Marine Sponge <i>Phorbas</i> sp. CD Determination of <i>C</i>-Methyl Sugar Configurations. Journal of Organic Chemistry, 2008, 73, 3699-3706.	3.2	53
66	Chlorocyclopropane Macrolides from the Marine Sponge Phorbasp. Assignment of the Configurations of Phorbasides A and B by Quantitative CD. Journal of the American Chemical Society, 2007, 129, 4150-4151.	13.7	47
67	Caminosides Bâ€“D, Antimicrobial Glycolipids Isolated from the Marine Sponge Caminusphaeroconia. Journal of Natural Products, 2006, 69, 173-177.	3.0	48
68	Tropolactones Aâ€“D, four meroterpenoids from a marine-derived fungus of the genus Aspergillus. Phytochemistry, 2006, 67, 1826-1831.	2.9	54
69	Oceanalin A, a Hybrid Î±,Î±-Bifunctionalized Sphingoid Tetrahydroisoquinoline Î²-Glycoside from the Marine Sponge Oceanapia sp.. Organic Letters, 2005, 7, 2897-2900.	4.6	33
70	Majusculoic Acid, a Brominated Cyclopropyl Fatty Acid from a Marine Cyanobacterial Mat Assemblage. Journal of Natural Products, 2005, 68, 604-606.	3.0	42
71	Stereochemical Assignment in Acyclic Lipids Across Long Distance by Circular Dichroism: Absolute Stereochemistry of the Aglycone of Caminoside A. Angewandte Chemie - International Edition, 2004, 43, 5946-5951.	13.8	25
72	Enantioselective Total Synthesis of (+)-Milnamide A and Evidence of Its Autoxidation to (+)-Milnamide D. Angewandte Chemie - International Edition, 2004, 43, 5951-5954.	13.8	39

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73	(2S,3R)-2-Aminododecan-3-ol, a New Antifungal Agent from the Ascidian <i>Clavelina oblonga</i> . <i>Journal of Natural Products</i> , 2004, 67, 1879-1881.	3.0	56
74	Long-Range Stereo-Relay: Relative and Absolute Configuration of 1,n-Glycols from Circular Dichroism of Liposomal Porphyrin Esters. <i>Journal of the American Chemical Society</i> , 2004, 126, 9944-9945.	13.7	37
75	Lobocyclamide B from <i>Lyngbya confervoides</i> . Configuration and Asymmetric Synthesis of β -Hydroxy- α -amino Acids by (α)-Sparteine-Mediated Aldol Addition. <i>Organic Letters</i> , 2002, 4, 1883-1886.	4.6	60
76	Caylobolide A, a Unique 36-Membered Macrolactone from a Bahamian <i>Lyngbya majuscula</i> . <i>Organic Letters</i> , 2002, 4, 1535-1538.	4.6	69
77	(+)-7S-Hydroxyxestospongins A from the Marine Sponge <i>Xestospongia</i> sp. and Absolute Configuration of (+)-Xestospongins D. <i>Journal of Natural Products</i> , 2002, 65, 249-254.	3.0	31
78	Lobocyclamides A-C, Lipopeptides from a Cryptic Cyanobacterial Mat Containing <i>Lyngbya confervoides</i> . <i>Journal of Organic Chemistry</i> , 2002, 67, 8210-8215.	3.2	98
79	Antifungal activity of bifunctional sphingolipids. intramolecular synergism within long-chain β -bis-aminoalcohols. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 2159-2162.	2.2	21
80	Herbacinic Acid, a Simple Prototype of 5,5,5-Trichloroleucine Metabolites from the Sponge <i>Dysidea herbacea</i> . <i>Journal of Natural Products</i> , 2000, 63, 155-157.	3.0	39
81	Structure of (α)-Neodysidenin from <i>Dysidea herbacea</i> . Implications for Biosynthesis of 5,5,5-Trichloroleucine Peptides. <i>Organic Letters</i> , 2000, 2, 2721-2723.	4.6	39