John B Macmillan

List of Publications by Year
in descending order

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81	4,517	87888 38	106344 65
papers	citations	h-index	g-index

102	102	102	7136
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Nuclear export inhibition through covalent conjugation and hydrolysis of Leptomycin B by CRM1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1303-1308.	7.1	163
3	The Ammosamides: Structures of Cell Cycle Modulators from a Marineâ€Derived Streptomyces Species. Angewandte Chemie - International Edition, 2009, 48, 725-727.	13.8	162
4	Small-molecule TFEB pathway agonists that ameliorate metabolic syndrome in mice and extend C. elegans lifespan. Nature Communications, 2017, 8, 2270.	12.8	121
5	Serum amyloid A is a retinol binding protein that transports retinol during bacterial infection. ELife, 2014, 3, e03206.	6.0	108
6	Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. Cell, 2018, 173, 864-878.e29.	28.9	102
7	Development of Inhibitors of the PAS-B Domain of the HIF-2Î± Transcription Factor. Journal of Medicinal Chemistry, 2013, 56, 1739-1747.	6.4	101
8	Ammosamidesâ€¦A and B Target Myosin. Angewandte Chemie - International Edition, 2009, 48, 728-732.	13.8	99
9	Lobocyclamides Aâ^'C, Lipopeptides from a Cryptic Cyanobacterial Mat Containing Lyngbya confervoides. Journal of Organic Chemistry, 2002, 67, 8210-8215.	3.2	98
10	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
11	Structural and Mechanistic Roles of Novel Chemical Ligands on the SdiA Quorum-Sensing Transcription Regulator. MBio, 2015, 6, .	4.1	81
12	Lodopyridone, a Structurally Unprecedented Alkaloid from a Marine Actinomycete. Organic Letters, 2009, 11, 5422-5424.	4.6	79
13	Precursor-directed generation of amidine containing ammosamide analogs: ammosamides Eâ€“P. Chemical Science, 2013, 4, 482-488.	7.4	71
14	The Serotonin Neurotransmitter Modulates Virulence of Enteric Pathogens. Cell Host and Microbe, 2020, 28, 41-53.e8.	11.0	70
15	Caylobolide A, a Unique 36-Membered Macrolactone from a BahamianLyngbyamajusculaâ€. Organic Letters, 2002, 4, 1535-1538.	4.6	69
16	Using Functional Signature Ontology (FUSION) to Identify Mechanisms of Action for Natural Products. Science Signaling, 2013, 6, ra90.	3.6	66
17	Towards patient-based cancer therapeutics. Nature Biotechnology, 2010, 28, 904-906.	17.5	65
18	Ikarugamycin: A Natural Product Inhibitor of Clathrinâ€Mediated Endocytosis. Traffic, 2016, 17, 1139-1149.	2.7	65

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19	Discoipyrroles Aâ€“D: Isolation, Structure Determination, and Synthesis of Potent Migration Inhibitors from Bacillus hunanensis. Journal of the American Chemical Society, 2013, 135, 13387-13392.	13.7	63
20	Lobocyclamide B fromLyngbya confervoides. Configuration and Asymmetric Synthesis of Î²-Hydroxy-Î±-amino Acids by (â^')-Sparteine-Mediated Aldol Addition. Organic Letters, 2002, 4, 1883-1886.	4.6	60
21	Isoform-Selective and Stereoselective Inhibition of Hypoxia Inducible Factor-2. Journal of Medicinal Chemistry, 2015, 58, 5930-5941.	6.4	59
22	Metabolite Regulation of Nuclear Localization of Carbohydrate-response Element-binding Protein (ChREBP). Journal of Biological Chemistry, 2016, 291, 10515-10527.	3.4	58
23	(2S,3R)-2-Aminododecan-3-ol, a New Antifungal Agent from the AscidianClavelinaoblonga. Journal of Natural Products, 2004, 67, 1879-1881.	3.0	56
24	Erythrazoles Aâ€“B, Cytotoxic Benzothiazoles from a Marine-Derived Erythrobacter sp.. Organic Letters, 2011, 13, 6580-6583.	4.6	56
25	Tropolactones Aâ€“D, four meroterpenoids from a marine-derived fungus of the genus Aspergillus. Phytochemistry, 2006, 67, 1826-1831.	2.9	54
26	Mode of action and pharmacogenomic biomarkers for exceptional responders to didemnin B. Nature Chemical Biology, 2015, 11, 401-408.	8.0	54
27	Phorbasides Aâ^'E, Cytotoxic Chlorocyclopropane Macrolide Glycosides from the Marine Sponge Phorbas sp. CD Determination of C-Methyl Sugar Configurations. Journal of Organic Chemistry, 2008, 73, 3699-3706.	3.2	53
28	HORMAD1 Is a Negative Prognostic Indicator in Lung Adenocarcinoma and Specifies Resistance to Oxidative and Genotoxic Stress. Cancer Research, 2018, 78, 6196-6208.	0.9	50
29	Caminosides Bâ^'D, Antimicrobial Glycolipids Isolated from the Marine SpongeCaminussphaeroconia. Journal of Natural Products, 2006, 69, 173-177.	3.0	48
30	Chlorocyclopropane Macrolides from the Marine SpongePhorbassp. 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
31	Ammosamide D, an Oxidatively Ring Opened Ammosamide Analog from a Marine-Derived Streptomyces variabilis. Organic Letters, 2012, 14, 2390-2393.	4.6	45
32	ICU Bedside Nurses' Involvement in Palliative Care Communication: A Multicenter Survey. Journal of Pain and Symptom Management, 2016, 51, 589-596.e2.	1.2	45
33	Improving natural product research translation: From source to clinical trial. FASEB Journal, 2020, 34, 41-65.	0.5	45
34	Majusculoic Acid, a Brominated Cyclopropyl Fatty Acid from a Marine Cyanobacterial Mat Assemblage. Journal of Natural Products, 2005, 68, 604-606.	3.0	42
35	Inducamides Aâ€“C, Chlorinated Alkaloids from an RNA Polymerase Mutant Strain of Streptomyces sp.. Organic Letters, 2014, 16, 5656-5659.	4.6	42
36	Spithioneines A and B, Two New Bohemamine Derivatives Possessing Ergothioneine Moiety from a Marine-Derived Streptomyces spinoverrucosus. Organic Letters, 2015, 17, 3046-3049.	4.6	41

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37	Palliative Care Professional Development for Critical Care Nurses: A Multicenter Program. American Journal of Critical Care, 2017, 26, 361-371.	1.6	41
38	Thiasporines Aâ€“C, Thiazine and Thiazole Derivatives from a Marine-Derived Actinomycetospora chlora. Journal of Natural Products, 2015, 78, 548-551.	3.0	40
39	Herbacic Acid, a Simple Prototype of 5,5,5-Trichloroleucine Metabolites from the SpongeDysidea herbaceaâ€. Journal of Natural Products, 2000, 63, 155-157.	3.0	39
40	Structure of (âˆ')-Neodysidenin fromDysideaherbacea. Implications for Biosynthesis of 5,5,5-Trichloroleucine Peptides. Organic Letters, 2000, 2, 2721-2723.	4.6	39
41	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
42	Insulin Promoter-Driven Gaussia Luciferase-Based Insulin Secretion Biosensor Assay for Discovery of Î²-Cell Glucose-Sensing Pathways. ACS Sensors, 2016, 1, 1208-1212.	7.8	39
43	Discovery, Characterization, and Analogue Synthesis of Bohemamine Dimers Generated by Nonâ€enzymatic Biosynthesis. Chemistry - A European Journal, 2016, 22, 3491-3495.	3.3	38
44	Long-Range Stereo-Relay:â€‰ Relative and Absolute Configuration of 1,n-Glycols from Circular Dichroism of Liposomal Porphyrin Esters. Journal of the American Chemical Society, 2004, 126, 9944-9945.	13.7	37
45	Hunanamycin A, an Antibiotic from a Marine-Derived Bacillus hunanensis. Organic Letters, 2013, 15, 390-393.	4.6	36
46	1,3-Oxazin-6-one Derivatives and Bohemamine-Type Pyrrolizidine Alkaloids from a Marine-Derived Streptomyces spinoverrucosus. Journal of Natural Products, 2016, 79, 455-462.	3.0	36
47	Oceanalin A, a Hybrid Î±,Ï‰-Bifunctionalized Sphingoid Tetrahydroisoquinoline Î²-Glycoside from the Marine SpongeOceanapiasp.. Organic Letters, 2005, 7, 2897-2900.	4.6	33
48	AMPK Promotes Aberrant PGC1Î² Expression To Support Human Colon Tumor Cell Survival. Molecular and Cellular Biology, 2015, 35, 3866-3879.	2.3	33
49	(+)-7S-Hydroxyxestospongin A from the Marine Sponge Xestospongia sp. and Absolute Configuration of (+)-Xestospongin D. Journal of Natural Products, 2002, 65, 249-254.	3.0	31
50	Anthraquinones from a Marine-Derived Streptomyces spinoverrucosus. Journal of Natural Products, 2012, 75, 1759-1764.	3.0	31
51	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
52	Erythrolic acids Aâ€“E, Meroterpenoids from a Marine-Derived Erythrobacter sp.. Journal of Organic Chemistry, 2012, 77, 3401-3407.	3.2	26
53	Functional Identification of Putrescine C- and N-Hydroxylases. ACS Chemical Biology, 2016, 11, 2782-2789.	3.4	26
54	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

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55	Rifamycin Biosynthetic Congeners: Isolation and Total Synthesis of Rifsaliniketal and Total Synthesis of Salinisporamycin and Saliniketals A and B. Journal of the American Chemical Society, 2016, 138, 7130-7142.	13.7	25
56	Chromomycin SA analogs from a marine-derived Streptomyces sp.. Bioorganic and Medicinal Chemistry, 2011, 19, 5183-5189.	3.0	24
57	Total Syntheses and Biological Evaluation of Both Enantiomers of Several Hydroxylated Dimeric Nuphar Alkaloids. Angewandte Chemie - International Edition, 2015, 54, 10604-10607.	13.8	24
58	An N-acyl homolog of mycothiol is produced in marine actinomycetes. Archives of Microbiology, 2008, 190, 547-557.	2.2	23
59	One-Pot Synthesis of 5-Hydroxy-4H-1,3-thiazin-4-ones: Structure Revision, Synthesis, and NMR Shift Dependence of Thiasporine A. Organic Letters, 2016, 18, 3070-3073.	4.6	23
60	Carpatamides Aâ€“C, Cytotoxic Arylamine Derivatives from a Marine-Derived Streptomyces sp.. Journal of Natural Products, 2014, 77, 1245-1248.	3.0	22
61	Detailed Mechanistic Study of the Non-enzymatic Formation of the Discoipyrrole Family of Natural Products. Journal of the American Chemical Society, 2016, 138, 2383-2388.	13.7	22
62	Antifungal activity of bifunctional sphingolipids. intramolecular synergism within long-chain Î±,Ï‰-bis-aminoalcohols. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 2159-2162.	2.2	21
63	Isolation, Structure, and Total Synthesis of the Marine Macrolide Mangrolide D. Organic Letters, 2019, 21, 2957-2961.	4.6	17
64	FUSION-Guided Hypothesis Development Leads to the Identification of N6,N6-Dimethyladenosine, a Marine-Derived AKT Pathway Inhibitor. Marine Drugs, 2017, 15, 75.	4.6	14
65	A Functional Signature Ontology (FUSION) screen detects an AMPK inhibitor with selective toxicity toward human colon tumor cells. Scientific Reports, 2018, 8, 3770.	3.3	14
66	Structure elucidation of nigricanoside A through enantioselective total synthesis. Chemical Science, 2015, 6, 2932-2937.	7.4	13
67	Synthesis and Investigation of the Abiotic Formation of Pyonitrins Aâ€“D. Organic Letters, 2020, 22, 1516-1519.	4.6	12
68	A Labeled Substrate Approach to Discovery of Biocatalytic Reactions: A Proof of Concept Transformation with N-Methylindole. Journal of the American Chemical Society, 2012, 134, 12378-12381.	13.7	11
69	Chromomycin A2 potently inhibits glucose-stimulated insulin secretion from pancreatic Î² cells. Journal of General Physiology, 2018, 150, 1747-1757.	1.9	9
70	Daryamide Analogues from a Marine-Derived Streptomyces species. Journal of Natural Products, 2017, 80, 1096-1101.	3.0	8
71	A Genome-wide Functional Signature Ontology Map and Applications to Natural Product Mechanism of Action Discovery. Cell Chemical Biology, 2019, 26, 1380-1392.e6.	5.2	8
72	Targeting and extending the eukaryotic druggable genome with natural products. Natural Product Reports, 2020, 37, 744-746.	10.3	5

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73	Strategies and Approaches for Discovery of Small Molecule Disruptors of Biofilm Physiology. Molecules, 2021, 26, 4582.	3.8	5
74	Ammosamides Unveil Novel Biosynthetic Machinery. Cell Chemical Biology, 2016, 23, 1444-1446.	5.2	3
75	Boron NMR as a Method to Screen Natural Product Libraries for B-Containing Compounds. Organic Letters, 2022, 24, 3161-3166.	4.6	3
76	Carpatizine, a novel bridged oxazine derivative generated by non-enzymatic reactions. Organic and Biomolecular Chemistry, 2017, 15, 5275-5278.	2.8	1
77	Draft Genome Sequence of Marine Actinobacterium Streptomyces spinoverrucosus SNB-032. Microbiology Resource Announcements, 2021, 10, .	0.6	1
78	Next Generation XPO1 Inhibitor Shows Improved Efficacy and In Vivo Tolerability in Hematologic Malignancies. Blood, 2015, 126, 317-317.	1.4	1
79	Antibiotic natural product hunanamycin A: Lead identification towards anti-Salmonella agents. European Journal of Medicinal Chemistry, 2022, 236, 114245.	5.5	1
80	The Deep Oceans as a Source for New Treatments for Cancer. , 2012, , 83-91.		0
81	Abstract A07: Novel effectors of K-Ras-mediated and KSR1 dependent colon tumorigenesis. , 2014, , .		0