

# Brendan Michael Duggan

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

5,080  
citations

257450

24  
h-index

214800

47  
g-index

51  
all docs

51  
docs citations

51  
times ranked

7637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	17.5	2,802
2	MS/MS networking guided analysis of molecule and gene cluster families. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2611-20.	7.1	250
3	Interkingdom metabolic transformations captured by microbial imaging mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13811-13816.	7.1	220
4	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, 1671-1682.	3.0	156
5	Three-dimensional Structure in Solution of the Calcium Channel Blocker $\omega$ -Conotoxin. <i>Journal of Molecular Biology</i> , 1993, 234, 405-420.	4.2	144
6	Indexing the <i>Pseudomonas</i> specialized metabolome enabled the discovery of poaeamide B and the bananamides. <i>Nature Microbiology</i> , 2017, 2, 16197.	13.3	121
7	A Convolutional Neural Network-Based Approach for the Rapid Annotation of Molecularly Diverse Natural Products. <i>Journal of the American Chemical Society</i> , 2020, 142, 4114-4120.	13.7	114
8	SANE (Structure Assisted NOE Evaluation): an automated model-based approach for NOE assignment. <i>Journal of Biomolecular NMR</i> , 2001, 19, 321-329.	2.8	113
9	Glycogenomics as a mass spectrometry-guided genome-mining method for microbial glycosylated molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4407-16.	7.1	101
10	Bioactivity-Guided Genome Mining Reveals the Lomaiviticin Biosynthetic Gene Cluster in <i>Salinispora tropica</i> . <i>ChemBioChem</i> , 2013, 14, 955-962.	2.6	82
11	A Distal Mutation Perturbs Dynamic Amino Acid Networks in Dihydrofolate Reductase. <i>Biochemistry</i> , 2013, 52, 4605-4619.	2.5	77
12	Divergent biosynthesis yields a cytotoxic aminomalonate-containing precolibactin. <i>Nature Chemical Biology</i> , 2016, 12, 773-775.	8.0	74
13	Microbial metabolic exchange in 3D. <i>ISME Journal</i> , 2013, 7, 770-780.	9.8	73
14	Catalytic detoxification of nerve agent and pesticide organophosphates by butyrylcholinesterase assisted with non-pyridinium oximes. <i>Biochemical Journal</i> , 2013, 450, 231-242.	3.7	73
15	Small Molecule Accurate Recognition Technology (SMART) to Enhance Natural Products Research. <i>Scientific Reports</i> , 2017, 7, 14243.	3.3	67
16	MS/MS-based networking and peptidogenomics guided genome mining revealed the stenothricin gene cluster in <i>Streptomyces roseosporus</i> . <i>Journal of Antibiotics</i> , 2014, 67, 99-104.	2.0	64
17	Contribution of Increased Length and Intact Capping Sequences to the Conformational Preference for Helix in a 31-Residue Peptide from the C Terminus of Myohemerythrin. <i>Biochemistry</i> , 1997, 36, 5234-5244.	2.5	44
18	Potential bias in NMR relaxation data introduced by peak intensity analysis and curve fitting methods. <i>Journal of Biomolecular NMR</i> , 2001, 21, 1-9.	2.8	44

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19	The Arginine-Rich RNA-Binding Motif of HIV-1 Rev Is Intrinsically Disordered and Folds upon RRE Binding. <i>Biophysical Journal</i> , 2013, 105, 1004-1017.	0.5	44
20	Inherent flexibility in a potent inhibitor of blood coagulation, recombinant nematode anticoagulant protein c2. <i>FEBS Journal</i> , 1999, 265, 539-548.	0.2	42
21	Efficient red light photo-uncaging of active molecules in water upon assembly into nanoparticles. <i>Chemical Science</i> , 2016, 7, 2392-2398.	7.4	36
22	Tutuillamides Aâ€“C: Vinyl-Chloride-Containing Cyclodepsipeptides from Marine Cyanobacteria with Potent Elastase Inhibitory Properties. <i>ACS Chemical Biology</i> , 2020, 15, 751-757.	3.4	33
23	Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. <i>ELife</i> , 2017, 6, .	6.0	33
24	Messenger RNAs under Differential Translational Control in Ki-rasâ€“Transformed Cells. <i>Molecular Cancer Research</i> , 2006, 4, 47-60.	3.4	30
25	Commensal Oral <i>Rothia mucilaginosa</i> Produces Enterobactin, a Metal-Chelating Siderophore. <i>MSystems</i> , 2020, 5, .	3.8	30
26	Conformational Dynamics of Thyroid Hormones by Variable Temperature Nuclear Magnetic Resonance:Â The Role of Side Chain Rotations and Cisoid/Transoid Interconversions. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 2259-2265.	6.4	23
27	Mollenynes Bâ€“E from the Marine Sponge <i>Spirastrella mollis</i> . Band-Selective Heteronuclear Single Quantum Coherence for Discrimination of Bromoâ€“Chloro Regioisomerism in Natural Products. <i>Journal of the American Chemical Society</i> , 2015, 137, 12343-12351.	13.7	20
28	Identification of a 3-Alkylpyridinium Compound from the Red Sea Sponge <i>Amphimedon chloros</i> with In Vitro Inhibitory Activity against the West Nile Virus NS3 Protease. <i>Molecules</i> , 2018, 23, 1472.	3.8	16
29	Ultraâ€“high resolution bandâ€“selective HSQC for nanomoleâ€“scale identification of chlorineâ€“substituted <sup>13</sup> C in natural products drug discovery. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 263-268.	1.9	14
30	Lepadins Iâ€“K, 3- <i>O</i> -(3-Methylthio)acryloyloxy-decahydroquinoline Esters from a Bahamian Ascidian <i>Didemnum</i> sp. Assignment of Absolute Stereostructures. <i>Journal of Organic Chemistry</i> , 2018, 83, 13670-13677.	3.2	14
31	Toward Expanded Diversity of Hostâ€“Guest Interactions via Synthesis and Characterization of Cyclodextrin Derivatives. <i>Journal of Solution Chemistry</i> , 2018, 47, 1597-1608.	1.2	14
32	Cannabinol inhibits oxytosis/ferroptosis by directly targeting mitochondria independently of cannabinoid receptors. <i>Free Radical Biology and Medicine</i> , 2022, 180, 33-51.	2.9	14
33	The Alga <i>Ochromonas danica</i> Produces Bromosulfolipids. <i>Organic Letters</i> , 2016, 18, 1124-1127.	4.6	13
34	<sup>1</sup> H and <sup>13</sup> C NMR Relaxation Studies of Molecular Dynamics of the Thyroid Hormones Thyroxine, 3,5,3â€“-Triiodothyronine, and 3,5-Diiodothyronineâ€“. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 4007-4016.	6.4	12
35	Detailed Analysis of (â€“)-Palmyrolide A and Some Synthetic Derivatives as Voltage-Gated Sodium Channel Antagonists. <i>Journal of Natural Products</i> , 2014, 77, 2553-2560.	3.0	12
36	Synthesis, Pharmacological Characterization, and Structureâ€“Activity Relationships of Noncanonical Selective Agonists for Î±7 nAChRs. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10376-10390.	6.4	12

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37	The Pierced Lasso Topology Leptin has a Bolt on Dynamic Domain Composed by the Disordered Loops I and III. <i>Journal of Molecular Biology</i> , 2020, 432, 3050-3063.	4.2	9
38	Experimental characterization of the association of Î²-cyclodextrin and eight novel cyclodextrin derivatives with two guest compounds. <i>Journal of Computer-Aided Molecular Design</i> , 2021, 35, 95-104.	2.9	9
39	Facile synthesis of a diverse library of mono-3-substituted Î²-cyclodextrin analogues. <i>Supramolecular Chemistry</i> , 2019, 31, 251-259.	1.2	8
40	Synthesis and structural characterisation of analogues of the potassium channel blocker charybdotoxin. <i>BBA - Proteins and Proteomics</i> , 1996, 1292, 31-38.	2.1	7
41	Searching for Small Molecules with an Atomic Sort. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1144-1148.	13.8	4
42	NMR assignments of the N-terminal domain of <i>Nephila clavipes</i> spidroin 1. <i>Biomolecular NMR Assignments</i> , 2011, 5, 131-133.	0.8	3
43	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N assignments of the holo-acyl carrier protein of <i>Pseudomonas aeruginosa</i> . <i>Biomolecular NMR Assignments</i> , 2013, 7, 225-228.	0.8	1
44	Searching for Small Molecules with an Atomic Sort. <i>Angewandte Chemie</i> , 2020, 132, 1160-1164.	2.0	1
45	Editorial to the Special Issue "Technology for Natural Products Research". <i>Molecules</i> , 2020, 25, 327.	3.8	0