

# Ian M Brereton

## List of Publications by Year in descending order

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93  
papers

1,808  
citations

236925

25  
h-index

315739

38  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of Caribbean Ciguatoxin Isolated from <i>Caranx latus</i> . <i>Journal of the American Chemical Society</i> , 1998, 120, 5914-5920.	13.7	179
2	Ionization states of the catalytic residues in HIV-1 protease. <i>Nature Structural Biology</i> , 1996, 3, 946-950.	9.7	123
3	Haliclonacyclamines A and B, cytotoxic alkaloids from the tropical marine sponge <i>Haliclona</i> sp. <i>Tetrahedron</i> , 1996, 52, 9111-9120.	1.9	82
4	The haliclonacyclamines, cytotoxic tertiary alkaloids from the tropical marine sponge <i>Haliclona</i> sp. <i>Tetrahedron</i> , 1998, 54, 8811-8826.	1.9	62
5	Calcium Is Essential for the Structural Integrity of the Cysteine-Rich, Ligand-Binding Repeat of the Low-Density Lipoprotein Receptor. <i>Biochemistry</i> , 1998, 37, 1662-1670.	2.5	57
6	Lead Compounds for Antimalarial Chemotherapy: Purine Base Analogs Discriminate between Human and <i>P. falciparum</i> 6-Oxopurine Phosphoribosyltransferases. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 7479-7486.	6.4	55
7	The Crystal Structure of Free Human Hypoxanthine-guanine Phosphoribosyltransferase Reveals Extensive Conformational Plasticity Throughout the Catalytic Cycle. <i>Journal of Molecular Biology</i> , 2005, 351, 170-181.	4.2	52
8	Ciguatoxin-2 is a diastereomer of ciguatoxin-3. <i>Toxicon</i> , 1993, 31, 637-643.	1.6	45
9	NMR structure of a concatamer of the first and second ligand-binding modules of the human low-density lipoprotein receptor. <i>Protein Science</i> , 2000, 9, 1282-1293.	7.6	41
10	Heat treatment injury of mango fruit revealed by nondestructive magnetic resonance imaging. <i>Postharvest Biology and Technology</i> , 1993, 3, 305-311.	6.0	38
11	Localized two-dimensional shift correlated spectroscopy in humans at 2 Tesla. <i>Magnetic Resonance in Medicine</i> , 1994, 32, 251-257.	3.0	38
12	Linewidth reduction in a large-smile laser diode array. <i>Applied Optics</i> , 2005, 44, 6264.	2.1	37
13	NMR structure and backbone dynamics of a concatamer of epidermal growth factor homology modules of the human low-density lipoprotein receptor. <i>Journal of Molecular Biology</i> , 2001, 311, 341-356.	4.2	35
14	<i>Plasmodium vivax</i> hypoxanthine-guanine phosphoribosyltransferase: A target for anti-malarial chemotherapy. <i>Molecular and Biochemical Parasitology</i> , 2010, 173, 165-169.	1.1	35
15	Non-destructive <sup>1</sup> H-MRI assessment of flesh bruising in avocado ( <i>Persea americana</i> M.) cv. Hass. <i>Postharvest Biology and Technology</i> , 2015, 100, 33-40.	6.0	35
16	In vivo High Angular Resolution Diffusion-Weighted Imaging of Mouse Brain at 16.4 Tesla. <i>PLoS ONE</i> , 2015, 10, e0130133.	2.5	32
17	Preliminary studies on the potential of in vivo deuterium NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1986, 137, 579-584.	2.1	30
18	The visibility of the <sup>1</sup> H NMR signal of ethanol in the dog brain. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 340-348.	3.0	28

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19	Site-Directed Mutagenesis of Dimethyl Sulfoxide Reductase from <i>Rhodobacter capsulatus</i> : <sup>15</sup> N Characterization of a Y114 → F Mutant. <i>Biochemistry</i> , 2002, 41, 15762-15769.	2.5	27
20	Water suppression with B <sub>0</sub> field gradient homospoil pulses in high-resolution NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1989, 9, 118-125.	3.0	26
21	The unequivocal determination of lactic acid using a one-dimensional zero-quantum coherence-transfer technique. <i>Magnetic Resonance in Medicine</i> , 1989, 9, 132-138.	3.0	26
22	Quadrature detection in F1 induced by pulsed field gradients. <i>Journal of Magnetic Resonance</i> , 1991, 93, 54-62.	0.5	26
23	A comparison of some gradient-encoded volume-selection techniques for <i>in vivo</i> NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1987, 4, 393-398.	3.0	25
24	Measurement of the T <sub>2</sub> relaxation time of ethanol and cerebral metabolites, <i>in vivo</i> . <i>Magnetic Resonance in Medicine</i> , 1992, 23, 333-345.	3.0	25
25	Respiratory triggered imaging with an optical displacement sensor. <i>Magnetic Resonance Imaging</i> , 1993, 11, 1027-1032.	1.8	25
26	A Metabolomic Approach to Identifying Chemical Mediators of Mammal-Plant Interactions. <i>Journal of Chemical Ecology</i> , 2010, 36, 727-735.	1.8	25
27	Complexation of sodium ion by the cryptand 4,7,13-trioxa-1,10-diazabicyclo[8.5.5]eicosane (C <sub>21</sub> C <sub>5</sub> ) in a range of solvents. A sodium-23 nuclear magnetic resonance kinetic study. <i>Journal of the American Chemical Society</i> , 1986, 108, 8134-8138.	13.7	23
28	Sample-Induced RF Perturbations in High-Field, High-Resolution NMR Spectroscopy. <i>Journal of Magnetic Resonance</i> , 1997, 126, 39-47.	2.1	23
29	Structure of Galactosylononitol. <i>Journal of Natural Products</i> , 1997, 60, 749-751.	3.0	22
30	Design of <i>Plasmodium vivax</i> Hypoxanthine-Guanine Phosphoribosyltransferase Inhibitors as Potential Antimalarial Therapeutics. <i>ACS Chemical Biology</i> , 2018, 13, 82-90.	3.4	22
31	Application of high field localised <i>in vivo</i> <sup>1</sup> H MRS to study biochemical changes in the thiamin deficient rat brain under glucose load. <i>NMR in Biomedicine</i> , 1993, 6, 324-328.	2.8	21
32	Application of volume-selected, two-dimensional multiple-quantum editing <i>in vivo</i> to observe cerebral metabolites. <i>Magnetic Resonance in Medicine</i> , 1990, 16, 496-502.	3.0	20
33	Three-dimensional NMR structure of the sixth ligand-binding module of the human LDL receptor: comparison of two adjacent modules with different ligand binding specificities. <i>FEBS Letters</i> , 2000, 479, 118-122.	2.8	17
34	Globally optimal superconducting magnets Part I: Minimum stored energy (MSE) current density map. <i>Journal of Magnetic Resonance</i> , 2009, 196, 1-6.	2.1	17
35	[ <sup>18</sup> O]-Oxygen Incorporation Reveals Novel Pathways in Spiroacetal Biosynthesis by <i>Bactrocera cacuminata</i> and <i>B. cucumis</i> . <i>Journal of the American Chemical Society</i> , 2002, 124, 7666-7667.	13.7	16
36	The design of planar gradient coils. Part I: A winding path correction method. <i>Concepts in Magnetic Resonance Part B</i> , 2005, 27B, 17-24.	0.7	16

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37	Identification of a digalactosyl ononitol from seeds of adzuki bean ( <i>Vigna angularis</i> ). <i>Carbohydrate Research</i> , 2003, 338, 2017-2019.	2.3	15
38	In vivo determination of body iron stores by natural-abundance deuterium magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1987, 4, 88-92.	3.0	14
39	Feasibility of functional magnetic resonance lung imaging in Australia with long distance transport of hyperpolarized helium from Germany. <i>Respirology</i> , 2008, 13, 599-602.	2.3	14
40	Globally optimal superconducting magnets Part II: Symmetric MSE coil arrangement. <i>Journal of Magnetic Resonance</i> , 2009, 196, 7-11.	2.1	14
41	Minimum Stored Energy High-Field MRI Superconducting Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 3645-3652.	1.7	14
42	Fluorine-19 nuclear magnetic resonance study of the inclusion of fluoro- and difluoro-trans-cinnamates by $\beta$ -cyclodextrin. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1984, 80, 3147.	1.0	13
43	Ester prodrugs of a potent analgesic, morphine-6-sulfate: syntheses, spectroscopic and physicochemical properties. <i>International Journal of Pharmaceutics</i> , 1998, 163, 177-190.	5.2	13
44	<sup>1</sup> H and <sup>13</sup> C NMR assignments for the sesquiterpene aldehydes, lepidozenal and isobicyclogermacrenal, from <i>Eucalyptus dawsonii</i> . <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 1081-1083.	1.9	13
45	A structural study of the complexation of the sodium ion by the cryptands 4,7,13,18-tetraoxa-1,10-diazabicyclo[8.5.5]icosane and 4,7,13-trioxa-1,10-diazabicyclo[8.5.5]icosane. <i>Journal of the Chemical Society Dalton Transactions</i> , 1986, , 1075.	1.1	12
46	Nodal inhomogeneity mapping by localized excitation—the “NIMBLE”-shimming technique for high-resolution in vivo NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1988, 7, 352-357.	3.0	12
47	Regional proton nuclear magnetic resonance spectroscopy differentiates cortex and medulla in the isolated perfused rat kidney. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1997, 5, 151-158.	2.0	12
48	NMR studies of the low-density lipoprotein receptor-binding peptide of apolipoprotein E bound to dodecylphosphocholine micelles. <i>Protein Science</i> , 1999, 8, 1797-1805.	7.6	12
49	Vinylfurans Revisited: A New Sesquiterpene from <i>Euryspongiadeliculata</i> . <i>Journal of Natural Products</i> , 1999, 62, 915-916.	3.0	12
50	High-field localized in vivo proton spectroscopy on micro volumes. <i>Magnetic Resonance in Medicine</i> , 1990, 13, 518-523.	3.0	11
51	A nuclear magnetic resonance study of the sodium cryptate formed by 4,7,13,18-tetraoxa-1,10-diazabicyclo[8.5.5]icosane (C211) in various solvents. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1985, 81, 1623.	1.0	10
52	In vivo high-resolution volume-selected proton spectroscopy and T1 measurements in the dog brain. <i>Magnetic Resonance in Medicine</i> , 1989, 9, 288-295.	3.0	10
53	Coherence selection in gradient-enhanced, heteronuclear correlation spectroscopy. <i>Journal of Magnetic Resonance</i> , 1992, 97, 305-312.	0.5	10
54	Localized <sup>1</sup> H NMR spectroscopy of rat spinal cord in vivo. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 443-448.	3.0	10

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55	Towards identifying the new structures formed on the $\hat{I}^3$ -radiolysis of Ultem. Radiation Physics and Chemistry, 2004, 69, 65-77.	2.8	10
56	Minimum stored energy MRI superconducting magnets: From low to high field. Concepts in Magnetic Resonance Part B, 2009, 35B, 180-189.	0.7	10
57	Globally optimal, minimum stored energy, double doughnut superconducting magnets. Magnetic Resonance in Medicine, 2010, 63, 262-267.	3.0	10
58	Quantification of $\hat{I}^2$ -Amyloidosis and rCBF with Dedicated PET, 7 T MR Imaging, and High-Resolution Microscopic MR Imaging at 16.4 T in APP23 Mice. Journal of Nuclear Medicine, 2015, 56, 1593-1599.	5.0	10
59	Improvements and extensions to the DIGGER technique for performing spatial selective excitation. Journal of Magnetic Resonance, 1987, 73, 360-368.	0.5	9
60	The use of in vivo $^2H$ NMR spectroscopy to investigate the effects of obesity and diabetes mellitus upon lipid metabolism in mice. NMR in Biomedicine, 1989, 2, 55-60.	2.8	9
61	In vivo volume selective metabolite editing via correlated z order. Magnetic Resonance in Medicine, 1990, 16, 460-469.	3.0	9
62	Application of surface coil reception to record volume-selected high-resolution proton in vivo spectra using a combined DIGGER-SPACE pulse sequence. Journal of Magnetic Resonance, 1987, 73, 159-167.	0.5	8
63	The $^1H$ NMR visibility of intracellular lactate in <i>Streptococcus faecalis</i> . NMR in Biomedicine, 1989, 2, 70-76.	2.8	8
64	The design of planar gradient coils. Part II: A weighted superposition method. Concepts in Magnetic Resonance Part B, 2005, 27B, 25-33.	0.7	8
65	Backbone resonance assignments of the monomeric DUF59 domain of human Fam96a. Biomolecular NMR Assignments, 2013, 7, 117-120.	0.8	8
66	Non-uniform sampling in EPR " optimizing data acquisition for HYSORE spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 16378-16382.	2.8	8
67	Complexation of sodium and silver ions by the cryptand 4,7,13-trioxa-1,10-diazabicyclo[8.5.5]eicosane in a range of solvents. Polyhedron, 1986, 5, 1597-1600.	2.2	6
68	A Selective excitation/ $B_0$ gradient technique for high-resolution $^1H$ NMR studies of metabolites via zero-quantum coherence and polarization transfer. NMR in Biomedicine, 1989, 2, 39-43.	2.8	6
69	Gradient-induced water-suppression techniques for high-resolution NMR spectroscopy. Journal of Magnetic Resonance, 1989, 81, 411-417.	0.5	5
70	Toward designing asymmetric head gradient coils for high-resolution imaging. Concepts in Magnetic Resonance Part B, 2007, 31B, 1-11.	0.7	5
71	Can atorvastatin with metformin change the natural history of prostate cancer as characterized by molecular, metabolomic, imaging and pathological variables? A randomized controlled trial protocol. Contemporary Clinical Trials, 2016, 50, 16-20.	1.8	5
72	Metabolite editing via correlated z order with total inherent coherence. ECZOTIC. Journal of Magnetic Resonance, 1989, 83, 190-196.	0.5	4

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73	Application of self-refocusing band selective RF pulses for spectroscopic localization. <i>Magnetic Resonance in Medicine</i> , 1992, 25, 248-259.	3.0	4
74	Read-only-memory-based quantum computation: Experimental explorations using nuclear magnetic resonance and future prospects. <i>Physical Review A</i> , 2002, 66, .	2.5	4
75	A wrapped edge transverse gradient coil design for increased gradient homogeneity. <i>Concepts in Magnetic Resonance Part B</i> , 2009, 35B, 139-152.	0.7	4
76	Guidewire fragment embolisation in paediatric peripherally inserted central catheters. <i>Medical Journal of Australia</i> , 2012, 196, 250-255.	1.7	4
77	Homonuclear coherence transfer experiments using shaped RF pulses having a tailored phase profile. <i>Journal of Magnetic Resonance</i> , 1989, 82, 597-604.	0.5	3
78	In vivo localized <sup>1</sup> H NMR spectroscopy at 11.7 Tesla. <i>Journal of Magnetic Resonance</i> , 1991, 94, 123-132.	0.5	3
79	Investigation of <sup>13</sup> C-irradiated syndiotactic poly(2-methylheptyl methacrylate) using NMR spectroscopy. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3379-3390.	2.2	3
80	A wave equation technique for designing compact gradient coils. <i>Concepts in Magnetic Resonance Part B</i> , 2006, 29B, 62-74.	0.7	3
81	An equilibrium and kinetic study of the complexation of lithium and sodium ions by the cryptand 4, 7, 13-trioxa-1, 10-diazabicyclo-[8. 5. 5]-eicosane (C21C5). <i>Journal of Inclusion Phenomena</i> , 1987, 5, 137-141.	0.6	2
82	On the calculation of magnetization slice profiles for NMR imaging and in vivo spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 478-484.	3.0	2
83	On the use of a slice-selective 270° self-refocusing Gaussian pulse for magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1991, 19, 456-460.	3.0	2
84	Cortical and medullary betaine-GPC modulated by osmolality independently of oxygen in the intact kidney. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 277, F338-F346.	2.7	2
85	RAPID—A new method for fast imaging using a single slice of 2-magnetization. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 191-195.	3.0	1
86	Low-power NMR volume selection by slicing magnetization. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 586-592.	3.0	1
87	Spectrometer Calibration and Experimental Setup: Basic Principles and Procedures. , 1997, 60, 363-410.		1
88	Current developments in MRI for assessing rodent models of multiple sclerosis. <i>Future Neurology</i> , 2014, 9, 487-511.	0.5	1
89	Bacillus anthracis Protective Antigen Shows High Specificity for a UV Induced Mouse Model of Cutaneous Squamous Cell Carcinoma. <i>Frontiers in Medicine</i> , 2019, 6, 22.	2.6	1
90	Vinylfurans Revisited: A New Sesquiterpene from <i>Euryspongia deliculata</i> . <i>Journal of Natural Products</i> , 2000, 63, 1045-1046.	3.0	0

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91	The Use of Inverse Phase Fourier Image to Accommodate Intensity Inhomogeneities in Medical Image Registration. , 2012, , .		0
92	Magnetic resonance spin-spin relaxation time estimation in a rat model of fatty liver disease. Journal of Magnetic Resonance Imaging, 2018, 47, 468-476.	3.4	0
93	An Equilibrium and Kinetic Study of the Complexation of Lithium and Sodium Ions by the Cryptand 4, 7,13-Trioxa-1, 10-Diazabicyclo- [8.5.5] - Eicosane (C21C5).. , 1987, , 137-141.		0