

Timothy Stait-Gardner

List of Publications by Year in descending order

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54
papers

785
citations

516215

16
h-index

552369

26
g-index

57
all docs

57
docs citations

57
times ranked

1678
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress-Induced Grey Matter Loss Determined by MRI Is Primarily Due to Loss of Dendrites and Their Synapses. <i>Molecular Neurobiology</i> , 2013, 47, 645-661.	1.9	170
2	PGSTE-WATERGATE: An STE-based PGSE NMR sequence with excellent solvent suppression. <i>Journal of Magnetic Resonance</i> , 2008, 191, 159-163.	1.2	59
3	Spatial and temporal control of drug release through pH and alternating magnetic field induced breakage of Schiff base bonds. <i>Polymer Chemistry</i> , 2014, 5, 3311-3315.	1.9	39
4	Microscopic diffusivity compartmentation in formalin-fixed prostate tissue. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 614-620.	1.9	34
5	Evidence for Concerted and Mosaic Brain Evolution in Dragon Lizards. <i>Brain, Behavior and Evolution</i> , 2017, 90, 211-223.	0.9	30
6	Diffusion Studies of Dihydroxybenzene Isomers in Water-Alcohol Systems. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2734-2741.	1.2	27
7	Numerical analysis of NMR diffusion measurements in the short gradient pulse limit. <i>Journal of Magnetic Resonance</i> , 2013, 234, 165-175.	1.2	26
8	Steady state effects in PGSE NMR diffusion experiments. <i>Chemical Physics Letters</i> , 2008, 462, 331-336.	1.2	25
9	Elastic and viscoelastic properties of porcine subdermal fat using MRI and inverse FEA. <i>Biomechanics and Modeling in Mechanobiology</i> , 2010, 9, 703-711.	1.4	25
10	Nanoassemblies of Gd-DTPA monooleyl and glycerol monooleate amphiphiles as potential MRI contrast agents. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1225.	2.9	25
11	A 3D MRI-based atlas of a lizard brain. <i>Journal of Comparative Neurology</i> , 2018, 526, 2511-2547.	0.9	22
12	Biexponential diffusion decay in formalin-fixed prostate tissue: Preliminary findings. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 954-959.	1.9	21
13	The protective effect of apolipoprotein in models of trophoblast invasion and preeclampsia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R40-R48.	0.9	18
14	Use of diffusion magnetic resonance imaging to correlate the developmental changes in grape berry tissue structure with water diffusion patterns. <i>Plant Methods</i> , 2014, 10, 35.	1.9	16
15	Evaluation of Gd-DTPA-Monophytanyl and Phytantriol Nanoassemblies as Potential MRI Contrast Agents. <i>Langmuir</i> , 2015, 31, 1556-1563.	1.6	16
16	Sexual selection predicts brain structure in dragon lizards. <i>Journal of Evolutionary Biology</i> , 2017, 30, 244-256.	0.8	16
17	Physical characterization using diffusion NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 414-424.	1.1	16
18	Magnetic Resonance Imaging Detects Placental Hypoxia and Acidosis in Mouse Models of Perturbed Pregnancies. <i>PLoS ONE</i> , 2013, 8, e59971.	1.1	14

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19	NMR imaging and diffusion. Adsorption, 2021, 27, 503-533.	1.4	14
20	Is It Time to Forgo the Use of the Terms "Spin Lattice" and "Spin Spin" Relaxation in NMR and MRI? Journal of Physical Chemistry Letters, 2021, 12, 6305-6312.	2.1	13
21	GdTPA Dopamine Bisphityl Amphiphile: Synthesis, Characterisation and Relaxation Parameters of the Nanoassemblies and Their Potential as MRI Contrast Agents. Chemistry - A European Journal, 2015, 21, 13950-13960.	1.7	12
22	Dipolar relaxation revisited: A complete derivation for the two spin case. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 74-113.	0.2	12
23	Macromolecular crowding studies of amino acids using NMR diffusion measurements and molecular dynamics simulations. Frontiers in Physics, 2015, 3, .	1.0	12
24	Time-course study of grape berry split using diffusion magnetic resonance imaging. Australian Journal of Grape and Wine Research, 2016, 22, 240-244.	1.0	11
25	Noninvasive Tracking of Encapsulated Insulin Producing Cells Labelled with Magnetic Microspheres by Magnetic Resonance Imaging. Journal of Diabetes Research, 2016, 2016, 1-13.	1.0	10
26	Ice Nucleation Activity in Plants: The Distribution, Characterization, and Their Roles in Cold Hardiness Mechanisms. Advances in Experimental Medicine and Biology, 2018, 1081, 99-115.	0.8	9
27	Correlation of ultra-high field MRI with histopathology for evaluation of rectal cancer heterogeneity. Scientific Reports, 2019, 9, 9311.	1.6	9
28	Thiol-water proton exchange of glutathione, cysteine, and N-acetylcysteine: Implications for CEST MRI. NMR in Biomedicine, 2020, 33, e4188.	1.6	8
29	Steady state effects in a two-pulse diffusion-weighted sequence. Journal of Chemical Physics, 2015, 142, 154201.	1.2	7
30	Non-Ideal Behaviour and Solution Interactions in Binary DMSO Solutions. ChemPhysChem, 2015, 16, 3814-3823.	1.0	6
31	Quantification of placental change in mouse models of preeclampsia using magnetic resonance microscopy. European Journal of Histochemistry, 2018, 62, 2868.	0.6	6
32	Difference between Hawking and Unruh radiation derived from studies about pair production by lasers in vacuum. Laser and Particle Beams, 2006, 24, 579-603.	0.4	5
33	Shortening NMR experimental times. Magnetic Resonance in Chemistry, 2018, 56, 847-851.	1.1	5
34	A physical interpretation of product operator terms. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2009, 34A, 322-356.	0.2	4
35	Efficient and precise calculation of the b-matrix elements in diffusion-weighted imaging pulse sequences. Journal of Magnetic Resonance, 2014, 243, 65-73.	1.2	4
36	Jump-and-return sandwiches: A new family of binomial-like selective inversion sequences with improved performance. Journal of Magnetic Resonance, 2018, 288, 100-108.	1.2	4

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37	Effect of placental growth factor in models of experimental pre-eclampsia and trophoblast invasion. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020, 47, 49-59.	0.9	4
38	Modeling diffusion in restricted systems using the heat kernel expansion. <i>Journal of Chemical Physics</i> , 2010, 132, 234108.	1.2	3
39	Ultrahigh acceleration of plasma blocks from direct converting laser energy into motion by nonlinear forces. , 2011, , .		3
40	Determining a $\tilde{\text{diffusion-averaged}}^{\text{TM}}$ characteristic ratio for aligned lyotropic hexagonal phases using PGSE NMR self-diffusion measurements, random walk simulations and obstruction models. <i>Journal of Molecular Liquids</i> , 2017, 236, 107-116.	2.3	3
41	Solute transport within grape berries inferred from the paramagnetic properties of manganese. <i>Functional Plant Biology</i> , 2017, 44, 969.	1.1	3
42	NMR Versatility. , 2018, , 233-260.		3
43	A Simple and Effective Binomial Block Based Pulse Sequence Capable of Suppressing Multiple NMR Signals. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9712-9720.	1.1	3
44	Explicit phenomenological solutions for magnetization exposed to an arbitrary NMR diffusion steady state pulse sequence. <i>Journal of Chemical Physics</i> , 2021, 155, 144204.	1.2	3
45	Diffusion Studies of Phenylendiamine Isomers in Water-Monohydric-Alcohol Systems. <i>Australian Journal of Chemistry</i> , 2014, 67, 922.	0.5	2
46	Fast determination of the ^1H relaxivities of MRI contrast agents. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 58-61.	1.1	2
47	Diffusion NMR: A Tool to Investigate the Dynamics of Organic Systems. <i>Current Organic Chemistry</i> , 2018, 22, 758-768.	0.9	2
48	Preferential freezing avoidance localised in anthers and embryo sacs in wintering <i>Daphne kamtschatica</i> var. <i>jezoensis</i> flower buds visualised by magnetic resonance imaging. <i>Plant, Cell and Environment</i> , 2022, 45, 2109-2125.	2.8	2
49	Probing solute-solvent interactions using difluorobenzene isomers in water-monohydric-alcohol mixtures. <i>Journal of Molecular Liquids</i> , 2014, 198, 392-397.	2.3	1
50	<title>Laser-produced pair production in vacuum and Hawking-Unruh radiation</title>. , 2001, , .		0
51	Microscopic diffusivity compartmentation in formalin-fixed prostate tissue. <i>Magnetic Resonance in Medicine</i> , 2012, 68, spcone-spcone.	1.9	0
52	A magnetic gradient induced force in NMR restricted diffusion experiments. <i>Journal of Chemical Physics</i> , 2014, 140, 124104.	1.2	0
53	Frontispiece: Gd-DTPA-Bisphityanyl Amphiphile: Synthesis, Characterisation and Relaxation Parameters of the Nanoassemblies and Their Potential as MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2015, 21, .	1.7	0
54	Low-bandwidth space/frequency component separation for quantitative imaging. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 137-144.	1.1	0