Timothy Stait-Gardner

List of Publications by Year
in descending order

54 papers	785 citations	516561 16 h-index	552653 26 g-index
57 all docs	57 docs citations	57 times ranked	1678 citing authors

#	Article	IF	Citations
1	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. Plant, Cell and Environment, 2022, 45, 2109-2125.	2.8	2
2	NMR imaging and diffusion. Adsorption, 2021, 27, 503-533.	1.4	14
3	Is It Time to Forgo the Use of the Terms â€œSpinâ€“Latticeâ€•and â€œSpinâ€“Spinâ€•Relaxation in NMR and MRI?. Journal of Physical Chemistry Letters, 2021, 12, 6305-6312.	2.1	13
4	Explicit phenomenological solutions for magnetization exposed to an arbitrary NMR diffusion steady state pulse sequence. Journal of Chemical Physics, 2021, 155, 144204.	1.2	3
5	Effect of placental growth factor in models of experimental preâ€eclampsia and trophoblast invasion. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 49-59.	0.9	4
6	Thiolâ€water proton exchange of glutathione, cysteine, and N â€acetylcysteine: Implications for CEST MRI. NMR in Biomedicine, 2020, 33, e4188.	1.6	8
7	Correlation of ultra-high field MRI with histopathology for evaluation of rectal cancer heterogeneity. Scientific Reports, 2019, 9, 9311.	1.6	9
8	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
9	NMR Versatility. , 2018, , 233-260.		3
10	A Simple and Effective Binomial Block Based Pulse Sequence Capable of Suppressing Multiple NMR Signals. Journal of Physical Chemistry A, 2018, 122, 9712-9720.	1.1	3
11	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
12	Quantification of placental change in mouse models of preeclampsia using magnetic resonance microscopy. European Journal of Histochemistry, 2018, 62, 2868.	0.6	6
13	Shortening NMR experimental times. Magnetic Resonance in Chemistry, 2018, 56, 847-851.	1.1	5
14	A 3D MRIâ€based atlas of a lizard brain. Journal of Comparative Neurology, 2018, 526, 2511-2547.	0.9	22
15	Diffusion NMR: A Tool to Investigate the Dynamics of Organic Systems. Current Organic Chemistry, 2018, 22, 758-768.	0.9	2
16	Determining a â€˜diffusion-averagedâ€™ characteristic ratio for aligned lyotropic hexagonal phases using PGSE NMR self-diffusion measurements, random walk simulations and obstruction models. Journal of Molecular Liquids, 2017, 236, 107-116.	2.3	3
17	The protective effect of apolipoprotein in models of trophoblast invasion and preeclampsia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R40-R48.	0.9	18
18	Evidence for Concerted and Mosaic Brain Evolution in Dragon Lizards. Brain, Behavior and Evolution, 2017, 90, 211-223.	0.9	30

#	Article	IF	Citations
19	Lowâ€bandwidth space/frequency component separation for quantitative imaging. Magnetic Resonance in Chemistry, 2017, 55, 137-144.	1.1	0
20	Sexual selection predicts brain structure in dragon lizards. Journal of Evolutionary Biology, 2017, 30, 244-256.	0.8	16
21	Physical characterization using diffusion NMR spectroscopy. Magnetic Resonance in Chemistry, 2017, 55, 414-424.	1.1	16
22	Solute transport within grape berries inferred from the paramagnetic properties of manganese. Functional Plant Biology, 2017, 44, 969.	1.1	3
23	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
24	Fast determination of the ¹H relaxivities of MRI contrast agents. Magnetic Resonance in Chemistry, 2016, 54, 58-61.	1.1	2
25	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
26	Nonâ€Ideal Behaviour and Solution Interactions in Binary DMSO Solutions. ChemPhysChem, 2015, 16, 3814-3823.	1.0	6
27	Gdâ€DTPAâ€Dopamineâ€Bisphytanyl 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
28	Frontispiece: Gdâ€DTPAâ€Dopamineâ€Bisphytanyl Amphiphile: Synthesis, Characterisation and Relaxation Parameters of the Nanoassemblies and Their Potential as MRI Contrast Agents. Chemistry - A European Journal, 2015, 21, .	1.7	0
29	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
30	Macromolecular crowding studies of amino acids using NMR diffusion measurements and molecular dynamics simulations. Frontiers in Physics, 2015, 3, .	1.0	12
31	Evaluation of Gd-DTPA-Monophytanyl and Phytantriol Nanoassemblies as Potential MRI Contrast Agents. Langmuir, 2015, 31, 1556-1563.	1.6	16
32	Steady state effects in a two-pulse diffusion-weighted sequence. Journal of Chemical Physics, 2015, 142, 154201.	1.2	7
33	A magnetic gradient induced force in NMR restricted diffusion experiments. Journal of Chemical Physics, 2014, 140, 124104.	1.2	0
34	Use of diffusion magnetic resonance imaging to correlate the developmental changes in grape berry tissue structure with water diffusion patterns. Plant Methods, 2014, 10, 35.	1.9	16
35	Diffusion Studies of Phenylenediamine Isomers in Water-Monohydric-Alcohol Systems. Australian Journal of Chemistry, 2014, 67, 922.	0.5	2
36	Spatial and temporal control of drug release through pH and alternating magnetic field induced breakage of Schiff base bonds. Polymer Chemistry, 2014, 5, 3311-3315.	1.9	39

#	Article	IF	Citations
37	Nanoassemblies of Gdâ€“DTPAâ€“monooleyl and glycerol monooleate amphiphiles as potential MRI contrast agents. Journal of Materials Chemistry B, 2014, 2, 1225.	2.9	25
38	Probing soluteâ€“solvent interactions using difluorobenzene isomers in waterâ€“monohydric-alcohol mixtures. Journal of Molecular Liquids, 2014, 198, 392-397.	2.3	1
39	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
40	Stress-Induced Grey Matter Loss Determined by MRI Is Primarily Due to Loss of Dendrites and Their Synapses. Molecular Neurobiology, 2013, 47, 645-661.	1.9	170
41	Numerical analysis of NMR diffusion measurements in the short gradient pulse limit. Journal of Magnetic Resonance, 2013, 234, 165-175.	1.2	26
42	Diffusion Studies of Dihydroxybenzene Isomers in Waterâ€“Alcohol Systems. Journal of Physical Chemistry B, 2013, 117, 2734-2741.	1.2	27
43	Magnetic Resonance Imaging Detects Placental Hypoxia and Acidosis in Mouse Models of Perturbed Pregnancies. PLoS ONE, 2013, 8, e59971.	1.1	14
44	Microscopic diffusivity compartmentation in formalinâ€fixed prostate tissue. Magnetic Resonance in Medicine, 2012, 68, 614-620.	1.9	34
45	Biexponential diffusion decay in formalinâ€fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 954-959.	1.9	21
46	Microscopic diffusivity compartmentation in formalin-fixed prostate tissue. Magnetic Resonance in Medicine, 2012, 68, spcone-spcone.	1.9	0
47	Ultrahigh acceleration of plasma blocks from direct converting laser energy into motion by nonlinear forces. , 2011, , .		3
48	Elastic and viscoelastic properties of porcine subdermal fat using MRI and inverse FEA. Biomechanics and Modeling in Mechanobiology, 2010, 9, 703-711.	1.4	25
49	Modeling diffusion in restricted systems using the heat kernel expansion. Journal of Chemical Physics, 2010, 132, 234108.	1.2	3
50	A physical interpretation of product operator terms. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2009, 34A, 322-356.	0.2	4
51	PGSTE-WATERGATE: An STE-based PGSE NMR sequence with excellent solvent suppression. Journal of Magnetic Resonance, 2008, 191, 159-163.	1.2	59
52	Steady state effects in PGSE NMR diffusion experiments. Chemical Physics Letters, 2008, 462, 331-336.	1.2	25
53	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
54	<title>Laser-produced pair production in vacuum and Hawking-Unruh radiation</title>. , 2001, , .		0