

Melanie M Britton

List of Publications by Year in descending order

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59
papers

1,254
citations

361413

20
h-index

377865

34
g-index

61
all docs

61
docs citations

61
times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Phase Shear Band Structures at Uniform Stress. <i>Physical Review Letters</i> , 1997, 78, 4930-4933.	7.8	188
2	Nuclear magnetic resonance visualization of anomalous flow in cone-and-plate rheometry. <i>Journal of Rheology</i> , 1997, 41, 1365-1386.	2.6	83
3	Magnetic resonance imaging of chemistry. <i>Chemical Society Reviews</i> , 2010, 39, 4036.	38.1	63
4	Operando visualisation of battery chemistry in a sodium-ion battery by ²³ Na magnetic resonance imaging. <i>Nature Communications</i> , 2020, 11, 2083.	12.8	62
5	De Novo Design of Ln(III) Coiled Coils for Imaging Applications. <i>Journal of the American Chemical Society</i> , 2014, 136, 1166-1169.	13.7	55
6	Sizing of Reverse Micelles in Microemulsions using NMR Measurements of Diffusion. <i>Langmuir</i> , 2012, 28, 11699-11706.	3.5	50
7	In Situ, Real-Time Visualization of Electrochemistry Using Magnetic Resonance Imaging. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3019-3023.	4.6	46
8	NMR and Molecular Dynamics Study of the Size, Shape, and Composition of Reverse Micelles in a Cetyltrimethylammonium Bromide (CTAB)/n-Hexane/Pentanol/Water Microemulsion. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10767-10775.	2.6	39
9	Magnetic Resonance Imaging of Electrochemical Cells Containing Bulk Metal. <i>ChemPhysChem</i> , 2014, 15, 1731-1736.	2.1	37
10	Characterisation of heterogeneity and spatial autocorrelation in phase separating mixtures using Moran's I. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 180-187.	9.4	37
11	Mapping B1-induced eddy current effects near metallic structures in MR images: A comparison of simulation and experiment. <i>Journal of Magnetic Resonance</i> , 2015, 250, 17-24.	2.1	34
12	MRI of chemical reactions and processes. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2017, 101, 51-70.	7.5	32
13	In situ magnetic resonance measurement of conversion, hydrodynamics and mass transfer during single- and two-phase flow in fixed-bed reactors. <i>Magnetic Resonance Imaging</i> , 2003, 21, 213-219.	1.8	30
14	Quantitative, In Situ Visualization of Metal Ion Dissolution and Transport Using ¹ H Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9394-9397.	13.8	28
15	NMR microscopy and the non-linear rheology of food materials. <i>Magnetic Resonance in Chemistry</i> , 1997, 35, S37-S46.	1.9	26
16	NMR velocimetry and spectroscopy at microscopic resolution in small rheometric devices. <i>Applied Magnetic Resonance</i> , 1998, 15, 287-301.	1.2	24
17	Location dependent coordination chemistry and MRI relaxivity, in de novo designed lanthanide coiled coils. <i>Chemical Science</i> , 2016, 7, 2207-2216.	7.4	24
18	Magnetic Resonance Imaging of Flow-Distributed Oscillations. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8306-8313.	2.5	23

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19	Detection of pH in Microemulsions, without a Probe Molecule, Using Magnetic Resonance. Journal of Physical Chemistry B, 2010, 114, 13745-13751.	2.6	23
20	Visualisation of chemical processes during corrosion of zinc using magnetic resonance imaging. Electrochemistry Communications, 2010, 12, 44-47.	4.7	21
21	Relationships between flow and NMR relaxation of fluids in porous solids. Magnetic Resonance Imaging, 2001, 19, 325-331.	1.8	20
22	Nuclear Magnetic Resonance Studies of the 1,4-Cyclohexanedione~Bromate~Acid Oscillatory System. Journal of Physical Chemistry A, 2003, 107, 5033-5041.	2.5	20
23	NMR relaxation and pulsed field gradient study of alginate bead porous media. Journal of Magnetic Resonance, 2004, 169, 203-214.	2.1	19
24	NMR VELOCIMETRY STUDY OF THE TEMPERATURE DEPENDENT RHEOLOGY OF BUTTER, SEMISOFT BUTTER AND MARGARINE. Journal of Texture Studies, 2000, 31, 245-255.	2.5	18
25	Magnetic resonance imaging of a magnetic field-dependent chemical wave. Chemical Physics Letters, 2004, 397, 67-72.	2.6	18
26	Magnetic Resonance Imaging of the Manipulation of a Chemical Wave Using an Inhomogeneous Magnetic Field. Journal of the American Chemical Society, 2006, 128, 7309-7314.	13.7	18
27	Magnetic resonance imaging of the rheology of ionic liquid colloidal suspensions. Soft Matter, 2013, 9, 2730.	2.7	18
28	Magnetic resonance imaging of chemical waves in porous media. Chaos, 2006, 16, 037103.	2.5	15
29	Magnetic resonance imaging of reaction-driven viscous fingering in a packed bed. Microporous and Mesoporous Materials, 2013, 178, 64-68.	4.4	13
30	Magnetic Resonance Studies of a Redox Probe in a Reverse Sodium Bis(2-ethylhexyl)sulfosuccinate/Octane/Water Microemulsion. Journal of Physical Chemistry B, 2010, 114, 12558-12564.	2.6	12
31	The impact of N,N-dimethyldodecylamine N-oxide (DDAO) concentration on the crystallisation of sodium dodecyl sulfate (SDS) systems and the resulting changes to crystal structure, shape and the kinetics of crystal growth. Journal of Colloid and Interface Science, 2018, 527, 260-266.	9.4	12
32	Nuclear magnetic resonance and small-angle X-ray scattering studies of mixed sodium dodecyl sulfate and N,N-dimethyldodecylamine N-oxide aqueous systems performed at low temperatures. Journal of Colloid and Interface Science, 2019, 535, 1-7.	9.4	12
33	Spatial Quantification of Mn ²⁺ and Mn ³⁺ Concentrations in the Mn-Catalyzed 1,4-Cyclohexanedione/Acid/Bromate Reaction Using Magnetic Resonance Imaging. Journal of Physical Chemistry A, 2006, 110, 2579-2582.	2.5	11
34	Crystallisation of sodium dodecyl sulfate and the corresponding effect of 1-dodecanol addition. Journal of Crystal Growth, 2016, 455, 111-116.	1.5	11
35	The Influence of Water and Metal Ions on the Transport Properties of Trihexyl(tetradecyl)phosphonium Chloride. Australian Journal of Chemistry, 2012, 65, 1542.	0.9	10
36	Inward propagating chemical waves in Taylor vortices. Physical Review E, 2010, 81, 047101.	2.1	9

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37	Low frequency temperature forcing of chemical oscillations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12321.	2.8	9
38	Characterising stationary and translating vortex flow using magnetic resonance. <i>Europhysics Letters</i> , 2012, 99, 68001.	2.0	8
39	Low temperature stability of surfactant systems. <i>Trends in Food Science and Technology</i> , 2017, 60, 23-30.	15.1	8
40	Tuning coordination chemistry through the second sphere in designed metallocoiled coils. <i>Chemical Communications</i> , 2020, 56, 3729-3732.	4.1	8
41	NMR study of the influence of n-alkanol co-surfactants on reverse micelles in quaternary microemulsions of cetyltrimethylammonium bromide (CTAB). <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 425-432.	1.9	7
42	Combined Use of Streaming Potential and UV/Vis To Assess Surface Modification of Fabrics via Soil Release Polymers. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14839-14847.	3.7	7
43	Probing the influence of Zn and water on solvation and dynamics in ethaline and reline deep eutectic solvents by ¹ H nuclear magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21913-21922.	2.8	7
44	Nuclear Magnetic Resonance Studies of Convection in the 1,4-Cyclohexanedione-Bromate-Acid Reaction. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5075-5080.	2.5	5
45	SQUID magnetometry as a tool for following a clock reaction in solution. <i>Dalton Transactions</i> , 2009, , 2467.	3.3	5
46	Phase Saturation Control on Mixing-Driven Reactions in 3D Porous Media. <i>Environmental Science & Technology</i> , 2021, 55, 8742-8752.	10.0	5
47	X-ray crystallography and NMR spectroscopy of some cyclohexyl esters. <i>Journal of Molecular Structure</i> , 1997, 403, 1-16.	3.6	4
48	The aggregation of an alkyl-C ₆₀ derivative as a function of concentration, temperature and solvent type. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3373-3380.	2.8	4
49	Probing Composition and Molecular Mobility in Thin Spherical Films Using Nuclear Magnetic Resonance Measurements of Diffusion. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6825-6830.	3.7	3
50	Phase separation and collapse in almost density matched depletion induced colloidal gels in presence and absence of air bubbles: An MRI imaging study. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 201-211.	9.4	2
51	Characterization of Open-Cell Sponges via Magnetic Resonance and X-ray Tomography. <i>Materials</i> , 2021, 14, 2187.	2.9	2
52	Applications of magnetic resonance imaging to probe chemistry and flow in complex systems. <i>Nuclear Magnetic Resonance</i> , 2016, , 164-189.	0.2	2
53	Measurement of the Concentration of Mn ²⁺ and Mn ³⁺ in the Manganese-Catalyzed 1,4-Cyclohexanedione-Bromate Reaction Using Redox-Triggered Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13209-13214.	2.5	1
54	Quantitative, In-situ Visualization of Metal Ion Dissolution and Transport Using ¹ H Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2016, 128, 9540-9543.	2.0	1

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55	Understanding the Crystallization Process in Detergent Formulations in the Absence and Presence of Agitation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16162-16171.	3.7	1
56	Effects of Hydration on the Conformational Behavior of Flexible Molecules with Two Charge Centers. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5323-5330.	2.5	1
57	NMR relaxation and pulsed field gradient study of alginate bead porous media. <i>Journal of Magnetic Resonance</i> , 2004, 169, 203-203.	2.1	0
58	Magnetic Field Control of Chemical Waves. , 0, , 381-398.		0
59	Chemical patterns in translating vortices: Inter- and intra-cellular mixing effects. <i>Chaos</i> , 2013, 23, 023115.	2.5	0