Melanie M Britton

List of Publications by Year
in descending order

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	Phase separation and collapse in almost density matched depletion induced colloidal gels in presence and absence of air bubbles: An MRI imaging study. Journal of Colloid and Interface Science, 2021, 582, 201-211.	9.4	2
2	Probing the influence of Zn and water on solvation and dynamics in ethaline and reline deep eutectic solvents by ¹H nuclear magnetic resonance. Physical Chemistry Chemical Physics, 2021, 23, 21913-21922.	2.8	7
3	Characterization of Open-Cell Sponges via Magnetic Resonance and X-ray Tomography. Materials, 2021, 14, 2187.	2.9	2
4	Phase Saturation Control on Mixing-Driven Reactions in 3D Porous Media. Environmental Science & Technology, 2021, 55, 8742-8752.	10.0	5
5	Effects of Hydration on the Conformational Behavior of Flexible Molecules with Two Charge Centers. Journal of Physical Chemistry A, 2020, 124, 5323-5330.	2.5	1
6	Tuning coordination chemistry through the second sphere in designed metallocoiled coils. Chemical Communications, 2020, 56, 3729-3732.	4.1	8
7	Operando visualisation of battery chemistry in a sodium-ion battery by 23Na magnetic resonance imaging. Nature Communications, 2020, 11, 2083.	12.8	62
8	Combined Use of Streaming Potential and UV/Vis To Assess Surface Modification of Fabrics via Soil Release Polymers. Industrial & Engineering Chemistry Research, 2019, 58, 14839-14847.	3.7	7
9	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
10	Characterisation of heterogeneity and spatial autocorrelation in phase separating mixtures using Moranâ€™s I. Journal of Colloid and Interface Science, 2018, 513, 180-187.	9.4	37
11	The aggregation of an alkylâ€“C₆₀derivative as a function of concentration, temperature and solvent type. Physical Chemistry Chemical Physics, 2018, 20, 3373-3380.	2.8	4
12	Understanding the Crystallization Process in Detergent Formulations in the Absence and Presence of Agitation. Industrial & Engineering Chemistry Research, 2018, 57, 16162-16171.	3.7	1
13	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
14	NMR study of the influence of nâ€alkanol coâ€surfactants on reverse micelles in quaternary microemulsions of cetyltrimethylammonium bromide (CTAB). Magnetic Resonance in Chemistry, 2017, 55, 425-432.	1.9	7
15	MRI of chemical reactions and processes. Progress in Nuclear Magnetic Resonance Spectroscopy, 2017, 101, 51-70.	7.5	32
16	Low temperature stability of surfactant systems. Trends in Food Science and Technology, 2017, 60, 23-30.	15.1	8
17	Quantitative, Inâ€…Situ Visualization of Metalâ€Ion Dissolution and Transport Using 1 H Magnetic Resonance Imaging. Angewandte Chemie, 2016, 128, 9540-9543.	2.0	1
18	Quantitative, Inâ€…Situ Visualization of Metalâ€Ion Dissolution and Transport Using 1 H Magnetic Resonance Imaging. Angewandte Chemie - International Edition, 2016, 55, 9394-9397.	13.8	28

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19	Crystallisation of sodium dodecyl sulfate and the corresponding effect of 1-dodecanol addition. Journal of Crystal Growth, 2016, 455, 111-116.	1.5	11
20	Location dependent coordination chemistry and MRI relaxivity, in de novo designed lanthanide coiled coils. Chemical Science, 2016, 7, 2207-2216.	7.4	24
21	Applications of magnetic resonance imaging to probe chemistry and flow in complex systems. Nuclear Magnetic Resonance, 2016, , 164-189.	0.2	2
22	Probing Composition and Molecular Mobility in Thin Spherical Films Using Nuclear Magnetic Resonance Measurements of Diffusion. Industrial & Engineering Chemistry Research, 2015, 54, 6825-6830.	3.7	3
23	Mapping B1-induced eddy current effects near metallic structures in MR images: A comparison of simulation and experiment. Journal of Magnetic Resonance, 2015, 250, 17-24.	2.1	34
24	Magnetic Resonance Imaging of Electrochemical Cells Containing Bulk Metal. ChemPhysChem, 2014, 15, 1731-1736.	2.1	37
25	De Novo Design of Ln(III) Coiled Coils for Imaging Applications. Journal of the American Chemical Society, 2014, 136, 1166-1169.	13.7	55
26	NMR and Molecular Dynamics Study of the Size, Shape, and Composition of Reverse Micelles in a Cetyltrimethylammonium Bromide (CTAB)/n-Hexane/Pentanol/Water Microemulsion. Journal of Physical Chemistry B, 2014, 118, 10767-10775.	2.6	39
27	Magnetic resonance imaging of reaction-driven viscous fingering in a packed bed. Microporous and Mesoporous Materials, 2013, 178, 64-68.	4.4	13
28	Magnetic resonance imaging of the rheology of ionic liquid colloidal suspensions. Soft Matter, 2013, 9, 2730.	2.7	18
29	Chemical patterns in translating vortices: Inter- and intra-cellular mixing effects. Chaos, 2013, 23, 023115.	2.5	0
30	In Situ, Real-Time Visualization of Electrochemistry Using Magnetic Resonance Imaging. Journal of Physical Chemistry Letters, 2013, 4, 3019-3023.	4.6	46
31	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
32	Characterising stationary and translating vortex flow using magnetic resonance. Europhysics Letters, 2012, 99, 68001.	2.0	8
33	Sizing of Reverse Micelles in Microemulsions using NMR Measurements of Diffusion. Langmuir, 2012, 28, 11699-11706.	3.5	50
34	Low frequency temperature forcing of chemical oscillations. Physical Chemistry Chemical Physics, 2011, 13, 12321.	2.8	9
35	Detection of pH in Microemulsions, without a Probe Molecule, Using Magnetic Resonance. Journal of Physical Chemistry B, 2010, 114, 13745-13751.	2.6	23
36	Visualisation of chemical processes during corrosion of zinc using magnetic resonance imaging. Electrochemistry Communications, 2010, 12, 44-47.	4.7	21

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37	Inward propagating chemical waves in Taylor vortices. Physical Review E, 2010, 81, 047101.	2.1	9
38	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
39	Magnetic resonance imaging of chemistry. Chemical Society Reviews, 2010, 39, 4036.	38.1	63
40	SQUID magnetometry as a tool for following a clock reaction in solution. Dalton Transactions, 2009, , 2467.	3.3	5
41	Nuclear Magnetic Resonance Studies of Convection in the 1,4-Cyclohexanedioneâ^'Bromateâ^'Acid Reaction. Journal of Physical Chemistry A, 2006, 110, 5075-5080.	2.5	5
42	Measurement of the Concentration of Mn2+and Mn3+in the Manganese-Catalyzed 1,4-Cyclohexanedioneâ^'Acidâ^'Bromate Reaction Using Redox-Triggered Magnetic Resonance Spectroscopy. Journal of Physical Chemistry A, 2006, 110, 13209-13214.	2.5	1
43	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
44	Spatial Quantification of Mn2+and Mn3+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
45	Magnetic resonance imaging of chemical waves in porous media. Chaos, 2006, 16, 037103.	2.5	15
46	Magnetic Resonance Imaging of Flow-Distributed Oscillations. Journal of Physical Chemistry A, 2005, 109, 8306-8313.	2.5	23
47	NMR relaxation and pulsed field gradient study of alginate bead porous media. Journal of Magnetic Resonance, 2004, 169, 203-214.	2.1	19
48	Magnetic resonance imaging of a magnetic field-dependent chemical wave. Chemical Physics Letters, 2004, 397, 67-72.	2.6	18
49	NMR relaxation and pulsed field gradient study of alginate bead porous media. Journal of Magnetic Resonance, 2004, 169, 203-203.	2.1	0
50	In situ magnetic resonance measurement of conversion, hydrodynamics and mass transfer during single- and two-phase flow in fixed-bed reactors. Magnetic Resonance Imaging, 2003, 21, 213-219.	1.8	30
51	Nuclear Magnetic Resonance Studies of the 1,4-Cyclohexanedioneâ^'Bromateâ^'Acid Oscillatory System. Journal of Physical Chemistry A, 2003, 107, 5033-5041.	2.5	20
52	Relationships between flow and NMR relaxation of fluids in porous solids. Magnetic Resonance Imaging, 2001, 19, 325-331.	1.8	20
53	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
54	NMR velocimetry and spectroscopy at microscopic resolution in small rheometric devices. Applied Magnetic Resonance, 1998, 15, 287-301.	1.2	24

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55	Two-Phase Shear Band Structures at Uniform Stress. Physical Review Letters, 1997, 78, 4930-4933.	7.8	188
56	Nuclear magnetic resonance visualization of anomalous flow in cone-and-plate rheometry. Journal of Rheology, 1997, 41, 1365-1386.	2.6	83
57	X-ray crystallography and NMR spectroscopy of some cyclohexyl esters. Journal of Molecular Structure, 1997, 403, 1-16.	3.6	4
58	NMR microscopy and the non-linear rheology of food materials. Magnetic Resonance in Chemistry, 1997, 35, S37-S46.	1.9	26
59	Magnetic Field Control of Chemical Waves. , 0, , 381-398.		0