J Beau W Webber

List of Publications by Year
in descending order

40 papers	1,557 citations	331670 21 h-index	315739 38 g-index
43 all docs	43 docs citations	43 times ranked	1818 citing authors

#	Article	IF	Citations
1	Nuclear magnetic resonance cryoporometry. Physics Reports, 2008, 461, 1-36.	25.6	258
2	Mineralâ€“Biochar Composites: Molecular Structure and Porosity. Environmental Science & Technology, 2016, 50, 7706-7714.	10.0	148
3	Microstructure of Cell Wall-Associated Melanin in the Human Pathogenic FungusCryptococcus neoformansâ€. Biochemistry, 2005, 44, 3683-3693.	2.5	132
4	Why aqueous alteration in asteroids was isochemical: High porosity â‰ high permeability. Earth and Planetary Science Letters, 2009, 287, 559-568.	4.4	122
5	Studies of nano-structured liquids in confined geometries and at surfaces. Progress in Nuclear Magnetic Resonance Spectroscopy, 2010, 56, 78-93.	7.5	74
6	Capillary Imbibition and Pore Characterisation in Cement Pastes. Transport in Porous Media, 2000, 39, 143-157.	2.6	65
7	Pore surface exploration by NMR. Magnetic Resonance Imaging, 2003, 21, 221-226.	1.8	61
8	Structural and dynamic studies of water in mesoporous silicas using neutron scattering and nuclear magnetic resonance. Journal of Physics Condensed Matter, 2004, 16, S5449-S5470.	1.8	61
9	A bi-symmetric log transformation for wide-range data. Measurement Science and Technology, 2013, 24, 027001.	2.6	53
10	Neutron diffraction and NMR relaxation studies of structural variation and phase transformations for water/ice in SBA-15 silica: I. The over-filled case. Journal of Physics Condensed Matter, 2006, 18, 10009-10028.	1.8	51
11	An NMR study of porous rock and biochar containing organic material. Microporous and Mesoporous Materials, 2013, 178, 94-98.	4.4	50
12	Gas hydrate growth and dissociation in narrow pore networks: capillary inhibition and hysteresis phenomena. Geological Society Special Publication, 2009, 319, 145-159.	1.3	49
13	Spatially resolved pore size distributions by NMR. Measurement Science and Technology, 1997, 8, 555-561.	2.6	46
14	Studies of water and ice in hydrophilic and hydrophobic mesoporous silicas: pore characterisation and phase transformations. Physical Chemistry Chemical Physics, 2010, 12, 2838.	2.8	45
15	An evaluation of NMR cryoporometry, density measurement and neutron scattering methods of pore characterisation. Magnetic Resonance Imaging, 2001, 19, 395-399.	1.8	39
16	Characterisation of porous solids using small-angle scattering and NMR cryoporometry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 241, 191-200.	4.7	37
17	Plastic ice in confined geometry: the evidence from neutron diffraction and NMR relaxation. Journal of Physics Condensed Matter, 2007, 19, 415117.	1.8	37
18	Clathrate formation and dissociation in vapor/water/ice/hydrate systems in SBA-15, solâ€“gel and CPG porous media, as probed by NMR relaxation, novel protocol NMR cryoporometry, neutron scattering and ab initio quantumâ€“mechanical molecular dynamics simulation. Magnetic Resonance Imaging, 2007, 25, 533-536.	1.8	28

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19	Pore size distribution mapping. Magnetic Resonance Imaging, 1996, 14, 803-805.	1.8	27
20	Neutron diffraction studies of structural phase transformations for waterâ€“ice in confined geometry. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 501-507.	2.6	23
21	Structural characterization of water/ice formation in SBA-15 silicas: III. The triplet profile for 86 Ã… pore diameter. Journal of Physics Condensed Matter, 2008, 20, 205108.	1.8	21
22	Neutron Diffraction Cryoporometryâ€”A measurement technique for studying mesoporous materials and the phases of contained liquids and their crystalline forms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 586, 356-366.	1.6	20
23	Structural characterization of water and ice in mesoporous SBA-15 silicas: II. The â€˜almost-filledâ€™ case for 86 Ã… pore diameter. Journal of Physics Condensed Matter, 2008, 20, 205107.	1.8	18
24	Phase transformations for cyclohexane in mesoporous silicas. Physica A: Statistical Mechanics and Its Applications, 2004, 333, 10-16.	2.6	16
25	An NMR apparatus for the measurement of self-diffusion in solids. Journal of Physics E: Scientific Instruments, 1978, 11, 1051-1055.	0.7	13
26	Credit-card sized field and benchtop NMR relaxometers using field programmable gate arrays. Magnetic Resonance Imaging, 2019, 56, 45-51.	1.8	13
27	Some unusual features in the behaviour of cyclohexane in confined geometry studied by neutron scattering. Journal of Molecular Liquids, 2002, 96-97, 353-362.	4.9	6
28	USY zeolite mesoporosity probed by NMR cryoporometry. Microporous and Mesoporous Materials, 2020, 306, 110404.	4.4	6
29	Some Applications of a Field Programmable Gate Array Based Time-Domain Spectrometer for NMR Relaxation and NMR Cryoporometry. Applied Sciences (Switzerland), 2020, 10, 2714.	2.5	5
30	A comparison between the characteristics of a biochar-NPK granule and a commercial NPK granule for application in the soil. Science of the Total Environment, 2022, 832, 155021.	8.0	5
31	Dynamics at Surfaces: Probing the Dynamics of Polar and A-Polar Liquids at Silica and Vapour Surfaces. , 2008, , .		4
32	Synergistic Effects between Hydrolysis Time and Microporous Structure in Poplar. ACS Sustainable Chemistry and Engineering, 2019, 7, 12920-12929.	6.7	4
33	A review of the use of simple time-domain NMR/MRI for material-science. SN Applied Sciences, 2021, 3, 1.	2.9	4
34	Phase Relations for Water and Ice in Confined Geometry. , 2002, , 469-480.		4
35	Structural characterization of water and ice in mesoporous SBA-15 silicas IV: partially filled cases for 86 â„« pore diameter. Journal of Physics Condensed Matter, 2013, 25, 465105.	1.8	3
36	The dimensional term in the Gibbsâ€“Thomson equation, describing the behaviour of liquids in porous media, is being investigated by NMR relaxation, novel protocol NMR cryoporometry, neutron scattering and ab initio QM-MD simulation. Magnetic Resonance Imaging, 2007, 25, 589-590.	1.8	2

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37	NMR Looks Deep Inside Nooks and Crannies. Physics Magazine, 2012, 5, .	0.1	2
38	Biological, Medical and Nano Structured materials - NMR done Simply. Archives in Biomedical Engineering & Biotechnology, 2019, 1, .	0.2	2
39	Nano-metrology of porous structures â€" I Comparison of measured neutron scattering with calculated scattering to access pore lattice, diameter, and wall parameters, using models of extended arrays of regular or randomised pores. Physics Reports, 2013, 526, 227-248.	25.6	1
40	A pipe has two ends â€¦. APL Quote Quad, 1989, 20, 1-2.	0.1	0