

Matthew Augustine

List of Publications by Year in descending order

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36
papers

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759055

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37
all docs

37
docs citations

37
times ranked

1114
citing authors

#	ARTICLE	IF	CITATIONS
1	An Optimized 2ÂMHz Unilateral Magnet with a Large Homogeneous Sensitive Spot. Applied Magnetic Resonance, 2022, 53, 401-415.	0.6	6
2	Estimates of blood plasma water content using portable NMR relaxometry. Measurement Science and Technology, 2020, 31, 035701.	1.4	4
3	Experimental estimates of compression heating and decompression cooling in ethylene glycol. Magnetic Resonance in Chemistry, 2020, 58, 163-169.	1.1	2
4	Data processing in NMR relaxometry using the matrix pencil. Journal of Magnetic Resonance, 2020, 313, 106704.	1.2	10
5	Noninvasive, Nondestructive Measurement of Tomato Concentrate Spoilage in Largeâ€Volume Aseptic Packages. Journal of Food Science, 2019, 84, 2898-2906.	1.5	14
6	A low cost, portable NMR probe for high pressure, MR relaxometry. Journal of Magnetic Resonance, 2019, 304, 35-41.	1.2	5
7	Nondestructive determination of the astringency of pollination-variant persimmons (Diospyros kaki) using near-infrared (NIR) spectroscopy and nuclear magnetic resonance (NMR) relaxometry. Postharvest Biology and Technology, 2019, 149, 50-57.	2.9	5
8	Using NMR Relaxometry to Probe Yb3+â€Er3+ Interactions in Highly Doped Nanocrystalline NaYF4 Nanostructures. Journal of Physical Chemistry C, 2019, 123, 10-16.	1.5	4
9	Aqueous geochemistry at gigapascal pressures: NMR spectroscopy of fluoroborate solutions. Geochimica Et Cosmochimica Acta, 2019, 244, 173-181.	1.6	11
10	Optical Patterning: Directâ€Write Optical Patterning of P3HT Films Beyond the Diffraction Limit (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 T	11.9	0
11	Steps to achieving high-resolution NMR spectroscopy on solutions at GPa pressure. Numerische Mathematik, 2017, 317, 846-860.	0.7	8
12	Directâ€Write Optical Patterning of P3HT Films Beyond the Diffraction Limit. Advanced Materials, 2017, 29, 1603221.	11.1	40
13	NMR spectroscopy of some electrolyte solutions to 1.9 GPa. Geochimica Et Cosmochimica Acta, 2016, 193, 66-74.	1.6	6
14	Comparison of solution-mixed and sequentially processed P3HT:F4TCNQ films: effect of doping-induced aggregation on film morphology. Journal of Materials Chemistry C, 2016, 4, 3454-3466.	2.7	256
15	2 H and 139 Laâ€...NMR Spectroscopy in Aqueous Solutions at Geochemical Pressures. Angewandte Chemie, 2015, 127, 15664-15667.	1.6	4
16	InnenrÃ¼cktitelbild:2H and139Laâ€...NMR Spectroscopy in Aqueous Solutions at Geochemical Pressures (Angew. Chem. 51/2015). Angewandte Chemie, 2015, 127, 15805-15805.	1.6	0
17	2 H and 139 Laâ€...NMR Spectroscopy in Aqueous Solutions at Geochemical Pressures. Angewandte Chemie - International Edition, 2015, 54, 15444-15447.	7.2	15
18	Towards Using NMR to Screen for Spoiled Tomatoes Stored in 1,000 L, Aseptically Sealed, Metal-Lined Totes. Sensors, 2014, 14, 4167-4176.	2.1	22

#	ARTICLE	IF	CITATIONS
19	Analytical approximations to inhomogeneously broadened, radiation damped free precession and echo signals. <i>Journal of Magnetic Resonance</i> , 2014, 238, 106-114.	1.2	0
20	The time dependent Dirac-Frenkel-McLachlan variation of parameters: An NMR application. <i>Journal of Magnetic Resonance</i> , 2012, 214, 263-272.	1.2	1
21	Use of NMR Spectroscopy in the Synthesis and Characterization of Air- and Water-Stable Silicon Nanoparticles from Porous Silicon. <i>Chemistry of Materials</i> , 2005, 17, 2932-2939.	3.2	52
22	Using NMR to study full intact wine bottles. <i>Journal of Magnetic Resonance</i> , 2003, 161, 91-98.	1.2	51
23	Using Sodium Cation Organization To Study the Phase Behavior of Bicelle Solutions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10956-10961.	1.2	5
24	Synthesis and Characterization of the Mg ₂ SixGe _{1-x} Solid Solution. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12573-12577.	1.2	27
25	High-voltage pulse switching hardware for electro-optic studies of conducting aqueous solutions. <i>Review of Scientific Instruments</i> , 2002, 73, 3080-3084.	0.6	4
26	Ordering of alkali halide salts dissolved in bacteriophage Pf1 solutions: A nuclear magnetic resonance study. <i>Journal of Chemical Physics</i> , 2002, 116, 7109-7115.	1.2	5
27	Transient properties of radiation damping. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2002, 40, 111-150.	3.9	81
28	Motional smearing of electrically recovered couplings measured from multipulse transients. <i>Concepts in Magnetic Resonance</i> , 2001, 13, 171-189.	1.3	1
29	Radiation damping with inhomogeneous broadening: Limitations of the single Bloch vector model. <i>Concepts in Magnetic Resonance</i> , 2001, 13, 1-7.	1.3	20
30	Radiation damping with inhomogeneous broadening: Limitations of the single Bloch vector model. , 2001, 13, 1.		2
31	Measurement of the Raman polarizability anisotropy for the $\nu = 1$ pure rotational Raman transition in H_2 by rotational Raman spectroscopy. <i>Molecular Physics</i> , 2000, 98, 349-353.	0.8	4
32	Extracting Residual NMR Coupling Constants From Electrically Aligned Liquids. <i>Journal of Physical Chemistry A</i> , 2000, 104, 3326-3331.	1.1	12
33	Three-Component Spin Echoes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8229-8238.	1.2	12
34	Low field magnetic resonance images of polarized noble gases obtained with a dc superconducting quantum interference device. <i>Applied Physics Letters</i> , 1998, 72, 1908-1910.	1.5	42
35	Application of a nuclear magnetic resonance signal area theorem to multiple pulse sequences. <i>Molecular Physics</i> , 1998, 95, 737-746.	0.8	6
36	Three component spin echo generation by radiation damping. <i>Journal of Chemical Physics</i> , 1997, 107, 3324-3328.	1.2	19