

Matthew Augustine

List of Publications by Year in descending order

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36
papers

756
citations

759233

12
h-index

526287

27
g-index

37
all docs

37
docs citations

37
times ranked

1114
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Comparison of solution-mixed and sequentially processed P3HT:F4TCNQ films: effect of doping-induced aggregation on film morphology. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3454-3466. | 5.5 | 256 |
| 2 | Transient properties of radiation damping. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2002, 40, 111-150. | 7.5 | 81 |
| 3 | 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. | 6.7 | 52 |
| 4 | Using NMR to study full intact wine bottles. <i>Journal of Magnetic Resonance</i> , 2003, 161, 91-98. | 2.1 | 51 |
| 5 | 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. | 3.3 | 42 |
| 6 | Direct Write Optical Patterning of P3HT Films Beyond the Diffraction Limit. <i>Advanced Materials</i> , 2017, 29, 1603221. | 21.0 | 40 |
| 7 | Synthesis and Characterization of the Mg ₂ SixGe _{1-x} Solid Solution. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12573-12577. | 2.6 | 27 |
| 8 | Towards Using NMR to Screen for Spoiled Tomatoes Stored in 1,000 L, Aseptically Sealed, Metal-Lined Totes. <i>Sensors</i> , 2014, 14, 4167-4176. | 3.8 | 22 |
| 9 | 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 |
| 10 | Three component spin echo generation by radiation damping. <i>Journal of Chemical Physics</i> , 1997, 107, 3324-3328. | 3.0 | 19 |
| 11 | ² H and ¹³⁹ La NMR Spectroscopy in Aqueous Solutions at Geochemical Pressures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15444-15447. | 13.8 | 15 |
| 12 | Noninvasive, Nondestructive Measurement of Tomato Concentrate Spoilage in Large Volume Aseptic Packages. <i>Journal of Food Science</i> , 2019, 84, 2898-2906. | 3.1 | 14 |
| 13 | Three-Component Spin Echoes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8229-8238. | 2.6 | 12 |
| 14 | Extracting Residual NMR Coupling Constants From Electrically Aligned Liquids. <i>Journal of Physical Chemistry A</i> , 2000, 104, 3326-3331. | 2.5 | 12 |
| 15 | Aqueous geochemistry at gigapascal pressures: NMR spectroscopy of fluoroborate solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 173-181. | 3.9 | 11 |
| 16 | Data processing in NMR relaxometry using the matrix pencil. <i>Journal of Magnetic Resonance</i> , 2020, 313, 106704. | 2.1 | 10 |
| 17 | Steps to achieving high-resolution NMR spectroscopy on solutions at GPa pressure. <i>Numerische Mathematik</i> , 2017, 317, 846-860. | 1.4 | 8 |
| 18 | Application of a nuclear magnetic resonance signal area theorem to multiple pulse sequences. <i>Molecular Physics</i> , 1998, 95, 737-746. | 1.7 | 6 |

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|----|--|-----|-----------|
| 19 | NMR spectroscopy of some electrolyte solutions to 1.9 GPa. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 193, 66-74. | 3.9 | 6 |
| 20 | An Optimized 2ÂMHz Unilateral Magnet with a Large Homogeneous Sensitive Spot. <i>Applied Magnetic Resonance</i> , 2022, 53, 401-415. | 1.2 | 6 |
| 21 | 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. | 3.0 | 5 |
| 22 | Using Sodium Cation Organization To Study the Phase Behavior of Bicelle Solutions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10956-10961. | 2.6 | 5 |
| 23 | A low cost, portable NMR probe for high pressure, MR relaxometry. <i>Journal of Magnetic Resonance</i> , 2019, 304, 35-41. | 2.1 | 5 |
| 24 | Nondestructive determination of the astringency of pollination-variant persimmons (<i>Diospyros kaki</i>) using near-infrared (NIR) spectroscopy and nuclear magnetic resonance (NMR) relaxometry. <i>Postharvest Biology and Technology</i> , 2019, 149, 50-57. | 6.0 | 5 |
| 25 | Measurement of the Raman polarizability anisotropy for the $\nu_2 = 1$ pure rotational Raman transition in H_2 by rotational Raman spectroscopy. <i>Molecular Physics</i> , 2000, 98, 349-353. | 1.7 | 4 |
| 26 | High-voltage pulse switching hardware for electro-optic studies of conducting aqueous solutions. <i>Review of Scientific Instruments</i> , 2002, 73, 3080-3084. | 1.3 | 4 |
| 27 | ^2H and ^{139}La NMR Spectroscopy in Aqueous Solutions at Geochemical Pressures. <i>Angewandte Chemie</i> , 2015, 127, 15664-15667. | 2.0 | 4 |
| 28 | Using NMR Relaxometry to Probe Yb^{3+} - Er^{3+} Interactions in Highly Doped Nanocrystalline NaYF_4 Nanostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10-16. | 3.1 | 4 |
| 29 | Estimates of blood plasma water content using portable NMR relaxometry. <i>Measurement Science and Technology</i> , 2020, 31, 035701. | 2.6 | 4 |
| 30 | Experimental estimates of compression heating and decompression cooling in ethylene glycol. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 163-169. | 1.9 | 2 |
| 31 | Radiation damping with inhomogeneous broadening: Limitations of the single Bloch vector model. , 2001, 13, 1. | | 2 |
| 32 | Motional smearing of electrically recovered couplings measured from multipulse transients. <i>Concepts in Magnetic Resonance</i> , 2001, 13, 171-189. | 1.3 | 1 |
| 33 | The time dependent Dirac-Frenkel-McLachlan variation of parameters: An NMR application. <i>Journal of Magnetic Resonance</i> , 2012, 214, 263-272. | 2.1 | 1 |
| 34 | Analytical approximations to inhomogeneously broadened, radiation damped free precession and echo signals. <i>Journal of Magnetic Resonance</i> , 2014, 238, 106-114. | 2.1 | 0 |
| 35 | InnenrÃ¼cktitelbild: ^2H and ^{139}La NMR Spectroscopy in Aqueous Solutions at Geochemical Pressures (<i>Angew. Chem.</i> 51/2015). <i>Angewandte Chemie</i> , 2015, 127, 15805-15805. | 2.0 | 0 |
| 36 | Optical Patterning: Direct Write Optical Patterning of P3HT Films Beyond the Diffraction Limit (Adv.) Tj ETQq0 0 0 rgbT /Overlock 10 T | | 0 |