

Michael C D Tayler

List of Publications by Year in descending order

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24
papers

898
citations

516710

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610901

24
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all docs

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docs citations

24
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	Singlet nuclear magnetic resonance of nearly-equivalent spins. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5556.	2.8	135
2	Direct Enhancement of Nuclear Singlet Order by Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2012, 134, 7668-7671.	13.7	94
3	Recycling and Imaging of Nuclear Singlet Hyperpolarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 5084-5088.	13.7	94
4	Invited Review Article: Instrumentation for nuclear magnetic resonance in zero and ultralow magnetic field. <i>Review of Scientific Instruments</i> , 2017, 88, 091101.	1.3	83
5	Hyperpolarized singlet lifetimes of pyruvate in human blood and in the mouse. <i>NMR in Biomedicine</i> , 2013, 26, 1696-1704.	2.8	54
6	Paramagnetic relaxation of nuclear singlet states. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9128.	2.8	49
7	Unraveling the spectroscopy of coupled intramolecular tunneling modes: A study of double proton transfer in the formic-acetic acid complex. <i>Journal of Chemical Physics</i> , 2011, 134, 054316.	3.0	42
8	Determination of Molecular Torsion Angles Using Nuclear Singlet Relaxation. <i>Journal of the American Chemical Society</i> , 2010, 132, 8225-8227.	13.7	40
9	Accessing Long-Lived Nuclear Spin Order by Isotope-Induced Symmetry Breaking. <i>Journal of the American Chemical Society</i> , 2013, 135, 2120-2123.	13.7	40
10	Hyperpolarized singlet NMR on a small animal imaging system. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1262-1265.	3.0	37
11	Zero-field nuclear magnetic resonance of chemically exchanging systems. <i>Nature Communications</i> , 2019, 10, 3002.	12.8	36
12	Low-cost, pseudo-Halbach dipole magnets for NMR. <i>Journal of Magnetic Resonance</i> , 2017, 277, 143-148.	2.1	29
13	Nuclear magnetic resonance at millitesla fields using a zero-field spectrometer. <i>Journal of Magnetic Resonance</i> , 2016, 270, 35-39.	2.1	23
14	¹³ C-Decoupled <i>J</i> -Coupling Spectroscopy Using Two-Dimensional Nuclear Magnetic Resonance at Zero-Field. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1512-1516.	4.6	20
15	NMR relaxation in porous materials at zero and ultralow magnetic fields. <i>Journal of Magnetic Resonance</i> , 2018, 297, 1-8.	2.1	19
16	Transition-Selective Pulses in Zero-Field Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4343-4348.	2.5	17
17	Ultralow-field nuclear magnetic resonance of liquids confined in ferromagnetic and paramagnetic materials. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	15
18	Scalar relaxation of NMR transitions at ultralow magnetic field. <i>Journal of Magnetic Resonance</i> , 2019, 298, 101-106.	2.1	14

#	ARTICLE	IF	CITATIONS
19	Fast-field-cycling ultralow-field nuclear magnetic relaxation dispersion. Nature Communications, 2021, 12, 4041.	12.8	13
20	Towards Overhauser DNP in supercritical CO ₂ . Journal of Magnetic Resonance, 2016, 267, 30-36.	2.1	11
21	Miniature Biplanar Coils for Alkali-Metal-Vapor Magnetometry. Physical Review Applied, 2022, 18, .	3.8	11
22	Analysis of mass-limited mixtures using supercritical-fluid chromatography and microcoil NMR. Analyst, The, 2015, 140, 6217-6221.	3.5	9
23	Decoupling of Spin Decoherence Paths near Zero Magnetic Field. Journal of Physical Chemistry Letters, 2022, 13, 98-104.	4.6	7
24	Chapter 10. Filters for Long-lived Spin Order. New Developments in NMR, 2020, , 188-208.	0.1	6