

Benno Meier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8262250/publications.pdf>

Version: 2024-02-01

21
papers

761
citations

567281

15
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	The dipolar endofullerene HF@C60. Nature Chemistry, 2016, 8, 953-957.	13.6	167
2	Long-Lived Nuclear Spin States in Methyl Groups and Quantum-Rotor-Induced Polarization. Journal of the American Chemical Society, 2013, 135, 18746-18749.	13.7	93
3	Nuclear spin conversion of water inside fullerene cages detected by low-temperature nuclear magnetic resonance. Journal of Chemical Physics, 2014, 140, 194306.	3.0	58
4	Electrical detection of ortho-para conversion in fullerene-encapsulated water. Nature Communications, 2015, 6, 8112.	12.8	57
5	Theory of long-lived nuclear spin states in methyl groups and quantum-rotor induced polarisation. Journal of Chemical Physics, 2015, 142, 044506.	3.0	51
6	Scalable dissolution-dynamic nuclear polarization with rapid transfer of a polarized solid. Nature Communications, 2019, 10, 1733.	12.8	46
7	Spin-Isomer Conversion of Water at Room Temperature and Quantum-Rotor-Induced Nuclear Polarization in the Water-Endofullerene	7.8	43
8	Implementation of specific-heat and NMR experiments in the 1500 ms long-pulse magnet at the Hochfeld-Magnetlabor Dresden. Measurement Science and Technology, 2012, 23, 105001.	2.6	39
9	Dynamic Nuclear Polarization of Long-Lived Nuclear Spin States in Methyl Groups. Journal of Physical Chemistry Letters, 2017, 8, 3549-3555.	4.6	34
10	NMR signal averaging in 62T pulsed fields. Journal of Magnetic Resonance, 2011, 210, 1-6.	2.1	28
11	Hyperpolarized long-lived nuclear spin states in monodeuterated methyl groups. Physical Chemistry Chemical Physics, 2018, 20, 9755-9759.	2.8	23
12	Eigenmodes in the Long-Time Behavior of a Coupled Spin System Measured with Nuclear Magnetic Resonance. Physical Review Letters, 2012, 108, 177602.	7.8	20
13	NMR Lineshapes and Scalar Relaxation of the Water-Endofullerene H ₂ O@C ₆₀ . ChemPhysChem, 2018, 19, 251-255.	2.1	19
14	Enhancement of quantum rotor NMR signals by frequency-selective pulses. Journal of Magnetic Resonance, 2015, 250, 25-28.	2.1	18
15	Quantum-rotor-induced polarization. Magnetic Resonance in Chemistry, 2018, 56, 610-618.	1.9	16
16	Nuclear magnetic resonance apparatus for pulsed high magnetic fields. Review of Scientific Instruments, 2012, 83, 083113.	1.3	15
17	New Approach to High-Pressure Nuclear Magnetic Resonance with Anvil Cells. Journal of Low Temperature Physics, 2010, 159, 284-287.	1.4	11
18	A cryogen-free, semi-automated apparatus for bullet-dynamic nuclear polarization with improved resolution. Magnetic Resonance, 2021, 2, 815-825.	1.9	10

#	ARTICLE	IF	CITATIONS
19	Alignment of ¹⁷ O-enriched water@endofullerene H ₂ O@C ₆₀ in a liquid crystal matrix. Faraday Discussions, 2018, 212, 517-532.	3.2	6
20	Testing signal enhancement mechanisms in the dissolution NMR of acetone. Journal of Magnetic Resonance, 2018, 286, 158-162.	2.1	4
21	NMR of molecular endofullerenes dissolved in a nematic liquid crystal. Physical Chemistry Chemical Physics, 2017, 19, 11793-11801.	2.8	3