

# 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	A cryogen-free, semi-automated apparatus for bullet-dynamic nuclear polarization with improved resolution. <i>Magnetic Resonance</i> , 2021, 2, 815-825.	1.9	10
2	Scalable dissolution-dynamic nuclear polarization with rapid transfer of a polarized solid. <i>Nature Communications</i> , 2019, 10, 1733.	12.8	46
3	Quantum-rotor-induced polarization. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 610-618.	1.9	16
4	NMR Lineshapes and Scalar Relaxation of the Water-Endofullerene $H_{2}O@C_{60}$ . <i>ChemPhysChem</i> , 2018, 19, 251-255.	2.1	19
5	Hyperpolarized long-lived nuclear spin states in monodeuterated methyl groups. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9755-9759.	2.8	23
6	Testing signal enhancement mechanisms in the dissolution NMR of acetone. <i>Journal of Magnetic Resonance</i> , 2018, 286, 158-162.	2.1	4
7	Spin-Isomer Conversion of Water at Room Temperature and Quantum-Rotor-Induced Nuclear Polarization in the Water-Endofullerene $H_{2}O@C_{60}$ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9755-9759.	7.8	43
8	Alignment of $^{17}O$ -enriched water- $H_{2}O@C_{60}$ in a liquid crystal matrix. <i>Faraday Discussions</i> , 2018, 212, 517-532.	3.2	6
9	NMR of molecular endofullerenes dissolved in a nematic liquid crystal. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11793-11801.	2.8	3
10	Dynamic Nuclear Polarization of Long-Lived Nuclear Spin States in Methyl Groups. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3549-3555.	4.6	34
11	The dipolar endofullerene $HF@C_{60}$ . <i>Nature Chemistry</i> , 2016, 8, 953-957.	13.6	167
12	Electrical detection of ortho-para conversion in fullerene-encapsulated water. <i>Nature Communications</i> , 2015, 6, 8112.	12.8	57
13	Theory of long-lived nuclear spin states in methyl groups and quantum-rotor induced polarisation. <i>Journal of Chemical Physics</i> , 2015, 142, 044506.	3.0	51
14	Enhancement of quantum rotor NMR signals by frequency-selective pulses. <i>Journal of Magnetic Resonance</i> , 2015, 250, 25-28.	2.1	18
15	Nuclear spin conversion of water inside fullerene cages detected by low-temperature nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2014, 140, 194306.	3.0	58
16	Long-Lived Nuclear Spin States in Methyl Groups and Quantum-Rotor-Induced Polarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 18746-18749.	13.7	93
17	Implementation of specific-heat and NMR experiments in the 1500 ms long-pulse magnet at the Hochfeld-Magnetlabor Dresden. <i>Measurement Science and Technology</i> , 2012, 23, 105001.	2.6	39
18	Eigenmodes in the Long-Time Behavior of a Coupled Spin System Measured with Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , 2012, 108, 177602.	7.8	20

#	ARTICLE	IF	CITATIONS
19	Nuclear magnetic resonance apparatus for pulsed high magnetic fields. Review of Scientific Instruments, 2012, 83, 083113.	1.3	15
20	NMR signal averaging in 62T pulsed fields. Journal of Magnetic Resonance, 2011, 210, 1-6.	2.1	28
21	New Approach to High-Pressure Nuclear Magnetic Resonance with Anvil Cells. Journal of Low Temperature Physics, 2010, 159, 284-287.	1.4	11