James Eills

List of Publications by Year
in descending order

21	561	623734 14	752698 20
papers	citations	h-index	g-index

27	27	27	319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rapid hyperpolarization and purification of the metabolite fumarate in aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	54
2	Instrumentation for Hydrogenative Parahydrogen-Based Hyperpolarization Techniques. Analytical Chemistry, 2022, 94, 479-502.	6.5	52
3	Real-Time Nuclear Magnetic Resonance Detection of Fumarase Activity Using Parahydrogen-Hyperpolarized [1-¹³C]Fumarate. Journal of the American Chemical Society, 2019, 141, 20209-20214.	13.7	50
4	Hyperpolarized fumarate via parahydrogen. Chemical Communications, 2018, 54, 12246-12249.	4.1	47
5	Polarization transfer via field sweeping in parahydrogen-enhanced nuclear magnetic resonance. Journal of Chemical Physics, 2019, 150, 174202.	3.0	46
6	Singlet order conversion and parahydrogen-induced hyperpolarization of 13C nuclei in near-equivalent spin systems. Journal of Magnetic Resonance, 2017, 274, 163-172.	2.1	45
7	High-Resolution Nuclear Magnetic Resonance Spectroscopy with Picomole Sensitivity by Hyperpolarization on a Chip. Journal of the American Chemical Society, 2019, 141, 9955-9963.	13.7	39
8	Zero- to ultralow-field nuclear magnetic resonance J-spectroscopy with commercial atomic magnetometers. Journal of Magnetic Resonance, 2020, 314, 106723.	2.1	36
9	Singletâ€Contrast Magnetic Resonance Imaging: Unlocking Hyperpolarization with Metabolism**. Angewandte Chemie - International Edition, 2021, 60, 6791-6798.	13.8	28
10	A pulse sequence for singlet to heteronuclear magnetization transfer: S2hM. Journal of Magnetic Resonance, 2017, 277, 169-178.	2.1	26
11	Chemical Reaction Monitoring using Zeroâ€Field Nuclear Magnetic Resonance Enables Study of Heterogeneous Samples in Metal Containers. Angewandte Chemie - International Edition, 2020, 59, 17026-17032.	13.8	26
12	Synergies between Hyperpolarized NMR and Microfluidics: A Review. Progress in Nuclear Magnetic Resonance Spectroscopy, 2022, 128, 44-69.	7.5	18
13	Constant-adiabaticity ultralow magnetic field manipulations of parahydrogen-induced polarization: application to an AA′X spin system. Physical Chemistry Chemical Physics, 2021, 23, 7125-7134.	2.8	18
14	Measuring molecular parity nonconservation using nuclear-magnetic-resonance spectroscopy. Physical Review A, 2017, 96, .	2.5	16
15	Preservation of Nuclear Spin Order by Precipitation. ChemPhysChem, 2018, 19, 40-44.	2.1	14
16	<i>Geminal</i> parahydrogen-induced polarization: accumulating long-lived singlet order on methylene proton pairs. Magnetic Resonance, 2020, 1, 175-186.	1.9	13
17	Constant-adiabaticity pulse schemes for manipulating singlet order in 3-spin systems with weak magnetic non-equivalence. Journal of Magnetic Resonance, 2021, 327, 106978.	2.1	12
18	Direct Production of a Hyperpolarized Metabolite on a Microfluidic Chip. Analytical Chemistry, 2022, , .	6.5	7

#	Article	IF	Citations
19	Optimizing the Reaction Conditions for the Formation of Fumarate via Trans-Hydrogenation. Applied Magnetic Resonance, 2022, 53, 615-634.	1.2	6
20	Singulettâ€Kontrastâ€Magnetresonanztomographie: Freisetzung der Hyperpolarisation durch den Metabolismus**. Angewandte Chemie, 2021, 133, 6866-6873.	2.0	3
21	Chemical Reaction Monitoring using Zeroâ€Field Nuclear Magnetic Resonance Enables Study of Heterogeneous Samples in Metal Containers. Angewandte Chemie, 2020, 132, 17174-17180.	2.0	0