

Jonathan R Birchall

List of Publications by Year in descending order

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160
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#	ARTICLE	IF	CITATIONS
1	Hyperpolarizing Concentrated Metronidazole ¹⁵ NO ₂ Group over Six Chemical Bonds with More than 15% Polarization and a 20-Second Minute Lifetime. <i>Chemistry - A European Journal</i> , 2019, 3.3 25, 8829-8836.	3.8	48
2	Quantifying the effects of quadrupolar sinks <i>via</i> ¹⁵ N relaxation dynamics in metronidazoles hyperpolarized <i>via</i> SABRE-SHEATH. <i>Chemical Communications</i> , 2020, 56, 9098-9101.	4.1	32
3	Enabling Clinical Technologies for Hyperpolarized ¹²⁹ Xenon Magnetic Resonance Imaging and Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22126-22147.	13.8	26
4	Batch-Mode Clinical-Scale Optical Hyperpolarization of Xenon-129 Using an Aluminum Jacket with Rapid Temperature Ramping. <i>Analytical Chemistry</i> , 2020, 92, 4309-4316.	6.5	19
5	XeUS: A second-generation automated open-source batch-mode clinical-scale hyperpolarizer. <i>Journal of Magnetic Resonance</i> , 2020, 319, 106813.	2.1	16
6	High-Pressure Clinical-Scale 87% Parahydrogen Generator. <i>Analytical Chemistry</i> , 2020, 92, 15280-15284.	6.5	16
7	Pilot multi-site quality assurance study of batch-mode clinical-scale automated xenon-129 hyperpolarizers. <i>Journal of Magnetic Resonance</i> , 2020, 316, 106755.	2.1	9
8	Helium-rich mixtures for improved batch-mode clinical-scale spin-exchange optical pumping of Xenon-129. <i>Journal of Magnetic Resonance</i> , 2020, 315, 106739.	2.1	6
9	Automated Low-Cost In Situ IR and NMR Spectroscopy Characterization of Clinical-Scale ¹²⁹ Xe Spin-Exchange Optical Pumping. <i>Analytical Chemistry</i> , 2021, 93, 3883-3888.	6.5	3
10	Enabling Clinical Technologies for Hyperpolarized ¹²⁹ Xenon Magnetic Resonance Imaging and Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 22298-22319.	2.0	3
11	Pilot Quality-Assurance Study of a Third-Generation Batch-Mode Clinical-Scale Automated Xenon-129 Hyperpolarizer. <i>Molecules</i> , 2022, 27, 1327.	3.8	3