

Andrea Capozzi

List of Publications by Year in descending order

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papers

551
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687363

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23
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#	ARTICLE	IF	CITATIONS
1	How to improve the efficiency of a traditional dissolution dynamic nuclear polarization (dDNP) apparatus: Design and performance of a fluid path compatible dDNP/LOD-ESR probe. <i>Journal of Magnetic Resonance</i> , 2022, 338, 107197.	2.1	5
2	Hyperpolarization via dissolution dynamic nuclear polarization: new technological and methodological advances. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 5-23.	2.0	32
3	Measuring Glycolytic Activity with Hyperpolarized [2H7, U-13C6] D-Glucose in the Naive Mouse Brain under Different Anesthetic Conditions. <i>Metabolites</i> , 2021, 11, 413.	2.9	7
4	Metabolic contrast agents produced from transported solid 13C-glucose hyperpolarized via dynamic nuclear polarization. <i>Communications Chemistry</i> , 2021, 4, .	4.5	17
5	Radical-free hyperpolarized MRI using endogenously occurring pyruvate analogues and UV-induced nonpersistent radicals. <i>NMR in Biomedicine</i> , 2021, 34, e4584.	2.8	2
6	¹³ C Dynamic Nuclear Polarization using SA-BDPA at 6.7 T and 1.1 K: Coexistence of Pure Thermal Mixing and Well-Resolved Solid Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6873-6879.	4.6	7
7	UV-Irradiated 2-Keto-(1- ¹³ C)Isocaproic Acid for High-Performance ¹³ C Hyperpolarized MR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23859-23866.	3.1	4
8	Hyperpolarized water through dissolution dynamic nuclear polarization with UV-generated radicals. <i>Communications Chemistry</i> , 2020, 3, .	4.5	30
9	Gadolinium Effect at High-Magnetic-Field DNP: 70% ¹³ C Polarization of [U- ¹³ C] Glucose Using Trityl. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3420-3425.	4.6	30
10	Optimized microwave delivery in dDNP. <i>Journal of Magnetic Resonance</i> , 2019, 305, 58-65.	2.1	7
11	Efficient Hyperpolarization of U- ¹³ C-Glucose Using Narrow-Line UV-Generated Labile Free Radicals. <i>Angewandte Chemie</i> , 2019, 131, 1348-1353.	2.0	4
12	Efficient Hyperpolarization of U- ¹³ C-Glucose Using Narrow-Line UV-Generated Labile Free Radicals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1334-1339.	13.8	35
13	Probing cardiac metabolism by hyperpolarized ¹³ C MR using an exclusively endogenous substrate mixture and photo-induced nonpersistent radicals. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2451-2459.	3.0	18
14	Liquid-State ¹³ C Polarization of 30% through Photoinduced Nonpersistent Radicals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7432-7443.	3.1	34
15	Photogenerated Radical in Phenylglyoxylic Acid for in Vivo Hyperpolarized ¹³ C MR with Photosensitive Metabolic Substrates. <i>Journal of the American Chemical Society</i> , 2018, 140, 14455-14463.	13.7	21
16	Thermal annihilation of photo-induced radicals following dynamic nuclear polarization to produce transportable frozen hyperpolarized ¹³ C-substrates. <i>Nature Communications</i> , 2017, 8, 15757.	12.8	78
17	Photoinduced Nonpersistent Radicals as Polarizing Agents for X-Nuclei Dissolution Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22632-22639.	3.1	35
18	Direct dynamic measurement of intracellular and extracellular lactate in small-volume cell suspensions with ¹³ C hyperpolarised NMR. <i>NMR in Biomedicine</i> , 2015, 28, 1040-1048.	2.8	14

#	ARTICLE	IF	CITATIONS
19	Spin Dynamics in Hybrid Iron Oxide-Gold Nanostructures. Journal of Physical Chemistry C, 2015, 119, 1224-1233.	3.1	9
20	Optimal Glass-Forming Solvent Brings Sublimation Dynamic Nuclear Polarization to ¹²⁹ Xe Hyperpolarization Biomedical Imaging Standards. Journal of Physical Chemistry C, 2015, 119, 5020-5025.	3.1	19
21	Over 35% liquid-state ¹³ C polarization obtained via dissolution dynamic nuclear polarization at 7 T and 1 K using ubiquitous nitroxyl radicals. Physical Chemistry Chemical Physics, 2013, 15, 20819.	2.8	53
22	Hyperpolarization without persistent radicals for in vivo real-time metabolic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18064-18069.	7.1	90