

# Andrea Capozzi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3499925/publications.pdf>

Version: 2024-02-01

22  
papers

551  
citations

687363

13  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

490  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Thermal annihilation of photo-induced radicals following dynamic nuclear polarization to produce transportable frozen hyperpolarized <sup>13</sup> C-substrates. Nature Communications, 2017, 8, 15757.	12.8	78
3	Over 35% liquid-state <sup>13</sup> 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
4	Photoinduced Nonpersistent Radicals as Polarizing Agents for X-Nuclei Dissolution Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 2015, 119, 22632-22639.	3.1	35
5	Efficient Hyperpolarization of U- <sup>13</sup> C-Glucose Using Narrow-Line UV-Generated Labile Free Radicals. Angewandte Chemie - International Edition, 2019, 58, 1334-1339.	13.8	35
6	Liquid-State <sup>13</sup> C Polarization of 30% through Photoinduced Nonpersistent Radicals. Journal of Physical Chemistry C, 2018, 122, 7432-7443.	3.1	34
7	Hyperpolarization via dissolution dynamic nuclear polarization: new technological and methodological advances. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 5-23.	2.0	32
8	Gadolinium Effect at High-Magnetic-Field DNP: 70% <sup>13</sup> C Polarization of [U- <sup>13</sup> C] Glucose Using Trityl. Journal of Physical Chemistry Letters, 2019, 10, 3420-3425.	4.6	30
9	Hyperpolarized water through dissolution dynamic nuclear polarization with UV-generated radicals. Communications Chemistry, 2020, 3, .	4.5	30
10	Photogenerated Radical in Phenylglyoxylic Acid for in Vivo Hyperpolarized <sup>13</sup> C MR with Photosensitive Metabolic Substrates. Journal of the American Chemical Society, 2018, 140, 14455-14463.	13.7	21
11	Optimal Glass-Forming Solvent Brings Sublimation Dynamic Nuclear Polarization to <sup>129</sup> Xe Hyperpolarization Biomedical Imaging Standards. Journal of Physical Chemistry C, 2015, 119, 5020-5025.	3.1	19
12	Probing cardiac metabolism by hyperpolarized <sup>13</sup> C MR using an exclusively endogenous substrate mixture and photo-induced nonpersistent radicals. Magnetic Resonance in Medicine, 2018, 79, 2451-2459.	3.0	18
13	Metabolic contrast agents produced from transported solid <sup>13</sup> C-glucose hyperpolarized via dynamic nuclear polarization. Communications Chemistry, 2021, 4, .	4.5	17
14	Direct dynamic measurement of intracellular and extracellular lactate in small-volume cell suspensions with <sup>13</sup> C hyperpolarised NMR. NMR in Biomedicine, 2015, 28, 1040-1048.	2.8	14
15	Spin Dynamics in Hybrid Iron Oxide-Gold Nanostructures. Journal of Physical Chemistry C, 2015, 119, 1224-1233.	3.1	9
16	Optimized microwave delivery in dDNP. Journal of Magnetic Resonance, 2019, 305, 58-65.	2.1	7
17	<sup>13</sup> 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. Journal of Physical Chemistry Letters, 2020, 11, 6873-6879.	4.6	7
18	Measuring Glycolytic Activity with Hyperpolarized [2H7, U- <sup>13</sup> C6] D-Glucose in the Naive Mouse Brain under Different Anesthetic Conditions. Metabolites, 2021, 11, 413.	2.9	7

#	ARTICLE	IF	CITATIONS
19	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
20	Efficient Hyperpolarization of U- <sup>13</sup> C-Glucose Using Narrow-Line UV-Generated Labile Free Radicals. <i>Angewandte Chemie</i> , 2019, 131, 1348-1353.	2.0	4
21	UV-Irradiated 2-Keto-(1- <sup>13</sup> C)Isocaproic Acid for High-Performance <sup>13</sup> C Hyperpolarized MR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23859-23866.	3.1	4
22	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