

Daphna Shimon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4768430/publications.pdf>

Version: 2024-02-01

18
papers

656
citations

623734

14
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic nuclear polarization in the solid state: a transition between the cross effect and the solid effect. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5729.	2.8	103
2	Effect of Humidity on the CO ₂ Adsorption of Tertiary Amine Grafted SBA-15. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23480-23487.	3.1	74
3	The α -Bicarbonate in CO ₂ Chemisorption Reactions on Solid Amine Sorbents. <i>Journal of the American Chemical Society</i> , 2018, 140, 8648-8651.	13.7	64
4	The interplay between the solid effect and the cross effect mechanisms in solid state ¹³ C DNP at 95 GHz using trityl radicals. <i>Journal of Magnetic Resonance</i> , 2013, 230, 212-219.	2.1	50
5	Effects of the electron polarization on dynamic nuclear polarization in solids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6053-6065.	2.8	46
6	The electron depolarization during dynamic nuclear polarization: measurements and simulations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 226-244.	2.8	46
7	A Dynamic Nuclear Polarization spectrometer at 95GHz/144MHz with EPR and NMR excitation and detection capabilities. <i>Journal of Magnetic Resonance</i> , 2011, 209, 136-141.	2.1	43
8	Spectroscopic Characterization of Adsorbed ¹³ CO ₂ on 3-Aminopropylsilyl-Modified SBA15 Mesoporous Silica. <i>Environmental Science & Technology</i> , 2017, 51, 6553-6559.	10.0	39
9	Effect of electron spectral diffusion on static dynamic nuclear polarization at 7 Tesla. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3596-3605.	2.8	35
10	Static ¹ H dynamic nuclear polarization with the biradical TOTAPOL: a transition between the solid effect and the cross effect. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6687-6699.	2.8	32
11	The effect of Gd on trityl-based dynamic nuclear polarisation in solids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26969-26978.	2.8	28
12	¹⁵ N Solid State NMR Spectroscopic Study of Surface Amine Groups for Carbon Capture: 3-Aminopropylsilyl Grafted to SBA-15 Mesoporous Silica. <i>Environmental Science & Technology</i> , 2018, 52, 1488-1495.	10.0	27
13	Simultaneous DNP enhancements of ¹ H and ¹³ C nuclei: theory and experiments. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11868-11883.	2.8	23
14	Heteronuclear DNP of protons and deuterons with TEMPOL. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11017-11041.	2.8	15
15	Chemoselective Copper-Mediated Modification of Selenocysteines in Peptides and Proteins. <i>Journal of the American Chemical Society</i> , 2021, 143, 12817-12824.	13.7	15
16	The ¹³ C solid DNP mechanisms with perchlorotriphenylmethyl radicals – the role of ^{35,37} Cl. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19218-19228.	2.8	9
17	DNP-NMR of surface hydrogen on silicon microparticles. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 68-75.	2.3	5
18	A transition from solid effect to indirect cross effect with broadband microwave irradiation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7311-7322.	2.8	2