

Igor Tkach

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4989552/publications.pdf>

Version: 2024-02-01

25
papers

837
citations

567281

15
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of a Singlet Silylene to a stable Biradical. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1801-1805.	13.8	167
2	Optimization of dynamic nuclear polarization experiments in aqueous solution at 15 MHz/9.7 GHz: a comparative study with DNP at 140 MHz/94 GHz. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5893.	2.8	63
3	CO ₂ -Catalyzed Efficient Dehydrogenation of Amines with Detailed Mechanistic and Kinetic Studies. <i>ACS Catalysis</i> , 2018, 8, 11679-11687.	11.2	60
4	Orientation selection in distance measurements between nitroxide spin labels at 94 GHz EPR with variable dual frequency irradiation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3433.	2.8	58
5	W-band orientation selective DEER measurements on a Gd ³⁺ /nitroxide mixed-labeled protein dimer with a dual mode cavity. <i>Journal of Magnetic Resonance</i> , 2013, 227, 66-71.	2.1	52
6	High-resolution measurement of long-range distances in RNA: pulse EPR spectroscopy with TEMPO-labeled nucleotides. <i>Chemical Science</i> , 2016, 7, 3172-3180.	7.4	49
7	A dual-mode microwave resonator for double electron-electron spin resonance spectroscopy at W-band microwave frequencies. <i>Journal of Magnetic Resonance</i> , 2011, 209, 341-346.	2.1	32
8	Dynamic Nuclear Polarization of ¹³ C Nuclei in the Liquid State over a 10 Tesla Field Range. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1402-1406.	13.8	30
9	Photo-induced radical polarization and liquid-state dynamic nuclear polarization using fullerene nitroxide derivatives. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31823-31829.	2.8	27
10	Vanadium poisoning of FCC catalysts: A quantitative analysis of impregnated and real equilibrium catalysts. <i>Applied Catalysis A: General</i> , 2018, 560, 206-214.	4.3	27
11	A high saturation factor in Overhauser DNP with nitroxide derivatives: the role of ¹⁴ N nuclear spin relaxation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11144-11149.	2.8	26
12	Nitroxide Derivatives for Dynamic Nuclear Polarization in Liquids: The Role of Rotational Diffusion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1629-1635.	4.6	25
13	¹ H high field electron-nuclear double resonance spectroscopy at 263 GHz/9.4 T. <i>Journal of Magnetic Resonance</i> , 2019, 303, 17-27.	2.1	19
14	High DNP efficiency of TEMPONE radicals in liquid toluene at low concentrations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8795-8800.	2.8	17
15	Effects in 94 GHz Orientation-Selected PELDOR on a Rigid Pair of Radicals with Non-Collinear Axes. <i>Applied Magnetic Resonance</i> , 2010, 37, 539-548.	1.2	15
16	High-frequency 263 GHz PELDOR. <i>Applied Magnetic Resonance</i> , 2014, 45, 969-979.	1.2	14
17	Resolution of chemical shift anisotropy in ¹⁹ F ENDOR spectroscopy at 263 GHz/9.4 T. <i>Journal of Magnetic Resonance</i> , 2021, 333, 107091.	2.1	14
18	Spin density localization and accessibility of organic radicals affect liquid-state DNP efficiency. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4480-4485.	2.8	12

#	ARTICLE	IF	CITATIONS
19	Dynamic nuclear polarization in liquids. Electron Paramagnetic Resonance, 0, , 155-182.	0.2	10
20	Statistical analysis of ENDOR spectra. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
21	High-field optically detected EPR and ENDOR of semiconductor defects using W-band microwave Fabry-Pérot resonators. Magnetic Resonance in Chemistry, 2005, 43, S153-S165.	1.9	6
22	Studies of transmembrane peptides by pulse dipolar spectroscopy with semi-rigid TOPP spin labels. European Biophysics Journal, 2021, 50, 143-157.	2.2	6
23	Übersicht: Umwandlung eines Singulett-Silylens in ein stabiles Biradikal (Angew. Chem. 6/2013). Angewandte Chemie, 2013, 125, 1890-1890.	2.0	3
24	Dynamic Nuclear Polarization of ¹³ C Nuclei in the Liquid State over a 10-Tesla Field Range. Angewandte Chemie, 2019, 131, 1416-1420.	2.0	3
25	Distribution of H ^β Hyperfine Couplings in a Tyrosyl Radical Revealed by 263 GHz ENDOR Spectroscopy. Applied Magnetic Resonance, 2022, 53, 1015-1030.	1.2	3