

Igor Tkach

List of Publications by Year in descending order

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papers

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567281

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27
docs citations

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798
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Spin density localization and accessibility of organic radicals affect liquid-state DNP efficiency. Physical Chemistry Chemical Physics, 2021, 23, 4480-4485.	2.8	12
3	Studies of transmembrane peptides by pulse dipolar spectroscopy with semi-rigid TOPP spin labels. European Biophysics Journal, 2021, 50, 143-157.	2.2	6
4	Statistical analysis of ENDOR spectra. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
5	Resolution of chemical shift anisotropy in ¹⁹ F ENDOR spectroscopy at 263 GHz/9.4 T. Journal of Magnetic Resonance, 2021, 333, 107091.	2.1	14
6	Nitroxide Derivatives for Dynamic Nuclear Polarization in Liquids: The Role of Rotational Diffusion. Journal of Physical Chemistry Letters, 2020, 11, 1629-1635.	4.6	25
7	¹ H high field electron-nuclear double resonance spectroscopy at 263 GHz/9.4 T. Journal of Magnetic Resonance, 2019, 303, 17-27.	2.1	19
8	Dynamic Nuclear Polarization of ¹³ C Nuclei in the Liquid State over a 10 Tesla Field Range. Angewandte Chemie - International Edition, 2019, 58, 1402-1406.	13.8	30
9	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
10	Vanadium poisoning of FCC catalysts: A quantitative analysis of impregnated and real equilibrium catalysts. Applied Catalysis A: General, 2018, 560, 206-214.	4.3	27
11	CO ₂ -Catalyzed Efficient Dehydrogenation of Amines with Detailed Mechanistic and Kinetic Studies. ACS Catalysis, 2018, 8, 11679-11687.	11.2	60
12	Photo-induced radical polarization and liquid-state dynamic nuclear polarization using fullerene nitroxide derivatives. Physical Chemistry Chemical Physics, 2017, 19, 31823-31829.	2.8	27
13	High-resolution measurement of long-range distances in RNA: pulse EPR spectroscopy with TEMPO-labeled nucleotides. Chemical Science, 2016, 7, 3172-3180.	7.4	49
14	A high saturation factor in Overhauser DNP with nitroxide derivatives: the role of ¹⁴ N nuclear spin relaxation. Physical Chemistry Chemical Physics, 2015, 17, 11144-11149.	2.8	26
15	High-frequency 263 GHz PELDOR. Applied Magnetic Resonance, 2014, 45, 969-979.	1.2	14
16	High DNP efficiency of TEMPONE radicals in liquid toluene at low concentrations. Physical Chemistry Chemical Physics, 2014, 16, 8795-8800.	2.8	17
17	Conversion of a Singlet Silylene to a stable Biradical. Angewandte Chemie - International Edition, 2013, 52, 1801-1805.	13.8	167
18	W-band orientation selective DEER measurements on a Gd ³⁺ /nitroxide mixed-labeled protein dimer with a dual mode cavity. Journal of Magnetic Resonance, 2013, 227, 66-71.	2.1	52

#	ARTICLE	IF	CITATIONS
19	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
20	Rücktitelbild: Umwandlung eines Singulett-Silylens in ein stabiles Biradikal (<i>Angew. Chem.</i> 6/2013). <i>Angewandte Chemie</i> , 2013, 125, 1890-1890.	2.0	3
21	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
22	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
23	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
24	High-field optically detected EPR and ENDOR of semiconductor defects using W-band microwave Fabry-Pérot resonators. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, S153-S165.	1.9	6
25	Dynamic nuclear polarization in liquids. <i>Electron Paramagnetic Resonance</i> , 0, , 155-182.	0.2	10