

# Paul Tordo

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4774403/paul-tordo-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53  
papers

3,558  
citations

31  
h-index

54  
g-index

54  
ext. papers

3,824  
ext. citations

7.4  
avg, IF

4.58  
L-index

#	Paper	IF	Citations
53	5-(Diethoxyphosphoryl)-5-methyl-1-pyrroline N-oxide: a new efficient phosphorylated nitron for the in vitro and in vivo spin trapping of oxygen-centered radicals. <i>Journal of Medicinal Chemistry</i> , <b>1995</b> , 38, 258-65	8.3	427
52	Highly efficient, water-soluble polarizing agents for dynamic nuclear polarization at high frequency. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 10858-61	16.4	328
51	Large molecular weight nitroxide biradicals providing efficient dynamic nuclear polarization at temperatures up to 200 K. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12790-7	16.4	284
50	Dynamic nuclear polarization with a rigid biradical. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4996-5000	16.4	230
49	A slowly relaxing rigid biradical for efficient dynamic nuclear polarization surface-enhanced NMR spectroscopy: expeditious characterization of functional group manipulation in hybrid materials. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2284-91	16.4	169
48	Dynamic nuclear polarization enhanced solid-state NMR spectroscopy of functionalized metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 123-7	16.4	145
47	2-ethoxycarbonyl-2-methyl-3,4-dihydro-2H-pyrrole-1-oxide: evaluation of the spin trapping properties. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 28, 403-8	7.8	132
46	Non-aqueous solvents for DNP surface enhanced NMR spectroscopy. <i>Chemical Communications</i> , <b>2012</b> , 48, 654-6	5.8	129
45	Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. <i>Chemical Science</i> , <b>2016</b> , 7, 550-558	9.4	117
44	5-Diethoxyphosphoryl-5-methyl-1-pyrroline N-oxide (DEPMPO): a new phosphorylated nitron for the efficient In Vitro and In Vivo spin trapping of oxygen-centred radicals. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 1793		86
43	Amplifying dynamic nuclear polarization of frozen solutions by incorporating dielectric particles. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 15711-8	16.4	85
42	NMR-based structural biology enhanced by dynamic nuclear polarization at high magnetic field. <i>Journal of Biomolecular NMR</i> , <b>2014</b> , 60, 157-68	3	82
41	Solid-state NMR spectroscopy of oriented membrane polypeptides at 100 K with signal enhancement by dynamic nuclear polarization. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5940-1	16.4	72
40	Solid-State Dynamic Nuclear Polarization at 9.4 and 18.8 T from 100 K to Room Temperature. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14558-61	16.4	70
39	Rigid orthogonal bis-TEMPO biradicals with improved solubility for dynamic nuclear polarization. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 1789-97	4.2	66
38	Highly Efficient, Water-Soluble Polarizing Agents for Dynamic Nuclear Polarization at High Frequency. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11058-11061	3.6	63
37	Design and use of phosphorus nitroxides and alkoxyamines in controlled/living/free radical polymerizations. <i>Macromolecular Symposia</i> , <b>2002</b> , 182, 225-247	0.8	61

36	Visualizing Specific Cross-Protomer Interactions in the Homo-Oligomeric Membrane Protein Proteorhodopsin by Dynamic-Nuclear-Polarization-Enhanced Solid-State NMR. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9032-43	16.4	60
35	Biomolecular DNP-Supported NMR Spectroscopy using Site-Directed Spin Labeling. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 12971-7	4.8	59
34	Decay of the hydroperoxyl spin adduct of 5-diethoxyphosphoryl-5-methyl-1-pyrroline N-oxide: an EPR kinetic study. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1995</b> , 295-298		58
33	Tailoring of Polarizing Agents in the bTurea Series for Cross-Effect Dynamic Nuclear Polarization in Aqueous Media. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 5598-606	4.8	58
32	Properties of dinitroxides for use in dynamic nuclear polarization (DNP). <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5841-5	3.6	55
31	Dynamic Nuclear Polarization with a Rigid Biradical. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 5096-5100	3.6	46
30	Mito-DEPMPO synthesized from a novel NH <sub>2</sub> -reactive DEPMPO spin trap: a new and improved trap for the detection of superoxide. <i>Chemical Communications</i> , <b>2007</b> , 1083-5	5.8	45
29	Synthesis of a New Spin Trap: 2-(Diethoxyphosphoryl)-2-phenyl-3,4-dihydro-2H-pyrrole 1-Oxide. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 1471-1477	4.2	41
28	Optimizing Sample Preparation Methods for Dynamic Nuclear Polarization Solid-state NMR of Synthetic Polymers. <i>Macromolecules</i> , <b>2014</b> , 47, 3909-3916	5.5	38
27	Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy of Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 127-131	3.6	37
26	Dynamic Nuclear Polarization Efficiency Increased by Very Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10609-10612	16.4	37
25	Improving the trapping of superoxide radical with a beta-cyclodextrin-5-diethoxyphosphoryl-5-methyl-1-pyrroline-N-oxide (DEPMPO) conjugate. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 11114-8	4.8	35
24	Host-guest complexes as water-soluble high-performance DNP polarizing agents. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 19275-81	16.4	34
23	Dinitroxides for Solid State Dynamic Nuclear Polarization. <i>Applied Magnetic Resonance</i> , <b>2012</b> , 43, 251-261.8		34
22	Membrane topologies of the PGLa antimicrobial peptide and a transmembrane anchor sequence by Dynamic Nuclear Polarization/solid-state NMR spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 20895	4.9	31
21	EPR Characterization of a Rigid Bis-TEMPO-Bis-Ketal for Dynamic Nuclear Polarization. <i>Applied Magnetic Resonance</i> , <b>2010</b> , 37, 505-514	0.8	29
20	Dendritic polarizing agents for DNP SENS. <i>Chemical Science</i> , <b>2017</b> , 8, 416-422	9.4	27
19	Spin exchange monitoring of the strong positive homotropic allosteric binding of a tetradical by a synthetic receptor in water. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17570-7	16.4	25

18	Synthesis and spin-trapping behavior of 5-ChEPMPO, a cholesteryl ester analogue of the spin trap DEPMPO. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 10426-33	4.2	25
17	Synthesis and structure of 5,5-diethoxycarbonyl-1-pyrroline N-oxide (DECPO). Application to superoxide radical trapping. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 149-152	2	24
16	Dynamic Nuclear Polarization/Solid-State NMR Spectroscopy of Membrane Polypeptides: Free-Radical Optimization for Matrix-Free Lipid Bilayer Samples. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2103-2113	3.2	22
15	Hydrophobic radicals embedded in neutral surfactants for dynamic nuclear polarization of aqueous environments at 9.4 Tesla. <i>Chemical Communications</i> , <b>2014</b> , 50, 10198-201	5.8	22
14	The ABC exporter MsbA probed by solid state NMR – challenges and opportunities. <i>Biological Chemistry</i> , <b>2015</b> , 396, 1135-49	4.5	21
13	Solid-State NMR/Dynamic Nuclear Polarization of Polypeptides in Planar Supported Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 14574-83	3.4	20
12	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8726-8730	16.4	18
11	Structure and spectromagnetic properties of the superoxide radical adduct of DMPO in water: elucidation by theoretical investigations. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 11793-803	3.4	17
10	Design of new derivatives of nitron DEPMPO functionalized at C-4 for further specific applications in superoxide radical detection. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 7886-92	4.2	17
9	Up to 100% Improvement in Dynamic Nuclear Polarization Solid-State NMR Sensitivity Enhancement of Polymers by Removing Oxygen. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 1416-21	4.8	16
8	Synthesis of the cis diastereoisomer of 5-diethoxyphosphoryl-5-methyl-3-phenyl-1-pyrroline N-oxide (DEPMPOc) and ESR study of its superoxide spin adduct. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 6385-6389	3.8	16
7	Triangular Regulation of Cucurbit[8]uril 1:1 Complexes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5897-5907	16.4	16
6	Synthesis and spin-trapping properties of a trifluoromethyl analogue of DMPO: 5-methyl-5-trifluoromethyl-1-pyrroline N-oxide (5-TFDMPO). <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 4064-71	4.8	11
5	EPR Studies of the Binding Properties, Guest Dynamics, and Inner-Space Dimensions of a Water-Soluble Resorcinarene Capsule. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 16404-10	4.8	11
4	Dynamic Nuclear Polarization / solid-state NMR of membranes. Thermal effects and sample geometry. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2019</b> , 100, 70-76	3.1	6
3	Rücktitelbild: Highly Efficient, Water-Soluble Polarizing Agents for Dynamic Nuclear Polarization at High Frequency (Angew. Chem. 41/2013). <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11112-11112	3.6	1
2	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8852-8856	3.5	0
1	Alkylperoxyl spin adducts of pyrroline-N-oxide spin traps: Experimental and theoretical CASSCF study of the unimolecular decomposition in organic solvent, potential applications in water. <i>Journal of Physical Organic Chemistry</i> , <b>2017</b> , 30, e3677	2.1	

