Olivier Ouari

List of Publications by Year
in descending order

118	7,544	53939 47	64407 83
papers	citations	h-index	g-index

128	128	128	8209
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	¹ H detection and dynamic nuclear polarizationâ€“enhanced NMR of Aî² ₁₋₄₂ fibrils. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	24
2	Trehalose matrices for high temperature dynamic nuclear polarization enhanced solid state NMR. Physical Chemistry Chemical Physics, 2022, 24, 12167-12175.	1.3	6
3	Guest Exchange by a Partial Energy Ratchet in Water. Angewandte Chemie - International Edition, 2021, 60, 6617-6623.	7.2	21
4	1.2.Nitroxides in Organic Synthesis. , 2021, , .		0
5	Guest Exchange by a Partial Energy Ratchet in Water. Angewandte Chemie, 2021, 133, 6691-6697.	1.6	6
6	Triple Stack of a Viologen Derivative in a CB[10] Pair. Organic Letters, 2021, 23, 5283-5287.	2.4	15
7	Structural Analysis of an Antigen Chemically Coupled on Virusâ€Like Particles in Vaccine Formulation. Angewandte Chemie - International Edition, 2021, 60, 12847-12851.	7.2	11
8	Struktur eines an virusÃhnliche Partikel gekoppelten Antigens: Analyse einer Impfstoffâ€Formulierung. Angewandte Chemie, 2021, 133, 12957-12961.	1.6	0
9	Metabolic contrast agents produced from transported solid 13C-glucose hyperpolarized via dynamic nuclear polarization. Communications Chemistry, 2021, 4, .	2.0	17
10	Efficient Dynamic Nuclear Polarization up to 230 K with Hybrid BDPA-Nitroxide Radicals at a High Magnetic Field. Journal of Physical Chemistry B, 2021, 125, 13329-13338.	1.2	9
11	Dynamic Nuclear Polarization Enhancement of 200 at 21.15 T Enabled by 65 kHz Magic Angle Spinning. Journal of Physical Chemistry Letters, 2020, 11, 8386-8391.	2.1	66
12	Open and Closed Radicals: Local Geometry around Unpaired Electrons Governs Magic-Angle Spinning Dynamic Nuclear Polarization Performance. Journal of the American Chemical Society, 2020, 142, 16587-16599.	6.6	42
13	Oxidation of ethidium-based probes by biological radicals: mechanism, kinetics and implications for the detection of superoxide. Scientific Reports, 2020, 10, 18626.	1.6	14
14	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentaceneâ€“Trityl Radical. Journal of Physical Chemistry A, 2020, 124, 6068-6075.	1.1	19
15	EPR Spectroscopy: A Powerful Tool to Analyze Supramolecular Hostâ€¢Guest Complexes of Stable Radicals with Cucurbiturils. Molecules, 2020, 25, 776.	1.7	8
16	TinyPols: a family of water-soluble binitroxides tailored for dynamic nuclear polarization enhanced NMR spectroscopy at 18.8 and 21.1 T. Chemical Science, 2020, 11, 2810-2818.	3.7	72
17	A Cucurbit[8]uril 2:2 Complex with a Negative pK_a Shift. Chemistry - A European Journal, 2019, 25, 12552-12559.	1.7	22
18	19 F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. Angewandte Chemie, 2019, 131, 7327-7331.	1.6	2

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19	Embedding cyclic nitrone in mesoporous silica particles for EPR spin trapping of superoxide and other radicals. Analyst, The, 2019, 144, 4194-4203.	1.7	16
20	Targeting lonidamine to mitochondria mitigates lung tumorigenesis and brain metastasis. Nature Communications, 2019, 10, 2205.	5.8	146
21	Dynamic Nuclear Polarization / solid-state NMR of membranes. Thermal effects and sample geometry. Solid State Nuclear Magnetic Resonance, 2019, 100, 70-76.	1.5	7
22	¹⁹F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 7249-7253.	7.2	18
23	Triangular Regulation of Cucurbit[8]uril 1:1 Complexes. Journal of the American Chemical Society, 2019, 141, 5897-5907.	6.6	23
24	Efficient Hyperpolarization of Uâ€¹³Câ€Glucose Using Narrowâ€Line UVâ€Generated Labile Free Radicals. Angewandte Chemie, 2019, 131, 1348-1353.	1.6	4
25	Efficient Hyperpolarization of Uâ€¹³Câ€Glucose Using Narrowâ€Line UVâ€Generated Labile Free Radicals. Angewandte Chemie - International Edition, 2019, 58, 1334-1339.	7.2	35
26	A single-crystal-to-single-crystal transformation affording photochromic 3D MORF crystals. Chemical Communications, 2019, 55, 13824-13827.	2.2	23
27	Synergistic inhibition of tumor cell proliferation by metformin and mito-metformin in the presence of iron chelators. Oncotarget, 2019, 10, 3518-3532.	0.8	14
28	Dynamic Nuclear Polarizationâ€Enhanced Biomolecular NMR Spectroscopy at High Magnetic Field with Fast Magicâ€Angle Spinning. Angewandte Chemie, 2018, 130, 7580-7584.	1.6	8
29	Dynamic Nuclear Polarizationâ€Enhanced Biomolecular NMR Spectroscopy at High Magnetic Field with Fast Magicâ€Angle Spinning. Angewandte Chemie - International Edition, 2018, 57, 7458-7462.	7.2	56
30	Teaching the basics of reactive oxygen species and their relevance to cancer biology: Mitochondrial reactive oxygen species detection, redox signaling, and targeted therapies. Redox Biology, 2018, 15, 347-362.	3.9	155
31	Nitroxide Radicals with Cucurbit[n]urils and Other Cavitands. Israel Journal of Chemistry, 2018, 58, 343-356.	1.0	18
32	Effects of cucurbit[n]uril (n = 7, 8, 10) hosts on the formation and stabilization of a naphthalenediimide (NDI) radical anion. Organic and Biomolecular Chemistry, 2018, 16, 3809-3815.	1.5	25
33	Detection and Characterization of Reactive Oxygen and Nitrogen Species in Biological Systems by Monitoring Species-Specific Products. Antioxidants and Redox Signaling, 2018, 28, 1416-1432.	2.5	70
34	A review of the basics of mitochondrial bioenergetics, metabolism, and related signaling pathways in cancer cells: Therapeutic targeting of tumor mitochondria with lipophilic cationic compounds. Redox Biology, 2018, 14, 316-327.	3.9	166
35	A pH-driven ring translocation switch against cancer cells. Chemical Communications, 2018, 54, 13825-13828.	2.2	21
36	BDPA-Nitroxide Biradicals Tailored for Efficient Dynamic Nuclear Polarization Enhanced Solid-State NMR at Magnetic Fields up to 21.1 T. Journal of the American Chemical Society, 2018, 140, 13340-13349.	6.6	99

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37	Photogenerated Radical in Phenylglyoxylic Acid for in Vivo Hyperpolarized ¹³C MR with Photosensitive Metabolic Substrates. Journal of the American Chemical Society, 2018, 140, 14455-14463.	6.6	21
38	Detection of mitochondria-generated reactive oxygen species in cells using multiple probes and methods: Potentials, pitfalls, and the future. Journal of Biological Chemistry, 2018, 293, 10363-10380.	1.6	80
39	Metal Actuated Ring Translocation Switches in Water. Organic Letters, 2018, 20, 3187-3191.	2.4	31
40	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. Journal of Physical Organic Chemistry, 2017, 30, e3677.	0.9	0
41	Mitochondria-targeted metformins: anti-tumour and redox signalling mechanisms. Interface Focus, 2017, 7, 20160109.	1.5	26
42	Modified Metformin as a More Potent Anticancer Drug: Mitochondrial Inhibition, Redox Signaling, Antiproliferative Effects and Future EPR Studies. Cell Biochemistry and Biophysics, 2017, 75, 311-317.	0.9	18
43	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. Angewandte Chemie - International Edition, 2017, 56, 8726-8730.	7.2	26
44	Dynamic Nuclear Polarization/Solidâ€State NMR Spectroscopy of Membrane Polypeptides: Freeâ€Radical Optimization for Matrixâ€Free Lipid Bilayer Samples. ChemPhysChem, 2017, 18, 2103-2113.	1.0	25
45	Chameleonic Dye Adapts to Various Environments Shining on Macrocycles or Peptide and Polysaccharide Aggregates. ACS Applied Materials & Interfaces, 2017, 9, 33220-33228.	4.0	15
46	Synthesis and properties of a series of Î²-cyclodextrin/nitrone spin traps for improved superoxide detection. Organic and Biomolecular Chemistry, 2017, 15, 6358-6366.	1.5	8
47	Frozen Acrylamide Gels as Dynamic Nuclear Polarization Matrices. Angewandte Chemie, 2017, 129, 8852-8856.	1.6	2
48	Dynamic Nuclear Polarization Efficiency Increased by Very Fast Magic Angle Spinning. Journal of the American Chemical Society, 2017, 139, 10609-10612.	6.6	52
49	Mitochondria-Targeted Triphenylphosphonium-Based Compounds: Syntheses, Mechanisms of Action, and Therapeutic and Diagnostic Applications. Chemical Reviews, 2017, 117, 10043-10120.	23.0	1,051
50	Recent Developments in the Probes and Assays for Measurement of the Activity of NADPH Oxidases. Cell Biochemistry and Biophysics, 2017, 75, 335-349.	0.9	24
51	Dendritic polarizing agents for DNP SENS. Chemical Science, 2017, 8, 416-422.	3.7	35
52	Tailoring of Polarizing Agents in the bTurea Series for Crossâ€Effect Dynamic Nuclear Polarization in Aqueous Media. Chemistry - A European Journal, 2016, 22, 5598-5606.	1.7	69
53	Mitigation of NADPH Oxidase 2 Activity as a Strategy to Inhibit Peroxynitrite Formation. Journal of Biological Chemistry, 2016, 291, 7029-7044.	1.6	58
54	Mitochondria-Targeted Analogues of Metformin Exhibit Enhanced Antiproliferative and Radiosensitizing Effects in Pancreatic Cancer Cells. Cancer Research, 2016, 76, 3904-3915.	0.4	159

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55	The Antioxidant Additive Approach for Alzheimerâ€™s Disease Therapy: New Ferulic (Lipoic) Acid Plus Melatonin Modified Tacrines as Cholinesterases Inhibitors, Direct Antioxidants, and Nuclear Factor (Erythroid-Derived 2)-Like 2 Activators. Journal of Medicinal Chemistry, 2016, 59, 9967-9973.	2.9	83
56	Membrane topologies of the PGLa antimicrobial peptide and a transmembrane anchor sequence by Dynamic Nuclear Polarization/solid-state NMR spectroscopy. Scientific Reports, 2016, 6, 20895.	1.6	36
57	Rational design of dinitroxide biradicals for efficient cross-effect dynamic nuclear polarization. Chemical Science, 2016, 7, 550-558.	3.7	141
58	EPR Studies of the Binding Properties, Guest Dynamics, and Innerâ€Space Dimensions of a Waterâ€Soluble Resorcinarene Capsule. Chemistry - A European Journal, 2015, 21, 16404-16410.	1.7	13
59	Biomolecular DNPâ€Supported NMR Spectroscopy using Siteâ€Directed Spin Labeling. Chemistry - A European Journal, 2015, 21, 12971-12977.	1.7	62
60	Up to 100% Improvement in Dynamic Nuclear Polarization Solidâ€State NMR Sensitivity Enhancement of Polymers by Removing Oxygen. Macromolecular Rapid Communications, 2015, 36, 1416-1421.	2.0	19
61	Antiproliferative effects of mitochondria-targeted cationic antioxidants and analogs: Role of mitochondrial bioenergetics and energy-sensing mechanism. Cancer Letters, 2015, 365, 96-106.	3.2	64
62	Solid-State Dynamic Nuclear Polarization at 9.4 and 18.8 T from 100 K to Room Temperature. Journal of the American Chemical Society, 2015, 137, 14558-14561.	6.6	87
63	Comprehensive Synthesis of Monohydroxyâ€“Cucurbit[n]urils (n = 5, 6, 7, 8): High Purity and High Conversions. Journal of the American Chemical Society, 2015, 137, 10238-10245.	6.6	95
64	Visualizing Specific Cross-Protomer Interactions in the Homo-Oligomeric Membrane Protein Proteorhodopsin by Dynamic-Nuclear-Polarization-Enhanced Solid-State NMR. Journal of the American Chemical Society, 2015, 137, 9032-9043.	6.6	67
65	The ABC exporter MsbA probed by solid state NMR â€“ challenges and opportunities. Biological Chemistry, 2015, 396, 1135-1149.	1.2	26
66	Toward selective detection of reactive oxygen and nitrogen species with the use of fluorogenic probes â€“ Limitations, progress, and perspectives. Pharmacological Reports, 2015, 67, 756-764.	1.5	54
67	Solid-State NMR/Dynamic Nuclear Polarization of Polypeptides in Planar Supported Lipid Bilayers. Journal of Physical Chemistry B, 2015, 119, 14574-14583.	1.2	22
68	Dinitroxide biradical crystals with polar order. Canadian Journal of Chemistry, 2015, 93, 920-924.	0.6	1
69	Silica-surface reorganization during organotin grafting evidenced by 119Sn DNP SENS: a tandem reaction of gem-silanols and strained siloxane bridges. Physical Chemistry Chemical Physics, 2014, 16, 17822-17827.	1.3	40
70	Spin Exchange Monitoring of the Strong Positive Homotropic Allosteric Binding of a Tetraradical by a Synthetic Receptor in Water. Journal of the American Chemical Society, 2014, 136, 17570-17577.	6.6	26
71	NMR-based structural biology enhanced by dynamic nuclear polarization at high magnetic field. Journal of Biomolecular NMR, 2014, 60, 157-168.	1.6	90
72	Amplifying Dynamic Nuclear Polarization of Frozen Solutions by Incorporating Dielectric Particles. Journal of the American Chemical Society, 2014, 136, 15711-15718.	6.6	103

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73	Synthesis and Spinâ€Trapping Properties of a Trifluoromethyl Analogue of DMPO: 5â€Methylâ€5â€trifluoromethylâ€1â€pyrroline Nâ€Oxide (5â€TFDMPO). Chemistry - A European Journal, 2014, 20, 4064-4071.	5.7	12
74	Hydrophobic radicals embedded in neutral surfactants for dynamic nuclear polarization of aqueous environments at 9.4 Tesla. Chemical Communications, 2014, 50, 10198-10201.	2.2	23
75	Hosting Various Guests Including Fullerenes and Free Radicals in Versatile Organic Paramagnetic bTbk Open Frameworks. Crystal Growth and Design, 2014, 14, 467-476.	1.4	12
76	Mitochondria-Targeted Spin Traps: Synthesis, Superoxide Spin Trapping, and Mitochondrial Uptake. Chemical Research in Toxicology, 2014, 27, 1155-1165.	1.7	30
77	Observing Apparent Nonuniform Sensitivity Enhancements in Dynamic Nuclear Polarization Solid-State NMR Spectra of Polymers. ACS Macro Letters, 2014, 3, 922-925.	2.3	23
78	Metabolic stability of superoxide adducts derived from newly developed cyclic nitrone spin traps. Free Radical Biology and Medicine, 2014, 67, 150-158.	1.3	30
79	Detection of superoxide production in stimulated and unstimulated living cells using new cyclic nitrone spin traps. Free Radical Biology and Medicine, 2014, 71, 281-290.	1.3	75
80	Optimizing Sample Preparation Methods for Dynamic Nuclear Polarization Solid-state NMR of Synthetic Polymers. Macromolecules, 2014, 47, 3909-3916.	2.2	46
81	A Wellâ€Defined Pd Hybrid Material for the Zâ€Selective Semihydrogenation of Alkynes Characterized at the Molecular Level by DNP SENS. Chemistry - A European Journal, 2013, 19, 12234-12238.	1.7	61
82	Automated transfer and injection of hyperpolarized molecules with polarization measurement prior to in vivo NMR. NMR in Biomedicine, 2013, 26, 1582-1588.	1.6	62
83	Hostâ€“Guest Complexes as Water-Soluble High-Performance DNP Polarizing Agents. Journal of the American Chemical Society, 2013, 135, 19275-19281.	6.6	35
84	Solid-Phase Polarization Matrixes for Dynamic Nuclear Polarization from Homogeneously Distributed Radicals in Mesostructured Hybrid Silica Materials. Journal of the American Chemical Society, 2013, 135, 15459-15466.	6.6	56
85	Organic multishell isostructural hostâ€“guest crystals: fullerenes C60 inside a nitroxide open framework. Chemical Communications, 2013, 49, 3519.	2.2	10
86	Large Molecular Weight Nitroxide Biradicals Providing Efficient Dynamic Nuclear Polarization at Temperatures up to 200 K. Journal of the American Chemical Society, 2013, 135, 12790-12797.	6.6	355
87	Improved Structural Elucidation of Synthetic Polymers by Dynamic Nuclear Polarization Solid-State NMR Spectroscopy. ACS Macro Letters, 2013, 2, 715-719.	2.3	53
88	Highly Efficient, Waterâ€Soluble Polarizing Agents for Dynamic Nuclear Polarization at High Frequency. Angewandte Chemie - International Edition, 2013, 52, 10858-10861.	7.2	401
89	Global Profiling of Reactive Oxygen and Nitrogen Species in Biological Systems. Journal of Biological Chemistry, 2012, 287, 2984-2995.	1.6	153
90	A Slowly Relaxing Rigid Biradical for Efficient Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy: Expeditious Characterization of Functional Group Manipulation in Hybrid Materials. Journal of the American Chemical Society, 2012, 134, 2284-2291.	6.6	182

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91	Non-aqueous solvents for DNP surface enhanced NMR spectroscopy. Chemical Communications, 2012, 48, 654-656.	2.2	155
92	Perturbation induced formation of a 3D-network of microcrystals producing soft materials. RSC Advances, 2012, 2, 5605.	1.7	10
93	Developing DNP/Solid-State NMR Spectroscopy of Oriented Membranes. Applied Magnetic Resonance, 2012, 43, 91-106.	0.6	19
94	Rigid Orthogonal Bis-TEMPO Biradicals with Improved Solubility for Dynamic Nuclear Polarization. Journal of Organic Chemistry, 2012, 77, 1789-1797.	1.7	75
95	Dinitroxides for Solid State Dynamic Nuclear Polarization. Applied Magnetic Resonance, 2012, 43, 251-261.	0.6	36
96	Dynamic Nuclear Polarization Enhanced Solidâ€State NMR Spectroscopy of Functionalized Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2012, 51, 123-127.	7.2	161
97	EPR Characterization of a Rigid Bis-TEMPOâ€“Bis-Ketal for Dynamic Nuclear Polarization. Applied Magnetic Resonance, 2010, 37, 505-514.	0.6	30
98	Scavenging Free Radicals To Preserve Enhancement and Extend Relaxation Times in NMR using Dynamic Nuclear Polarization. Angewandte Chemie - International Edition, 2010, 49, 6182-6185.	7.2	89
99	Properties of dinitroxides for use in dynamic nuclear polarization (DNP). Physical Chemistry Chemical Physics, 2010, 12, 5841.	1.3	62
100	Solid-State NMR Spectroscopy of Oriented Membrane Polypeptides at 100 K with Signal Enhancement by Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2010, 132, 5940-5941.	6.6	84
101	Improving the Trapping of Superoxide Radical with a Î²â€Cyclodextrinâ€“5â€Diethoxyphosphorylâ€5â€methylâ€1â€pyrrolineâ€Nâ€oxide (DEPMPO) Conjugate. Chemistry - A European Journal, 2009, 15, 11114-11118.	5.7	37
102	Dynamic Nuclear Polarization with a Rigid Biradical. Angewandte Chemie - International Edition, 2009, 48, 4996-5000.	7.2	248
103	Probing Cucurbituril Assemblies in Water with TEMPO-like Nitroxides: A Trinitroxide Supraradical with Spinâ^'Spin Interactions. Journal of the American Chemical Society, 2009, 131, 5402-5404.	6.6	66
104	Cytochrome c-mediated oxidation of hydroethidine and mito-hydroethidine in mitochondria: Identification of homo- and heterodimers. Free Radical Biology and Medicine, 2008, 44, 835-846.	1.3	98
105	Polymeric PARACEST Agents for Enhancing MRI Contrast Sensitivity. Journal of the American Chemical Society, 2008, 130, 13854-13855.	6.6	69
106	Mito-DEPMPO synthesized from a novel NH2-reactive DEPMPO spin trap: a new and improved trap for the detection of superoxide. Chemical Communications, 2007, , 1083.	2.2	47
107	Design of New Derivatives of Nitrone DEPMPO Functionalized at C-4 for Further Specific Applications in Superoxide Radical Detection. Journal of Organic Chemistry, 2007, 72, 7886-7892.	1.7	19
108	A Convenient and Efficient Synthesis of the First (Nitroimidazolyl)succinic Esters and their Diacids. Synthesis, 2006, 2006, 3859-3864.	1.2	1

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109	Synthesis and Spin-Trapping Behavior of 5-ChEPMPO, a Cholesteryl Ester Analogue of the Spin Trap DEPMPO. Journal of Organic Chemistry, 2005, 70, 10426-10433.	1.7	26
110	Synthesis of the cis diastereoisomer of 5-diethoxyphosphoryl-5-methyl-3-phenyl-1-pyrroline N-oxide (DEPMPPOc) and ESR study of its superoxide spin adduct. Tetrahedron Letters, 2004, 45, 6385-6389.	0.7	16
111	ESR study of spin-trapping with two glycosylated analogues of PBN able to target cell membrane lectins. Organic and Biomolecular Chemistry, 2004, 2, 927.	1.5	13
112	Synthesis and Preliminary Biological Evaluations of Ionic and Nonionic Amphiphilic Î±-Phenyl-N-tert-butylnitrone Derivatives. Journal of Medicinal Chemistry, 2003, 46, 5230-5237.	2.9	34
113	Synthesis and Properties of Water-Soluble Gold Colloids Covalently Derivatized with Neutral Polymer Monolayers. Journal of the American Chemical Society, 2002, 124, 5811-5821.	6.6	132
114	Synthesis of a Hemicyanine Dye Bearing Two Carboxylic Groups and Its Use as a Photosensitizer in Dye-Sensitized Photoelectrochemical Cells. Chemistry of Materials, 2001, 13, 3888-3892.	3.2	65
115	Reactive hydrogels grafted on gold surfaces. Macromolecular Symposia, 2001, 164, 323-340.	0.4	8
116	Synthesis of a Glycolipidic Amphiphilic Nitrone as a New Spin Trap. Journal of Organic Chemistry, 1999, 64, 3554-3556.	1.7	31
117	Synthesis and spin-trapping behaviour of glycosylated nitrones. Journal of the Chemical Society Perkin Transactions II, 1998, , 2299-2308.	0.9	23
118	Recent developments and applications of the coupled EPR/Spin trapping technique (EPR/ST). Electron Paramagnetic Resonance, 0, , 1-40.	0.2	11