

# Micael Hardy

## List of Publications by Year in descending order

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63  
papers

3,776  
citations

186265

28  
h-index

128289

60  
g-index

76  
all docs

76  
docs citations

76  
times ranked

5315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondria-Targeted Triphenylphosphonium-Based Compounds: Syntheses, Mechanisms of Action, and Therapeutic and Diagnostic Applications. <i>Chemical Reviews</i> , 2017, 117, 10043-10120.	47.7	1,051
2	Boronate Probes as Diagnostic Tools for Real Time Monitoring of Peroxynitrite and Hydroperoxides. <i>Chemical Research in Toxicology</i> , 2012, 25, 1793-1799.	3.3	202
3	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. <i>Redox Biology</i> , 2018, 14, 316-327.	9.0	166
4	Mitochondria-Targeted Analogues of Metformin Exhibit Enhanced Antiproliferative and Radiosensitizing Effects in Pancreatic Cancer Cells. <i>Cancer Research</i> , 2016, 76, 3904-3915.	0.9	159
5	Teaching the basics of reactive oxygen species and their relevance to cancer biology: Mitochondrial reactive oxygen species detection, redox signaling, and targeted therapies. <i>Redox Biology</i> , 2018, 15, 347-362.	9.0	155
6	Global Profiling of Reactive Oxygen and Nitrogen Species in Biological Systems. <i>Journal of Biological Chemistry</i> , 2012, 287, 2984-2995.	3.4	153
7	Targeting lonidamine to mitochondria mitigates lung tumorigenesis and brain metastasis. <i>Nature Communications</i> , 2019, 10, 2205.	12.8	146
8	HPLC study of oxidation products of hydroethidine in chemical and biological systems: ramifications in superoxide measurements. <i>Free Radical Biology and Medicine</i> , 2009, 46, 329-338.	2.9	136
9	Recent developments in detection of superoxide radical anion and hydrogen peroxide: Opportunities, challenges, and implications in redox signaling. <i>Archives of Biochemistry and Biophysics</i> , 2017, 617, 38-47.	3.0	105
10	Cytochrome c-mediated oxidation of hydroethidine and mito-hydroethidine in mitochondria: Identification of homo- and heterodimers. <i>Free Radical Biology and Medicine</i> , 2008, 44, 835-846.	2.9	98
11	HPLC-based monitoring of products formed from hydroethidine-based fluorogenic probes – The ultimate approach for intra- and extracellular superoxide detection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 739-744.	2.4	96
12	Comprehensive Synthesis of Monohydroxy- $\alpha$ -Cucurbit[ <i>n</i> ]urils ( <i>n</i> = 5, 6, 7, 8): High Purity and High Conversions. <i>Journal of the American Chemical Society</i> , 2015, 137, 10238-10245.	13.7	95
13	Detection of mitochondria-generated reactive oxygen species in cells using multiple probes and methods: Potentials, pitfalls, and the future. <i>Journal of Biological Chemistry</i> , 2018, 293, 10363-10380.	3.4	80
14	Detection of superoxide production in stimulated and unstimulated living cells using new cyclic nitron spin traps. <i>Free Radical Biology and Medicine</i> , 2014, 71, 281-290.	2.9	75
15	Detection and Characterization of Reactive Oxygen and Nitrogen Species in Biological Systems by Monitoring Species-Specific Products. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1416-1432.	5.4	70
16	Antiproliferative effects of mitochondria-targeted cationic antioxidants and analogs: Role of mitochondrial bioenergetics and energy-sensing mechanism. <i>Cancer Letters</i> , 2015, 365, 96-106.	7.2	64
17	Detection, Characterization, and Decay Kinetics of ROS and Thiyl Adducts of Mito-DEPMPO Spin Trap. <i>Chemical Research in Toxicology</i> , 2007, 20, 1053-1060.	3.3	62
18	Mitigation of NADPH Oxidase 2 Activity as a Strategy to Inhibit Peroxynitrite Formation. <i>Journal of Biological Chemistry</i> , 2016, 291, 7029-7044.	3.4	58

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19	Toward selective detection of reactive oxygen and nitrogen species with the use of fluorogenic probes – Limitations, progress, and perspectives. <i>Pharmacological Reports</i> , 2015, 67, 756-764.	3.3	54
20	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> , 2007, , 1083.	4.1	47
21	On the use of peroxy-caged luciferin (PCL-1) probe for bioluminescent detection of inflammatory oxidants in vitro and in vivo – Identification of reaction intermediates and oxidant-specific minor products. <i>Free Radical Biology and Medicine</i> , 2016, 99, 32-42.	2.9	44
22	Hydropropidine: A novel, cell-impermeant fluorogenic probe for detecting extracellular superoxide. <i>Free Radical Biology and Medicine</i> , 2013, 54, 135-147.	2.9	42
23	Mitochondria-Targeted Honokiol Confers a Striking Inhibitory Effect on Lung Cancer via Inhibiting Complex I Activity. <i>IScience</i> , 2018, 3, 192-207.	4.1	40
24	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> , 2009, 15, 11114-11118.	3.3	37
25	A Critical Review of Methodologies to Detect Reactive Oxygen and Nitrogen Species Stimulated by NADPH Oxidase Enzymes: Implications in Pesticide Toxicity. <i>Current Pharmacology Reports</i> , 2016, 2, 193-201.	3.0	33
26	Mitochondria-Targeted Spin Traps: Synthesis, Superoxide Spin Trapping, and Mitochondrial Uptake. <i>Chemical Research in Toxicology</i> , 2014, 27, 1155-1165.	3.3	30
27	Metabolic stability of superoxide adducts derived from newly developed cyclic nitron spin traps. <i>Free Radical Biology and Medicine</i> , 2014, 67, 150-158.	2.9	30
28	Potent inhibition of tumour cell proliferation and immunoregulatory function by mitochondria-targeted atovaquone. <i>Scientific Reports</i> , 2020, 10, 17872.	3.3	30
29	Synthesis and Spin-Trapping Behavior of 5-ChEPMPPO, a Cholesteryl Ester Analogue of the Spin Trap DEPMPO. <i>Journal of Organic Chemistry</i> , 2005, 70, 10426-10433.	3.2	26
30	Mitochondria-targeted metformins: anti-tumour and redox signalling mechanisms. <i>Interface Focus</i> , 2017, 7, 20160109.	3.0	26
31	Recent Developments in the Probes and Assays for Measurement of the Activity of NADPH Oxidases. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 335-349.	1.8	24
32	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> , 2007, 72, 7886-7892.	3.2	19
33	A <sup>99m</sup> Tc-Labeled Triphenylphosphonium Derivative for the Early Detection of Breast Tumors. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2009, 24, 579-587.	1.0	19
34	Modified Metformin as a More Potent Anticancer Drug: Mitochondrial Inhibition, Redox Signaling, Antiproliferative Effects and Future EPR Studies. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 311-317.	1.8	18
35	Synchronous effects of targeted mitochondrial complex I inhibitors on tumor and immune cells abrogate melanoma progression. <i>IScience</i> , 2021, 24, 102653.	4.1	18
36	Prevention of Tumor Growth and Dissemination by In Situ Vaccination with Mitochondria-Targeted Atovaquone. <i>Advanced Science</i> , 2022, 9, e2101267.	11.2	17

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37	Embedding cyclic nitron in mesoporous silica particles for EPR spin trapping of superoxide and other radicals. <i>Analyst</i> , The, 2019, 144, 4194-4203.	3.5	16
38	Mitochondria-targeted magnolol inhibits OXPHOS, proliferation, and tumor growth via modulation of energetics and autophagy in melanoma cells. <i>Cancer Treatment and Research Communications</i> , 2020, 25, 100210.	1.7	16
39	Medium-throughput ESR detection of superoxide production in undetached adherent cells using cyclic nitron spin traps. <i>Free Radical Research</i> , 2015, 49, 1122-1128.	3.3	15
40	Diastereoselective Synthesis and ESR Study of 4-PhenylDEPMPO Spin Traps. <i>Journal of Organic Chemistry</i> , 2005, 70, 2135-2142.	3.2	14
41	Oxidation of ethidium-based probes by biological radicals: mechanism, kinetics and implications for the detection of superoxide. <i>Scientific Reports</i> , 2020, 10, 18626.	3.3	14
42	Mitochondria-targeted hydroxyurea inhibits OXPHOS and induces antiproliferative and immunomodulatory effects. <i>IScience</i> , 2021, 24, 102673.	4.1	14
43	Synergistic inhibition of tumor cell proliferation by metformin and mito-metformin in the presence of iron chelators. <i>Oncotarget</i> , 2019, 10, 3518-3532.	1.8	14
44	EPR Studies of the Binding Properties, Guest Dynamics, and Inner-Space Dimensions of a Water-Soluble Resorcinarene Capsule. <i>Chemistry - A European Journal</i> , 2015, 21, 16404-16410.	3.3	13
45	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> , 2014, 20, 4064-4071.	3.1	12
46	Hosting Various Guests Including Fullerenes and Free Radicals in Versatile Organic Paramagnetic Open Frameworks. <i>Crystal Growth and Design</i> , 2014, 14, 467-476.	3.0	12
47	Recent developments and applications of the coupled EPR/Spin trapping technique (EPR/ST). <i>Electron Paramagnetic Resonance</i> , 0, , 1-40.	0.2	11
48	High-Throughput Screening of NOX Inhibitors. <i>Methods in Molecular Biology</i> , 2019, 1982, 429-446.	0.9	10
49	Therapeutic Targeting of Tumor Cells and Tumor Immune Microenvironment Vulnerabilities. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	9
50	Synthesis and properties of a series of $\beta$ -cyclodextrin/nitron spin traps for improved superoxide detection. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6358-6366.	2.8	8
51	Identification of Peroxynitrite by Profiling Oxidation and Nitration Products from Mitochondria-Targeted Arylboronic Acid. <i>Methods in Molecular Biology</i> , 2021, 2275, 315-327.	0.9	8
52	Combining PEGylated mito-atovaquone with MCT and Krebs cycle redox inhibitors as a potential strategy to abrogate tumor cell proliferation. <i>Scientific Reports</i> , 2022, 12, 5143.	3.3	8
53	Homolysis/mesolysis of alkoxyamines activated by chemical oxidation and photochemical-triggered radical reactions at room temperature. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6561-6576.	4.5	6
54	Chemoprevention of Lung Cancer with a Combination of Mitochondria-Targeted Compounds. <i>Cancers</i> , 2022, 14, 2538.	3.7	6

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55	N,N-Diethyl-2,2-tetramethylhydroethidine (TMHE) - in search for better probes for the detection of superoxide radical anion. <i>Free Radical Biology and Medicine</i> , 2017, 108, S38.	2.9	2
56	ESR study of the spin adducts of three analogues of DEPMPO substituted at C4 or C3. <i>RSC Advances</i> , 2014, 4, 11610-11623.	3.6	1
57	Reduction of Mitochondrial Reserve Capacity in Endothelial Cells by Nitric Oxide and Superoxide - Detection and Quantitation of Peroxynitrite Formed from Cogenerated Nitric Oxide and Superoxide. <i>Free Radical Biology and Medicine</i> , 2010, 49, S123-S124.	2.9	0
58	Frontispiece: EPR Studies of the Binding Properties, Guest Dynamics, and Inner-Space Dimensions of a Water-Soluble Resorcinarene Capsule. <i>Chemistry - A European Journal</i> , 2015, 21, .	3.3	0
59	Alkylperoxyl spin adducts of pyrroline-N-oxide spin traps: Experimental and theoretical CASSECF study of the unimolecular decomposition in organic solvent, potential applications in water. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3677.	1.9	0
60	Effects Beyond Mitochondria in Triple Negative Breast Cancer of Mitochondria-targeted SG1 Nitroxide. <i>Free Radical Biology and Medicine</i> , 2017, 112, 95-96.	2.9	0
61	Mitochondrial Fuel Metabolic Differences in Triple Negative Breast Cancer. <i>Free Radical Biology and Medicine</i> , 2017, 112, 171.	2.9	0
62	Abstract 3589: Targeting metabolic reprogramming and OXPHOS as a viable anti-melanoma strategy. , 2019, , .		0
63	Abstract LBA050: Bioenergetic evaluation of Mito-compound Mito-Met as potent cytotoxic agents in gastric cancer. , 2021, , .		0