

# Robert F Anderson

## List of Publications by Year in descending order

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49  
papers

1,737  
citations

201674

27  
h-index

276875

41  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2017  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular and Cellular Pharmacology of the Hypoxia-Activated Prodrug TH-302. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 740-751.	4.1	166
2	Activation of 3-Amino-1,2,4-benzotriazine 1,4-Dioxide Antitumor Agents to Oxidizing Species Following Their One-Electron Reduction. <i>Journal of the American Chemical Society</i> , 2003, 125, 748-756.	13.7	114
3	Structure-Activity Relationships of 1,2,4-Benzotriazine 1,4-Dioxides as Hypoxia-Selective Analogues of Tirapazamine. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 169-182.	6.4	112
4	Synthesis, Reduction Potentials, and Antitubercular Activity of Ring A/B Analogues of the Bioreductive Drug (6 <i>S</i> )-2-Nitro-6-[[4-(trifluoromethoxy)benzyl]oxy]-6,7-dihydro-5 <i>H</i> -imidazo[2,1- <i>b</i> ][1,3]oxazine (PA-824). <i>Journal of Medicinal Chemistry</i> , 2009, 52, 637-645.	6.4	88
5	Protonation Studies of Reduced Ruthenium(II) Complexes with Polypyridyl Ligands. <i>Inorganic Chemistry</i> , 2000, 39, 2721-2728.	4.0	67
6	Tricyclic [1,2,4]Triazine 1,4-Dioxides As Hypoxia Selective Cytotoxins. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 6853-6865.	6.4	66
7	Pulse Radiolysis Studies on the Fragmentation of Arylmethyl Quaternary Nitrogen Mustards by One-Electron Reduction in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9704-9709.	2.5	55
8	Spin Trapping of Radicals Other Than the $\dot{\text{C}}\text{OH}$ Radical upon Reduction of the Anticancer Agent Tirapazamine by Cytochrome P <sub>450</sub> Reductase. <i>Journal of the American Chemical Society</i> , 2009, 131, 14220-14221.	13.7	55
9	Reduction in free-radical-induced DNA strand breaks and base damage through fast chemical repair by flavonoids. <i>Free Radical Research</i> , 2000, 33, 91-103.	3.3	54
10	Next-Generation Hypoxic Cell Radiosensitizers: Nitroimidazole Alkylsulfonamides. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1241-1254.	6.4	52
11	A Mitochondria-Targeted Macrocyclic Mn(II) Superoxide Dismutase Mimetic. <i>Chemistry and Biology</i> , 2012, 19, 1237-1246.	6.0	50
12	Towards targeting anticancer drugs: ruthenium( $\pi$ -arene complexes with biologically active naphthoquinone-derived ligand systems. <i>Dalton Transactions</i> , 2016, 45, 13091-13103.	3.3	45
13	Pulse Radiolysis Investigation on the Mechanism of the Catalytic Action of Mn(II)-Pentaazamacrocyclic Compounds as Superoxide Dismutase Mimetics. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4929-4935.	2.5	44
14	Radical cations of some low-potential viologen compounds. Reduction potentials and electron-transfer reactions. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1984, 80, 2693.	1.0	43
15	Hypoxia-Selective 3-Alkyl 1,2,4-Benzotriazine 1,4-Dioxides: The Influence of Hydrogen Bond Donors on Extravascular Transport and Antitumor Activity. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 6654-6664.	6.4	43
16	Hypoxia-Selective Antitumor Agents. 12. Nitrobenzyl Quaternary Salts as Bioreductive Prodrugs of the Alkylating Agent Mechlorethamine. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 1084-1094.	6.4	41
17	Characterization of Radicals Formed Following Enzymatic Reduction of 3-Substituted Analogues of the Hypoxia-Selective Cytotoxin 3-Amino-1,2,4-Benzotriazine 1,4-Dioxide (Tirapazamine). <i>Journal of the American Chemical Society</i> , 2010, 132, 2591-2599.	13.7	40
18	Electron Transfer and Equilibria between Pyridinyl Radicals and FAD. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1976, 80, 969-972.	0.9	39

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19	Dopamine and Uric Acid Act as Antioxidants in the Repair of DNA Radicals: Implications in Parkinson's Disease. <i>Free Radical Research</i> , 2003, 37, 1131-1136.	3.3	37
20	Oxidation of 2-Deoxyribose by Benzotriazinyl Radicals of Antitumor 3-Amino-1,2,4-benzotriazine 1,4-Dioxides. <i>Journal of the American Chemical Society</i> , 2004, 126, 7865-7874.	13.7	37
21	Pulse radiolysis studies indicate that electron transfer is involved in radioprotection by hoehchst 33342 and methylproamine. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 42, 827-831.	0.8	36
22	Cytosine-Gated Hole Creation and Transfer in DNA in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2006, 128, 15966-15967.	13.7	35
23	Potential of the Cytotoxicity of the Anticancer Agent Tirapazamine by BenzotriazineN-oxides: The Role of Redox Equilibria. <i>Journal of the American Chemical Society</i> , 2006, 128, 245-249.	13.7	34
24	One-Electron Reduction Potential of the Neutral Guanyl Radical in the GC Base Pair of Duplex DNA. <i>Journal of the American Chemical Society</i> , 2009, 131, 5203-5207.	13.7	34
25	Radical properties governing the hypoxia-selective cytotoxicity of antitumor 3-amino-1,2,4-benzotriazine 1,4-dioxides. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2167.	2.8	31
26	Intermediates in the reduction of the antituberculosis drug PA-824, (6S)-2-nitro-6-{[4-(trifluoromethoxy)benzyl]oxy}-6,7-dihydro-5H-imidazo[2,1-b][1,3]oxazine, in aqueous solution. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1973.	2.8	31
27	Hypoxia-selective Radiosensitization of Mammalian Cells by Nitracrine, an Electron-affinic DNA Intercalator. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1987, 51, 641-654.	1.0	29
28	Electron Transfer within Complex II. <i>Journal of Biological Chemistry</i> , 2005, 280, 33331-33337.	3.4	28
29	6-Nitro-2,3-dihydroimidazo[2,1-b][1,3]thiazoles: Facile synthesis and comparative appraisal against tuberculosis and neglected tropical diseases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2583-2589.	2.2	26
30	Enhanced Conversion of DNA Radical Damage to Double Strand Breaks by 1,2,4-Benzotriazine 1,4-Dioxides Linked to a DNA Binder Compared to Tirapazamine. <i>Chemical Research in Toxicology</i> , 2003, 16, 1477-1483.	3.3	23
31	Characterisation of radicals formed by the triazine 1,4-dioxide hypoxia-activated prodrug, SN30000. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3386-3392.	2.8	22
32	Radical Chemistry and Cytotoxicity of Bioreductive 3-Substituted Quinoxaline Di-N-Oxides. <i>Chemical Research in Toxicology</i> , 2016, 29, 1310-1324.	3.3	19
33	THE EFFECT OF 1,4-DIAZABICYCLO[2.2.2]OCTANE ON THE RADIOSENSITIVITY OF BACTERIA. <i>Photochemistry and Photobiology</i> , 1978, 28, 881-885.	2.5	17
34	Selectively Targeting Tumor Hypoxia With the Hypoxia-Activated Prodrug CP-506. <i>Molecular Cancer Therapeutics</i> , 2021, 20, 2372-2383.	4.1	17
35	Electron-Transfer Pathways in the Heme and Quinone-Binding Domain of Complex II (Succinate) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	16
36	Rational design of an AKR1C3-resistant analog of PR-104 for enzyme-prodrug therapy. <i>Biochemical Pharmacology</i> , 2016, 116, 176-187.	4.4	16

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37	Release of nitrite from the antitubercular nitroimidazole drug PA-824 and analogues upon one-electron reduction in protic, non-aqueous solvent. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 413-418.	2.8	12
38	Engineering <i>Escherichia coli</i> NfsB To Activate a Hypoxia-Resistant Analogue of the PET Probe EF5 To Enable Non-Invasive Imaging during Enzyme Prodrug Therapy. <i>Biochemistry</i> , 2019, 58, 3700-3710.	2.5	11
39	Fragmentation of the quinoxaline N-oxide bond to the $\dot{E}^{TM}OH$ radical upon one-electron bioreduction. <i>Chemical Communications</i> , 2014, 50, 13729-13731.	4.1	10
40	Antagonism in effectiveness of evofosfamide and doxorubicin through intermolecular electron transfer. <i>Free Radical Biology and Medicine</i> , 2017, 113, 564-570.	2.9	10
41	Radiolytic Studies of Trimethylamine Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2000, 275, 30781-30786.	3.4	8
42	Prototyping kinase inhibitor-cytotoxin anticancer mutual prodrugs activated by tumour hypoxia: A chemical proof of concept study. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1215-1219.	2.2	6
43	The Influence of Thiols on the Pre-irradiation Incubation Effect of Nitroimidazoles in <i>E. Coli</i> Cells. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1985, 48, 485-494.	1.0	4
44	Subcellular Location of Tirapazamine Reduction Dramatically Affects Aerobic but Not Anoxic Cytotoxicity. <i>Molecules</i> , 2020, 25, 4888.	3.8	4
45	Changes in the Survival Curve Shape of <i>E. Coli</i> Cells Following Irradiation in the Presence of Uncouplers of Oxidative Phosphorylation. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1985, 48, 495-504.	1.0	3
46	Benzotriazine Di-Oxide Prodrugs for Exploiting Hypoxia and Low Extracellular pH in Tumors. <i>Molecules</i> , 2019, 24, 2524.	3.8	3
47	The reduction potential of the slipped GC base pair in one-electron oxidized duplex DNA. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 642-646.	2.8	2
48	Generation of Tris(dialkylamino)cyclopropenyl Radical Dications by Pulse Radiolysis and Redox Potential Determination for the $C_3(NEt_2)_3^{2+}/C_3(NEt_2)_3$ and $C_3(NC_5H_{10})_3^{2+}/C_3(NC_5H_{10})_3$ Couples. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2732-2734.	2.5	1
49	Spin Trapping Hydroxyl and Aryl Radicals of One-Electron Reduced Anticancer Benzotriazine 1,4-Dioxides. <i>Molecules</i> , 2022, 27, 812.	3.8	1