Robert F Anderson

List of Publications by Year
in descending order

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	Spin Trapping Hydroxyl and Aryl Radicals of One-Electron Reduced Anticancer Benzotriazine 1,4-Dioxides. Molecules, 2022, 27, 812.	3.8	1
2	Selectively Targeting Tumor Hypoxia With the Hypoxia-Activated Prodrug CP-506. Molecular Cancer Therapeutics, 2021, 20, 2372-2383.	4.1	17
3	The reduction potential of the slipped GC base pair in one-electron oxidized duplex DNA. Physical Chemistry Chemical Physics, 2020, 22, 642-646.	2.8	2
4	Subcellular Location of Tirapazamine Reduction Dramatically Affects Aerobic but Not Anoxic Cytotoxicity. Molecules, 2020, 25, 4888.	3.8	4
5	Engineering Escherichia coli NfsB To Activate a Hypoxia-Resistant Analogue of the PET Probe EF5 To Enable Non-Invasive Imaging during Enzyme Prodrug Therapy. Biochemistry, 2019, 58, 3700-3710.	2.5	11
6	Benzotriazine Di-Oxide Prodrugs for Exploiting Hypoxia and Low Extracellular pH in Tumors. Molecules, 2019, 24, 2524.	3.8	3
7	Prototyping kinase inhibitor-cytotoxin anticancer mutual prodrugs activated by tumour hypoxia: A chemical proof of concept study. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 1215-1219.	2.2	6
8	Next-Generation Hypoxic Cell Radiosensitizers: Nitroimidazole Alkylsulfonamides. Journal of Medicinal Chemistry, 2018, 61, 1241-1254.	6.4	52
9	6-Nitro-2,3-dihydroimidazo[2,1-b][1,3]thiazoles: Facile synthesis and comparative appraisal against tuberculosis and neglected tropical diseases. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2583-2589.	2.2	26
10	Antagonism in effectiveness of evofosfamide and doxorubicin through intermolecular electron transfer. Free Radical Biology and Medicine, 2017, 113, 564-570.	2.9	10
11	Towards targeting anticancer drugs: ruthenium(<scp>ii</scp>)â€“arene complexes with biologically active naphthoquinone-derived ligand systems. Dalton Transactions, 2016, 45, 13091-13103.	3.3	45
12	Radical Chemistry and Cytotoxicity of Bioreductive 3-Substituted Quinoxaline Di-N-Oxides. Chemical Research in Toxicology, 2016, 29, 1310-1324.	3.3	19
13	Rational design of an AKR1C3-resistant analog of PR-104 for enzyme-prodrug therapy. Biochemical Pharmacology, 2016, 116, 176-187.	4.4	16
14	Electron-Transfer Pathways in the Heme and Quinone-Binding Domain of Complex II (Succinate) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	2.5	16
15	Characterisation of radicals formed by the triazine 1,4-dioxide hypoxia-activated prodrug, SN30000. Organic and Biomolecular Chemistry, 2014, 12, 3386-3392.	2.8	22
16	Fragmentation of the quinoxaline N-oxide bond to the Ë™OH radical upon one-electron bioreduction. Chemical Communications, 2014, 50, 13729-13731.	4.1	10
17	Molecular and Cellular Pharmacology of the Hypoxia-Activated Prodrug TH-302. Molecular Cancer Therapeutics, 2012, 11, 740-751.	4.1	166
18	A Mitochondria-Targeted Macrocyclic Mn(II) Superoxide Dismutase Mimetic. Chemistry and Biology, 2012, 19, 1237-1246.	6.0	50

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19	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). Journal of the American Chemical Society, 2010, 132, 2591-2599.	13.7	40
20	Release of nitrite from the antitubercular nitroimidazoledrug PA-824 and analogues upon one-electron reduction in protic, non-aqueous solvent. Organic and Biomolecular Chemistry, 2010, 8, 413-418.	2.8	12
21	Spin Trapping of Radicals Other Than the ^{â€¢}OH Radical upon Reduction of the Anticancer Agent Tirapazamine by Cytochrome P₄₅₀ Reductase. Journal of the American Chemical Society, 2009, 131, 14220-14221.	13.7	55
22	One-Electron Reduction Potential of the Neutral Guanyl Radical in the GC Base Pair of Duplex DNA. Journal of the American Chemical Society, 2009, 131, 5203-5207.	13.7	34
23	Synthesis, Reduction Potentials, and Antitubercular Activity of Ring A/B Analogues of the Bioreductive Drug (6S)-2-Nitro-6-{[4-(trifluoromethoxy)benzyl]oxy}-6,7-dihydro-5H-imidazo[2,1-b][1,3]oxazine (PA-824). Journal of Medicinal Chemistry, 2009, 52, 637-645.	6.4	88
24	Tricyclic [1,2,4]Triazine 1,4-Dioxides As Hypoxia Selective Cytotoxins. Journal of Medicinal Chemistry, 2008, 51, 6853-6865.	6.4	66
25	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. Organic and Biomolecular Chemistry, 2008, 6, 1973.	2.8	31
26	Pulse Radiolysis Investigation on the Mechanism of the Catalytic Action of Mn(II)â˜Pentaazamacrocycle Compounds as Superoxide Dismutase Mimetics. Journal of Physical Chemistry A, 2008, 112, 4929-4935.	2.5	44
27	Hypoxia-Selective 3-Alkyl 1,2,4-Benzotriazine 1,4-Dioxides: The Influence of Hydrogen Bond Donors on Extravascular Transport and Antitumor Activity. Journal of Medicinal Chemistry, 2007, 50, 6654-6664.	6.4	43
28	Potentiation of the Cytotoxicity of the Anticancer Agent Tirapazamine by BenzotriazineN-oxides:Â The Role of Redox Equilibria. Journal of the American Chemical Society, 2006, 128, 245-249.	13.7	34
29	Cytosine-Gated Hole Creation and Transfer in DNA in Aqueous Solution. Journal of the American Chemical Society, 2006, 128, 15966-15967.	13.7	35
30	Electron Transfer within Complex II. Journal of Biological Chemistry, 2005, 280, 33331-33337.	3.4	28
31	Radical properties governing the hypoxia-selective cytotoxicity of antitumor 3-amino-1,2,4-benzotriazine 1,4-dioxides. Organic and Biomolecular Chemistry, 2005, 3, 2167.	2.8	31
32	Oxidation of 2-Deoxyribose by Benzotriazinyl Radicals of Antitumor 3-Amino-1,2,4-benzotriazine 1,4-Dioxides. Journal of the American Chemical Society, 2004, 126, 7865-7874.	13.7	37
33	Structureâ˜Activity Relationships of 1,2,4-Benzotriazine 1,4-Dioxides as Hypoxia-Selective Analogues of Tirapazamine. Journal of Medicinal Chemistry, 2003, 46, 169-182.	6.4	112
34	Activation of 3-Amino-1,2,4-benzotriazine 1,4-Dioxide Antitumor Agents to Oxidizing Species Following Their One-Electron Reduction. Journal of the American Chemical Society, 2003, 125, 748-756.	13.7	114
35	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. Chemical Research in Toxicology, 2003, 16, 1477-1483.	3.3	23
36	Dopamine and Uric Acid Act as Antioxidants in the Repair of DNA Radicals: Implications in Parkinson's Disease. Free Radical Research, 2003, 37, 1131-1136.	3.3	37

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37	Reduction in free-radical-induced DNA strand breaks and base damage through fast chemical repair by flavonoids. Free Radical Research, 2000, 33, 91-103.	3.3	54
38	Radiolytic Studies of Trimethylamine Dehydrogenase. Journal of Biological Chemistry, 2000, 275, 30781-30786.	3.4	8
39	Protonation Studies of Reduced Ruthenium(II) Complexes with Polypyridyl Ligands. Inorganic Chemistry, 2000, 39, 2721-2728.	4.0	67
40	Pulse radiolysis studies indicate that electron transfer is involved in radioprotection by hoechst 33342 and methylproamine. International Journal of Radiation Oncology Biology Physics, 1998, 42, 827-831.	0.8	36
41	Pulse Radiolysis Studies on the Fragmentation of Arylmethyl Quaternary Nitrogen Mustards by One-Electron Reduction in Aqueous Solution. Journal of Physical Chemistry A, 1997, 101, 9704-9709.	2.5	55
42	Generation of Tris(dialkylamino)cyclopropenyl Radical Dications by Pulse Radiolysis and Redox Potential Determination for the C3(NEt2)3â€¢2+/C3(NEt2)3+and C3(NC5H10)3â€¢2+/C3(NC5H10)3+Couples. Journal of Physical Chemistry A, 1997, 101, 2732-2734.	2.5	1
43	Hypoxia-Selective Antitumor Agents. 12. Nitrobenzyl Quaternary Salts as Bioreductive Prodrugs of the Alkylating Agent Mechlorethamine. Journal of Medicinal Chemistry, 1996, 39, 1084-1094.	6.4	41
44	Hypoxia-selective Radiosensitization of Mammalian Cells by Nitracrine, an Electron-affinic DNA Intercalator. International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1987, 51, 641-654.	1.0	29
45	The Influence of Thiols on the Pre-irradiation Incubation Effect of Nitroimidazoles inE. ColiCells. International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1985, 48, 485-494.	1.0	4
46	Changes in the Survival Curve Shape ofE. ColiCells Following Irradiation in the Presence of Uncouplers of Oxidative Phosphorylation. International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1985, 48, 495-504.	1.0	3
47	Radical cations of some low-potential viologen compounds. Reduction potentials and electron-transfer reactions. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 2693.	1.0	43
48	THE EFFECT OF 1,4-DIAZABICYCLO[2.2.2]OCTANE ON THE RADIOSENSITIVITY OF BACTERIA. Photochemistry and Photobiology, 1978, 28, 881-885.	2.5	17
49	Electron Transfer and Equilibria between Pyridinyl Radicals and FAD. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1976, 80, 969-972.	0.9	39