

Derek A Pratt

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122
papers

6,998
citations

46
h-index

81
g-index

126
ext. papers

8,675
ext. citations

11.9
avg, IF

6.49
L-index

#	Paper	IF	Citations
122	FSP1 is a glutathione-independent ferroptosis suppressor. <i>Nature</i> , 2019 , 575, 693-698	50.4	663
121	Advances in radical-trapping antioxidant chemistry in the 21st century: a kinetics and mechanisms perspective. <i>Chemical Reviews</i> , 2014 , 114, 9022-46	68.1	295
120	On the Mechanism of Cytoprotection by Ferrostatin-1 and Liproxstatin-1 and the Role of Lipid Peroxidation in Ferroptotic Cell Death. <i>ACS Central Science</i> , 2017 , 3, 232-243	16.8	291
119	Ferroptosis Inhibition: Mechanisms and Opportunities. <i>Trends in Pharmacological Sciences</i> , 2017 , 38, 489-498	15.2	237
118	Control of oxygenation in lipoxygenase and cyclooxygenase catalysis. <i>Chemistry and Biology</i> , 2007 , 14, 473-88		237
117	Resolving the Role of Lipoxygenases in the Initiation and Execution of Ferroptosis. <i>ACS Central Science</i> , 2018 , 4, 387-396	16.8	214
116	The chemical basis of ferroptosis. <i>Nature Chemical Biology</i> , 2019 , 15, 1137-1147	11.7	194
115	Critical re-evaluation of the O-H bond dissociation enthalpy in phenol. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 2647-55	2.8	184
114	Free radical oxidation of polyunsaturated lipids: New mechanistic insights and the development of peroxy radical clocks. <i>Accounts of Chemical Research</i> , 2011 , 44, 458-67	24.3	181
113	Dissecting the mechanisms of a class of chemical glycosylation using primary ^{13}C kinetic isotope effects. <i>Nature Chemistry</i> , 2012 , 4, 663-7	17.6	158
112	Theoretical calculations of carbon-oxygen bond dissociation enthalpies of peroxy radicals formed in the autoxidation of lipids. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5801-10	16.4	133
111	Radicals in natural product synthesis. <i>Chemical Society Reviews</i> , 2018 , 47, 7851-7866	58.5	132
110	5-Pyrimidinols: novel chain-breaking antioxidants more effective than phenols. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4625-6	16.4	129
109	Bond strengths of toluenes, anilines, and phenols: to hammett or not. <i>Accounts of Chemical Research</i> , 2004 , 37, 334-40	24.3	125
108	6-Amino-3-pyridinols: towards diffusion-controlled chain-breaking antioxidants. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4370-3	16.4	113
107	Substituent effects on the bond dissociation enthalpies of aromatic amines. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11085-92	16.4	109
106	Autoxidative and cyclooxygenase-2 catalyzed transformation of the dietary chemopreventive agent curcumin. <i>Journal of Biological Chemistry</i> , 2011 , 286, 1114-24	5.4	104

105	The unusual reaction of semiquinone radicals with molecular oxygen. <i>Journal of Organic Chemistry</i> , 2008 , 73, 1830-41	4.2	100
104	Theoretical Study of Carbon-Halogen Bond Dissociation Enthalpies of Substituted Benzyl Halides. How Important Are Polar Effects?1. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4877-4882	16.4	90
103	Tetrahydro-1,8-naphthyridinol analogues of alpha-tocopherol as antioxidants in lipid membranes and low-density lipoproteins. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10211-9	16.4	89
102	Garlic: source of the ultimate antioxidants--sulfenic acids. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 157-60	16.4	88
101	The effect of ring nitrogen atoms on the homolytic reactivity of phenolic compounds: understanding the radical-scavenging ability of 5-pyrimidinols. <i>Chemistry - A European Journal</i> , 2003 , 9, 4997-5010	4.8	87
100	Kinetic products of linoleate peroxidation: rapid beta-fragmentation of nonconjugated peroxy radicals. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11827-8	16.4	82
99	Metabolic determinants of cancer cell sensitivity to canonical ferroptosis inducers. <i>Nature Chemical Biology</i> , 2020 , 16, 1351-1360	11.7	82
98	Synthesis and reactivity of some 6-substituted-2,4-dimethyl-3-pyridinols, a novel class of chain-breaking antioxidants. <i>Journal of Organic Chemistry</i> , 2004 , 69, 9215-23	4.2	79
97	Oxygen-carbon bond dissociation enthalpies of benzyl phenyl ethers and anisoles. An example of temperature dependent substituent effects. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5518-26	16.4	78
96	Hock cleavage of cholesterol 5alpha-hydroperoxide: an ozone-free pathway to the cholesterol ozonolysis products identified in arterial plaque and brain tissue. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12224-5	16.4	76
95	Properties and reactivity of chlorovinylcobalamin and vinylcobalamin and their implications for vitamin B12-catalyzed reductive dechlorination of chlorinated alkenes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1126-36	16.4	75
94	The Potency of Diarylamine Radical-Trapping Antioxidants as Inhibitors of Ferroptosis Underscores the Role of Autoxidation in the Mechanism of Cell Death. <i>ACS Chemical Biology</i> , 2017 , 12, 2538-2545	4.9	72
93	Lipid Peroxidation: Kinetics, Mechanisms, and Products. <i>Journal of Organic Chemistry</i> , 2017 , 82, 2817-2825	4.2	65
92	Peroxy radical clocks. <i>Journal of Organic Chemistry</i> , 2006 , 71, 3527-32	4.2	64
91	On the Reactions of Thiols, Sulfenic Acids, and Sulfinic Acids with Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6255-6259	16.4	60
90	Methods for determining the efficacy of radical-trapping antioxidants. <i>Free Radical Biology and Medicine</i> , 2015 , 82, 187-202	7.8	59
89	Unexpected acid catalysis in reactions of peroxy radicals with phenols. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8348-51	16.4	59
88	Incorporation of ring nitrogens into diphenylamine antioxidants: striking a balance between reactivity and stability. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8306-9	16.4	58

87	Theoretical calculation of ionization potentials for disubstituted benzenes: additivity vs non-additivity of substituent effects. <i>Journal of Organic Chemistry</i> , 2000 , 65, 2195-203	4.2	57
86	Thermolyses of O-phenyl oxime ethers. A new source of iminyl radicals and a new source of aryloxy radicals. <i>Journal of Organic Chemistry</i> , 2004 , 69, 3112-20	4.2	56
85	The reaction of sulfenic acids with peroxy radicals: insights into the radical-trapping antioxidant activity of plant-derived thiosulfinates. <i>Chemistry - A European Journal</i> , 2012 , 18, 6370-9	4.8	55
84	Synthesis of resveratrol tetramers via a stereoconvergent radical equilibrium. <i>Science</i> , 2016 , 354, 1260-1265	3.5	54
83	TEMPO reacts with oxygen-centered radicals under acidic conditions. <i>Chemical Communications</i> , 2010 , 46, 5139-41	5.8	52
82	Hydropersulfides: H-Atom Transfer Agents Par Excellence. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6484-6493	16.4	51
81	A scalable biomimetic synthesis of resveratrol dimers and systematic evaluation of their antioxidant activities. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3754-7	16.4	50
80	O-H bond dissociation enthalpies in oximes: order restored. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10667-75	16.4	50
79	O-O Bond Dissociation Enthalpy in Di(trifluoromethyl) Peroxide (CF ₃ OOCF ₃) as Determined by Very Low Pressure Pyrolysis. Density Functional Theory Computations on O-O and O-H Bonds in (Fluorinated) Derivatives. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 10713-10720	2.8	50
78	The redox chemistry of sulfenic acids. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16759-61	16.4	49
77	Maximizing the reactivity of phenolic and aminic radical-trapping antioxidants: just add nitrogen!. <i>Accounts of Chemical Research</i> , 2015 , 48, 966-75	24.3	46
76	Preparation of highly reactive pyridine- and pyrimidine-containing diarylamine antioxidants. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6908-16	4.2	46
75	The Catalytic Reaction of Nitroxides with Peroxy Radicals and Its Relevance to Their Cytoprotective Properties. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3798-3808	16.4	44
74	Acid Is Key to the Radical-Trapping Antioxidant Activity of Nitroxides. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5290-8	16.4	44
73	Redox chemistry of selenenic acids and the insight it brings on transition state geometry in the reactions of peroxy radicals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1570-8	16.4	43
72	Besting vitamin E: sidechain substitution is key to the reactivity of naphthyridinol antioxidants in lipid bilayers. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1394-405	16.4	43
71	The mechanism of radical-trapping antioxidant activity of plant-derived thiosulfinates. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 3320-30	3.9	43
70	A selective cysteinyl leukotriene receptor 2 antagonist blocks myocardial ischemia/reperfusion injury and vascular permeability in mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011 , 339, 768-78	4.7	43

69	A Continuous Visible Light Spectrophotometric Approach To Accurately Determine the Reactivity of Radical-Trapping Antioxidants. <i>Journal of Organic Chemistry</i> , 2016 , 81, 737-44	4.2	41
68	Model studies of the histidine-tyrosine cross-link in cytochrome C oxidase reveal the flexible substituent effect of the imidazole moiety. <i>Organic Letters</i> , 2005 , 7, 2735-8	6.2	41
67	Phenoxazine: A Privileged Scaffold for Radical-Trapping Antioxidants. <i>Journal of Organic Chemistry</i> , 2017 , 82, 10523-10536	4.2	39
66	Influence of "remote" intramolecular hydrogen bonds on the stabilities of phenoxyl radicals and benzyl cations. <i>Journal of Organic Chemistry</i> , 2010 , 75, 4434-40	4.2	39
65	Preparation and investigation of vitamin B6-derived aminopyridinol antioxidants. <i>Chemistry - A European Journal</i> , 2010 , 16, 14106-14	4.8	39
64	A simple Cu-catalyzed coupling approach to substituted 3-pyridinol and 5-pyrimidinol antioxidants. <i>Journal of Organic Chemistry</i> , 2008 , 73, 9326-33	4.2	37
63	Kinetics and mechanism of the general-acid-catalyzed ring-closure of the malondialdehyde-DNA adduct, N2-(3-oxo-1-propenyl)deoxyguanosine (N2OPdG), to 3-(2PDeoxy-beta-D-erythro-pentofuranosyl)pyrimido[1,2-alpha]purin- 10(3H)-one (M1dG). <i>Journal of the American Chemical Society</i> , 2004 , 126, 10571-81	16.4	37
62	Synthesis of pyrrolnitrin and related halogenated phenylpyrroles. <i>Organic Letters</i> , 2009 , 11, 1051-4	6.2	36
61	Pyridine and pyrimidine analogs of acetaminophen as inhibitors of lipid peroxidation and cyclooxygenase and lipoxygenase catalysis. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 5103-12	3.9	36
60	Recent Insights on Hydrogen Atom Transfer in the Inhibition of Hydrocarbon Autoxidation. <i>Accounts of Chemical Research</i> , 2018 , 51, 1996-2005	24.3	35
59	Isomerization and Elimination Reactions of Brominated Poly(isobutylene-co-isoprene). <i>Macromolecules</i> , 2010 , 43, 8456-8461	5.5	35
58	The reactivity of air-stable pyridine- and pyrimidine-containing diarylamine antioxidants. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6895-907	4.2	34
57	Theoretical investigations into the intermediacy of chlorinated vinylcobalamins in the reductive dehalogenation of chlorinated ethylenes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 384-96	16.4	33
56	Role of hyperconjugation in determining carbon-oxygen bond dissociation enthalpies in alkylperoxyl radicals. <i>Organic Letters</i> , 2003 , 5, 387-90	6.2	33
55	The catalytic mechanism of diarylamine radical-trapping antioxidants. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16643-50	16.4	31
54	Revised Structure for the Diphenylaminy Radical: The Importance of Theory in the Assignment of Electronic Transitions in Ph ₂ X(X = CH, N) and PhY(Y = CH ₂ , NH, O). <i>Journal of Physical Chemistry A</i> , 2002 , 106, 11719-11725	2.8	31
53	Beyond DPPH: Use of Fluorescence-Enabled Inhibited Autoxidation to Predict Oxidative Cell Death Rescue. <i>Cell Chemical Biology</i> , 2019 , 26, 1594-1607.e7	8.2	30
52	3-Pyridinols and 5-pyrimidinols: Tailor-made for use in synergistic radical-trapping co-antioxidant systems. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 2781-92	2.5	28

51	Cholesterol Autoxidation Revisited: Debunking the Dogma Associated with the Most Vilified of Lipids. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6932-5	16.4	28
50	Radical Substitution Provides a Unique Route to Disulfides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10284-10290	16.4	27
49	Inhibition of hydrocarbon autoxidation by nitroxide-catalyzed cross-dismutation of hydroperoxyl and alkylperoxyl radicals. <i>Chemical Science</i> , 2018 , 9, 6068-6079	9.4	27
48	A versatile fluorescence approach to kinetic studies of hydrocarbon autoxidations and their inhibition by radical-trapping antioxidants. <i>Chemical Communications</i> , 2012 , 48, 10141-3	5.8	25
47	Polysulfide-1-oxides react with peroxy radicals as quickly as hindered phenolic antioxidants and do so by a surprising concerted homolytic substitution. <i>Chemical Science</i> , 2016 , 7, 6347-6356	9.4	24
46	Tyrosine analogues for probing proton-coupled electron transfer processes in peptides and proteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 863-72	16.4	24
45	Base-Promoted C-C Bond Activation Enables Radical Allylation with Homoallylic Alcohols. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2609-2616	16.4	23
44	Lipid-soluble 3-pyridinol antioxidants spare alpha-tocopherol and do not efficiently mediate peroxidation of cholesterol esters in human low-density lipoprotein. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 6787-9	8.3	23
43	Dysfunction of the key ferroptosis-surveilling systems hypersensitizes mice to tubular necrosis during acute kidney injury. <i>Nature Communications</i> , 2021 , 12, 4402	17.4	22
42	Reactivity of Polyolefins toward Cumyloxy Radical: Yields and Regioselectivity of Hydrogen Atom Transfer. <i>Macromolecules</i> , 2014 , 47, 544-551	5.5	21
41	Unprecedented inhibition of hydrocarbon autoxidation by diarylamine radical-trapping antioxidants. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2440-3	16.4	20
40	A compendium of kinetic modulatory profiles identifies ferroptosis regulators. <i>Nature Chemical Biology</i> , 2021 , 17, 665-674	11.7	20
39	Aminyl Radical Generation via Tandem Norrish Type I Photocleavage, β -Fragmentation: Independent Generation and Reactivity of the 2PDeoxyadenosin- N6-yl Radical. <i>Journal of Organic Chemistry</i> , 2017 , 82, 3571-3580	4.2	19
38	The hydrogen atom transfer reactivity of sulfinic acids. <i>Chemical Science</i> , 2018 , 9, 7218-7229	9.4	18
37	6-Amino-3-Pyridinols: Towards Diffusion-Controlled Chain-Breaking Antioxidants. <i>Angewandte Chemie</i> , 2003 , 115, 4506-4509	3.6	18
36	Threshold protective effect of deuterated polyunsaturated fatty acids on peroxidation of lipid bilayers. <i>FEBS Journal</i> , 2019 , 286, 2099-2117	5.7	17
35	Electrochemical Dimerization of Phenylpropenoids and the Surprising Antioxidant Activity of the Resultant Quinone Methide Dimers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17125-17129	16.4	17
34	The antioxidant activity of polysulfides: it's radical!. <i>Chemical Science</i> , 2019 , 10, 4999-5010	9.4	16

33	Thermal decomposition of O-benzyl ketoximes; role of reverse radical disproportionation. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 415-20	3.9	16
32	Inspired by garlic: insights on the chemistry of sulfenic acids and the radical-trapping antioxidant activity of organosulfur compounds. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 1-8	0.9	15
31	Secondary orbital interactions in the propagation steps of lipid peroxidation. <i>Chemical Communications</i> , 2010 , 46, 3711-3	5.8	14
30	H-Atom Abstraction vs Addition: Accounting for the Diverse Product Distribution in the Autoxidation of Cholesterol and Its Esters. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3037-3051	16.4	14
29	Potent Ferroptosis Inhibitors Can Catalyze the Cross-Dismutation of Phospholipid-Derived Peroxyl Radicals and Hydroperoxyl Radicals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14331-14342	16.4	13
28	Autoxidation antioxidants - the fight for forever. <i>Chemical Society Reviews</i> , 2021 , 50, 7343-7358	58.5	13
27	The Peroxy Acid Dioxirane Equilibrium: Base-Promoted Exchange of Peroxy Acid Oxygens. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11272-11273	16.4	12
26	A Scalable Biomimetic Synthesis of Resveratrol Dimers and Systematic Evaluation of their Antioxidant Activities. <i>Angewandte Chemie</i> , 2015 , 127, 3825-3828	3.6	11
25	A Divergent Strategy for Site-Selective Radical Disulfuration of Carboxylic Acids with Trisulfide-1,1-Dioxides. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15598-15605	16.4	11
24	Determination of Key Hydrocarbon Autoxidation Products by Fluorescence. <i>Journal of Organic Chemistry</i> , 2016 , 81, 6649-56	4.2	11
23	Synthesis of Vitisins A and D Enabled by a Persistent Radical Equilibrium. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6499-6504	16.4	10
22	Peroxyesters as precursors to peroxy radical clocks. <i>Journal of Organic Chemistry</i> , 2012 , 77, 276-84	4.2	10
21	The medicinal thiosulfonates from garlic and are not radical-trapping antioxidants in liposomes and cells, but lipophilic analogs are. <i>Chemical Science</i> , 2015 , 6, 6165-6178	9.4	9
20	Antioxidant generation and regeneration in lipid bilayers: the amazing case of lipophilic thiosulfonates and hydrophilic thiols. <i>Chemical Communications</i> , 2013 , 49, 8181-3	5.8	9
19	Diazaphenoxazines and Diazaphenothiazines: Synthesis of the "Correct" Isomers Reveals They Are Highly Reactive Radical-Trapping Antioxidants. <i>Organic Letters</i> , 2017 , 19, 1854-1857	6.2	8
18	Reactive Sterol Electrophiles: Mechanisms of Formation and Reactions with Proteins and Amino Acid Nucleophiles. <i>Chemistry</i> , 2020 , 2, 390-417	2.1	8
17	Mechanism of Electrochemical Generation and Decomposition of Phthalimide-oxyl. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10324-10332	16.4	8
16	Antioxidants in Chemistry and Biology 2012 ,		6

15	Electrochemical Dimerization of Phenylpropenoids and the Surprising Antioxidant Activity of the Resultant Quinone Methide Dimers. <i>Angewandte Chemie</i> , 2018 , 130, 17371-17375	3.6	6
14	Quinone methide dimers lacking labile hydrogen atoms are surprisingly excellent radical-trapping antioxidants. <i>Chemical Science</i> , 2020 , 11, 5676-5689	9.4	5
13	On the Products of Cholesterol Autoxidation in Phospholipid Bilayers and the Formation of Secosterols Derived Therefrom. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2089-2094	16.4	5
12	A Divergent Strategy for Site-Selective Radical Disulfuration of Carboxylic Acids with Trisulfide-1,1-Dioxides. <i>Angewandte Chemie</i> , 2021 , 133, 15726-15733	3.6	5
11	A Compendium of Kinetic Cell Death Modulatory Profiles Identifies Ferroptosis Regulators		3
10	Temperature-Dependent Effects of Alkyl Substitution on Diarylamine Antioxidant Reactivity. <i>Journal of Organic Chemistry</i> , 2021 , 86, 6538-6550	4.2	3
9	On the Reactions of Thiols, Sulfenic Acids, and Sulfinic Acids with Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2017 , 129, 6351-6355	3.6	2
8	Reaction mechanisms: radical and radical ion reactions. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2013 , 109, 295		2
7	6-Amino-3-Pyridinols: Towards Diffusion-Controlled Chain-Breaking Antioxidants. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4847-4847	16.4	2
6	Radical-Trapping Antioxidant Activity of Copper and Nickel Bis(Thiosemicarbazone) Complexes Underlies Their Potency as Inhibitors of Ferroptotic Cell Death. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19043-19057	16.4	2
5	Temperature-dependence of radical-trapping activity of phenoxazine, phenothiazine and their aza-analogues clarifies the way forward for new antioxidant design. <i>Chemical Science</i> , 2021 , 12, 11065-11079	9.4	1
4	Hydrogen Atom Abstraction from Polyolefins: Experimental and Computational Studies of Model Systems. <i>Macromolecules</i> , 2020 , 53, 2793-2800	5.5	0
3	22nd IUPAC International Conference on Physical Organic Chemistry (ICPOC-22). <i>Pure and Applied Chemistry</i> , 2015 , 87, 339-339	2.1	
2	On the Products of Cholesterol Autoxidation in Phospholipid Bilayers and the Formation of Secosterols Derived Therefrom. <i>Angewandte Chemie</i> , 2020 , 132, 2105-2110	3.6	
1	6-Amino-3-Pyridinols: Towards Diffusion-Controlled Chain-Breaking Antioxidants. <i>Angewandte Chemie</i> , 2003 , 115, 4996-4996	3.6	