Derek A Pratt

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

6,998 81 46 122 h-index g-index citations papers 126 8,675 6.49 11.9 L-index avg, IF ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 122 | 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 |
| 121 | A compendium of kinetic modulatory profiles identifies ferroptosis regulators. <i>Nature Chemical Biology</i> , 2021 , 17, 665-674 | 11.7 | 20 |
| 120 | Temperature-Dependent Effects of Alkyl Substitution on Diarylamine Antioxidant Reactivity. Journal of Organic Chemistry, 2021 , 86, 6538-6550 | 4.2 | 3 |
| 119 | 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 |
| 118 | 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 |
| 117 | Mechanism of Electrochemical Generation and Decomposition of Phthalimideoxyl. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10324-10332 | 16.4 | 8 |
| 116 | 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 |
| 115 | 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, 11065-1 | 1079 | 1 |
| 114 | Autoxidation antioxidants - the fight for forever. <i>Chemical Society Reviews</i> , 2021 , 50, 7343-7358 | 58.5 | 13 |
| 113 | Radical Substitution Provides a Unique Route to Disulfides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10284-10290 | 16.4 | 27 |
| 112 | Quinone methide dimers lacking labile hydrogen atoms are surprisingly excellent radical-trapping antioxidants. <i>Chemical Science</i> , 2020 , 11, 5676-5689 | 9.4 | 5 |
| 111 | Reactive Sterol Electrophiles: Mechanisms of Formation and Reactions with Proteins and Amino Acid Nucleophiles <i>Chemistry</i> , 2020 , 2, 390-417 | 2.1 | 8 |
| 110 | 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 |
| 109 | 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 | |
| 108 | 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 |
| 107 | Hydrogen Atom Abstraction from Polyolefins: Experimental and Computational Studies of Model Systems. <i>Macromolecules</i> , 2020 , 53, 2793-2800 | 5.5 | О |
| 106 | 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 |

(2017-2020)

| 105 | Metabolic determinants of cancer cell sensitivity to canonical ferroptosis inducers. <i>Nature Chemical Biology</i> , 2020 , 16, 1351-1360 | 11.7 | 82 | |
|-----|---|---------------|-----|--|
| 104 | 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 | |
| 103 | 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 | |
| 102 | The antioxidant activity of polysulfides: itB radical!. Chemical Science, 2019, 10, 4999-5010 | 9.4 | 16 | |
| 101 | Threshold protective effect of deuterated polyunsaturated fatty acids on peroxidation of lipid bilayers. <i>FEBS Journal</i> , 2019 , 286, 2099-2117 | 5.7 | 17 | |
| 100 | FSP1 is a glutathione-independent ferroptosis suppressor. <i>Nature</i> , 2019 , 575, 693-698 | 50.4 | 663 | |
| 99 | The chemical basis of ferroptosis. <i>Nature Chemical Biology</i> , 2019 , 15, 1137-1147 | 11.7 | 194 | |
| 98 | 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, 3037-30 | 0516.4 | 14 | |
| 97 | The Catalytic Reaction of Nitroxides with Peroxyl Radicals and Its Relevance to Their Cytoprotective Properties. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3798-3808 | 16.4 | 44 | |
| 96 | Resolving the Role of Lipoxygenases in the Initiation and Execution of Ferroptosis. <i>ACS Central Science</i> , 2018 , 4, 387-396 | 16.8 | 214 | |
| 95 | The hydrogen atom transfer reactivity of sulfinic acids. <i>Chemical Science</i> , 2018 , 9, 7218-7229 | 9.4 | 18 | |
| 94 | 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 | |
| 93 | Radicals in natural product synthesis. Chemical Society Reviews, 2018, 47, 7851-7866 | 58.5 | 132 | |
| 92 | 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 | |
| 91 | 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 | |
| 90 | 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 | |
| 89 | 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 | |
| 88 | Lipid Peroxidation: Kinetics, Mechanisms, and Products. <i>Journal of Organic Chemistry</i> , 2017 , 82, 2817-28 | 3 2 52 | 65 | |

| 87 | Hydropersulfides: H-Atom Transfer Agents Par Excellence. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6484-6493 | 16.4 | 51 |
|----|--|-------|-----|
| 86 | 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 |
| 85 | Ferroptosis Inhibition: Mechanisms and Opportunities. <i>Trends in Pharmacological Sciences</i> , 2017 , 38, 489 | -498 | 237 |
| 84 | Aminyl Radical Generation via Tandem Norrish Type I Photocleavage, Fragmentation: Independent Generation and Reactivity of the 2PDeoxyadenosin- N6-yl Radical. <i>Journal of Organic Chemistry</i> , 2017 , 82, 3571-3580 | 4.2 | 19 |
| 83 | On the Reactions of Thiols, Sulfenic Acids, and Sulfinic Acids with Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2017 , 129, 6351-6355 | 3.6 | 2 |
| 82 | 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 |
| 81 | 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 |
| 80 | Phenoxazine: A Privileged Scaffold for Radical-Trapping Antioxidants. <i>Journal of Organic Chemistry</i> , 2017 , 82, 10523-10536 | 4.2 | 39 |
| 79 | Polysulfide-1-oxides react with peroxyl 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | Determination of Key Hydrocarbon Autoxidation Products by Fluorescence. <i>Journal of Organic Chemistry</i> , 2016 , 81, 6649-56 | 4.2 | 11 |
| 75 | Synthesis of resveratrol tetramers via a stereoconvergent radical equilibrium. <i>Science</i> , 2016 , 354, 1260-7 | 13:65 | 54 |
| 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 | 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 |
| 72 | 22nd IUPAC International Conference on Physical Organic Chemistry (ICPOC-22). <i>Pure and Applied Chemistry</i> , 2015 , 87, 339-339 | 2.1 | |
| 71 | 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 |
| 70 | The medicinal thiosulfinates 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 |

(2012-2015)

| 69 | 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 |
|----|---|------|-----|
| 68 | 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 |
| 67 | Methods for determining the efficacy of radical-trapping antioxidants. <i>Free Radical Biology and Medicine</i> , 2015 , 82, 187-202 | 7.8 | 59 |
| 66 | 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 |
| 65 | The catalytic mechanism of diarylamine radical-trapping antioxidants. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16643-50 | 16.4 | 31 |
| 64 | Reactivity of Polyolefins toward Cumyloxy Radical: Yields and Regioselectivity of Hydrogen Atom Transfer. <i>Macromolecules</i> , 2014 , 47, 544-551 | 5.5 | 21 |
| 63 | Redox chemistry of selenenic acids and the insight it brings on transition state geometry in the reactions of peroxyl radicals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1570-8 | 16.4 | 43 |
| 62 | 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 |
| 61 | Antioxidant generation and regeneration in lipid bilayers: the amazing case of lipophilic thiosulfinates and hydrophilic thiols. <i>Chemical Communications</i> , 2013 , 49, 8181-3 | 5.8 | 9 |
| 60 | Reaction mechanisms: radical and radical ion reactions. <i>Annual Reports on the Progress of Chemistry Section B</i> , 2013 , 109, 295 | | 2 |
| 59 | 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 |
| 58 | 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 |
| 57 | Antioxidants in Chemistry and Biology 2012 , | | 6 |
| 56 | Preparation of highly reactive pyridine- and pyrimidine-containing diarylamine antioxidants. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6908-16 | 4.2 | 46 |
| 55 | The reactivity of air-stable pyridine- and pyrimidine-containing diarylamine antioxidants. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6895-907 | 4.2 | 34 |
| 54 | 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 |
| 53 | Peroxyesters as precursors to peroxyl radical clocks. <i>Journal of Organic Chemistry</i> , 2012 , 77, 276-84 | 4.2 | 10 |
| 52 | 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 |

| 51 | Dissecting the mechanisms of a class of chemical glycosylation using primary IIC kinetic isotope effects. <i>Nature Chemistry</i> , 2012 , 4, 663-7 | 17.6 | 158 |
|----|---|------|-----|
| 50 | The reaction of sulfenic acids with peroxyl 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 |
| 49 | The mechanism of radical-trapping antioxidant activity of plant-derived thiosulfinates. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 3320-30 | 3.9 | 43 |
| 48 | 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 |
| 47 | Free radical oxidation of polyunsaturated lipids: New mechanistic insights and the development of peroxyl radical clocks. <i>Accounts of Chemical Research</i> , 2011 , 44, 458-67 | 24.3 | 181 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | TEMPO reacts with oxygen-centered radicals under acidic conditions. <i>Chemical Communications</i> , 2010 , 46, 5139-41 | 5.8 | 52 |
| 42 | Secondary orbital interactions in the propagation steps of lipid peroxidation. <i>Chemical Communications</i> , 2010 , 46, 3711-3 | 5.8 | 14 |
| 41 | Isomerization and Elimination Reactions of Brominated Poly(isobutylene-co-isoprene). <i>Macromolecules</i> , 2010 , 43, 8456-8461 | 5.5 | 35 |
| 40 | The redox chemistry of sulfenic acids. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16759-61 | 16.4 | 49 |
| 39 | Preparation and investigation of vitamin B6-derived aminopyridinol antioxidants. <i>Chemistry - A European Journal</i> , 2010 , 16, 14106-14 | 4.8 | 39 |
| 38 | Garlic: source of the ultimate antioxidantssulfenic acids. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 157-60 | 16.4 | 88 |
| 37 | Unexpected acid catalysis in reactions of peroxyl radicals with phenols. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8348-51 | 16.4 | 59 |
| 36 | Synthesis of pyrrolnitrin and related halogenated phenylpyrroles. <i>Organic Letters</i> , 2009 , 11, 1051-4 | 6.2 | 36 |
| 35 | 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 |
| 34 | A simple Cu-catalyzed coupling approach to substituted 3-pyridinol and 5-pyrimidinol antioxidants. Journal of Organic Chemistry, 2008 , 73, 9326-33 | 4.2 | 37 |

(2003-2008)

| 33 | ozonolysis products identified in arterial plaque and brain tissue. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12224-5 | 16.4 | 76 |
|----|---|------|-----|
| 32 | The unusual reaction of semiquinone radicals with molecular oxygen. <i>Journal of Organic Chemistry</i> , 2008 , 73, 1830-41 | 4.2 | 100 |
| 31 | 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 |
| 30 | Control of oxygenation in lipoxygenase and cyclooxygenase catalysis. <i>Chemistry and Biology</i> , 2007 , 14, 473-88 | | 237 |
| 29 | Peroxyl radical clocks. <i>Journal of Organic Chemistry</i> , 2006 , 71, 3527-32 | 4.2 | 64 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Bond strengths of toluenes, anilines, and phenols: to hammett or not. <i>Accounts of Chemical Research</i> , 2004 , 37, 334-40 | 24.3 | 125 |
| 21 | O-H bond dissociation enthalpies in oximes: order restored. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10667-75 | 16.4 | 50 |
| 20 | Thermal decomposition of O-benzyl ketoximes; role of reverse radical disproportionation. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 415-20 | 3.9 | 16 |
| 19 | 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</i> | 16.4 | 37 |
| 18 | of the American Chemical Society, 2004 , 126, 10571-81 Thermolyses of O-phenyl oxime ethers. A new source of iminyl radicals and a new source of aryloxyl radicals. <i>Journal of Organic Chemistry</i> , 2004 , 69, 3112-20 | 4.2 | 56 |
| 17 | 6-Amino-3-Pyridinols: Towards Diffusion-Controlled Chain-Breaking Antioxidants. <i>Angewandte Chemie</i> , 2003 , 115, 4506-4509 | 3.6 | 18 |
| 16 | 6-Amino-3-Pyridinols: Towards Diffusion-Controlled Chain-Breaking Antioxidants. <i>Angewandte Chemie</i> , 2003 , 115, 4996-4996 | 3.6 | |

| 15 | 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 |
|----|--|-------------------|-----|
| 14 | 6-Amino-3-pyridinols: towards diffusion-controlled chain-breaking antioxidants. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4370-3 | 16.4 | 113 |
| 13 | 6-Amino-3-Pyridinols: Towards Diffusion-Controlled Chain-Breaking Antioxidants. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4847-4847 | 16.4 | 2 |
| 12 | Role of hyperconjugation in determining carbon-oxygen bond dissociation enthalpies in alkylperoxyl radicals. <i>Organic Letters</i> , 2003 , 5, 387-90 | 6.2 | 33 |
| 11 | Theoretical calculations of carbon-oxygen bond dissociation enthalpies of peroxyl radicals formed in the autoxidation of lipids. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5801-10 | 16.4 | 133 |
| 10 | Revised Structure for the Diphenylaminyl Radical: The Importance of Theory in the Assignment of Electronic Transitions in Ph2X \mathbb{I} (X = CH, N) and PhY \mathbb{I} (Y = CH2, NH, O). <i>Journal of Physical Chemistry A</i> , 2002 , 106, 11719-11725 | 2.8 | 31 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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- | 2 ^{16.4} | 78 |
| 6 | Kinetic products of linoleate peroxidation: rapid beta-fragmentation of nonconjugated peroxyls. Journal of the American Chemical Society, 2001 , 123, 11827-8 | 16.4 | 82 |
| 5 | 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 |
| 4 | OD Bond Dissociation Enthalpy in Di(trifluoromethyl) Peroxide (CF3OOCF3) as Determined by Very Low Pressure Pyrolysis. Density Functional Theory Computations on OD and O⊞ Bonds in (Fluorinated) Derivatives. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 10713-10720 | 2.8 | 50 |
| 3 | 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 |
| 2 | Theoretical Study of CarbonHalogen 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 |
| 1 | A Compendium of Kinetic Cell Death Modulatory Profiles Identifies Ferroptosis Regulators | | 3 |