Lowell D Kispert

List of Publications by Year
in descending order

61	1,476	279798	345221
papers	citations	23 h-index	36 g-index

61	61	61	1240
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single Two-Electron Transfers vs Successive One-Electron Transfers in Polyconjugated Systems Illustrated by the Electrochemical Oxidation and Reduction of Carotenoids. Journal of the American Chemical Society, 2001, 123, 6669-6677.	13.7	133
2	Photocurrent generated on a carotenoid-sensitized TiO2 nanocrystalline mesoporous electrode. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 130, 49-56.	3.9	95
3	Temperature dependence of the lowest excited singletâ€štate lifetime of allâ€štransâ€Î²â€carotene and fully deuterated allâ€štransâ€Î²â€carotene. Journal of Chemical Physics, 1989, 91, 6691-6697.	3.0	81
4	Reaction of Carotenoids and Ferric Chloride:Â Equilibria, Isomerization, and Products. Journal of Physical Chemistry B, 2003, 107, 5333-5338.	2.6	74
5	Free Radical Formation in Novel Carotenoid Metal Ion Complexes of Astaxanthin. Journal of Physical Chemistry B, 2010, 114, 16968-16977.	2.6	59
6	Water soluble biocompatible vesicles based on polysaccharides and oligosaccharides inclusion complexes for carotenoid delivery. Carbohydrate Polymers, 2015, 128, 207-219.	10.2	56
7	Supramolecular Carotenoid Complexes of Enhanced Solubility and Stabilityâ€”The Way of Bioavailability Improvement. Molecules, 2019, 24, 3947.	3.8	51
8	ENDOR of biradicals. Molecular Physics, 1969, 17, 457-471.	1.7	44
9	Surface Modification of TiO2 Nanoparticles with Carotenoids. EPR Study. Journal of Physical Chemistry B, 1999, 103, 4672-4677.	2.6	37
10	Photoactivated Ferric Chloride Oxidation of Carotenoids by Near-UV to Visible Light. Journal of Physical Chemistry B, 1997, 101, 7844-7849.	2.6	35
11	Dendralene-Type TTF Vinylogs Containing a 1,3-Diselenole Ring. Journal of Organic Chemistry, 2001, 66, 7757-7764.	3.2	35
12	Electron Transfer of Carotenoids Imbedded in MCM-41 and Tiâ^'MCM-41:â€‰ EPR, ENDOR, and UVâ^'Vis Studies. Journal of Physical Chemistry B, 2002, 106, 10808-10815.	2.6	34
13	Solvent and temperature dependence of the lowest excited singlet state lifetime of allâ€štransâ€7â€™,7â€™â€dicyanoâ€7â€™â€apoâ€Î²â€carotene. Journal of Chemical Physics, 1991, 95, 7212-7218.	3.0	33
14	95â^'670 GHz EPR Studies of Canthaxanthin Radical Cation Stabilized on a Silicaâ^'Alumina Surface. Journal of Physical Chemistry B, 1999, 103, 5782-5786.	2.6	33
15	Carotenoid radical cations and dications: EPR, optical, and electrochemical studies. Archives of Biochemistry and Biophysics, 2004, 430, 49-60.	3.0	32
16	Effects of Polyene Chain Length and Acceptor Substituents on the Stability of Carotenoid Radical Cations. Journal of Physical Chemistry B, 2000, 104, 5651-5656.	2.6	31
17	Photoinduced Electron Transfer between Carotenoids and Solvent Molecules. Journal of Physical Chemistry B, 1997, 101, 7858-7862.	2.6	30
18	Photo Protection of Haematococcus pluvialis Algae by Astaxanthin: Unique Properties of Astaxanthin Deduced by EPR, Optical and Electrochemical Studies. Antioxidants, 2017, 6, 80.	5.1	28

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19	Pulsed EPR and DFT Characterization of Radicals Produced by Photo-Oxidation of Zeaxanthin and Violaxanthin on Silicaâ^'Alumina. Journal of Physical Chemistry B, 2008, 112, 1806-1819.	2.6	27
20	Deprotonation of Carotenoid Radical Cation and Formation of a Didehydrodimer. Journal of Physical Chemistry B, 2003, 107, 13237-13240.	2.6	26
21	A Spectroscopic Study of Hexadecylquinolinium Tricyanoquinodimethanide as a Monolayer and in Bulk. Journal of Physical Chemistry B, 2002, 106, 10374-10381.	2.6	25
22	Electrochemical Study of Astaxanthin and Astaxanthin n-Octanoic Monoester and Diester: Tendency to Form Radicals. Journal of Physical Chemistry B, 2014, 118, 2331-2339.	2.6	24
23	Semiconductor Photocatalysis:Â Photodegradation and Transâ^'Cis Photoisomerization of Carotenoids. Journal of Physical Chemistry B, 1998, 102, 3897-3901.	2.6	23
24	Carotenoid Radicals: Cryptochemistry of Natural Colorants. Chemistry Letters, 2010, 39, 148-155.	1.3	23
25	ESR Study of the Chlorofluoroacetamide Radical in Irradiated Dichlorofluoroacetamide Single Crystals. Journal of Chemical Physics, 1972, 56, 2623-2631.	3.0	22
26	Electronâ€electron double resonance of irradiated dimethylmalonic acid, Î±â€aminoisobutyric acid, and Lâ€alanine single crystals: The role of methyl substituents. Journal of Chemical Physics, 1973, 58, 2164-2176.	3.0	22
27	Electrochemical and Optical Study of Carotenoids in TX100 Micelles:Â Electron Transfer and a Large Blue Shift. Journal of Physical Chemistry B, 1999, 103, 9038-9043.	2.6	22
28	Detection of Anisotropic Hyperfine Components of Chemically Prepared Carotenoid Radical Cations:â€‰ 1D and 2D ESEEM and Pulsed ENDOR Study. Journal of Physical Chemistry B, 2001, 105, 8361-8368.	2.6	21
29	Carotenoids in Solâ^'Gels:Â Incorporation, Stability, and Sensitivity to Oxidant and Acid. Chemistry of Materials, 2001, 13, 227-231.	6.7	20
30	Isomerization of Carotenoids in the Presence of MCM-41 Molecular Sieves:Â EPR and HPLC Studies. Journal of Physical Chemistry B, 2004, 108, 9456-9462.	2.6	20
31	EPR study of acceptor doped pâ€terphenyl crystals: The oriented radical cation precursor for a	3.0	15
32	Effect of Electrolytes and Temperature on Dications and Radical Cations of Carotenoids:â€‰ Electrochemical, Optical Absorption, and High-Performance Liquid Chromatography Studies. Journal of Physical Chemistry B, 1999, 103, 10524-10531.	2.6	15
33	EPR Study of the Astaxanthin n-Octanoic Acid Monoester and Diester Radicals on Silicaâ€“Alumina. Journal of Physical Chemistry B, 2012, 116, 13200-13210.	2.6	15
34	Synthesis and NMR-Spectroscopic Structure Determination of Novel 7,7?-Diphenyl-7,7?-diapocarotenoids. Helvetica Chimica Acta, 1993, 76, 1939-1948.	1.6	14
35	Photovoltaic response of carotenoid-sensitized electrode in aqueous solution: ITO coated with a mixture of TiO2 nanoparticles, carotenoid, and polyvinylcarbazole. Journal of the Chemical Society Perkin Transactions II, 1999, , 1225-1230.	0.9	14
36	Pulsed Electron Nuclear Double Resonance Studies of Carotenoid Oxidation in Cu(II)-Substituted MCM-41 Molecular Sieves. Journal of Physical Chemistry B, 2008, 112, 5449-5457.	2.6	14

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37	Photo-induced electron transfer of carotenoids in mesoporous sieves (MCM-41) and surface modified MCM-41: The role of hydrogen bonds on the electron transfer. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 341, 1-11.	3.9	14
38	Chemistry of carotenoid neutral radicals. Archives of Biochemistry and Biophysics, 2015, 572, 167-174.	3.0	13
39	Cross-polarization and magic angle sample spinning NMR of model organic compounds with extremely long 1H T1's. Journal of Polymer Science, Polymer Letters Edition, 1984, 22, 519-522.	0.4	12
40	Hydrogen bonding and cation radical formation of methyl 4â€(N,Nâ€dimethylamino)phenyl carbamate, DMAPCMe. Journal of Chemical Physics, 1987, 87, 4967-4971.	3.0	12
41	Electrochemical Quartz Crystal Microbalance, Voltammetry, Spectroelectrochemical, and Microscopic Studies of Adsorption Behavior for (7E,7â€˜Z)-Diphenyl-7,7â€˜-diapocarotene Electrochemical Oxidation Product. Journal of Physical Chemistry B, 1997, 101, 2038-2045.	2.6	12
42	Radicals formed from proton loss of carotenoid radical cations: A special form of carotenoid neutral radical occurring in photoprotection. Journal of Photochemistry and Photobiology B: Biology, 2017, 166, 148-157.	3.8	11
43	Antioxidant Activity in Supramolecular Carotenoid Complexes Favored by Nonpolar Environment and Disfavored by Hydrogen Bonding. Antioxidants, 2020, 9, 625.	5.1	11
44	Persistent spectral hole burning in europium-doped sodium tellurite glass. Applied Physics Letters, 2005, 87, 091107.	3.3	9
45	Carotenoids: Importance in Daily Lifeâ€”Insight Gained from EPR and ENDOR. Applied Magnetic Resonance, 2021, 52, 1093-1112.	1.2	9
46	The Effect of Electron-Donating and Electron-Withdrawing Substituents on1H-and13C-NMR chemical shifts of novel 7?-aryl-substituted 7?-apo-?-carotenes. Helvetica Chimica Acta, 1993, 76, 1928-1938.	1.6	8
47	EPR and AM1 Study of the Structure of the Radical Anion of Î²-ionone. Journal of Physical Chemistry A, 1999, 103, 1414-1418.	2.5	8
48	Hydrogen Bond Formation between the Carotenoid Canthaxanthin and the Silanol Group on MCM-41 Surface. Journal of Physical Chemistry B, 2015, 119, 10488-10495.	2.6	8
49	DFT and ENDOR Study of Bixin Radical Cations and Neutral Radicals on Silicaâ€“Alumina. Journal of Physical Chemistry B, 2015, 119, 7170-7179.	2.6	8
50	Photoinduced Charge Separation in Retinoic Acid on TiO₂: Comparison of Three Anchoring Modes. Journal of Physical Chemistry C, 2019, 123, 24634-24642.	3.1	8
51	The effect of polarity of environment on the antioxidant activity of carotenoids. Chemical Physics Letters, 2020, 761, 138098.	2.6	8
52	An EPR study of the dichlorofluoromethyl radical and other chlorinated radicals in irradiated dichlorofluoroacetamide single crystals. Journal of Chemical Physics, 1981, 74, 246-249.	3.0	7
53	Electron Spin Resonance Studies of Fluorine-Containing Radicals in Single Organic Crystals. ACS Symposium Series, 1978, , 349-385.	0.5	5
54	Electron Spin Echo Studies of Donor-Doped Poly(P-Phenylene) and Its Oligomers. Molecular Crystals and Liquid Crystals, 1984, 107, 81-90.	0.8	5

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55	Electrochemical and Spectroelectrochemical Study of 7,7â€˜-Diapo-(7E,7â€˜Z)-diphenylcarotene. Journal of Physical Chemistry B, 2001, 105, 975-980.	2.6	5
56	Diffuse-Reflectance Infrared Fourier Transform and Electron Nuclear Double Resonance Study of the Carotenoid Bixin Attached to Irradiated TiO2. Journal of Physical Chemistry C, 2018, 122, 19075-19081.	3.1	5
57	Photo-induced charge separation in hydroxycoumarins on TiO₂ and Fâ€“TiO₂. Dalton Transactions, 2019, 48, 10881-10891.	3.3	5
58	Multifrequency High-Field Electron Paramagnetic Resonance Characterization of the Peroxyl Radical Location in Horse Heart Myoglobin Oxidized by H2O2. Journal of Physical Chemistry B, 2004, 108, 11820-11826.	2.6	4
59	Dependence of Radical Anion Stability on Crystal Structure. Molecular Crystals and Liquid Crystals, 1984, 107, 75-80.	0.8	2
60	Epr studies of radicals in conducting solutions, oligomer crystals and conducting polymers. Reviews of Chemical Intermediates, 1986, 7, 45-70.	1.1	2
61	EPR Study of Cation Radicals of Short Chain Polyenes. Israel Journal of Chemistry, 1989, 29, 33-38.	2.3	2