List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The carotenoids as anti-oxidants — a review. Journal of Photochemistry and Photobiology B: Biology, 1997, 41, 189-200.	3.8	780
2	Carotenoids Enhance Vitamin E Antioxidant Efficiency. Journal of the American Chemical Society, 1997, 119, 621-622.	13.7	239
3	Deep-Red Luminescence and Efficient Singlet Oxygen Generation by Cyclometalated Platinum(II) Complexes with 8-Hydroxyquinolines and Quinoline-8-thiol. Inorganic Chemistry, 2006, 45, 9410-9415.	4.0	135
4	β arotene with vitamins E and C offers synergistic cell protection against NO _x . FEBS Letters, 1998, 436, 387-389.	2.8	134
5	Relative One-Electron Reduction Potentials of Carotenoid Radical Cations and the Interactions of Carotenoids with the Vitamin E Radical Cation. Journal of the American Chemical Society, 1998, 120, 4087-4090.	13.7	122
6	Singlet Oxygen and Free Radical Reactions of Retinoids and Carotenoids—A Review. Antioxidants, 2018, 7, 5.	5.1	115
7	Short-Lived Quinonoid Species from 5,6-Dihydroxyindole Dimers en Route to Eumelanin Polymers:Â Integrated Chemical, Pulse Radiolytic, and Quantum Mechanical Investigation. Journal of the American Chemical Society, 2006, 128, 15490-15498.	13.7	104
8	The Benefits and Risks of Certain Dietary Carotenoids that Exhibit both Anti- and Pro-Oxidative Mechanisms—A Comprehensive Review. Antioxidants, 2020, 9, 264.	5.1	92
9	Interactions of dietary carotenoids with activated (singlet) oxygen and free radicals: Potential effects for human health. Molecular Nutrition and Food Research, 2012, 56, 205-216.	3.3	90
10	Dopaquinone redox exchange with dihydroxyindole and dihydroxyindole carboxylic acid. Pigment Cell & Melanoma Research, 2006, 19, 443-450.	3.6	86
11	Spectral and Photophysical Studies of Substituted Indigo Derivatives in Their Keto Forms. ChemPhysChem, 2006, 7, 2303-2311.	2.1	73
12	Oneâ€electron reduction potentials of dietary carotenoid radical cations in aqueous micellar environments. FEBS Letters, 2001, 500, 132-136.	2.8	66
13	Dietary uptake of lycopene protects human cells from singlet oxygen and nitrogen dioxide – ROS components from cigarette smoke. Journal of Photochemistry and Photobiology B: Biology, 2001, 64, 176-178.	3.8	62
14	Spectroelectrochemical and Computational Studies on the Mechanism of Hypoxia Selectivity of Copper Radiopharmaceuticals. Chemistry - A European Journal, 2008, 14, 5890-5907.	3.3	62
15	Photophysics of an Indigo Derivative (Keto and Leuco Structures) with Singular Properties. Journal of Physical Chemistry A, 2006, 110, 13653-13661.	2.5	60
16	Spectroscopic Evidence for Redox Isomerism in the 1,4-Diethynylbenzene-Bridged Heterobimetallic Cation [{Fe(dppe)Cp*}(μ-C≡CC ₆ H ₄ C≡C){Mo(dppe)(ÎC ₇ H _{7Organometallics, 2011, 30, 4180-4195}	b>)ĴĴ₽F <s< td=""><td>ub>58.</td></s<>	ub>58.
17	Prooxidant and antioxidant reaction mechanisms of carotene and radical interactions with vitamins E and C. Nutrition, 1997, 13, 992-994.	2.4	55
18	Formation of a new class of 7ï€ radicals via sterically induced P–P bond cleavage of the dimers [(CH)2(NR)2P]2. Chemical Communications, 2009, , 1691.	4.1	54

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19	Triplet-State and Singlet Oxygen Formation in Fluorene-Based Alternating Copolymers. Journal of Physical Chemistry B, 2006, 110, 8278-8283.	2.6	52
20	The reduction potential of the \hat{l}^2 -carotene + \hat{l}^2 -carotene couple in an aqueous micro-heterogeneous environment. FEBS Letters, 2000, 471, 125-127.	2.8	48
21	Characterisation of carotenoid radical cations in liposomal environments: interaction with vitamin C. Journal of Photochemistry and Photobiology B: Biology, 2001, 60, 1-6.	3.8	46
22	Lack of Visible Chromophore Development in the Pulse Radiolysis Oxidation of 5,6-Dihydroxyindole-2-carboxylic Acid Oligomers: DFT Investigation and Implications for Eumelanin Absorption Properties. Journal of Organic Chemistry, 2009, 74, 3727-3734.	3.2	44
23	Magnetic field effect on singlet oxygen production in a biochemical system. Chemical Communications, 2005, , 174.	4.1	43
24	Electron delocalization in vinyl ruthenium substituted cyclophanes: Assessment of the through-space and the through-bond pathways. Journal of Organometallic Chemistry, 2011, 696, 3186-3197.	1.8	43
25	Enhanced protection of human cells against ultraviolet light by antioxidant combinations involving dietary carotenoids. Journal of Photochemistry and Photobiology B: Biology, 1998, 44, 211-215.	3.8	40
26	Pulse radiolysis study of the interaction of retinoids with peroxyl radicals. Free Radical Biology and Medicine, 2005, 39, 1399-1405.	2.9	40
27	Primary Photophysical Properties of Moxifloxacin— A Fluoroquinolone Antibiotic. Photochemistry and Photobiology, 2008, 84, 1118-1125.	2.5	40
28	Residual stress measurements in polycrystalline graphite with micro-Raman spectroscopy. Radiation Physics and Chemistry, 2015, 111, 14-23.	2.8	40
29	Antioxidant inhibition of porphyrin-induced cellular phototoxicity. Journal of Photochemistry and Photobiology B: Biology, 2001, 65, 177-183.	3.8	37
30	Chemical, Pulse Radiolysis and Density Functional Studies of a New, Labile 5,6-Indolequinone and Its Semiquinone. Journal of Organic Chemistry, 2007, 72, 1595-1603.	3.2	36
31	An in situ electrochemical cell for Q- and W-band EPR spectroscopy. Journal of Magnetic Resonance, 2011, 213, 206-209.	2.1	34
32	The effects of γ-radiation on model vitreous wasteforms intended for the disposal of intermediate and high level radioactive wastes in the United Kingdom. Journal of Nuclear Materials, 2012, 429, 353-367.	2.7	34
33	Orbital Symmetry Control of Electronic Coupling in a Symmetrical, All-Carbon-Bridged "Mixed Valence―Compound: Synthesis, Spectroscopy, and Electronic Structure of [{Mo(dppe)(Î+C ₇ H ₇ }{sub>2(μ+C ₄)] ^{<i>n</i>+} (<i>n</i> >= 0, 1, or 2), Organometallics, 2012, 31, 157-169.	2.3	34
34	Site-specific interactions of copper(II) ions with heparin revealed with complementary (SRCD, NMR,) Tj ETQq0 (0 0 rgBT /0	verlock 10 Tf
35	Spectroscopic Properties and Electronic Structure of the Cycloheptatrienyl Molybdenum Alkynyl Complexes [Mo(C≡CR)(Ph2PCH2CH2PPh2)(η-C7H7)]n+(n= 0 or 1; R =But, Fc, CO2Me, or C6H4-4-X, X = Nł	H2,) ⊉ jÆTQo	q1 BD.7 8431

36Studies of carotenoid one-electron reduction radicals. Archives of Biochemistry and Biophysics, 2007,
458, 104-110.3.0

3.0 31

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37	Direct Observation of NH ₂ [•] Reactions with Oxygen, Amino Acids, and Melanins. Journal of Physical Chemistry A, 2008, 112, 1234-1237.	2.5	30
38	Synthesis, Radiolabelling and Confocal Fluorescence Microscopy of Styreneâ€Derivatised Bis(thiosemicarbazonato)zinc and â€copper Complexes. European Journal of Inorganic Chemistry, 2008, 2008, 1985-1993.	2.0	29
39	Metal-stabilised diynyl radicals: structure and reactivity of [Mo(Cî€,C–Cî€,CSiMe3)L2(ÎC7H7)]Ë™+ (L2 =) Tj	ETQ ₉₁ 10.	.784314 rg8
40	Molybdenum Complexes of <i>C</i> , <i>C</i> -Bis(ethynyl)carboranes: Design, Synthesis, and Study of a Weakly Coupled Mixed-Valence Compound. Organometallics, 2011, 30, 884-894.	2.3	29
41	Exploiting Nonâ€Innocent Ligands to Prepare Masked Palladium(0) Complexes. Angewandte Chemie - International Edition, 2010, 49, 7040-7044.	13.8	28
42	Mechanistic studies of melanogenesis: the influence of N-substitution on dopamine quinone cyclization. Pigment Cell & Melanoma Research, 2006, 19, 170-178.	3.6	26
43	Effect of ionising radiation on the mechanical and structural properties of 3D printed plastics. Additive Manufacturing, 2020, 31, 100907.	3.0	25
44	A dramatic effect of oxygen on protection of human cells against γâ€radiation by lycopene. FEBS Letters, 2016, 590, 1086-1093.	2.8	23
45	Synthesis, Redox Chemistry, and Electronic Structure of the Butadiynyl and Hexatriynyl Complexes [Mo{(Câ‰jC) _{<i>n</i>} Câ‰jCR}(L ₂)(î+C ₇ H ₇)] ^{<i>z (<i>n</i> = 1, 2; <i>z</i> = 0, 1; R = SiMe₃, H; L₂ = 2,2′-bipyridine,) Tj ETQq1 1 0.2</i>}	:/i>+ 784321\$# rgB	T /Øverlock
46	6322-6335. [Rh ₇ (P <i>i</i> Pr ₃) ₆ H ₁₈][BAr ^F ₄ A Molecular Rh(111) Surface Decorated with 18 Hydrogen Atoms. Angewandte Chemie - International Edition, 2007, 46, 7844-7848.] _{213.8}	sub>: 21
47	On the Causes of Potential Inversion in 1,2,4,5-Tetrakis(amino)benzenes. Journal of Organic Chemistry, 2010, 75, 1168-1178.	3.2	20
48	The Reactive Oxygen Species Singlet Oxygen, Hydroxy Radicals, and the Superoxide Radical Anion—Examples of Their Roles in Biology and Medicine. Oxygen, 2021, 1, 77-95.	5.0	20
49	Carotenoid Radical Anions and Their Protonated Derivatives. Organic Letters, 2006, 8, 4255-4258.	4.6	19
50	Lichens – Photophysical studies of potential new sunscreens. Journal of Photochemistry and Photobiology B: Biology, 2009, 95, 40-45.	3.8	19
51	Gamma irradiation-induced defects in borosilicate glasses for high-level radioactive waste immobilisation. Journal of Nuclear Materials, 2021, 544, 152702.	2.7	19
52	Synthesis, Xâ€ray Crystallography, Spectroelectrochemistry and Computational Studies on Potential Copperâ€Based Radiopharmaceuticals. European Journal of Inorganic Chemistry, 2008, 2008, 3549-3560.	2.0	18
53	Prediction of EPR Spectra of Liquid Crystals with Doped Spin Probes from Fully Atomistic Molecular Dynamics Simulations: Exploring Molecular Order and Dynamics at the Phase Transition. Chemistry - A European Journal, 2010, 16, 11558-11562.	3.3	18
54	Redox Nonâ€Innocence of Thioether Crowns: Spectroelectrochemistry and Electronic Structure of Formal Nickel(III) Complexes of Aza–Thioether Macrocycles. Chemistry - A European Journal, 2011, 17, 10246-10258.	3.3	18

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55	EPR based distance measurement in Cu-porphyrin–DNA. New Journal of Chemistry, 2014, 38, 5254-5259.	2.8	18
56	Carotenoid Radicals and the Interaction of Carotenoids with Active Oxygen Species. , 1999, , 223-234.		17
57	Spectroscopic properties and reactivity of free radical forms of A2E. Free Radical Biology and Medicine, 2005, 38, 1037-1046.	2.9	16
58	Cations Modulate Polysaccharide Structure To Determine FGFâ^'FGFR Signaling: A Comparison of Signaling and Inhibitory Polysaccharide Interactions with FGF-1 in Solution. Biochemistry, 2009, 48, 4772-4779.	2.5	16
59	Redox Non-innocence of Thioether Crowns: Elucidation of the Electronic Structure of the Mononuclear Pd(III) Complexes [Pd([9]aneS ₃) ₂] ³⁺ and [Pd([18]aneS ₆)] ³⁺ . Inorganic Chemistry, 2012, 51, 1450-1461.	4.0	16
60	The sulphate radical is not involved in aqueous radiation oxidation processes. Radiation Physics and Chemistry, 2008, 77, 49-52.	2.8	15
61	Primary Photoprocesses in a Fluoroquinolone Antibiotic Sarafloxacin ^{â€} . Photochemistry and Photobiology, 2009, 85, 886-894.	2.5	15
62	Seeking the mechanism responsible for fluoroquinolone photomutagenicity: a pulse radiolysis, steady-state, and laser flash photolysis study. Free Radical Biology and Medicine, 2014, 67, 417-425.	2.9	15
63	Formation and reactivity of free radicals in 5-hydroxymethyl-2-furaldehyde – the effect on isoprenaline photostability. Journal of Photochemistry and Photobiology B: Biology, 2005, 79, 109-119.	3.8	14
64	The Effect of Gamma Irradiation on the Ion Exchange Properties of Caesium-Selective Ammonium Phosphomolybdate-Polyacrylonitrile (AMP-PAN) Composites under Spent Fuel Recycling Conditions. Separations, 2019, 6, 23.	2.4	14
65	Synthesis, spectroscopy and electronic structure of the vinylidene and alkynyl complexes [W(Cî€CHR)(dppe)(Î-C ₇ H ₇)] ⁺ and [W(Cî€,CR)(dppe)(Î-C ₇ H ₇)] ⁿ⁺ (n = 0 or 1). Dalton Transactions, 2011, 40, 1267-1278.	3.3	13
66	Magnetic properties of a novel family of ferrous cubanes. Chemical Communications, 2012, 48, 2430.	4.1	13
67	Cu(ii)–porphyrin molecular dynamics as seen in a novel EPR/Stochastic Liouville equation study. Physical Chemistry Chemical Physics, 2013, 15, 10930.	2.8	13
68	A mechanistic study of the C–P bond cleavage reaction of 1,2-(PH2)2-C6H4 with nBuLi/Sb(NMe2)3. Dalton Transactions, 2008, , 6454.	3.3	12
69	The Carbonate Radical: Its Reactivity with Oxygen, Ammonia, Amino Acids, and Melanins. Journal of Physical Chemistry A, 2008, 112, 10147-10151.	2.5	12
70	Properties of Carotenoid Radicals and Excited States and Their Potential Role in Biological Systems. , 2009, , 283-307.		12
71	Carotenoid Radicalâ^'Melanin Interactions. Journal of Physical Chemistry B, 2000, 104, 7193-7196.	2.6	11
72	Monomeric Azaheterofullerene Derivatives RC59N: Influence of the R Moiety on Spectroscopic and Photophysical Properties. Chemistry - A European Journal, 2006, 12, 4813-4820.	3.3	11

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73	A Dual Sensor Spin Trap for Use with EPR Spectroscopy. Organic Letters, 2007, 9, 3499-3502.	4.6	11
74	Reduction of oxidized guanosine by dietary carotenoids: A pulse radiolysis study. Archives of Biochemistry and Biophysics, 2010, 504, 100-103.	3.0	11
75	Synthesis, Redox Chemistry, and Electronic Structure of the Alkynyi Cyclopentadienyi Molybdenum Complexes [Mo(C≡CR)(CO)(L ₂)Cp′] ^{<i>n</i>+} (<i>n</i> = 0 or 1; R = Ph or) Tj I	ETQq1 1 0. 2.3	784314 rgE 11
76	Scavenging of Retinoid Cation Radicals by Urate, Trolox, and α-, β-, γ-, and δ-Tocopherols. International Journal of Molecular Sciences, 2019, 20, 2799.	4.1	11
77	Anti- and pro-oxidative mechanisms comparing the macular carotenoids zeaxanthin and lutein with other dietary carotenoids - a singlet oxygen, free-radica I in vitro and ex vivo study. Photochemical and Photobiological Sciences, 2020, 19, 1001-1009.	2.9	11
78	Photophysical studies of six amphiphilic 2:1 cyclodextrin:[60]fullerene derivatives. Chemical Physics, 2006, 325, 397-403.	1.9	10
79	Experimental observation of spin delocalisation onto the aryl-alkynyl ligand in the complexes [Mo(Cî€,CAr)(Ph2PCH2CH2PPh2)(ÎC7H7)]+ (Ar = C6H5, C6H4-4-F; C7H7 = cycloheptatrienyl): an EPR and ENDOR investigation. Dalton Transactions, 2010, 39, 11424.	3.3	10
80	The Effect of Gamma Irradiation on the Physiochemical Properties of Caesium-Selective Ammonium Phosphomolybdate–Polyacrylonitrile (AMP–PAN) Composites. Clean Technologies, 2019, 1, 294-310.	4.2	9
81	Efficiencies of fragmentation of glycosaminoglycan chloramides of the extracellular matrix by oxidizing and reducing radicals: potential site-specific targets in inflammation?. Free Radical Biology and Medicine, 2013, 65, 280-290.	2.9	8
82	Active Intermediates in Copper Nitrite Reductase Reactions Probed by a Cryotrappingâ€Electron Paramagnetic Resonance Approach. Angewandte Chemie - International Edition, 2020, 59, 13936-13940.	13.8	8
83	Photolysis of carotenoids in chloroform: enhanced yields of carotenoid radical cations in the presence of a tryptophan ester. Radiation Physics and Chemistry, 2005, 72, 341-345.	2.8	5
84	Origin of Impurities Formed in the Polyurethane Production Chain. 1. Conditions for Chlorine Transfer from an Aryl Isocyanide Dichloride Byproduct. Industrial & Engineering Chemistry Research, 2012, 51, 2515-2523.	3.7	5
85	An Electron Paramagnetic Resonance (EPR) spectroscopy study on the Î ³ -irradiation sterilization of the pharmaceutical excipient l-histidine: Regeneration of the radicals in solution. International Journal of Pharmaceutics, 2017, 533, 315-319.	5.2	5
86	Single and double reduction of C60 in 2:1 γ-cyclodextrin/[60]fullerene inclusion complexes by cyclodextrin radicals. Chemical Physics, 2008, 354, 174-179.	1.9	4
87	Polymeric seal degradation in nuclear power plants: Effect of gamma radiation on sealing properties. Journal of Applied Polymer Science, 2017, 134, .	2.6	4
88	COVID-19 and the ethnicity link – is there a photochemical link?. Photochemical and Photobiological Sciences, 2021, 20, 183-188.	2.9	4
89	A pulse-radiolysis approach to fast reductive cleavage of a disulfide bond to uncage enzyme activity. Free Radical Biology and Medicine, 2008, 45, 1271-1278.	2.9	3
90	Antimony-modified soda-lime-silica glass: Towards low-cost radiation-resistant materials. Journal of Non-Crystalline Solids, 2022, 585, 121526.	3.1	3

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91	Radiolytic and Photolytic Production of Free Radicals and Reactive Oxygen Species: Interactions with Antioxidants and Biomolecules. , 2013, , 305-330.		2
92	Raman Spectroscopy and Microscopy. , 2016, , .		2
93	Resurgence of a Nation's Radiation Science Driven by Its Nuclear Industry Needs. Applied Sciences (Switzerland), 2021, 11, 11081.	2.5	2
94	Photoreactivity of biologically active compounds. XIX: Excited states and free radicals from the antimalarial drug primaquine. Journal of Photochemistry and Photobiology B: Biology, 2009, 94, 147-157.	3.8	1
95	Photochemistry and photopolymerisation of substituted 2-methylanthraquinones and novel 2-acryloxymethylanthraquinone in radiation curing. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 530-544.	3.9	1
96	In situ monitoring of PVDF ultrasound transducers under gamma irradiation. Nondestructive Testing and Evaluation, 2020, 35, 207-221.	2.1	1
97	β-Carotene: Radical Reactions and Cancer Associations-Leading Down a Rabbit Hole?. Journal of Integrative Oncology, 2018, 07, .	0.3	1