

# Paolo Di Mascio

## List of Publications by Year in descending order

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217  
papers

12,942  
citations

22099

59  
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27345

106  
g-index

239  
all docs

239  
docs citations

239  
times ranked

12982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lycopene as the most efficient biological carotenoid singlet oxygen quencher. Archives of Biochemistry and Biophysics, 1989, 274, 532-538.	1.4	1,975
2	Type I and Type II Photosensitized Oxidation Reactions: Guidelines and Mechanistic Pathways. Photochemistry and Photobiology, 2017, 93, 912-919.	1.3	552
3	Singlet Molecular Oxygen Reactions with Nucleic Acids, Lipids, and Proteins. Chemical Reviews, 2019, 119, 2043-2086.	23.0	404
4	Singlet Oxygen Induces Oxidation of Cellular DNA. Journal of Biological Chemistry, 2000, 275, 40601-40604.	1.6	260
5	Carotenoids, tocopherols and thiols as biological singlet molecular oxygen quenchers. Biochemical Society Transactions, 1990, 18, 1054-1056.	1.6	245
6	Formation and repair of oxidatively generated damage in cellular DNA. Free Radical Biology and Medicine, 2017, 107, 13-34.	1.3	240
7	Oxidative stress in Perna perna and other bivalves as indicators of environmental stress in the Brazilian marine environment: Antioxidants, lipid peroxidation and DNA damage. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 588-600.	0.8	214
8	Novel rhythms of N 1-acetyl-N 2-formyl-5-methoxykynuramine and its precursor melatonin in water hyacinth: importance for phytoremediation. FASEB Journal, 2007, 21, 1724-1729.	0.2	192
9	Oxidative and alkylating damage in DNA. Mutation Research - Reviews in Mutation Research, 2003, 544, 115-127.	2.4	190
10	Singlet Molecular Oxygen Generated from Lipid Hydroperoxides by the Russell Mechanism: Studies Using 18O-Labeled Linoleic Acid Hydroperoxide and Monomol Light Emission Measurements. Journal of the American Chemical Society, 2003, 125, 6172-6179.	6.6	189
11	Oxidative stress in the mussel Mytella guyanensis from polluted mangroves on Santa Catarina Island, Brazil. Marine Pollution Bulletin, 2002, 44, 923-932.	2.3	182
12	Quantification of singlet oxygen generated by thermolysis of 3,3'-(1,4-naphthylene)dipropionate endoperoxide. Monomol and dimol photoemission and the effects of 1,4-diazabicyclo[2.2.2]octane. Journal of the American Chemical Society, 1989, 111, 2909-2914.	6.6	174
13	Sensitized formation of oxidatively generated damage to cellular DNA by UVA radiation. Photochemical and Photobiological Sciences, 2009, 8, 903-911.	1.6	168
14	DNA damage by singlet oxygen and cellular protective mechanisms. Mutation Research - Reviews in Mutation Research, 2012, 751, 15-28.	2.4	158
15	Singlet Oxygen Oxidation of Isolated and Cellular DNA: Product Formation and Mechanistic Insights. Photochemistry and Photobiology, 2006, 82, 1219.	1.3	154
16	Activity of thiols as singlet molecular oxygen quenchers. Journal of Photochemistry and Photobiology B: Biology, 1991, 9, 105-116.	1.7	148
17	Protective effect of phospholipid hydroperoxide glutathione peroxidase (PHGPx) against lipid peroxidation in mussels Perna perna exposed to different metals. Marine Pollution Bulletin, 2004, 49, 386-392.	2.3	148
18	Oxidative stress in digestive gland and gill of the brown mussel (Perna perna) exposed to air and re-submersed. Journal of Experimental Marine Biology and Ecology, 2005, 318, 21-30.	0.7	147

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19	Physical and chemical scavenging of singlet molecular oxygen by tocopherols. Archives of Biochemistry and Biophysics, 1990, 277, 101-108.	1.4	144
20	Singlet molecular oxygen production in the reaction of peroxyxynitrite with hydrogen peroxide. FEBS Letters, 1994, 355, 287-289.	1.3	142
21	Direct Evidence of Singlet Molecular Oxygen [ $O_2(^1\Delta_g)$ ] Production in the Reaction of Linoleic Acid Hydroperoxide with Peroxynitrite. Journal of the American Chemical Society, 2003, 125, 4510-4517.	6.6	138
22	Photosensitized Membrane Permeabilization Requires Contact-Dependent Reactions between Photosensitizer and Lipids. Journal of the American Chemical Society, 2018, 140, 9606-9615.	6.6	133
23	Oxaluric Acid as the Major Product of Singlet Oxygen-Mediated Oxidation of 8-Oxo-7,8-dihydroguanine in DNA. Journal of the American Chemical Society, 2000, 122, 12622-12628.	6.6	127
24	Protective Effect of Lycopene on Lipid Peroxidation and Oxidative DNA Damage in Cell Culture. Archives of Biochemistry and Biophysics, 2000, 383, 56-59.	1.4	126
25	Linoleic acid hydroperoxide reacts with hypochlorous acid, generating peroxy radical intermediates and singlet molecular oxygen. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 293-298.	3.3	120
26	Singlet molecular oxygen generated by biological hydroperoxides. Journal of Photochemistry and Photobiology B: Biology, 2014, 139, 24-33.	1.7	120
27	Spermine and spermidine protection of plasmid DNA against single-strand breaks induced by singlet oxygen.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 11428-11430.	3.3	119
28	Tryptophan Oxidation by Singlet Molecular Oxygen [ $O_2(^1\Delta_g)$ ]: Mechanistic Studies Using $^{18}O$ -Labeled Hydroperoxides, Mass Spectrometry, and Light Emission Measurements. Chemical Research in Toxicology, 2008, 21, 1271-1283.	1.7	119
29	Measurement of melatonin in body fluids: Standards, protocols and procedures. Child's Nervous System, 2011, 27, 879-891.	0.6	111
30	Biological hydroperoxides and singlet molecular oxygen generation. IUBMB Life, 2007, 59, 322-331.	1.5	106
31	Synthesis of a Naphthalene Endoperoxide as a Source of $^{18}O$ -labeled Singlet Oxygen for Mechanistic Studies. Journal of the American Chemical Society, 2000, 122, 10212-10213.	6.6	105
32	pH-dependent Interaction of Cytochrome c with Mitochondrial Mimetic Membranes. Journal of Biological Chemistry, 2005, 280, 34709-34717.	1.6	102
33	Singlet molecular oxygen causes loss of biological activity in plasmid and bacteriophage DNA and induces single-strand breaks. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1989, 1007, 151-157.	2.4	99
34	Characterization of Linoleic Acid Nitration in Human Blood Plasma by Mass Spectrometry. Biochemistry, 2002, 41, 10717-10722.	1.2	96
35	The Arabidopsis bZIP Gene AtbZIP63 Is a Sensitive Integrator of Transient Abscisic Acid and Glucose Signals. Plant Physiology, 2011, 157, 692-705.	2.3	96
36	Lycopene Inhibits DNA Damage and Liver Necrosis in Rats Treated with Ferric Nitrotriacetate. Archives of Biochemistry and Biophysics, 2001, 396, 171-177.	1.4	92

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37	Melanin Photosensitization and the Effect of Visible Light on Epithelial Cells. <i>PLoS ONE</i> , 2014, 9, e113266.	1.1	92
38	Peroxynitrite does not decompose to singlet oxygen ( $^1\Delta_gO_2$ ) and nitroxyl (NO $^-$ ). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 10307-10312.	3.3	87
39	[1] Naphthalene endoperoxides as generators of singlet oxygen in biological media. <i>Methods in Enzymology</i> , 2000, 319, 3-20.	0.4	85
40	Hydroperoxy Fatty Acid Cycling Mediated by Mitochondrial Uncoupling Protein UCP2. <i>Journal of Biological Chemistry</i> , 2004, 279, 53097-53102.	1.6	84
41	Singlet molecular oxygen regulates vascular tone and blood pressure in inflammation. <i>Nature</i> , 2019, 566, 548-552.	13.7	84
42	Inhibition of 5-aminolevulinic acid-induced DNA damage by melatonin, N1-acetyl-N2-formyl-5-methoxykynuramine, quercetin or resveratrol. <i>Journal of Pineal Research</i> , 2005, 38, 107-115.	3.4	83
43	trans,trans-2,4-Decadienal-Induced 1,N2-Etheno-2 $\hat{e}$ -deoxyguanosine Adduct Formation. <i>Chemical Research in Toxicology</i> , 2000, 13, 601-609.	1.7	81
44	Production of the Carbonate Radical Anion during Xanthine Oxidase Turnover in the Presence of Bicarbonate. <i>Journal of Biological Chemistry</i> , 2004, 279, 51836-51843.	1.6	76
45	Mechanism and color modulation of fungal bioluminescence. <i>Science Advances</i> , 2017, 3, e1602847.	4.7	74
46	Oxidation of melatonin by singlet molecular oxygen ( $O_2(^1\Delta_g)$ ) produces N1-acetyl-N2-formyl-5-methoxykynurenine. <i>Journal of Pineal Research</i> , 2003, 35, 131-137.	3.4	73
47	Hydroxyl radicals are involved in the oxidation of isolated and cellular DNA bases by 5-aminolevulinic acid. <i>FEBS Letters</i> , 1998, 428, 93-96.	1.3	72
48	Singlet oxygen-mediated damage to cellular DNA determined by the comet assay associated with DNA repair enzymes. <i>Biological Chemistry</i> , 2004, 385, 17-20.	1.2	72
49	Salinity influences glutathione S-transferase activity and lipid peroxidation responses in the <i>Crassostrea gigas</i> oyster exposed to diesel oil. <i>Science of the Total Environment</i> , 2011, 409, 1976-1983.	3.9	71
50	Singlet Molecular Oxygen Generation by Light-Activated DHN-Melanin of the Fungal Pathogen <i>Mycosphaerella fijiensis</i> in Black Sigatoka Disease of Bananas. <i>PLoS ONE</i> , 2014, 9, e91616.	1.1	71
51	Mechanistic aspects of the oxidation of DNA constituents mediated by singlet molecular oxygen. <i>Archives of Biochemistry and Biophysics</i> , 2004, 423, 23-30.	1.4	70
52	Supramolecular Cationic Tetra-ruthenated Porphyrin Induces Single-Strand Breaks and 8 $\hat{e}$ -Oxo $\hat{e}$ -7,8 $\hat{e}$ -dihydro $\hat{e}$ -2 $\hat{e}$ -deoxyguanosine Formation in DNA in the Presence of Light. <i>Photochemistry and Photobiology</i> , 1996, 63, 272-277.	1.3	69
53	Characterization of $O_2(^1\Delta_g)$ -derived oxidation products of tryptophan: A combination of tandem mass spectrometry analyses and isotopic labeling studies. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 188-197.	1.2	68
54	Lipopeptides Produced by a Soil <i>Bacillus Megaterium</i> Strain. <i>Microbial Ecology</i> , 2009, 57, 367-78.	1.4	68

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55	Increased SOD1 association with chromatin, DNA damage, p53 activation, and apoptosis in a cellular model of SOD1-linked ALS. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 462-471.	1.8	68
56	[18O]-Labeled Singlet Oxygen as a Tool for Mechanistic Studies of 8-Oxo-7,8-Dihydroguanine Oxidative Damage: Detection of Spiroiminodihydantoin, Imidazolone and Oxazolone Derivatives. <i>Biological Chemistry</i> , 2002, 383, 607-17.	1.2	66
57	Cholesteryl nitrolinoleate, a nitrated lipid present in human blood plasma and lipoproteins. <i>Journal of Lipid Research</i> , 2003, 44, 1660-1666.	2.0	63
58	[ <sup>13</sup> C <sub>2</sub> ]- Acetaldehyde Promotes Unequivocal Formation of 1, <i>i&gt;N</i> - <sup>2</sup> -Propano-2- $\epsilon$ -deoxyguanosine in Human Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 9140-9143.	6.6	62
59	Nitrogen acquisition in <i>Agave tequilana</i> from degradation of endophytic bacteria. <i>Scientific Reports</i> , 2014, 4, 6938.	1.6	61
60	Mitochondrial and nuclear DNA damage induced by 5-aminolevulinic acid. <i>Archives of Biochemistry and Biophysics</i> , 2004, 432, 178-187.	1.4	60
61	Generation of Cholesterol Carboxyaldehyde by the Reaction of Singlet Molecular Oxygen [O <sub>2</sub> ( <sup>1</sup> O <sub>2</sub> )] as Well as Ozone with Cholesterol. <i>Chemical Research in Toxicology</i> , 2009, 22, 875-884.	1.7	60
62	Changes in the Spin State and Reactivity of Cytochrome c Induced by Photochemically Generated Singlet Oxygen and Free Radicals. <i>Journal of Biological Chemistry</i> , 2004, 279, 39214-39222.	1.6	59
63	DNA Alkylation by 4,5-Dioxovaleric Acid, the Final Oxidation Product of 5-Aminolevulinic Acid. <i>Chemical Research in Toxicology</i> , 1998, 11, 150-157.	1.7	58
64	Antioxidant activity of prenylated hydroquinone and benzoic acid derivatives from <i>Piper crassinervium</i> Kunth. <i>Phytochemistry</i> , 2006, 67, 1838-1843.	1.4	57
65	Singlet oxygen oxidation of 2- $\epsilon$ -deoxyguanosine. Formation and mechanistic insights. <i>Tetrahedron</i> , 2006, 62, 10709-10715.	1.0	57
66	5-Aminolevulinic acid mediates the in vivo and in vitro formation of 8-hydroxy-2'-deoxyguanosine in DNA. <i>Carcinogenesis</i> , 1994, 15, 2241-2244.	1.3	56
67	Lipid hydroperoxide-induced and hemoglobin-enhanced oxidative damage to colon cancer cells. <i>Free Radical Biology and Medicine</i> , 2011, 51, 503-515.	1.3	56
68	Singlet Oxygen induced mutation spectrum in mammalian cells. <i>Nucleic Acids Research</i> , 1992, 20, 4319-4323.	6.5	53
69	Excited singlet molecular O <sub>2</sub> ( <sup>1</sup> O <sub>2</sub> ) is generated enzymatically from excited carbonyls in the dark. <i>Scientific Reports</i> , 2014, 4, 5938.	1.6	52
70	Genotoxic and epigenotoxic effects in mice exposed to concentrated ambient fine particulate matter (PM <sub>2.5</sub> ) from SAŁo Paulo city, Brazil. <i>Particle and Fibre Toxicology</i> , 2018, 15, 40.	2.8	52
71	<i>Enterobacter cloacae</i> , an Endophyte That Establishes a Nutrient-Transfer Symbiosis With Banana Plants and Protects Against the Black Sigatoka Pathogen. <i>Frontiers in Microbiology</i> , 2019, 10, 804.	1.5	51
72	Peridinin as the Major Biological Carotenoid Quencher of Singlet Oxygen in Marine Algae <i>Gonyaulax polyedra</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 268, 496-500.	1.0	50

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73	Direct evidence of singlet molecular oxygen generation from peroxyxynitrate, a decomposition product of peroxyxynitrite. Dalton Transactions, 2009, , 5720.	1.6	50
74	[40] Assay of lycopene and other carotenoids as singlet oxygen quenchers. Methods in Enzymology, 1992, 213, 429-438.	0.4	48
75	Biflavonoids from Brazilian pine Araucaria angustifolia as potentials protective agents against DNA damage and lipoperoxidation. Phytochemistry, 2005, 66, 2238-2247.	1.4	47
76	Singlet oxygen induced single-strand breaks in plasmid pBR322 DNA: the enhancing effect of thiols. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1991, 1088, 409-412.	2.4	46
77	Novel 1,N6-Etheno-2â€-deoxyadenosine Adducts from Lipid Peroxidation Products. Chemical Research in Toxicology, 2000, 13, 397-405.	1.7	46
78	Development of an On-Line Liquid Chromatography-Electrospray Tandem Mass Spectrometry Assay to Quantitatively Determine 1,N2-Etheno-2â€-deoxyguanosine in DNA. Chemical Research in Toxicology, 2002, 15, 1302-1308.	1.7	46
79	Lipid Peroxidation-Dependent Chemiluminescence from the Cyclization of Alkylperoxyl Radicals to Dioxetane Radical Intermediates. Chemical Research in Toxicology, 1997, 10, 1090-1096.	1.7	45
80	DNA Damage by 5-Aminolevulinic and 4,5-Dioxovaleric Acids in the Presence of Ferritin. Archives of Biochemistry and Biophysics, 2000, 373, 368-374.	1.4	44
81	5-Aminolevulinic acid induces single-strand breaks in plasmid pBR322 DNA in the presence of Fe2+ ions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1994, 1225, 259-263.	1.8	43
82	Ohr plays a central role in bacterial responses against fatty acid hydroperoxides and peroxyxynitrite. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E132-E141.	3.3	43
83	Zinc tetra-ruthenated porphyrin binding and photoinduced oxidation of calf-thymus DNA. Journal of Inorganic Biochemistry, 2000, 78, 269-273.	1.5	42
84	Production of lysozyme and lysozyme-superoxide dismutase dimers bound by a ditryptophan cross-link in carbonate radical-treated lysozyme. Free Radical Biology and Medicine, 2015, 89, 72-82.	1.3	41
85	SINGLET OXYGEN INDUCED DNA DAMAGE AND MUTAGENICITY IN A SINGLE-STRANDED SV40-BASED SHUTTLE VECTOR. Photochemistry and Photobiology, 1992, 55, 39-45.	1.3	40
86	In-vivo electrochemical monitoring of H2O2 production induced by root-inoculated endophytic bacteria in Agave tequilana leaves. Biosensors and Bioelectronics, 2018, 99, 108-114.	5.3	39
87	The Development of a Specific and Sensitive LC-MS-Based Method for the Detection and Quantification of Hydroperoxy- and Hydroxydocosahexaenoic Acids as a Tool for Lipidomic Analysis. PLoS ONE, 2013, 8, e77561.	1.1	38
88	Measurement of Melatonin and its Metabolites: Importance for the Evaluation of Their Biological Roles. Endocrine, 2005, 27, 111-118.	2.2	37
89	Biflavonoids from Araucaria angustifolia protect against DNA UV-induced damage. Phytochemistry, 2009, 70, 615-620.	1.4	37
90	Cross-linking methionine and amine residues with reactive halogen species. Free Radical Biology and Medicine, 2014, 70, 278-287.	1.3	37

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91	Photochemically Generated Stable Cation Radical of Phenothiazine Aggregates in Mildly Acid Buffered Solutions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12257-12265.	1.2	35
92	2 $\alpha$ -Deoxyguanosine, 2 $\alpha$ -Deoxycytidine, and 2 $\alpha$ -Deoxyadenosine Adducts Resulting from the Reaction of Tetrahydrofuran with DNA Bases. <i>Chemical Research in Toxicology</i> , 2006, 19, 927-936.	1.7	35
93	Single-wall carbon nanotubes modified with organic dyes: Synthesis, characterization and potential cytotoxic effects. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 211, 99-107.	2.0	35
94	Novel properties of melanins include promotion of DNA strand breaks, impairment of repair, and reduced ability to damage DNA after quenching of singlet oxygen. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1945-1953.	1.3	35
95	Exercise and $\beta$ -alanine supplementation on carnosine-acrolein adduct in skeletal muscle. <i>Redox Biology</i> , 2018, 18, 222-228.	3.9	35
96	Synthesis of a hydrophilic and non-ionic anthracene derivative, the N,N $\epsilon$ -di-(2,3-dihydroxypropyl)-9,10-anthracenedipropanamide as a chemical trap for singlet molecular oxygen detection in biological systems. <i>Tetrahedron</i> , 2006, 62, 10762-10770.	1.0	34
97	Thymine hydroperoxide as a potential source of singlet molecular oxygen in DNA. <i>Free Radical Biology and Medicine</i> , 2009, 47, 401-409.	1.3	33
98	Cytochrome c-promoted cardiolipin oxidation generates singlet molecular oxygen. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1536-1546.	1.6	32
99	Effects of trace metal and exposure to air on serotonin and dopamine levels in tissues of the mussel <i>Perna perna</i> . <i>Marine Pollution Bulletin</i> , 2003, 46, 1485-1490.	2.3	31
100	Energy Transfer between Singlet ( $^1\text{O}_2$ ) and Triplet ( $^3\text{O}_2$ ) Molecular Oxygen in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2004, 126, 3056-3057.	6.6	30
101	Generation of Singlet Oxygen by the Glyoxal $\epsilon$ -Peroxynitrite System. <i>Journal of the American Chemical Society</i> , 2011, 133, 20761-20768.	6.6	30
102	Are dioxetanes chemiluminescent intermediates in lipoperoxidation?. <i>Free Radical Biology and Medicine</i> , 1992, 12, 471-478.	1.3	29
103	Spiroiminodihydantoin nucleoside formation from 2 $\alpha$ -deoxyguanosine oxidation by [ <sup>18</sup> O $\epsilon$ -labeled] singlet molecular oxygen in aqueous solution. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1326-1332.	0.7	29
104	Singlet oxygen induces oxidation of cellular DNA.. <i>Journal of Biological Chemistry</i> , 2001, 276, 6056.	1.6	29
105	pH-Sensitive Binding of Cytochrome <i>c</i> to the Inner Mitochondrial Membrane. Implications for the Participation of the Protein in Cell Respiration and Apoptosis. <i>Biochemistry</i> , 2009, 48, 8335-8342.	1.2	28
106	Oxida $\epsilon$ o de prote $\epsilon$ nas por oxig $\epsilon$ nio singlete: mecanismos de dano, estrat $\epsilon$ gias para detec $\epsilon$ o e implica $\epsilon$ es biol $\epsilon$ gicas. <i>Quimica Nova</i> , 2006, 29, 563-568.	0.3	27
107	Reciprocal grafting between clones with contrasting drought tolerance suggests a key role of abscisic acid in coffee acclimation to drought stress. <i>Plant Growth Regulation</i> , 2018, 85, 221-229.	1.8	27
108	Peroxidase Activity May Play a Role in the Cytotoxic Effect of Indole Acetic Acid*. <i>Photochemistry and Photobiology</i> , 1997, 65, 338-341.	1.3	26



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109	Synthesis of internal labeled standards of melatonin and its metabolite N1-acetyl-N2-formyl-5-methoxykynuramine for their quantification using an on-line liquid chromatography-electrospray tandem mass spectrometry system. <i>Journal of Pineal Research</i> , 2004, 36, 64-71.	3.4	26
110	Singlet molecular oxygen trapping by the fluorescent probe diethyl-3,3â€²-(9,10-anthracenediyl)bisacrylate synthesized by the Heck reaction. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1546-1555.	1.6	26
111	DNA Damage by 3,6-Dihydropyrazine-2,5-Dipropanoic Acid, the Cyclic Dimerization Product of 5-Aminolevulinic Acid. <i>Biological Chemistry</i> , 2001, 382, 913-8.	1.2	25
112	Ultrasensitive Simultaneous Quantification of 1,â€²N<sup>2</sup>-Etheno-2â€²-deoxyguanosine and 1,â€²N<sup>2</sup>-Propano-2â€²-deoxyguanosine in DNA by an Online Liquid Chromatographyâ€”Electrospray Tandem Mass Spectrometry Assay. <i>Chemical Research in Toxicology</i> , 2010, 23, 1245-1255.	1.7	25
113	Mechanism of dioxindolylalanine formation by singlet molecular oxygen-mediated oxidation of tryptophan residues. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1727-1730.	1.6	25
114	Structural Elucidation of a Carnosine-Acrolein Adduct and its Quantification in Human Urine Samples. <i>Scientific Reports</i> , 2016, 6, 19348.	1.6	25
115	Chromatin associated mechanisms in base excision repair - nucleosome remodeling and DNA transcription, two key players. <i>Free Radical Biology and Medicine</i> , 2017, 107, 159-169.	1.3	24
116	DNA synthesis blocking lesions induced by singlet oxygen are targeted to deoxyguanosines. <i>Nucleic Acids Research</i> , 1992, 20, 2465-2469.	6.5	23
117	Cytotoxicity and mutagenesis induced by singlet oxygen in wild type and DNA repair deficient <i>Escherichia coli</i> strains. <i>DNA Repair</i> , 2002, 1, 1051-1056.	1.3	23
118	Cholesterol Hydroperoxides Generate Singlet Molecular Oxygen [O<sub>2</sub><sup>1</sup>]: Near-IR Emission, <sup>18</sup>O-Labeled Hydroperoxides, and Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2011, 24, 887-895.	1.7	23
119	Dioxygen NIR FT-Emission (1â€²g â€² 3â€²g) and Raman Spectra of 1,4-Dimethylnaphthalene Endoperoxide: A Source of Singlet Molecular Oxygen. <i>Applied Spectroscopy</i> , 1992, 46, 236-239.	1.2	22
120	Formation of 1,N6-Etheno-2â€²-deoxyadenosine Adducts by trans,trans-2,4-Decadienal. <i>Chemical Research in Toxicology</i> , 1998, 11, 1042-1047.	1.7	22
121	DNA damage in digestive gland and mantle tissue of the mussel <i>Perna perna</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2003, 135, 295-303.	1.3	22
122	HDL proteome remodeling associates with COVID-19 severity. <i>Journal of Clinical Lipidology</i> , 2021, 15, 796-804.	0.6	22
123	Estresse oxidativo, lesÃµes no genoma e processos de sinalizaÃ§Ã£o no controle do ciclo celular. <i>Quimica Nova</i> , 2006, 29, 1340-1344.	0.3	21
124	Direct participation of DNA in the formation of singlet oxygen and base damage under UVA irradiation. <i>Free Radical Biology and Medicine</i> , 2017, 108, 86-93.	1.3	21
125	Involvement of <i>Escherichia coli</i> exonuclease III and endonuclease IV in the repair of singlet oxygen-induced DNA damage. <i>Carcinogenesis</i> , 1996, 17, 1183-1185.	1.3	20
126	Direct evidence of singlet molecular oxygen [O<sub>2</sub>(1â€²g)] production in the reaction of acetonitrile with hydrogen peroxide in alkaline solutions. <i>Analytica Chimica Acta</i> , 2003, 482, 99-104.	2.6	20



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127	Induction of 1,N <sup>2</sup> -etheno-2- $\epsilon$ -deoxyguanosine in DNA exposed to $\beta$ -carotene oxidation products. <i>FEBS Letters</i> , 2004, 560, 125-130.	1.3	20
128	Chemical Characterization of Urate Hydroperoxide, A Pro-oxidant Intermediate Generated by Urate Oxidation in Inflammatory and Photoinduced Processes. <i>Chemical Research in Toxicology</i> , 2015, 28, 1556-1566.	1.7	20
129	Nitrogen fertilization and stress factors drive shifts in microbial diversity in soils and plants. <i>Symbiosis</i> , 2021, 84, 379-390.	1.2	20
130	Singlet Oxygen Induces Predominantly G to T Transversions on a Single-Stranded Shuttle Vector Replicated in Monkey Cells. <i>Free Radical Research</i> , 1994, 21, 75-83.	1.5	19
131	Highly Sensitive Fluorescent Method for the Detection of Cholesterol Aldehydes Formed by Ozone and Singlet Molecular Oxygen. <i>Analytical Chemistry</i> , 2010, 82, 6775-6781.	3.2	19
132	Lipid Hydroperoxides as a Source of Singlet Molecular Oxygen. <i>Sub-Cellular Biochemistry</i> , 2014, 77, 3-20.	1.0	19
133	Biological Significance of Active Oxygen Species: In Vitro Studies on Singlet Oxygen-Induced DNA Damage and on the Singlet Oxygen Quenching Ability of Carotenoids, Tocopherols and Thiols. <i>Advances in Experimental Medicine and Biology</i> , 1991, 283, 71-77.	0.8	19
134	DNA repair and sequence context affect 1O <sub>2</sub> -induced mutagenesis in bacteria. <i>Nucleic Acids Research</i> , 2001, 29, 2899-2903.	6.5	18
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