

Andr s H Thomas

List of Publications by Year in descending order

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89
papers

2,623
citations

236925

25
h-index

214800

47
g-index

90
all docs

90
docs citations

90
times ranked

2007
citing authors

#	ARTICLE	IF	CITATIONS
1	Type I and Type II Photosensitized Oxidation Reactions: Guidelines and Mechanistic Pathways. <i>Photochemistry and Photobiology</i> , 2017, 93, 912-919.	2.5	552
2	Photophysics and Photochemistry of Pterins in Aqueous Solution. <i>Accounts of Chemical Research</i> , 2006, 39, 395-402.	15.6	133
3	Fluorescence of pterin, 6-formylpterin, 6-carboxypterin and folic acid in aqueous solution: pH effects. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 421-426.	2.9	128
4	Singlet oxygen ($^1\text{O}_2$) production by pterin derivatives in aqueous solutions. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 245-250.	2.9	88
5	Study of the photolysis of folic acid and 6-formylpterin in acid aqueous solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 135, 147-154.	3.9	85
6	Oxidation of 2'-Deoxyguanosine 5'-Monophosphate Photoinduced by Pterin: Type I versus Type II Mechanism. <i>Journal of the American Chemical Society</i> , 2008, 130, 3001-3011.	13.7	82
7	Photosensitization Reactions of Biomolecules: Definition, Targets and Mechanisms. <i>Photochemistry and Photobiology</i> , 2021, 97, 1456-1483.	2.5	76
8	Tryptophan oxidation photosensitized by pterin. <i>Free Radical Biology and Medicine</i> , 2013, 63, 467-475.	2.9	57
9	Mechanism of photooxidation of folic acid sensitized by unconjugated pterins. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 1604-1612.	2.9	55
10	Photosensitization of 2'-deoxyadenosine-5'-monophosphate by pterin. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2792.	2.8	50
11	Soybean phosphatidylcholine liposomes as model membranes to study lipid peroxidation photoinduced by pterin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 139-145.	2.6	42
12	Photooxidation of Tryptophan and Tyrosine Residues in Human Serum Albumin Sensitized by Pterin: A Model for Globular Protein Photodamage in Skin. <i>Biochemistry</i> , 2016, 55, 4777-4786.	2.5	41
13	Production and quenching of reactive oxygen species by pterin derivatives, an intriguing class of biomolecules. <i>Pure and Applied Chemistry</i> , 2010, 83, 801-811.	1.9	40
14	Photosensitizing properties of biopterin and its photoproducts using 2'-deoxyguanosine 5'-monophosphate as an oxidizable target. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11657.	2.8	39
15	Substituent Effects on the Photophysical Properties of Pterin Derivatives in Acidic and Alkaline Aqueous Solutions. <i>Photochemistry and Photobiology</i> , 2005, 81, 1234.	2.5	37
16	Oxidation of Tyrosine Photoinduced by Pterin in Aqueous Solution. <i>Photochemistry and Photobiology</i> , 2013, 89, 1448-1455.	2.5	35
17	Unraveling the Degradation Mechanism of Purine Nucleotides Photosensitized by Pterins: The Role of Charge Transfer Steps. <i>ChemPhysChem</i> , 2015, 16, 2244-2252.	2.1	35
18	Quenching of the fluorescence of pterin derivatives by anions. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 167.	2.9	34

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19	Study of the photolysis of 6-carboxypterin in acid and alkaline aqueous solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 132, 53-57.	3.9	33
20	Emission properties of dihydropterins in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7419.	2.8	33
21	Electron-transfer processes induced by the triplet state of pterins in aqueous solutions. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1014-1022.	2.9	32
22	Histidine oxidation photosensitized by pterin: pH dependent mechanism. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 153, 483-489.	3.8	30
23	Reactivity of Conjugated and Unconjugated Pterins with Singlet Oxygen ($O_2(^1\Delta_g)$): Physical Quenching and Chemical Reaction. <i>Photochemistry and Photobiology</i> , 2007, 83, 526-534.	2.5	28
24	Quenching of the Fluorescence of Aromatic Pterins by Deoxynucleotides. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1794-1799.	2.5	27
25	Kinetics and equilibrium study of nickel(II) complexation by pterin. <i>International Journal of Chemical Kinetics</i> , 2000, 32, 231-237.	1.6	25
26	Photochemical and photophysical properties of lumazine in aqueous solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 282-286.	3.9	25
27	Photochemistry of dihydrobiopterin in aqueous solution. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 800-810.	2.8	25
28	Photosensitization of peptides and proteins by pterin derivatives. <i>Pteridines</i> , 2017, 28, 105-114.	0.5	24
29	Photooxidation of Pterin in Aqueous Solutions: Biological and Biomedical Implications. <i>Chemistry and Biodiversity</i> , 2004, 1, 1800-1811.	2.1	23
30	Photosensitization of bovine serum albumin by pterin: A mechanistic study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 120, 52-58.	3.8	23
31	Photodynamic inactivation induced by carboxypterin: a novel non-toxic bactericidal strategy against planktonic cells and biofilms of <i>Staphylococcus aureus</i> . <i>Biofouling</i> , 2015, 31, 459-468.	2.2	23
32	Lipophilic Decyl Chain Pterin Conjugates with Sensitizer Properties. <i>Molecular Pharmaceutics</i> , 2018, 15, 798-807.	4.6	23
33	Photo-Oxidation of Unilamellar Vesicles by a Lipophilic Pterin: Deciphering Biomembrane Photodamage. <i>Langmuir</i> , 2018, 34, 15578-15586.	3.5	23
34	Electron Transfer Initiated Reactions Photoinduced by Pterins. <i>Pteridines</i> , 2011, 22, 111-119.	0.5	22
35	New Results on the Photochemistry of Biopterin and Neopterin in Aqueous Solution. <i>Photochemistry and Photobiology</i> , 2009, 85, 365-373.	2.5	21
36	Resveratrol enhancement staphylococcus aureus survival under levofloxacin and photodynamic treatments. <i>International Journal of Antimicrobial Agents</i> , 2018, 51, 255-259.	2.5	21

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37	Photodynamic Effects of Pterin on HeLa Cells. <i>Photochemistry and Photobiology</i> , 2011, 87, 862-866.	2.5	20
38	Degradation of tyrosine and tryptophan residues of peptides by type I photosensitized oxidation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 226-235.	3.8	20
39	Thymidine radical formation via one-electron transfer oxidation photoinduced by pterin: Mechanism and products characterization. <i>Free Radical Biology and Medicine</i> , 2016, 96, 418-431.	2.9	20
40	Synergistic effect of carboxypterin and methylene blue applied to antimicrobial photodynamic therapy against mature biofilm of <i>Klebsiella pneumoniae</i> . <i>Heliyon</i> , 2020, 6, e03522.	3.2	20
41	Predictive modeling of the total deactivation rate constant of singlet oxygen by heterocyclic compounds. <i>Journal of Molecular Graphics and Modelling</i> , 2009, 28, 12-19.	2.4	19
42	Singlet Oxygen ($O_2(^1\Delta_g)$) Quenching by Dihydropterins. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4280-4288.	2.5	18
43	Inactivation of tyrosinase photoinduced by pterin. <i>Biochemical and Biophysical Research Communications</i> , 2012, 424, 568-572.	2.1	18
44	A novel synthetic approach to tyrosine dimers based on pterin photosensitization. <i>Dyes and Pigments</i> , 2017, 147, 67-74.	3.7	18
45	Photochemistry of tyrosine dimer: when an oxidative lesion of proteins is able to photoinduce further damage. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1732-1741.	2.9	18
46	Selective quenching of triplet excited states of pteridines. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1058-1065.	2.9	17
47	Photosensitized oxidation of 2'-deoxyguanosine 5'-monophosphate: mechanism of the competitive reactions and product characterization. <i>New Journal of Chemistry</i> , 2017, 41, 7273-7282.	2.8	17
48	Photochemical Behavior of 6-Methylpterin in Aqueous Solutions: Generation of Reactive Oxygen Species. <i>Photochemistry and Photobiology</i> , 2005, 81, 793.	2.5	17
49	Chemical changes in bovine serum albumin photoinduced by pterin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 141, 262-268.	3.8	15
50	Degradation of α -melanocyte-stimulating hormone photosensitized by pterin. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3877.	2.8	15
51	Quenching of the Singlet and Triplet Excited States of Pterin by Amino Acids. <i>Photochemistry and Photobiology</i> , 2019, 95, 220-226.	2.5	15
52	Photoinactivation of tyrosinase sensitized by folic acid photoproducts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 149, 172-179.	3.8	14
53	A model to understand type I oxidations of biomolecules photosensitized by pterins. <i>Journal of Photochemistry and Photobiology</i> , 2021, 7, 100045.	2.5	14
54	Photoinduced Generation of H_2O_2 and $O_2^{\bullet-}$ by 6-formylpterin in Aqueous Solutions. <i>Pteridines</i> , 2006, 17, 82-89.	0.5	13

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55	Reaction between 7,8-dihydropterins and hydrogen peroxide under physiological conditions. <i>Tetrahedron</i> , 2008, 64, 8692-8699.	1.9	13
56	The photosensitizing activity of lumazine using 2'-deoxyguanosine 5'-monophosphate and HeLa cells as targets. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1539.	2.9	13
57	Oxidation of 2'-Deoxyadenosine 5'-Monophosphate Photoinduced by Lumazine. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10944-10950.	2.5	13
58	A non-singlet oxygen mediated reaction photoinduced by phenalenone, a universal reference for singlet oxygen sensitization. <i>RSC Advances</i> , 2014, 4, 10718.	3.6	13
59	Effect of pterin impurities on the fluorescence and photochemistry of commercial folic acid. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 181, 157-163.	3.8	13
60	Rate constants of quenching of the fluorescence of pterins by the iodide anion in aqueous solution. <i>Chemical Physics Letters</i> , 2012, 542, 62-65.	2.6	11
61	Photochemical formation of a fluorescent thymidine-pterin adduct in DNA. <i>Dyes and Pigments</i> , 2019, 160, 624-632.	3.7	11
62	Chemical Modifications of Globular Proteins Phototriggered by an Endogenous Photosensitizer. <i>Chemical Research in Toxicology</i> , 2019, 32, 2250-2259.	3.3	11
63	Type I Photosensitized Oxidation of Methionine. <i>Photochemistry and Photobiology</i> , 2021, 97, 91-98.	2.5	11
64	Solar radiation exposure of dihydrobiopterin and biopterin in aqueous solution. <i>Solar Energy</i> , 2014, 109, 45-53.	6.1	10
65	Alkane Chain-extended Pterin Through a Pendent Carboxylic Acid Acts as Triple Functioning Fluorophore, ¹ O ₂ Sensitizer and Membrane Binder. <i>Photochemistry and Photobiology</i> , 2019, 95, 1160-1168.	2.5	10
66	Mechanism of electron transfer processes photoinduced by lumazine. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 409-417.	2.9	9
67	Type I Photosensitization of 2'-deoxyadenosine 5'-monophosphate (5'-dAMP) by Biopterin and its Photoproduct Formylpterin. <i>Photochemistry and Photobiology</i> , 2013, 89, 1456-1462.	2.5	9
68	Alkylation of a hydrophilic photosensitizer enhances the contact-dependent photo-induced oxidation of phospholipid membranes. <i>Dyes and Pigments</i> , 2021, 187, 109131.	3.7	9
69	Evidence of the effectiveness of Resveratrol in the prevention of guanine one-electron oxidation: possible benefits in cancer prevention. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16190-16197.	2.8	8
70	Visible-light photochemistry of 6-formyl-7,8-dihydropterin in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 104-110.	3.9	7
71	¹ H NMR characterization of the intermediate formed upon UV-A excitation of biopterin, neopterin and 6-hydroxymethylpterin in O ₂ -free aqueous solutions. <i>Chemical Physics Letters</i> , 2010, 484, 330-332.	2.6	7
72	Clearing up the photochemistry of resveratrol: Effect of the solvent. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 327-331.	3.9	7

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73	Photosensitizing properties of hollow microcapsules built by multilayer self-assembly of poly(allylamine hydrochloride) modified with rose Bengal. <i>RSC Advances</i> , 2019, 9, 19226-19235.	3.6	7
74	Characterization and reactivity of photodimers of dihydroneopterin and dihydrobiopterin. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 979.	2.9	6
75	Kinetic Control in the Regioselective Alkylation of Pterin Sensitizers: A Synthetic, Photochemical, and Theoretical Study. <i>Photochemistry and Photobiology</i> , 2018, 94, 834-844.	2.5	6
76	Photophysical and Photochemical Properties of 3-methylpterin as a New and More Stable Pterin-type Photosensitizer. <i>Photochemistry and Photobiology</i> , 2018, 94, 881-889.	2.5	6
77	S-Chiral Linker Induced U Shape with a Syn-facial Sensitizer and Photocleavable Ethene Group. <i>Photochemistry and Photobiology</i> , 2019, 95, 293-305.	2.5	6
78	Deoxythymidine-Pterin Fluorescent Adduct Formation through a Photosensitized Process. <i>ChemPhysChem</i> , 2018, 19, 300-306.	2.1	5
79	Immobilization of alkyl-pterin photosensitizer on silicon surfaces through in situ S ₂ reaction as suitable approach for photodynamic inactivation of <i>Staphylococcus aureus</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 198, 111456.	5.0	5
80	Photodimerization of 7,8-dihyroneopterin in Aqueous Solution Under UV-A Irradiation. <i>Photochemistry and Photobiology</i> , 2011, 87, 51-55.	2.5	4
81	Mono- and Bis-Alkylated Lumazine Sensitizers: Synthetic, Molecular Orbital Theory, Nucleophilic Index and Photochemical Studies. <i>Photochemistry and Photobiology</i> , 2021, 97, 80-90.	2.5	4
82	Shelter for Biologically Relevant Molecules: Photoprotection and Enhanced Thermal Stability of Folic Acid Loaded in a ZIF-8 MOF Porous Host. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22155-22162.	3.7	3
83	Role of Tryptophan Residues in the Toxicity and Photosensitized Inactivation of <i>Escherichia coli</i> β -Hemolysin. <i>Biochemistry</i> , 2020, 59, 4213-4224.	2.5	2
84	Photosensitized Dimerization of Tyrosine: The Oxygen Paradox. <i>Photochemistry and Photobiology</i> , 2022, 98, 687-695.	2.5	2
85	Pterin-lysine photoadduct: a potential candidate for photoallergy. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 1647-1657.	2.9	2
86	Photochemical Behavior of 6-Methylpterin in Aqueous Solutions: Generation of Reactive Oxygen Species. <i>Photochemistry and Photobiology</i> , 2005, 81, 793-801.	2.5	1
87	Pterin-photosensitization of thymine under anaerobic conditions in the presence of guanine. <i>Free Radical Biology and Medicine</i> , 2021, 174, 321-328.	2.9	1
88	Chemical and photochemical reactivity of 6-hydroxymethyl-7,8-dihydropterin in aqueous solutions. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 2-8.	1.9	0
89	Special Issue Devoted to the XIV ELAFOT Conference (XIV Encuentro Latinoamericano de) Tj ETQq1 1 0.784314,rgBT /Overlock 10	2.5	0