

Richard A Manderville

List of Publications by Citations

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95
papers

3,123
citations

28
h-index

53
g-index

97
ext. papers

3,403
ext. citations

5.4
avg, IF

5.59
L-index

#	Paper	IF	Citations
95	Ochratoxin A: An overview on toxicity and carcinogenicity in animals and humans. <i>Molecular Nutrition and Food Research</i> , 2007 , 51, 61-99	5.9	715
94	An update on direct genotoxicity as a molecular mechanism of ochratoxin a carcinogenicity. <i>Chemical Research in Toxicology</i> , 2012 , 25, 252-62	4	163
93	Structures of covalent adducts between DNA and ochratoxin a: a new factor in debate about genotoxicity and human risk assessment. <i>Chemical Research in Toxicology</i> , 2010 , 23, 89-98	4	111
92	Evidence for covalent DNA adduction by ochratoxin A following chronic exposure to rat and subacute exposure to pig. <i>Chemical Research in Toxicology</i> , 2004 , 17, 1289-96	4	107
91	Postsynthetic guanine arylation of DNA by Suzuki-Miyaura cross-coupling. <i>Journal of the American Chemical Society</i> , 2011 , 133, 42-50	16.4	89
90	Ochratoxin a forms a carbon-bonded c8-deoxyguanosine nucleoside adduct: implications for c8 reactivity by a phenolic radical. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3716-7	16.4	88
89	Toxic mechanisms of microcystins in mammals. <i>Toxicology Research</i> , 2017 , 6, 391-405	2.6	84
88	Oxidation of ochratoxin A by an Fe-porphyrin system: model for enzymatic activation and DNA cleavage. <i>Chemical Research in Toxicology</i> , 1999 , 12, 1066-76	4	84
87	Biomarkers for phenol carcinogen exposure act as pH-sensing fluorescent probes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1894-5	16.4	82
86	DNA Binding by 4-Methoxypyrrrolic Natural Products. Preference for Intercalation at AT Sites by Tambjamine E and Prodigiosin. <i>Journal of Organic Chemistry</i> , 1999 , 64, 6861-6869	4.2	76
85	Detection and characterization of a glutathione conjugate of ochratoxin A. <i>Chemical Research in Toxicology</i> , 2002 , 15, 1581-8	4	67
84	Role of phenoxyl radicals in DNA adduction by chlorophenol xenobiotics following peroxidase activation. <i>Chemical Research in Toxicology</i> , 2005 , 18, 771-9	4	64
83	Genotoxicity of the hydroquinone metabolite of ochratoxin A: structure-activity relationships for covalent DNA adduction. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1241-7	4	64
82	An oxygen-bonded c8-deoxyguanosine nucleoside adduct of pentachlorophenol by peroxidase activation: evidence for ambident c8 reactivity by phenoxyl radicals. <i>Chemical Research in Toxicology</i> , 2003 , 16, 817-21	4	62
81	A case for the genotoxicity of ochratoxin A by bioactivation and covalent DNA adduction. <i>Chemical Research in Toxicology</i> , 2005 , 18, 1091-7	4	57
80	Electrochemical oxidation of ochratoxin A: correlation with 4-chlorophenol. <i>Chemical Research in Toxicology</i> , 2001 , 14, 1266-72	4	44
79	Structure-activity relationships imply different mechanisms of action for ochratoxin A-mediated cytotoxicity and genotoxicity. <i>Chemical Research in Toxicology</i> , 2012 , 25, 181-90	4	38

78	Computational and experimental evidence for the structural preference of phenolic C-8 purine adducts. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 3742-53	2.8	37
77	Molecular aspects of the transport and toxicity of ochratoxin a. <i>Accounts of Chemical Research</i> , 2004 , 37, 874-81	24.3	36
76	Conformational flexibility of c8-phenoxy-2Rdeoxyguanosine nucleotide adducts. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4373-82	3.4	34
75	The pH-Dependent Primary Photoreactions of Ochratoxin A. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 11369-11376	3.4	34
74	Structural and biochemical impact of C8-aryl-guanine adducts within the NarI recognition DNA sequence: influence of aryl ring size on targeted and semi-targeted mutagenicity. <i>Nucleic Acids Research</i> , 2014 , 42, 13405-21	20.1	33
73	Ambident reactivity of phenoxy radicals in DNA adduction. <i>Canadian Journal of Chemistry</i> , 2005 , 83, 1260-1267	3.3	33
72	C8-heteroaryl-2Rdeoxyguanosine adducts as conformational fluorescent probes in the NarI recognition sequence. <i>Journal of Organic Chemistry</i> , 2012 , 77, 10498-508	4.2	32
71	A Simple Molecular Rotor for Defining Nucleoside Environment within a DNA Aptamer-Protein Complex. <i>ACS Chemical Biology</i> , 2016 , 11, 2576-82	4.9	31
70	Structure-activity relationships for the fluorescence of ochratoxin A: insight for detection of ochratoxin A metabolites. <i>Analytica Chimica Acta</i> , 2008 , 617, 153-61	6.6	31
69	Glutathione conjugates of ochratoxin A as biomarkers of exposure. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2012 , 63, 417-27	1.7	30
68	Binding of Ochratoxin A Derivatives to Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6644-6647	3.4	30
67	Concerning the hydrolytic stability of 8-aryl-2Rdeoxyguanosine nucleoside adducts: implications for abasic site formation at physiological pH. <i>Journal of Organic Chemistry</i> , 2009 , 74, 5793-802	4.2	28
66	Electronic tuning of fluorescent 8-aryl-guanine probes for monitoring DNA duplex-quadruplex exchange. <i>Chemical Science</i> , 2014 , 5, 788-796	9.4	27
65	Conformational properties of a phototautomerizable nucleoside biomarker for phenolic carcinogen exposure. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 6224-30	2.8	26
64	C-Linked 8-aryl guanine nucleobase adducts: biological outcomes and utility as fluorescent probes. <i>Chemical Science</i> , 2016 , 7, 3482-3493	9.4	25
63	DNA Aptamer-Target Binding Motif Revealed Using a Fluorescent Guanine Probe: Implications for Food Toxin Detection. <i>ACS Omega</i> , 2017 , 2, 4955-4963	3.9	24
62	Structural and energetic characterization of the major DNA adduct formed from the food mutagen ochratoxin A in the NarI hotspot sequence: influence of adduct ionization on the conformational preferences and implications for the NER propensity. <i>Nucleic Acids Research</i> , 2014 , 42, 11831-45	20.1	24
61	Dual fluorescent deoxyguanosine mimics for FRET detection of G-quadruplex folding. <i>Chemical Communications</i> , 2015 , 51, 16829-31	5.8	22

60	Ligand-Induced G-Quadruplex Polymorphism: A DNA Nanodevice for Label-Free Aptasensor Platforms. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14288-14297	16.4	21
59	Positional impact of fluorescently modified G-tetrads within polymorphic human telomeric G-quadruplex structures. <i>ACS Chemical Biology</i> , 2015 , 10, 1311-8	4.9	21
58	Modeling the conformational preference of the carbon-bonded covalent adduct formed upon exposure of 2Rdeoxyguanosine to ochratoxin A. <i>Chemical Research in Toxicology</i> , 2013 , 26, 803-16	4	21
57	Harnessing G-tetrad scaffolds within G-quadruplex forming aptamers for fluorescence detection strategies. <i>Chemical Communications</i> , 2014 , 50, 3097-9	5.8	20
56	Structural influence of C8-phenoxy-guanine in the NarI recognition DNA sequence. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1397-408	4	18
55	Oxidation of a biomarker for phenol carcinogen exposure: expanding the redox chemistry of 2Rdeoxyguanosine. <i>Organic Letters</i> , 2008 , 10, 1839-42	6.2	18
54	Enhancing Bulge Stabilization through Linear Extension of C8-Aryl-Guanine Adducts to Promote Polymerase Blockage or Strand Realignment to Produce a C:C Mismatch. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1647-58	4	17
53	Fluorescent properties and conformational preferences of C-linked phenolic-DNA adducts. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1694-709	4	17
52	Mutagenicity of ochratoxin A and its hydroquinone metabolite in the SupF gene of the mutation reporter plasmid Ps189. <i>Toxins</i> , 2012 , 4, 267-80	4.9	17
51	Intrinsic "Turn-On" Aptasensor Detection of Ochratoxin A Using Energy-Transfer Fluorescence. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 2249-2255	5.7	17
50	Photophysical properties of pushpull 8-aryl-deoxyguanosine probes within duplex and G-quadruplex structures. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2915-2924	7.1	16
49	Effect of Watson-Crick and Hoogsteen base pairing on the conformational stability of C8-phenoxy-2Rdeoxyguanosine adducts. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12995-3004	3.4	16
48	Ochratoxin A acts as a photoactivatable DNA cleaving agent. <i>Chemical Communications</i> , 1998 , 647-648	5.8	16
47	On the role of copper and iron in DNA cleavage by ochratoxin A. Structure-activity relationships in metal binding and copper-mediated DNA cleavage. <i>Canadian Journal of Chemistry</i> , 1998 , 76, 907-918	0.9	16
46	Ambident nucleophilic reactivity. 9. Regioselectivity in the reaction of ambident phenoxide ion and methoxide and hydroxide ions with 2,4,6-trinitroanisole. Kinetic and thermodynamic control. <i>Journal of the American Chemical Society</i> , 1992 , 114, 5610-5619	16.4	16
45	Formation of 2Rdeoxyguanosine-carbon 8-bound ochratoxin A adduct in rat kidney DNA. <i>Molecular Nutrition and Food Research</i> , 2009 , 53, 154-5; author reply 156-7	5.9	15
44	Optimization of fluorescent 8-heteroaryl-guanine probes for monitoring protein-mediated duplex -q G-quadruplex exchange. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 4409-19	3.9	14
43	Mutagenicity of Ochratoxin A: Role for a Carbon-Linked C8-Deoxyguanosine Adduct?. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 7097-7105	5.7	13

42	An indole-linked C8-deoxyguanosine nucleoside acts as a fluorescent reporter of Watson-Crick versus Hoogsteen base pairing. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 1565-71	3.9	13
41	Chlorine functionalization of a model phenolic C8-guanine adduct increases conformational rigidity and blocks extension by a Y-family DNA polymerase. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1346-56	4	12
40	Reaction pathways for ambident aryloxy O- and C-nucleophiles in S _N Ar displacement versus Meisenheimer complex formation with picryl halides. Stereoelectronic effects on regioselectivity. <i>Journal of Physical Organic Chemistry</i> , 1996 , 9, 515-528	2.1	12
39	Manipulation of a DNA aptamer-protein binding site through arylation of internal guanine residues. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 3831-3840	3.9	11
38	Fluorescent C-linked C8-aryl-guanine probe for distinguishing syn from anti structures in duplex DNA. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1271-82	4	11
37	Chapter 4 Genotoxicity of Chlorophenols and Ochratoxin A. <i>Advances in Molecular Toxicology</i> , 2006 , 1, 85-138	0.4	11
36	Inversion of kinetic and thermodynamic preferences in Meisenheimer complex formation: regioselectivity in the reaction of 2,4,6-trimethylphenoxide ion with 2,4,6-trinitroanisole and the importance of stereoelectronic factors. <i>Journal of the American Chemical Society</i> , 1993 , 115, 8985-8989	16.4	11
35	Influence of the linkage type and functional groups in the carcinogenic moiety on the conformational preferences of damaged DNA: structural and energetic characterization of carbon- and oxygen-linked C(8)-phenolic-guanine adducts. <i>Chemical Research in Toxicology</i> , 2015 , 28, 782-96	4	10
34	Photochemically catalyzed reaction of ochratoxin A with D- and L-cysteine. <i>Photochemistry and Photobiology</i> , 2002 , 76, 649-56	3.6	10
33	Influence of chlorine substitution on the hydrolytic stability of biaryl ether nucleoside adducts produced by phenolic toxins. <i>Journal of Organic Chemistry</i> , 2013 , 78, 7176-85	4.2	9
32	Application of a fluorescent C-linked phenolic purine adduct for selective N7-metalation of DNA. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6158-65	3.4	9
31	Tautomerization in gas-phase ion chemistry of isomeric C-8 deoxyguanosine adducts from phenol-induced DNA damage. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 41-9	2.2	9
30	A coumarin-hemicyanine hybrid as a ratiometric fluorescent sensor of microenvironment proticity. <i>Chemical Communications</i> , 2019 , 55, 3540-3543	5.8	9
29	Acceptor Influence on Thiolate Sensing by Hemicyanine Dyes. <i>Journal of Organic Chemistry</i> , 2019 , 84, 2261-2268	4.2	8
28	DNA Damage by Phenoxy Radicals		8
27	Stoichiometric preference in copper-promoted oxidative DNA damage by ochratoxin A. <i>Journal of Inorganic Biochemistry</i> , 2003 , 95, 87-96	4.2	8
26	Ratiometric fluorescent sensing of the parallel G-quadruplex produced by PS2.M: implications for K detection. <i>Analyst, The</i> , 2020 , 145, 1288-1293	5	8
25	An internal charge transfer-DNA platform for fluorescence sensing of divalent metal ions. <i>Chemical Communications</i> , 2016 , 52, 9586-8	5.8	8

24	A 5RBODIPY End-label for Monitoring DNA Duplex-Quadruplex Exchange. <i>Scientific Reports</i> , 2018 , 8, 16874	4.9	8
23	Utility of 5RO-2,7-dimethylpixyl for solid-phase synthesis of oligonucleotides containing acid-sensitive 8-aryl-guanine adducts. <i>Journal of Organic Chemistry</i> , 2014 , 79, 692-9	4.2	7
22	Response to Comments of Peter G. Mantle. <i>Toxins</i> , 2010 , 2, 2337-2339	4.9	7
21	Impact of the Position of the Chemically Modified 5-Furyl-2RDeoxyuridine Nucleoside on the Thrombin DNA Aptamer-Protein Complex: Structural Insights into Aptamer Response from MD Simulations. <i>Molecules</i> , 2019 , 24,	4.8	6
20	Molecular Modeling of the Major DNA Adduct Formed from Food Mutagen Ochratoxin A in NarI Two-Base Deletion Duplexes: Impact of Sequence Context and Adduct Ionization on Conformational Preference and Mutagenicity. <i>Chemical Research in Toxicology</i> , 2017 , 30, 1582-1591	4	6
19	Understanding the Mutagenicity of O-Linked and C-Linked Guanine DNA Adducts: A Combined Experimental and Computational Approach. <i>Chemical Research in Toxicology</i> , 2017 , 30, 177-188	4	6
18	Molecular Dynamics Simulations of Mismatched DNA Duplexes Associated with the Major C-Linked 2RDeoxyguanosine Adduct of the Food Mutagen Ochratoxin A: Influence of Opposing Base, Adduct Ionization State, and Sequence on the Structure of Damaged DNA. <i>Chemical Research in Toxicology</i> , 2018 , 31, 712-720	4	5
17	Lighting Up the Thrombin-Binding Aptamer G-Quadruplex with an Internal Cyanine-Indole-Quinolinium Nucleobase Surrogate. Direct Fluorescent Intensity Readout for Thrombin Binding without Topology Switching. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2596-2606	6.3	5
16	Conformational Preference and Fluorescence Response of a C-Linked C8-Biphenyl-Guanine Lesion in the NarI Mutational Hotspot: Evidence for Enhanced Syn Adduct Formation. <i>Chemical Research in Toxicology</i> , 2018 , 31, 37-47	4	5
15	Aptamer-induced thermofluorimetric protein stabilization and G-quadruplex nucleic acid staining by SYPRO orange dye. <i>New Journal of Chemistry</i> , 2019 , 43, 4994-4997	3.6	4
14	Stepwise Formation of a Nonsymmetric Dinuclear Copper Complex of Ochratoxin A. <i>Inorganic Chemistry</i> , 1998 , 37, 6385-6388	5.1	4
13	Hemicyanine-linked pyrimidine mimics as solvatochromic fluorophores with visible excitation wavelengths. <i>Tetrahedron Letters</i> , 2018 , 59, 3699-3702	2	4
12	Molecular Dynamics Study of One-Base Deletion Duplexes Containing the Major DNA Adduct Formed by Ochratoxin A: Effects of Sequence Context and Adduct Ionization State on Lesion Site Structure and Mutagenicity. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6980-6989	3.4	3
11	Structural and biological impact of radical addition reactions with DNA nucleobases. <i>Advances in Physical Organic Chemistry</i> , 2009 , 43, 177-218	0.3	3
10	Temperature Sensing of Thiolate Addition by Phenolate Merocyanine Dyes: Importance of the Quinone Methide Resonance Structure. <i>Journal of Organic Chemistry</i> , 2021 , 86, 1583-1590	4.2	3
9	Chlorine substitution promotes phenyl radical loss from C8-phenoxy-2Rdeoxyguanosine adducts: implications for biomarker identification from chlorophenol exposure. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 81-7	2.2	2
8	Hydroxyl radical-induced oxidation of a phenolic C-linked 2Rdeoxyguanosine adduct yields a reactive catechol. <i>Chemical Research in Toxicology</i> , 2012 , 25, 315-25	4	2
7	Screening Internal Donor-Acceptor Biaryl Nucleobase Surrogates for Turn-On Fluorescence Affords an Aniline-Carboxythiophene Probe for Protein Detection by G-Quadruplex DNA. <i>Bioconjugate Chemistry</i> , 2021 , 32, 1791-1801	6.3	2

6	Visible Fluorescent Light-up Probe for DNA Three-Way Junctions Provides Host-Guest Biosensing Applications.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6732-6741	4.1	2
5	Approaches to the compositional analysis of DNA. <i>Methods in Molecular Biology</i> , 2009 , 502, 11-7	1.4	1
4	Structure of an Unusual Tetracyclic Deoxyguanosine Adduct: Implications for Frameshift Mutagenicity of -Cyano Nitroanilines. <i>Chemical Research in Toxicology</i> , 2020 , 33, 584-593	4	1
3	On-Strand Knoevenagel Insertion of a Hemicyanine Molecular Rotor Loop Residue for Turn-On Fluorescence Detection of Pb-Induced G-Quadruplex Rigidity. <i>Bioconjugate Chemistry</i> , 2021 , 32, 2224-2232	6.3	0
2	Adduct Fluorescence as a Tool to Decipher Sequence Impact on Frameshift Mutations Mediated by a C-Linked C8-Biphenyl-Guanine Lesion. <i>Chemical Research in Toxicology</i> , 2019 , 32, 784-791	4	
1	Photochemically Catalyzed Reaction of Ochratoxin A with d- and l-cysteine. <i>Photochemistry and Photobiology</i> , 2007 , 76, 649-656	3.6	