

Gunnar Boysen

List of Publications by Year in descending order

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95
papers

2,813
citations

147726

31
h-index

189801

50
g-index

101
all docs

101
docs citations

101
times ranked

3593
citing authors

#	ARTICLE	IF	CITATIONS
1	The formation and biological significance of N7-guanine adducts. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 678, 76-94.	0.9	179
2	Biomarkers in Toxicology and Risk Assessment: Informing Critical Dose-Response Relationships. <i>Chemical Research in Toxicology</i> , 2008, 21, 253-265.	1.7	172
3	Analysis of DNA and protein adducts of benzo[a]pyrene in human tissues using structure-specific methods. <i>Mutation Research - Reviews in Mutation Research</i> , 2003, 543, 17-30.	2.4	154
4	Decoding the epitranscriptional landscape from native RNA sequences. <i>Nucleic Acids Research</i> , 2021, 49, e7-e7.	6.5	149
5	Tandem mass spectrometry measurements of creatinine in mouse plasma and urine for determining glomerular filtration rate. <i>Kidney International</i> , 2007, 71, 266-271.	2.6	129
6	Glutamine drives glutathione synthesis and contributes to radiation sensitivity of A549 and H460 lung cancer cell lines. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 836-843.	1.1	101
7	Phenotypic Anchoring of Acetaminophen-Induced Oxidative Stress with Gene Expression Profiles in Rat Liver. <i>Toxicological Sciences</i> , 2006, 93, 213-222.	1.4	78
8	Glutaminase inhibitor CB-839 increases radiation sensitivity of lung tumor cells and human lung tumor xenografts in mice. <i>International Journal of Radiation Biology</i> , 2019, 95, 436-442.	1.0	77
9	PARP1 Is Up-Regulated in Non-small Cell Lung Cancer Tissues in the Presence of the Cyanobacterial Toxin Microcystin. <i>Frontiers in Microbiology</i> , 2018, 9, 1757.	1.5	76
10	Mass spectrometric analysis of biomarkers and dilution markers in exhaled breath condensate reveals elevated purines in asthma and cystic fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 296, L987-L993.	1.3	73
11	NMR Solution Structure of an Oxaliplatin 1,2-d(GG) Intrastrand Cross-link in a DNA Dodecamer Duplex. <i>Journal of Molecular Biology</i> , 2004, 341, 1251-1269.	2.0	65
12	Analysis of DNA methylation in single circulating tumor cells. <i>Oncogene</i> , 2017, 36, 3223-3231.	2.6	62
13	Solution Structures of a DNA Dodecamer Duplex with and without a Cisplatin 1,2-d(GG) Intrastrand Cross-Link: Comparison with the Same DNA Duplex Containing an Oxaliplatin 1,2-d(GG) Intrastrand Cross-Link. <i>Biochemistry</i> , 2007, 46, 6477-6487.	1.2	57
14	Development of an immuno tandem mass spectrometry (iMALDI) assay for EGFR diagnosis. <i>Proteomics - Clinical Applications</i> , 2007, 1, 1651-1659.	0.8	56
15	Analysis of Diepoxide-Specific Cyclic N-Terminal Globin Adducts in Mice and Rats after Inhalation Exposure to 1,3-Butadiene. <i>Cancer Research</i> , 2004, 64, 8517-8520.	0.4	50
16	1,3-Butadiene: Biomarkers and application to risk assessment. <i>Chemico-Biological Interactions</i> , 2011, 192, 150-154.	1.7	47
17	Use of Electronic Nicotine Delivery Systems (ENDS) by pregnant women I: Risk of small-for-gestational-age birth. <i>Tobacco Induced Diseases</i> , 2019, 17, 44.	0.3	46
18	Molecular epidemiological studies in 1,3-butadiene exposed Czech workers: Female-male comparisons. <i>Chemico-Biological Interactions</i> , 2007, 166, 63-77.	1.7	45

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19	Effects of benzyl isothiocyanate and 2-phenethyl isothiocyanate on benzo[a]pyrene and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone metabolism in F-344 rats. <i>Carcinogenesis</i> , 2003, 24, 517-525.	1.3	44
20	Effects of benzyl isothiocyanate and phenethyl isothiocyanate on DNA adduct formation by a mixture of benzo[a]pyrene and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone in A/J mouse lung. <i>Carcinogenesis</i> , 2002, 23, 1433-1439.	1.3	42
21	Low Utilization of Circulating Glucose after Food Withdrawal in Snell Dwarf Mice. <i>Journal of Biological Chemistry</i> , 2007, 282, 35069-35077.	1.6	41
22	A mass spectrometric method to simultaneously measure a biomarker and dilution marker in exhaled breath condensate. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 701-705.	0.7	41
23	Novel multi-mode ultra performance liquid chromatography-tandem mass spectrometry assay for profiling enantiomeric hydroxywarfarins and warfarin in human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 1056-1062.	1.2	41
24	Neuroendocrine inhibition of glucose production and resistance to cancer in dwarf mice. <i>Experimental Gerontology</i> , 2009, 44, 26-33.	1.2	40
25	Analysis of 8-oxo-7,8-dihydro-2-deoxyguanosine by ultra high pressure liquid chromatography-heat assisted electrospray ionization-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 375-380.	1.2	40
26	Liquid chromatography electrospray ionization tandem mass spectrometry analysis method for simultaneous detection of trichloroacetic acid, dichloroacetic acid, S-(1,2-dichlorovinyl)glutathione and S-(1,2-dichlorovinyl)-L-cysteine. <i>Toxicology</i> , 2009, 262, 230-238.	2.0	38
27	N-terminal globin adducts as biomarkers for formation of butadiene derived epoxides. <i>Chemico-Biological Interactions</i> , 2007, 166, 84-92.	1.7	36
28	Formaldehyde-Induced Histone Modifications in Vitro. <i>Chemical Research in Toxicology</i> , 2008, 21, 1586-1593.	1.7	36
29	Metabolism of R- and S-Warfarin by CYP2C19 into Four Hydroxywarfarins. <i>Drug Metabolism Letters</i> , 2013, 6, 157-164.	0.5	36
30	Future directions in butadiene risk assessment and the role of cross-species internal dosimetry. <i>Chemico-Biological Interactions</i> , 2007, 166, 78-83.	1.7	34
31	Development of an Ultraperformance Liquid Chromatography/Mass Spectrometry Method To Quantify Cisplatin 1,2 Intrastrand Guanine-Guanine Adducts. <i>Chemical Research in Toxicology</i> , 2009, 22, 905-912.	1.7	32
32	Elevated tissue factor expression contributes to exacerbated diabetic nephropathy in mice lacking eNOS fed a high fat diet. <i>Journal of Thrombosis and Haemostasis</i> , 2010, 8, 2122-2132.	1.9	31
33	Iminohydroxyantoin Lesion Induced in DNA by Peracids and Other Epoxidizing Oxidants. <i>Journal of the American Chemical Society</i> , 2009, 131, 6114-6123.	6.6	29
34	Exposure-Response of 1,2:3,4-Diepoxybutane-Specific N-Terminal Valine Adducts in Mice and Rats after Inhalation Exposure to 1,3-Butadiene. <i>Toxicological Sciences</i> , 2010, 115, 322-329.	1.4	26
35	Accurate quantitation of standard peptides used for quantitative proteomics. <i>Proteomics</i> , 2009, 9, 3939-3944.	1.3	25
36	Formation of 1,2:3,4-Diepoxybutane-Specific Hemoglobin Adducts in 1,3-Butadiene Exposed Workers. <i>Toxicological Sciences</i> , 2012, 125, 30-40.	1.4	25

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37	Potential Role of <i>UGT1A4</i> Promoter SNPs in Anastrozole Pharmacogenomics. <i>Drug Metabolism and Disposition</i> , 2013, 41, 870-877.	1.7	25
38	Urinary Excretion of 3-Hydroxyisovaleric Acid and 3-Hydroxyisovaleryl Carnitine Increases in Response to a Leucine Challenge in Marginally Biotin-Deficient Humans. <i>Journal of Nutrition</i> , 2011, 141, 1925-1930.	1.3	24
39	The Glutathione Conundrum: Stoichiometric Disconnect between Its Formation and Oxidative Stress. <i>Chemical Research in Toxicology</i> , 2017, 30, 1113-1116.	1.7	24
40	Use of electronic nicotine delivery systems by pregnant women II: Hair biomarkers for exposures to nicotine and tobacco-specific nitrosamines. <i>Tobacco Induced Diseases</i> , 2019, 17, 50.	0.3	21
41	Measurement of 3-hydroxyisovaleric acid in urine from marginally biotin-deficient humans by UPLC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2805-2810.	1.9	20
42	A 2-Iminohydantoin from the Oxidation of Guanine. <i>Chemical Research in Toxicology</i> , 2006, 19, 506-510.	1.7	19
43	Age-, gender-, and species-dependent mutagenicity in T cells of mice and rats exposed by inhalation to 1,3-butadiene. <i>Chemico-Biological Interactions</i> , 2007, 166, 121-131.	1.7	19
44	A Putative "Pre-Nervous" Endocannabinoid System in Early Echinoderm Development. <i>Developmental Neuroscience</i> , 2010, 32, 1-18.	1.0	19
45	Flanking Bases Influence the Nature of DNA Distortion by Platinum 1,2-Intrastrand (GG) Cross-Links. <i>PLoS ONE</i> , 2011, 6, e23582.	1.1	19
46	CYP2E1 Metabolism of Styrene Involves Allostery. <i>Drug Metabolism and Disposition</i> , 2012, 40, 1976-1983.	1.7	19
47	Understanding the importance of low-molecular weight (ethylene oxide and propylene oxide induced) DNA adducts and mutations in risk assessment: Insights from 15 years of research and collaborative discussions. <i>Environmental and Molecular Mutagenesis</i> , 2019, 60, 100-121.	0.9	19
48	Comparison of three oxidative stress biomarkers in a sample of healthy adults. <i>Biomarkers</i> , 2009, 14, 587-595.	0.9	18
49	1,3-Butadiene-induced mitochondrial dysfunction is correlated with mitochondrial CYP2E1 activity in Collaborative Cross mice. <i>Toxicology</i> , 2017, 378, 114-124.	2.0	18
50	LC/MS/MS Method for the Quantitation of trans-2-Hexenal-Derived Exocyclic 1,N2-Propanodeoxyguanosine in DNA. <i>Chemical Research in Toxicology</i> , 2006, 19, 563-570.	1.7	17
51	Profiling of ecdysteroids in complex biological samples using liquid chromatography/ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 185-192.	0.7	17
52	Identification of covalent modifications in P450 2E1 by 1,2-epoxy-3-butene in vitro. <i>Chemico-Biological Interactions</i> , 2007, 166, 170-175.	1.7	17
53	Lamisil (terbinafine) toxicity: Determining pathways to bioactivation through computational and experimental approaches. <i>Biochemical Pharmacology</i> , 2018, 156, 10-21.	2.0	17
54	Contribution of Three CYP3A Isoforms to Metabolism of R- and S-Warfarin. <i>Drug Metabolism Letters</i> , 2010, 4, 213-219.	0.5	16

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55	Exposure profiling of reactive compounds in complex mixtures. <i>Toxicology</i> , 2013, 313, 145-150.	2.0	14
56	Detection and Discrimination of DNA Adducts Differing in Size, Regiochemistry, and Functional Group by Nanopore Sequencing. <i>Chemical Research in Toxicology</i> , 2020, 33, 2944-2952.	1.7	14
57	Injury to hypothalamic Sim1 neurons is a common feature of obesity by exposure to high-fat diet in male and female mice. <i>Journal of Neurochemistry</i> , 2019, 149, 73-97.	2.1	13
58	CYP2C19 and 3A4 Dominate Metabolic Clearance and Bioactivation of Terbinafine Based on Computational and Experimental Approaches. <i>Chemical Research in Toxicology</i> , 2019, 32, 1151-1164.	1.7	12
59	Delivery of phosphatidylethanolamine blunts stress in hepatoma cells exposed to elevated palmitate by targeting the endoplasmic reticulum. <i>Cell Death Discovery</i> , 2020, 6, 8.	2.0	11
60	Cooperative effects for CYP2E1 differ between styrene and its metabolites. <i>Xenobiotica</i> , 2013, 43, 755-764.	0.5	10
61	Effects of GSTT1 Genotype on the Detoxification of 1,3-Butadiene Derived Diepoxide and Formation of Promutagenic DNA-DNA Cross-Links in Human Hapmap Cell Lines. <i>Chemical Research in Toxicology</i> , 2021, 34, 119-131.	1.7	10
62	Multiple UDP-glucuronosyltransferases in human liver microsomes glucuronidate both R- and S-7-hydroxywarfarin into two metabolites. <i>Archives of Biochemistry and Biophysics</i> , 2014, 564, 244-253.	1.4	8
63	Quantitative analysis of N-terminal valine peptide adducts specific for 1,2-epoxy-3-butene. <i>Chemico-Biological Interactions</i> , 2007, 166, 219-225.	1.7	7
64	Identification and Characterization of 2-Deoxyadenosine Adducts Formed by Isoprene Monoepoxides <i>in Vitro</i> . <i>Chemical Research in Toxicology</i> , 2011, 24, 1048-1061.	1.7	7
65	Marginal Biotin Deficiency Can Be Induced Experimentally in Humans Using a Cost-Effective Outpatient Design. <i>Journal of Nutrition</i> , 2012, 142, 22-26.	1.3	7
66	Measurement of Acylcarnitine Substrate to Product Ratios Specific to Biotin-Dependent Carboxylases Offers a Combination of Indicators of Biotin Status in Humans. <i>Journal of Nutrition</i> , 2012, 142, 1621-1625.	1.3	7
67	Inhibitory potency of 4-carbon alkanes and alkenes toward CYP2E1 activity. <i>Toxicology</i> , 2014, 318, 51-58.	2.0	7
68	A simplified method for detection of N-terminal valine adducts in patients receiving treosulfan. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1635-1642.	0.7	7
69	Significance of Multiple Bioactivation Pathways for Meclofenamate as Revealed through Modeling and Reaction Kinetics. <i>Drug Metabolism and Disposition</i> , 2021, 49, 133-141.	1.7	7
70	Diagnosis of lung tumor types based on metabolomic profiles in lymph node aspirates. <i>Cancer Treatment and Research Communications</i> , 2018, 14, 1-6.	0.7	5
71	Impacts of diphenylamine NSAID halogenation on bioactivation risks. <i>Toxicology</i> , 2021, 458, 152832.	2.0	5
72	CYP2C9 and 3A4 play opposing roles in bioactivation and detoxification of diphenylamine NSAIDs. <i>Biochemical Pharmacology</i> , 2021, 194, 114824.	2.0	5

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73	Differences in butadiene adduct formation between rats and mice not due to selective inhibition of CYP2E1 by butadiene metabolites. <i>Toxicology Letters</i> , 2013, 223, 221-227.	0.4	4
74	Novel isomeric metabolite profiles correlate with warfarin metabolism phenotype during maintenance dosing in a pilot study of 29 patients. <i>Blood Coagulation and Fibrinolysis</i> , 2018, 29, 602-612.	0.5	4
75	Lung metabolome of 1,3-butadiene exposed Collaborative Cross mice reflects metabolic phenotype of human lung cancer. <i>Toxicology</i> , 2021, 463, 152987.	2.0	4
76	Current and Future Methodology for Quantitation and Site-Specific Mapping the Location of DNA Adducts. <i>Toxics</i> , 2022, 10, 45.	1.6	4
77	Characterization of population variability of 1,3-butadiene derived protein adducts in humans and mice. <i>Regulatory Toxicology and Pharmacology</i> , 2022, 132, 105171.	1.3	4
78	In HepG2 Cells, Coexisting Carnitine Deficiency Masks Important Indicators of Marginal Biotin Deficiency. <i>Journal of Nutrition</i> , 2015, 145, 32-40.	1.3	3
79	Bioactivation of Isoxazole-Containing Bromodomain and Extra-Terminal Domain (BET) Inhibitors. <i>Metabolites</i> , 2021, 11, 390.	1.3	3
80	Significance of Competing Metabolic Pathways for 5F-APINACA Based on Quantitative Kinetics. <i>Molecules</i> , 2020, 25, 4820.	1.7	2
81	Nanopore Sequencing for Detection and Characterization of Phosphorothioate Modifications in Native DNA Sequences. <i>Frontiers in Microbiology</i> , 2022, 13, 871937.	1.5	2
82	Abstract 1298: The effect of adipocyte-derived factors on lung cells: Exploring the protective nature of excess weight on lung cancer risk. , 2015, , .		1
83	Abstract 547: Diagnosis of lung tumor types based on metabolomic profiles in lymph node aspirates. , 2015, , .		1
84	Abstract 1041: Glutamine drives glutathione synthesis and contributes to radiation sensitivity of A549 and H460 lung cancer cell lines. <i>Cancer Research</i> , 2016, 76, 1041-1041.	0.4	1
85	DEBâ€FAPyâ€dG Adducts of 1,3â€Butadiene: Synthesis, Structural Characterization, and Formation in 1,2,3,4â€Diepoxybutane Treated DNA**. <i>Chemistry - A European Journal</i> , 2021, , .	1.7	1
86	Erratum to â€œNovel multi-mode ultra performance liquid chromatographyâ€tandem mass spectrometry assay for profiling enantiomeric hydroxywarfarins and warfarin in human plasmaâ€•[J. <i>Chromatogr. B</i> 879 (2011) 1056â€1062]. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 919-920, 61.	1.2	0
87	Response to Interpretation of Mass Spectral Data for the Cisplatin 1,2 Intrastrand Guanine-Guanine Adduct. <i>Chemical Research in Toxicology</i> , 2018, 31, 1108-1108.	1.7	0
88	Structural Variations among Marketed Diphenylamine NSAIDs Determine Preference and Efficiency for Four Possible Bioactivation Pathways. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
89	Abstract B85: Comparison of three oxidative stress biomarkers in a sample of healthy adults. , 2008, , .		0
90	Comparison of three oxidative stress biomarkers in a sample of healthy adults. <i>Biomarkers</i> , 2009, 00, 090910005919032-9.	0.9	0

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91	Abstract 3236: Molecular characterization of lung tumors based on metabolomic profiling.. , 2013, , .		0
92	Warfarin Metabolite Profiles Reveal the Importance of Factors on Patient Doseâ€Responses to Anticoagulant Therapy. FASEB Journal, 2015, 29, 716.14.	0.2	0
93	Abstract 747: Glutamine, glutaminase and $\hat{3}$ -glutamyl-transferase activities are essential for lung tumorigenesis. , 2015, , .		0
94	Identifying Targets for Therapy in High Risk t(4;14) Myeloma Using Multi-Level Molecular and Phenotypic Analysis of Isogenic MMSET and MMSET Knock out Cell Lines. Blood, 2015, 126, 1792-1792.	0.6	0
95	Metabolomic Changes in Mediastinal Lymph Node Samples Positive for Small Cell Lung Cancer.. Journal of Clinical Oncology, 2016, 34, e23183-e23183.	0.8	0