

Steven R Tannenbaum

List of Publications by Year in descending order

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82
papers

7,137
citations

66343

42
h-index

66911

78
g-index

82
all docs

82
docs citations

82
times ranked

7519
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive nitrogen species in the chemical biology of inflammation. <i>Archives of Biochemistry and Biophysics</i> , 2004, 423, 12-22.	3.0	540
2	Protein-retention expansion microscopy of cells and tissues labeled using standard fluorescent proteins and antibodies. <i>Nature Biotechnology</i> , 2016, 34, 987-992.	17.5	510
3	The chemistry of DNA damage from nitric oxide and peroxynitrite. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1999, 424, 37-49.	1.0	488
4	Interconnected Microphysiological Systems for Quantitative Biology and Pharmacology Studies. <i>Scientific Reports</i> , 2018, 8, 4530.	3.3	341
5	Genetically based N-acetyltransferase metabolic polymorphism and low-level environmental exposure to carcinogens. <i>Nature</i> , 1994, 369, 154-156.	27.8	256
6	Nitric Oxide Induces Oxidative Damage in Addition to Deamination in Macrophage DNA. <i>Chemical Research in Toxicology</i> , 1995, 8, 473-477.	3.3	252
7	DNA Damage by Nitric Oxide. <i>Chemical Research in Toxicology</i> , 1996, 9, 821-827.	3.3	246
8	Nitromation of amines by stimulated macrophages. <i>Carcinogenesis</i> , 1987, 8, 955-958.	2.8	225
9	Infection-induced colitis in mice causes dynamic and tissue-specific changes in stress response and DNA damage leading to colon cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1820-9.	7.1	209
10	The Hydantoin Lesions Formed from Oxidation of 7,8-Dihydro-8-oxoguanine Are Potent Sources of Replication Errors in Vivo. <i>Biochemistry</i> , 2003, 42, 9257-9262.	2.5	207
11	Quantitation of 8-Oxoguanine and Strand Breaks Produced by Four Oxidizing Agents. <i>Chemical Research in Toxicology</i> , 1997, 10, 386-392.	3.3	173
12	Peroxynitrite-induced oxidation and nitration products of guanine and 8-oxoguanine: Structures and mechanisms of product formation. <i>Nitric Oxide - Biology and Chemistry</i> , 2006, 14, 109-121.	2.7	173
13	Nitric Oxide-induced Deamination of Cytosine and Guanine in Deoxynucleosides and Oligonucleotides. <i>Journal of Biological Chemistry</i> , 1998, 273, 12689-12695.	3.4	166
14	DNA Damage in Deoxynucleosides and Oligonucleotides Treated with Peroxynitrite. <i>Chemical Research in Toxicology</i> , 1999, 12, 513-520.	3.3	146
15	Liver tissue engineering in the evaluation of drug safety. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2009, 5, 1159-1174.	3.3	143
16	Oxidation of 7,8-Dihydro-8-oxoguanine Affords Lesions That Are Potent Sources of Replication Errors in Vivo. <i>Biochemistry</i> , 2002, 41, 914-921.	2.5	140
17	Kinetics of N-Nitrosation in Oxygenated Nitric Oxide Solutions at Physiological pH: Role of Nitrous Anhydride and Effects of Phosphate and Chloride. <i>Journal of the American Chemical Society</i> , 1995, 117, 3933-3939.	13.7	137
18	Spiroiminodihydantoin Is the Major Product of the 8-Oxo-7,8-dihydroguanosine Reaction with Peroxynitrite in the Presence of Thiols and Guanosine Photooxidation by Methylene Blue. <i>Organic Letters</i> , 2001, 3, 963-966.	4.6	131

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19	Use of ascorbic acid to inhibit nitrosation: kinetic and mass transfer considerations for an in vitro system. <i>Carcinogenesis</i> , 1988, 9, 365-372.	2.8	130
20	Kinetics of S-Nitrosation of Thiols in Nitric Oxide Solutions. <i>Chemical Research in Toxicology</i> , 1996, 9, 988-993.	3.3	120
21	Lipid peroxidation dominates the chemistry of DNA adduct formation in a mouse model of inflammation. <i>Carcinogenesis</i> , 2007, 28, 1807-1813.	2.8	112
22	Peroxynitrite-Induced Reactions of Synthetic Oligonucleotides Containing 8-Oxoguanine. <i>Chemical Research in Toxicology</i> , 1999, 12, 459-466.	3.3	104
23	Bicarbonate Inhibits N-Nitrosation in Oxygenated Nitric Oxide Solutions. <i>Journal of Biological Chemistry</i> , 1996, 271, 25859-25863.	3.4	95
24	Mechanical Injury and Cytokines Cause Loss of Cartilage Integrity and Upregulate Proteins Associated with Catabolism, Immunity, Inflammation, and Repair. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 1475-1489.	3.8	90
25	Metabolomics Investigation Reveals Metabolite Mediators Associated with Acute Lung Injury and Repair in a Murine Model of Influenza Pneumonia. <i>Scientific Reports</i> , 2016, 6, 26076.	3.3	90
26	Peroxynitrite-induced DNA damage in the supF gene: correlation with the mutational spectrum. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 447, 287-303.	1.0	84
27	Shank3 mutation in a mouse model of autism leads to changes in the S-nitroso-proteome and affects key proteins involved in vesicle release and synaptic function. <i>Molecular Psychiatry</i> , 2020, 25, 1835-1848.	7.9	82
28	Anti-malarial drug artesunate ameliorates oxidative lung damage in experimental allergic asthma. <i>Free Radical Biology and Medicine</i> , 2012, 53, 498-507.	2.9	79
29	Spiroiminodihydantoin and Guanidinohydantoin Are the Dominant Products of 8-Oxoguanosine Oxidation at Low Fluxes of Peroxynitrite: Mechanistic Studies with 18O. <i>Chemical Research in Toxicology</i> , 2004, 17, 1510-1519.	3.3	77
30	Metabolite Profiling and Pharmacokinetic Evaluation of Hydrocortisone in a Perfused Three-Dimensional Human Liver Bioreactor. <i>Drug Metabolism and Disposition</i> , 2015, 43, 1091-1099.	3.3	76
31	S-nitrosation of proteins relevant to Alzheimer's disease during early stages of neurodegeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4152-4157.	7.1	76
32	Protein Adducts as Biomarkers of Human Carcinogen Exposure. <i>Drug Metabolism Reviews</i> , 1994, 26, 111-124.	3.6	75
33	Serum Metabolomics Reveals Serotonin as a Predictor of Severe Dengue in the Early Phase of Dengue Fever. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004607.	3.0	69
34	Site-specific and redox-controlled S-nitrosation of thioredoxin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E600-6.	7.1	63
35	Quantitation of Four Guanine Oxidation Products from Reaction of DNA with Varying Doses of Peroxynitrite. <i>Chemical Research in Toxicology</i> , 2005, 18, 1849-1857.	3.3	59
36	Protein tyrosine nitration and peroxynitrite. <i>FASEB Journal</i> , 2002, 16, 1144-1144.	0.5	58

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37	A Novel Nitroimidazole Compound Formed during the Reaction of Peroxynitrite with 2- β ,3- β ,5- β -Tri-O-Acetyl-Guanosine. <i>Journal of the American Chemical Society</i> , 2001, 123, 12147-12151.	13.7	57
38	Regulation and Specificity of S-Nitrosylation and Denitrosylation. <i>ACS Chemical Biology</i> , 2006, 1, 615-618.	3.4	57
39	Comparative Analysis of Four Oxidized Guanine Lesions from Reactions of DNA with Peroxynitrite, Singlet Oxygen, and β -Radiation. <i>Chemical Research in Toxicology</i> , 2013, 26, 195-202.	3.3	57
40	Mechanism-Based Triarylphosphine-Ester Probes for Capture of Endogenous RSNOs. <i>Journal of the American Chemical Society</i> , 2013, 135, 7693-7704.	13.7	56
41	Integrated Assessment of Diclofenac Biotransformation, Pharmacokinetics, and Omics-Based Toxicity in a Three-Dimensional Human Liver-Immunocompetent Coculture System. <i>Drug Metabolism and Disposition</i> , 2017, 45, 855-866.	3.3	56
42	Peroxynitrite-Induced Reactions of Synthetic Oligo 2- β -Deoxynucleotides and DNA Containing Guanine: β Formation and Stability of a 5-Guanidino-4-nitroimidazole Lesion. <i>Biochemistry</i> , 2002, 41, 7508-7518.	2.5	51
43	Urea Lesion Formation in DNA as a Consequence of 7,8-Dihydro-8-oxoguanine Oxidation and Hydrolysis Provides a Potent Source of Point Mutations. <i>Chemical Research in Toxicology</i> , 2005, 18, 12-18.	3.3	42
44	Nitric oxide-induced mutations in the HPRT gene of human lymphoblastoid TK6 cells and in <i>Salmonella typhimurium</i> . <i>Environmental and Molecular Mutagenesis</i> , 2000, 35, 39-47.	2.2	40
45	A Novel Nitration Product Formed during the Reaction of Peroxynitrite with 2- β ,3- β ,5- β -Tri-O-acetyl-7,8-dihydro-8-oxoguanosine: β -Nitro- β -[1-(2,3,5-Tri-O-acetyl- β -d-erythro-pentofuranosyl)-2,4-dioxoimidazolidin-5-ylidene]guanidine. <i>Chemical Research in Toxicology</i> , 2000, 13, 390-396.		39
46	Cytotoxic and Pathogenic Properties of <i>Klebsiella oxytoca</i> Isolated from Laboratory Animals. <i>PLoS ONE</i> , 2014, 9, e100542.	2.5	39
47	Peroxynitrite Reacts with 8-Nitropurines to Yield 8-Oxopurines. <i>Chemical Research in Toxicology</i> , 2002, 15, 7-14.	3.3	38
48	Nitric Oxide-Induced Interstrand Cross-Links in DNA. <i>Chemical Research in Toxicology</i> , 2003, 16, 571-574.	3.3	38
49	Quantification of DNA strand breaks and abasic sites by oxime derivatization and accelerator mass spectrometry: Application to β -radiation and peroxynitrite. <i>Analytical Biochemistry</i> , 2005, 343, 84-92.	2.4	37
50	S-nitrosylation of E3 ubiquitin-protein ligase RNF213 alters non-canonical Wnt/Ca ²⁺ signaling in the P301S mouse model of tauopathy. <i>Translational Psychiatry</i> , 2019, 9, 44.	4.8	37
51	Comparative Plasma Proteome Analysis of Lymphoma-Bearing SJL Mice. <i>Journal of Proteome Research</i> , 2005, 4, 1814-1825.	3.7	36
52	DNA Damage and Cytotoxicity Caused by Nitric Oxide. <i>ACS Symposium Series</i> , 1994, , 120-135.	0.5	33
53	Molecular Analysis of Serum and Bronchoalveolar Lavage in a Mouse Model of Influenza Reveals Markers of Disease Severity That Can Be Clinically Useful in Humans. <i>PLoS ONE</i> , 2014, 9, e86912.	2.5	32
54	Analysis of an Integrated Human Multiorgan Microphysiological System for Combined Tolcapone Metabolism and Brain Metabolomics. <i>Analytical Chemistry</i> , 2019, 91, 8667-8675.	6.5	30

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55	Membrane mass spectrometer inlet for quantitation of nitric oxide. <i>Biological Mass Spectrometry</i> , 1993, 22, 45-52.	0.5	26
56	Untargeted Proteomics and Systems-Based Mechanistic Investigation of Artesunate in Human Bronchial Epithelial Cells. <i>Chemical Research in Toxicology</i> , 2015, 28, 1903-1913.	3.3	26
57	Comparative Time-Dependent Analysis of Potential Inflammation Biomarkers in Lymphoma-Bearing SJL Mice. <i>Journal of Proteome Research</i> , 2007, 6, 1735-1744.	3.7	21
58	Biological role of glutathione in nitric oxide-induced toxicity in cell culture and animal models. <i>Free Radical Biology and Medicine</i> , 2005, 39, 1489-1498.	2.9	20
59	Monitoring in Vivo Metabolism and Elimination of the Endogenous DNA Adduct, M1dG {3-(2-Deoxy- β -D-erythro-pentofuranosyl)pyrimido[1,2- β]purin-10(3H)-one}, by Accelerator Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2008, 21, 1290-1294.	3.3	20
60	Protein Transnitrosylation Signaling Networks Contribute to Inflammaging and Neurodegenerative Disorders. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 531-550.	5.4	19
61	Proteins Modified by the Lipid Peroxidation Aldehyde 9,12-Dioxo-10(E)-dodecenoic Acid in MCF7 Breast Cancer Cells. <i>Chemical Research in Toxicology</i> , 2010, 23, 557-567.	3.3	18
62	In Situ Analysis of 8-Oxo-7,8-dihydro-2 β -deoxyguanosine Oxidation Reveals Sequence- and Agent-Specific Damage Spectra. <i>Journal of the American Chemical Society</i> , 2012, 134, 18053-18064.	13.7	18
63	Nitric oxide induced S-nitrosation causes base excision repair imbalance. <i>DNA Repair</i> , 2018, 68, 25-33.	2.8	17
64	Low Doses of Arsenic in a Mouse Model of Human Exposure and in Neuronal Culture Lead to S-Nitrosylation of Synaptic Proteins and Apoptosis via Nitric Oxide. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3948.	4.1	16
65	Intracellular Generation of ROS by 3,5-Dimethylaminophenol: Persistence, Cellular Response, and Impact of Molecular Toxicity. <i>Toxicological Sciences</i> , 2014, 141, 300-313.	3.1	15
66	Cytoplasmic and nuclear toxicity of 3,5-dimethylaminophenol and potential protection by selenocompounds. <i>Food and Chemical Toxicology</i> , 2014, 72, 98-110.	3.6	15
67	Chemoproteomics of matrix metalloproteases in a model of cartilage degeneration suggests functional biomarkers associated with posttraumatic osteoarthritis. <i>Journal of Biological Chemistry</i> , 2018, 293, 11459-11469.	3.4	14
68	Mass Spectrometric Identification of 4-Hydroxy-2,5-dioxoimidazolidine-4-carboxylic Acid during Oxidation of 8-Oxoguanosine by Peroxynitrite and KHSO ₅ /CoCl ₂ . <i>Chemical Research in Toxicology</i> , 2004, 17, 1501-1509.	3.3	13
69	Magnetic silica nanoparticles for use in matrix-assisted laser desorption ionization mass spectrometry of labile biomolecules such as oligosaccharides, amino acids, peptides and nucleosides. <i>Mikrochimica Acta</i> , 2019, 186, 104.	5.0	13
70	Controlled S-nitrosation. , 2005, 1, 126-127.		12
71	Automated Online Solid-Phase Derivatization for Sensitive Quantification of Endogenous S-Nitrosoglutathione and Rapid Capture of Other Low-Molecular-Mass S-Nitrosothiols. <i>Analytical Chemistry</i> , 2018, 90, 1967-1975.	6.5	12
72	Multi-Omics Characterization of Inflammatory Bowel Disease-Induced Hyperplasia/Dysplasia in the Rag2 Δ Mouse Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 364.	4.1	8

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73	Detection and identification of carcinogen-peptide adducts by nanoelectrospray tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1998, 9, 202-207.	2.8	7
74	Antioxidants and selenocompounds inhibit 3,5-dimethylaminophenol toxicity to human urothelial cells. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , 2019, 70, 18-29.	0.7	7
75	Insulin Regulates Cleavage of Procaspase-9 via Binding of X Chromosome-Linked Inhibitor of Apoptosis Protein in HT-29 Cells. <i>Cancer Research</i> , 2004, 64, 9070-9075.	0.9	6
76	Glucocorticoid Clearance and Metabolite Profiling in an In Vitro Human Airway Epithelium Lung Model. <i>Drug Metabolism and Disposition</i> , 2016, 44, 220-226.	3.3	6
77	FLUORESCENCE LINE-NARROWING STUDIES OF ANTIBODY-BENZO[a]PYRENE TETROL COMPLEXES. <i>Photochemistry and Photobiology</i> , 1993, 58, 637-642.	2.5	4
78	Bioactivation of Cyclopenta- and Cyclohexa-Fused Polycyclic Aromatic Hydrocarbons via the Formation of Benzylic Sulfuric Acid Esters. <i>Polycyclic Aromatic Compounds</i> , 1994, 7, 83-90.	2.6	4
79	Hydroxyphenylation of Histone Lysines: Post-translational Modification by Quinone Imines. <i>ACS Chemical Biology</i> , 2016, 11, 1230-1237.	3.4	3
80	Response to Dr. O'Neill. <i>Environmental and Molecular Mutagenesis</i> , 2000, 36, 337-338.	2.2	0
81	Synthesis of 3,7,8- ¹⁵ N ₃ -N ¹ -(?-D-erythro-pentofuranosyl)-5-guanidinohydantoin. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2003, 46, 1269-1277.	1.0	0
82	Contributions - C: Carcinogenic Factors: Endogenous. , 2006, , 228-255.		0