Terrance J Kavanagh

List of Publications by Year
in descending order

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75 papers	4,037 citations	159585 30 h-index	118850 62 g-index
77 all docs	77 docs citations	77 times ranked	6714 citing authors

#	Article	IF	Citations
1	Persistence of improved glucose homeostasis in Gclm null mice with age and cadmium treatment. Redox Biology, 2022, 49, 102213.	9.0	9
2	Longitudinal measures of phthalate exposure and asthma exacerbation in a rural agricultural cohort of Latino children in Yakima Valley, Washington. International Journal of Hygiene and Environmental Health, 2022, 243, 113954.	4.3	4
3	The effects of gene Ã— environment interactions on silver nanoparticle toxicity in the respiratory system: An adverse outcome pathway. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1708.	6.1	1
4	Domestic cats as environmental lead sentinels in low-income populations: a One Health pilot study sampling the fur of animals presented to a high-volume spay/neuter clinic. Environmental Science and Pollution Research, 2021, 28, 57925-57938.	5.3	6
5	Neonatal Exposure to BPA, BDE-99, and PCB Produces Persistent Changes in Hepatic Transcriptome Associated With Gut Dysbiosis in Adult Mouse Livers. Toxicological Sciences, 2021, 184, 83-103.	3.1	10
6	Elamipretide (SS-31) treatment attenuates age-associated post-translational modifications of heart proteins. GeroScience, 2021, 43, 2395-2412.	4.6	17
7	Benzalkonium Chloride Disinfectants Induce Apoptosis, Inhibit Proliferation, and Activate the Integrated Stress Response in a 3-D <i>in Vitro</i> Model of Neurodevelopment. Chemical Research in Toxicology, 2021, 34, 1265-1274.	3.3	6
8	The Effects of Genotype Ã— Phenotype Interactions on Transcriptional Response to Silver Nanoparticle Toxicity in Organotypic Cultures of Murine Tracheal Epithelial Cells. Toxicological Sciences, 2020, 173, 131-143.	3.1	4
9	CRISPR-Generated Nrf2a Loss- and Gain-of-Function Mutants Facilitate Mechanistic Analysis of Chemical Oxidative Stress-Mediated Toxicity in Zebrafish. Chemical Research in Toxicology, 2020, 33, 426-435.	3.3	8
10	Toward Less Hazardous Industrial Compounds: Coupling Quantum Mechanical Computations, Biomarker Responses, and Behavioral Profiles To Identify Bioactivity of SN2 Electrophiles in Alternative Vertebrate Models. Chemical Research in Toxicology, 2020, 33, 367-380.	3.3	8
11	The effects of genotypeâ€‰Ã—â€‰phenotype interactions on silver nanoparticle toxicity in organotypic cultures of murine tracheal epithelial cells. Nanotoxicology, 2020, 14, 908-928.	3.0	1
12	Carbonyl Reductase 1 Plays a Significant Role in Converting Doxorubicin to Cardiotoxic Doxorubicinol in Mouse Liver, but the Majority of the Doxorubicinol-Forming Activity Remains Unidentified. Drug Metabolism and Disposition, 2020, 48, 187-197.	3.3	12
13	Vitamin C is a source of oxoaldehyde and glycative stress in ageâ€related cataract and neurodegenerative diseases. Aging Cell, 2020, 19, e13176.	6.7	12
14	Silver nanoparticles alter epithelial basement membrane integrity, cell adhesion molecule expression, and TGF-Î²1 secretion. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102070.	3.3	10
15	Quantum dots and mouse strain influence house dust mite-induced allergic airway disease. Toxicology and Applied Pharmacology, 2019, 368, 55-62.	2.8	13
16	The Effects of Gene Ã— Environment Interactions on Silver Nanoparticle Toxicity in the Respiratory System. Chemical Research in Toxicology, 2019, 32, 952-968.	3.3	5
17	Kinetics of Glutathione Depletion and Antioxidant Gene Expression as Indicators of Chemical Modes of Action Assessed <i>in Vitro</i> in Mouse Hepatocytes with Enhanced Glutathione Synthesis. Chemical Research in Toxicology, 2019, 32, 421-436.	3.3	8
18	Improving mitochondrial function with SS-31 reverses age-related redox stress and improves exercise tolerance in aged mice. Free Radical Biology and Medicine, 2019, 134, 268-281.	2.9	101

#	ARTICLE	IF	CITATIONS
19	Neonatal Oral Exposure to Environmental Chemicals Produces Persistent Dysbiosis Corresponding to Hepatic Epigenetic Reprogramming in Adult Mice. FASEB Journal, 2019, 33, lb23.	0.5	0
20	Using primary organotypic mouse midbrain cultures to examine developmental neurotoxicity of silver nanoparticles across two genetic strains. Toxicology and Applied Pharmacology, 2018, 354, 215-224.	2.8	14
21	In vitro to in vivo benchmark dose comparisons to inform risk assessment of quantum dot nanomaterials. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1507.	6.1	14
22	The safer chemical design game. Gamification of green chemistry and safer chemical design concepts for high school and undergraduate students. Green Chemistry Letters and Reviews, 2018, 11, 103-110.	4.7	32
23	The Molecular Design Research Network. Toxicological Sciences, 2018, 161, 241-248.	3.1	17
24	Quantum dot induced acute changes in lung mechanics are mouse strain dependent. Inhalation Toxicology, 2018, 30, 397-403.	1.6	12
25	Comparative behavioral toxicology with two common larval fish models: Exploring relationships among modes of action and locomotor responses. Science of the Total Environment, 2018, 640-641, 1587-1600.	8.0	49
26	The Role of MicroRNAs in Environmental Risk Factors, Noise-Induced Hearing Loss, and Mental Stress. Antioxidants and Redox Signaling, 2018, 28, 773-796.	5.4	55
27	Characterization of rat or human hepatocytes cultured in microphysiological systems (MPS) to identify hepatotoxicity. Toxicology in Vitro, 2017, 40, 170-183.	2.4	34
28	Reduced Glutathione Level Promotes Epithelial-Mesenchymal Transition in Lens Epithelial Cells via a Wnt/Î²-Cateninâ€“Mediated Pathway. American Journal of Pathology, 2017, 187, 2399-2412.	3.8	38
29	Genetic determinants of susceptibility to silver nanoparticleâ€induced acute lung inflammation in mice. FASEB Journal, 2017, 31, 4600-4611.	0.5	28
30	Toward the Design of Less Hazardous Chemicals: Exploring Comparative Oxidative Stress in Two Common Animal Models. Chemical Research in Toxicology, 2017, 30, 893-904.	3.3	26
31	Stromelysin-2 (MMP-10) facilitates clearance and moderates inflammation and cell death following lung exposure to long multiwalled carbon nanotubes. International Journal of Nanomedicine, 2017, Volume 12, 1019-1031.	6.7	6
32	Glutathione as a Biomarker in Parkinsonâ€™s Disease: Associations with Aging and Disease Severity. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-6.	4.0	51
33	The pulmonary inflammatory response to multiwalled carbon nanotubes is influenced by gender and glutathione synthesis. Redox Biology, 2016, 9, 264-275.	9.0	12
34	Current Status and Future Challenges in Molecular Design for Reduced Hazard. ACS Sustainable Chemistry and Engineering, 2016, 4, 5900-5906.	6.7	35
35	Central nervous system uptake of intranasal glutathione in Parkinsonâ€™s disease. Npj Parkinson's Disease, 2016, 2, 16002.	5.3	43
36	Using Domestic and Free-Ranging Arctic Canid Models for Environmental Molecular Toxicology Research. Environmental Science & Technology, 2016, 50, 1990-1999.	10.0	18

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37	Susceptibility to quantum dot induced lung inflammation differs widely among the Collaborative Cross founder mouse strains. Toxicology and Applied Pharmacology, 2015, 289, 240-250.	2.8	33
38	p53 Contributes to Differentiating Gene Expression following Exposure to Acetaminophen and Its Less Hepatotoxic Regioisomer Both <i>In Vitro</i> and <i>In Vivo</i>. Gene Regulation and Systems Biology, 2015, 9, GRSB.S25388.	2.3	7
39	Quantification of Low-Level Drug Effects Using Real-Time,<i>in vitro</i>Measurement of Oxygen Consumption Rate. Toxicological Sciences, 2015, 148, 594-602.	3.1	17
40	Arsenic responsive microRNAs in vivo and their potential involvement in arsenic-induced oxidative stress. Toxicology and Applied Pharmacology, 2015, 283, 198-209.	2.8	44
41	Glutathione and Thioredoxin Antioxidant Pathways Synergize to Drive Cancer Initiation and Progression. Cancer Cell, 2015, 27, 211-222.	16.8	748
42	Metabolism of doxorubicin to the cardiotoxic metabolite doxorubicinol is increased in a mouse model of chronic glutathione deficiency: A potential role for carbonyl reductase 3. Chemico-Biological Interactions, 2015, 234, 154-161.	4.0	47
43	Amphiphilic polymer-coated CdSe/ZnS quantum dots induce pro-inflammatory cytokine expression in mouse lung epithelial cells and macrophages. Nanotoxicology, 2015, 9, 336-343.	3.0	31
44	Toxicity and oxidative stress induced by semiconducting polymer dots in RAW264.7 mouse macrophages. Nanoscale, 2015, 7, 10085-10093.	5.6	37
45	The brominated flame retardant BDE-47 causes oxidative stress and apoptotic cell death in vitro and in vivo in mice. NeuroToxicology, 2015, 48, 68-76.	3.0	63
46	Glutamate Cysteine Ligase Modifier Subunit (Gclm) Null Mice Have Increased Ovarian Oxidative Stress and Accelerated Age-Related Ovarian Failure. Endocrinology, 2015, 156, 3329-3343.	2.8	61
47	Chemical characterization and in vitro toxicity of diesel exhaust particulate matter generated under varying conditions. Air Quality, Atmosphere and Health, 2015, 8, 507-519.	3.3	30
48	Acetaminophen-induced liver damage in mice is associated with gender-specific adduction of peroxiredoxin-6. Redox Biology, 2014, 2, 377-387.	9.0	49
49	In Vivo Approaches to Assessing the Toxicity of Quantum Dots. Methods in Molecular Biology, 2014, 1199, 179-190.	0.9	5
50	Mitochondrial-targeted peptide rapidly improves mitochondrial energetics and skeletal muscle performance in aged mice. Aging Cell, 2013, 12, 763-771.	6.7	146
51	Interlaboratory Evaluation of Rodent Pulmonary Responses to Engineered Nanomaterials: The NIEHS Nano GO Consortium. Environmental Health Perspectives, 2013, 121, 676-682.	6.0	121
52	Heme oxygenase expression as a biomarker of exposure to amphiphilic polymer-coated CdSe/ZnS quantum dots. Nanotoxicology, 2013, 7, 181-191.	3.0	20
53	The Glutathione Synthesis Gene Gclm Modulates Amphiphilic Polymer-Coated CdSe/ZnS Quantum Dotâ€œInduced Lung Inflammation in Mice. PLoS ONE, 2013, 8, e64165.	2.5	29
54	Sustained Glutathione Deficiency Interferes with the Liver Response to TNF-Î± and Liver Regeneration after Partial Hepatectomy in Mice. Journal of Liver: Disease & Transplantation, 2013, 1, .	0.0	7

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55	<i>In Vitro</i> Toxicity Assessment of Amphiphillic Polymer-Coated CdSe/ZnS Quantum Dots in Two Human Liver Cell Models. ACS Nano, 2012, 6, 9475-9484.	14.6	58
56	Glutathione (GSH) and the GSH synthesis gene Gclm modulate vascular reactivity in mice. Free Radical Biology and Medicine, 2012, 53, 1264-1278.	2.9	30
57	Protein tyrosine nitration of mitochondrial carbamoyl phosphate synthetase 1 and its functional consequences. Biochemical and Biophysical Research Communications, 2012, 420, 54-60.	2.1	13
58	Heterozygosity in the glutathione synthesis geneGclmincreases sensitivity to diesel exhaust particulate induced lung inflammation in mice. Inhalation Toxicology, 2011, 23, 724-735.	1.6	30
59	Attenuated progression of diet-induced steatohepatitis in glutathione-deficient mice. Laboratory Investigation, 2010, 90, 1704-1717.	3.7	67
60	Rapid Activation of Glutamate Cysteine Ligase following Oxidative Stress. Journal of Biological Chemistry, 2010, 285, 16116-16124.	3.4	87
61	Structure, function, and post-translational regulation of the catalytic and modifier subunits of glutamate cysteine ligase. Molecular Aspects of Medicine, 2009, 30, 86-98.	6.4	330
62	Gclm Null Mice have Drastically Increased Angiogenic Potential. FASEB Journal, 2009, 23, 592.12.	0.5	0
63	Neurotoxicity of a polybrominated diphenyl ether mixture (DE-71) in mouse neurons and astrocytes is modulated by intracellular glutathione levels. Toxicology and Applied Pharmacology, 2008, 232, 161-168.	2.8	89
64	Modulating GSH Synthesis Using Glutamate Cysteine Ligase Transgenic and Gene-Targeted Mice. Drug Metabolism Reviews, 2008, 40, 465-477.	3.6	45
65	Glutamate Cysteine Ligase Modifier Subunit Deficiency and Gender as Determinants of Acetaminophen-Induced Hepatotoxicity in Mice. Toxicological Sciences, 2007, 99, 628-636.	3.1	156
66	Acetaminophen-induced Liver Injury Is Attenuated in Male Glutamate-cysteine Ligase Transgenic Mice. Journal of Biological Chemistry, 2006, 281, 28865-28875.	3.4	56
67	Glutamate-cysteine ligase attenuates TNF-induced mitochondrial injury and apoptosis. Free Radical Biology and Medicine, 2004, 37, 632-642.	2.9	44
68	Fluorescence-based microtiter plate assay for glutamateâ€“cysteine ligase activity. Analytical Biochemistry, 2003, 318, 175-180.	2.4	246
69	Induction of glutamate-cysteine ligase (Î³-glutamylcysteine synthetase) in the brains of adult female mice subchronically exposed to methylmercury. Toxicology Letters, 1999, 110, 1-9.	0.8	56
70	HPLC â€•Based Assays for Enzymes of Glutathione Biosynthesis. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 1999, 00, Unit6.5.	1.1	11
71	Probenicid inhibition of fluorescence extrusion after MCB-staining of rat-1 fibroblasts. Cytometry, 1996, 23, 78-81.	1.8	6
72	De novo synthesis of glutathione is required for both entry into and progression through the cell cycle. Journal of Cellular Physiology, 1995, 163, 555-560.	4.1	155

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73	Direct determination of functional activity of cytochrome pâ€4501A1 and nadph DTâ€diaphorase in hepatoma cell lines using noninvasive scanning laser cytometry. Journal of Toxicology and Environmental Health - Part A: Current Issues, 1993, 40, 177-194.	2.3	16
74	Proliferative capacity of human peripheral blood lymphocytes sorted on the basis of glutathione content. Journal of Cellular Physiology, 1990, 145, 472-480.	4.1	68
75	Direct evidence of intercellular sharing of glutathione via metabolic cooperation. Journal of Cellular Physiology, 1988, 137, 353-359.	4.1	19