

Eric E Kelley

List of Publications by Year in descending order

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71
papers

4,042
citations

126907

33
h-index

118850

62
g-index

73
all docs

73
docs citations

73
times ranked

5741
citing authors

#	ARTICLE	IF	CITATIONS
1	An aged immune system drives senescence and ageing of solid organs. <i>Nature</i> , 2021, 594, 100-105.	27.8	368
2	Hydrogen peroxide is the major oxidant product of xanthine oxidase. <i>Free Radical Biology and Medicine</i> , 2010, 48, 493-498.	2.9	317
3	Hydrogen sulfide cytoprotective signaling is endothelial nitric oxide synthase-nitric oxide dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3182-3187.	7.1	301
4	Oxidases and peroxidases in cardiovascular and lung disease: New concepts in reactive oxygen species signaling. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1271-1288.	2.9	218
5	Xanthine oxidoreductase-catalyzed reactive species generation: A process in critical need of reevaluation. <i>Redox Biology</i> , 2013, 1, 353-358.	9.0	174
6	Nox2 B-loop peptide, Nox2ds, specifically inhibits the NADPH oxidase Nox2. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1116-1125.	2.9	115
7	Xanthine oxidoreductase-catalyzed reduction of nitrite to nitric oxide: Insights regarding where, when and how. <i>Nitric Oxide - Biology and Chemistry</i> , 2013, 34, 19-26.	2.7	107
8	Thrombospondin-1 Regulates Blood Flow via CD47 Receptor-Mediated Activation of NADPH Oxidase 1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2966-2973.	2.4	106
9	Febuxostat inhibition of endothelial-bound XO: Implications for targeting vascular ROS production. <i>Free Radical Biology and Medicine</i> , 2011, 51, 179-184.	2.9	105
10	Uric Acid and Hypertension: An Update With Recommendations. <i>American Journal of Hypertension</i> , 2020, 33, 583-594.	2.0	104
11	Spontaneous DNA damage to the nuclear genome promotes senescence, redox imbalance and aging. <i>Redox Biology</i> , 2018, 17, 259-273.	9.0	103
12	Activation of the Aryl Hydrocarbon Receptor Sensitizes Mice to Nonalcoholic Steatohepatitis by Deactivating Mitochondrial Sirtuin Deacetylase Sirt3. <i>Molecular and Cellular Biology</i> , 2013, 33, 2047-2055.	2.3	92
13	The impact of xanthine oxidase (XO) on hemolytic diseases. <i>Redox Biology</i> , 2019, 21, 101072.	9.0	87
14	Comparing Î²-Carotene, Vitamin E and Nitric Oxide as Membrane Antioxidants. <i>Biological Chemistry</i> , 2002, 383, 671-81.	2.5	85
15	Xanthine Oxidase-Dependent Regulation of Hypoxia-Inducible Factor in Cancer Cells. <i>Cancer Research</i> , 2006, 66, 2257-2263.	0.9	81
16	Fatty acid nitroalkenes ameliorate glucose intolerance and pulmonary hypertension in high-fat diet-induced obesity. <i>Cardiovascular Research</i> , 2014, 101, 352-363.	3.8	81
17	Nitrite-generated NO circumvents dysregulated arginine/NOS signaling to protect against intimal hyperplasia in Sprague-Dawley rats. <i>Journal of Clinical Investigation</i> , 2011, 121, 1646-1656.	8.2	81
18	Moderate hypoxia induces xanthine oxidoreductase activity in arterial endothelial cells. <i>Free Radical Biology and Medicine</i> , 2006, 40, 952-959.	2.9	76

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19	Nitro-oleic Acid, a Novel and Irreversible Inhibitor of Xanthine Oxidoreductase. <i>Journal of Biological Chemistry</i> , 2008, 283, 36176-36184.	3.4	75
20	Cytochrome b5 Reductase 3 Modulates Soluble Guanylate Cyclase Redox State and cGMP Signaling. <i>Circulation Research</i> , 2017, 121, 137-148.	4.5	73
21	Selective Recapitulation of Conserved and Nonconserved Regions of Putative NOXA1 Protein Activation Domain Confers Isoform-specific Inhibition of Nox1 Oxidase and Attenuation of Endothelial Cell Migration. <i>Journal of Biological Chemistry</i> , 2013, 288, 36437-36450.	3.4	68
22	Sulfite Oxidase Catalyzes Single-Electron Transfer at Molybdenum Domain to Reduce Nitrite to Nitric Oxide. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 283-294.	5.4	68
23	A new paradigm for XOR-catalyzed reactive species generation in the endothelium. <i>Pharmacological Reports</i> , 2015, 67, 669-674.	3.3	67
24	Endogenous production and exogenous exposure to nitric oxide augment doxorubicin cytotoxicity for breast cancer cells but not cardiac myoblasts. <i>Nitric Oxide - Biology and Chemistry</i> , 2004, 10, 119-129.	2.7	65
25	Aquaporin 1, Nox1, and Ask1 mediate oxidant-induced smooth muscle cell hypertrophy. <i>Cardiovascular Research</i> , 2013, 97, 134-142.	3.8	65
26	Nitric Oxide Inhibits Iron-Induced Lipid Peroxidation in HL-60 Cells. <i>Archives of Biochemistry and Biophysics</i> , 1999, 370, 97-104.	3.0	59
27	Binding of Xanthine Oxidase to Glycosaminoglycans Limits Inhibition by Oxypurinol. <i>Journal of Biological Chemistry</i> , 2004, 279, 37231-37234.	3.4	59
28	HO-1 and CO Decrease Platelet-Derived Growth Factor-Induced Vascular Smooth Muscle Cell Migration Via Inhibition of Nox1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 98-104.	2.4	53
29	Electrophilic Fatty Acids Regulate Matrix Metalloproteinase Activity and Expression. <i>Journal of Biological Chemistry</i> , 2011, 286, 16074-16081.	3.4	51
30	Increased efficacy of in vitro Photofrin® photosensitization of human oral squamous cell carcinoma by iron and ascorbate. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997, 40, 273-277.	3.8	40
31	Dysregulation of DAF-16/FOXO3A-mediated stress responses accelerates oxidative DNA damage induced aging. <i>Redox Biology</i> , 2018, 18, 191-199.	9.0	39
32	CD47 and Nox1 Mediate Dynamic Fluid-Phase Macropinocytosis of Native LDL. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 886-901.	5.4	38
33	Nox2-dependent glutathionylation of endothelial NOS leads to uncoupled superoxide production and endothelial barrier dysfunction in acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L987-L997.	2.9	37
34	Elevated oxidative stress in the aortic media of patients with bicuspid aortic valve. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 154, 1756-1762.	0.8	33
35	Obesity-induced tissue free radical generation: An in vivo immuno-spin trapping study. <i>Free Radical Biology and Medicine</i> , 2012, 52, 2312-2319.	2.9	29
36	Nox2-Mediated PI3K and Cofilin Activation Confers Alternate Redox Control of Macrophage Pinocytosis. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 902-916.	5.4	29

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37	Regional Disruptions in Endothelial Nitric Oxide Pathway Associated With Bicuspid Aortic Valve. <i>Annals of Thoracic Surgery</i> , 2016, 102, 1274-1281.	1.3	28
38	Fatty acid nitroalkenes induce resistance to ischemic cardiac injury by modulating mitochondrial respiration at complex II. <i>Redox Biology</i> , 2016, 8, 1-10.	9.0	28
39	Production of Lipid-Derived Free Radicals in L1210 Murine Leukemia Cells Is an Early Oxidative Event in the Photodynamic Action of Photofrin. <i>Photochemistry and Photobiology</i> , 1997, 65, 576-580.	2.5	27
40	Mechanistic characterization of nitrite-mediated neuroprotection after experimental cardiac arrest. <i>Journal of Neurochemistry</i> , 2016, 139, 419-431.	3.9	27
41	Hepatocyte-Specific Ablation or Whole-Body Inhibition of Xanthine Oxidoreductase in Mice Corrects Obesity-Induced Systemic Hyperuricemia Without Improving Metabolic Abnormalities. <i>Diabetes</i> , 2019, 68, 1221-1229.	0.6	25
42	Nitric oxide inhibits neointimal hyperplasia following vascular injury via differential, cell-specific modulation of SOD-1 in the arterial wall. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 44, 8-17.	2.7	24
43	Exercise training prevents the perivascular adipose tissue-induced aortic dysfunction with metabolic syndrome. <i>Redox Biology</i> , 2019, 26, 101285.	9.0	24
44	Hydrogen sulfide stimulates xanthine oxidoreductase conversion to nitrite reductase and formation of NO. <i>Redox Biology</i> , 2020, 34, 101447.	9.0	24
45	Role of Chronic Stress and Exercise on Microvascular Function in Metabolic Syndrome. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 957-966.	0.4	20
46	Xanthine Oxidoreductase Function Contributes to Normal Wound Healing. <i>Molecular Medicine</i> , 2015, 21, 313-322.	4.4	19
47	Sex-based differential regulation of oxidative stress in the vasculature by nitric oxide. <i>Redox Biology</i> , 2015, 4, 226-233.	9.0	19
48	Chlorine gas exposure disrupts nitric oxide homeostasis in the pulmonary vasculature. <i>Toxicology</i> , 2014, 321, 96-102.	4.2	18
49	Dispelling dogma and misconceptions regarding the most pharmacologically targetable source of reactive species in inflammatory disease, xanthine oxidoreductase. <i>Archives of Toxicology</i> , 2015, 89, 1193-1207.	4.2	18
50	Multiorgan Development of Oxidative and Nitrosative Stress in LPS-Induced Endotoxemia in C57Bl/6 Mice: DHE-Based <i>In Vivo</i> Approach. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	4.0	18
51	Microvascular Dysfunction Following Multiwalled Carbon Nanotube Exposure Is Mediated by Thrombospondin-1 Receptor CD47. <i>Toxicological Sciences</i> , 2018, 165, 90-99.	3.1	16
52	Xanthine Oxidase Drives Hemolysis and Vascular Malfunction in Sickle Cell Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 769-782.	2.4	13
53	Oxidant-induced epithelial alarmin pathway mediates lung inflammation and functional decline following ultrafine carbon and ozone inhalation co-exposure. <i>Redox Biology</i> , 2021, 46, 102092.	9.0	13
54	Experimental intravascular hemolysis induces hemodynamic and pathological pulmonary hypertension: association with accelerated purine metabolism. <i>Pulmonary Circulation</i> , 2018, 8, 1-15.	1.7	12

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55	Adipose tissue-derived free fatty acids initiate myeloid cell accumulation in mouse liver in states of lipid oversupply. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E758-E770.	3.5	12
56	In Vivo Immuno-spin Trapping: Imaging the Footprints of Oxidative Stress. <i>Current Protocols in Cytometry</i> , 2015, 74, 12.42.1-12.42.11.	3.7	11
57	Interplay between Oxidative Stress and Metabolism in Signalling and Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-2.	4.0	11
58	Biochemistry of Molybdopterin Nitrate/Nitrite Reductases. , 2017, , 173-184.		11
59	Olive oil-derived nitro-fatty acids: protection of mitochondrial function in non-alcoholic fatty liver disease. <i>Journal of Nutritional Biochemistry</i> , 2021, 94, 108646.	4.2	11
60	Chronic stress induced perivascular adipose tissue impairment of aortic function and the therapeutic effect of exercise. <i>Experimental Physiology</i> , 2021, 106, 1343-1358.	2.0	9
61	The Mitochondrial mitoNEET Ligand NL-1 Is Protective in a Murine Model of Transient Cerebral Ischemic Stroke. <i>Pharmaceutical Research</i> , 2021, 38, 803-817.	3.5	9
62	Interplay between Oxidative Stress and Metabolism in Signalling and Disease 2016. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-2.	4.0	7
63	Human and rodent red blood cells do not demonstrate xanthine oxidase activity or XO-catalyzed nitrite reduction to NO. <i>Free Radical Biology and Medicine</i> , 2021, 174, 84-88.	2.9	7
64	Oxidized carbon black nanoparticles induce endothelial damage through C-X-C chemokine receptor 3-mediated pathway. <i>Redox Biology</i> , 2021, 47, 102161.	9.0	7
65	Diminishing Inflammation by Reducing Oxidant Generation: Nitrated Fatty Acid-Mediated Inactivation of Xanthine Oxidoreductase. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1127, 59-65.	1.6	5
66	Racial Differences in XO (Xanthine Oxidase) and Mitochondrial DNA Damage-Associated Molecular Patterns in Resistant Hypertension. <i>Hypertension</i> , 2022, 79, 775-784.	2.7	4
67	Comment on Fabbrini et al. Effect of Plasma Uric Acid on Antioxidant Capacity, Oxidative Stress, and Insulin Sensitivity in Obese Subjects. <i>Diabetes</i> 2014;63:976-981. <i>Diabetes</i> , 2014, 63, e18-e18.	0.6	3
68	Role of the esophageal vagus neural pathway in ionizing irradiation-induced seizures in nitric oxide synthase-1 homologous recombinant negative NOS1 ^{-/-} mice. <i>In Vivo</i> , 2011, 25, 861-9.	1.3	3
69	Role of Nitric Oxide and Membrane Phospholipid Polyunsaturation in Oxidative Cell Death. , 2002, 36, 97-121.		1
70	Extracellular biomolecular free radical formation during injury. <i>Free Radical Biology and Medicine</i> , 2022, 188, 175-184.	2.9	1
71	Xanthine Oxidase Mediates Cerebrovascular Function Impairment in Chronically Stressed Mice. <i>FASEB Journal</i> , 2019, 33, 528.10.	0.5	0