Kumuda C Das

List of Publications by Year
in descending order

38 papers	1,850 citations	331670 21 h-index	315739 38 g-index
38 all docs	38 docs citations	38 times ranked	2556 citing authors

#	Article	IF	Citations
1	Thioredoxin Prevents Loss of UCP2 in Hyperoxia via MKK4â€“p38 MAPKâ€“PGC1Î± Signaling and Limits Oxygen Toxicity. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 323-336.	2.9	7
2	Thioredoxin Decreases Anthracycline Cardiotoxicity, But Sensitizes Cancer Cell Apoptosis. Cardiovascular Toxicology, 2021, 21, 142-151.	2.7	9
3	Nrg1Î² Released in Remote Ischemic Preconditioning Improves Myocardial Perfusion and Decreases Ischemia/Reperfusion Injury via ErbB2-Mediated Rescue of Endothelial Nitric Oxide Synthase and Abrogation of Trx2 Autophagy. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2293-2314.	2.4	11
4	Chaperone-Mediated Autophagy of eNOS in Myocardial Ischemia-Reperfusion Injury. Circulation Research, 2021, 129, 930-945.	4.5	14
5	Thioredoxin deficiency exacerbates vascular dysfunction during dietâ€induced obesity in small mesenteric artery in mice. Microcirculation, 2021, 28, e12674.	1.8	2
6	Thioredoxin protects mitochondrial structure, function and biogenesis in myocardial ischemia-reperfusion via redox-dependent activation of AKT-CREB- PGC1α pathway in aged mice. Aging, 2020, 12, 19809-19827.	3.1	19
7	Short-duration hyperoxia causes genotoxicity in mouse lungs: protection by volatile anesthetic isoflurane. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L903-L917.	2.9	11
8	Role of Thioredoxin in Age-Related Hypertension. Current Hypertension Reports, 2018, 20, 6.	3.5	6
9	Thioredoxin reverses age-related hypertension by chronically improving vascular redox and restoring eNOS function. Science Translational Medicine, 2017, 9, .	12.4	45
10	Decreased EDHF-mediated relaxation is a major mechanism in endothelial dysfunction in resistance arteries in aged mice on prolonged high-fat sucrose diet. Physiological Reports, 2017, 5, e13502.	1.7	14
11	Thioredoxin Uses a GSH-independent Route to Deglutathionylate Endothelial Nitric-oxide Synthase and Protect against Myocardial Infarction. Journal of Biological Chemistry, 2016, 291, 23374-23389.	3.4	32
12	Thioredoxin-deficient mice, a novel phenotype sensitive to ambient air and hypersensitive to hyperoxia-induced lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L429-L442.	2.9	20
13	Thioredoxin Activates MKK4-NFÎºB Pathway in a Redox-dependent Manner to Control Manganese Superoxide Dismutase Gene Expression in Endothelial Cells. Journal of Biological Chemistry, 2015, 290, 17505-17519.	3.4	15
14	Role of In Vivo Vascular Redox in Resistance Arteries. Hypertension, 2015, 65, 130-139.	2.7	9
15	Biphasic response of checkpoint control proteins in hyperoxia: exposure to lower levels of oxygen induces genome maintenance genes in experimental baboon BPD. Molecular and Cellular Biochemistry, 2014, 395, 187-198.	3.1	11
16	Hyperglycemia induces differential change in oxidative stress at gene expression and functional levels in HUVEC and HMVEC. Cardiovascular Diabetology, 2013, 12, 142.	6.8	137
17	Age-dependent mitochondrial energy dynamics in the mice heart: Role of superoxide dismutase-2. Experimental Gerontology, 2013, 48, 947-959.	2.8	28
18	Hyperoxia Decreases Glycolytic Capacity, Glycolytic Reserve and Oxidative Phosphorylation in MLE-12 Cells and Inhibits Complex I and II Function, but Not Complex IV in Isolated Mouse Lung Mitochondria. PLoS ONE, 2013, 8, e73358.	2.5	80

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19	c-Jun-NH2 terminal kinase (JNK)-mediates AP-1 activation by thioredoxin: phosphorylation of cJun, JunB, and Fra-1. Molecular and Cellular Biochemistry, 2010, 337, 53-63.	3.1	21
20	Reactive Oxygen Species-independent Oxidation of Thioredoxin in Hypoxia. Journal of Biological Chemistry, 2009, 284, 17069-17081.	3.4	26
21	Differential roles of ATR and ATM in p53, Chk1, and histone H2AX phosphorylation in response to hyperoxia: ATR-dependent ATM activation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 294, L998-L1006.	2.9	39
22	Endogenous Thioredoxin Is Required for Redox Cycling of Anthracyclines and p53-dependent Apoptosis in Cancer Cells. Journal of Biological Chemistry, 2005, 280, 40084-40096.	3.4	67
23	Thioredoxin and Its Role in Premature Newborn Biology. Antioxidants and Redox Signaling, 2005, 7, 1740-1743.	5.4	22
24	Increased Apoptosis and Expression of p21 and p53 in Premature Infant Baboon Model of Bronchopulmonary Dysplasia. Antioxidants and Redox Signaling, 2004, 6, 109-116.	5.4	35
25	Thioredoxin System in Premature and Newborn Biology. Antioxidants and Redox Signaling, 2004, 6, 177-184.	5.4	33
26	Hydroxyl radical scavenging and singlet oxygen quenching properties of polyamines. Molecular and Cellular Biochemistry, 2004, 262, 127-133.	3.1	125
27	Redox-cycling of anthracyclines by thioredoxin system: increased superoxide generation and DNA damage. Cancer Chemotherapy and Pharmacology, 2004, 54, 449-458.	2.3	45
28	Altered Expression of Cyclins and Cdks in Premature Infant Baboon Model of Bronchopulmonary Dysplasia. Antioxidants and Redox Signaling, 2004, 6, 117-127.	5.4	18
29	Hyperoxia activates the ATR-Chk1 pathway and phosphorylates p53 at multiple sites. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 286, L87-L97.	2.9	48
30	Curcumin (diferuloylmethane), a singlet oxygen (1O2) quencher. Biochemical and Biophysical Research Communications, 2002, 295, 62-66.	2.1	181
31	c-Jun NH2-terminal Kinase-mediated Redox-dependent Degradation of IÎºB. Journal of Biological Chemistry, 2001, 276, 4662-4670.	3.4	76
32	Induction of Peroxiredoxin Gene Expression by Oxygen in Lungs of Newborn Primates. American Journal of Respiratory Cell and Molecular Biology, 2001, 25, 226-232.	2.9	58
33	Thioredoxin, a Singlet Oxygen Quencher and Hydroxyl Radical Scavenger: Redox Independent Functions. Biochemical and Biophysical Research Communications, 2000, 277, 443-447.	2.1	226
34	Induction of thioredoxin and thioredoxin reductase gene expression in lungs of newborn primates by oxygen. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 276, L530-L539.	2.9	49
35	Detection of thioredoxin in human serum and biological samples using a sensitive sandwich ELISA with digoxigenin-labeled antibody. Journal of Immunological Methods, 1998, 211, 9-20.	1.4	19
36	Protein Kinase CÎ´-dependent Induction of Manganese Superoxide Dismutase Gene Expression by Microtubule-active Anticancer Drugs. Journal of Biological Chemistry, 1998, 273, 34639-34645.	3.4	46

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37	Elevation of Manganese Superoxide Dismutase Gene Expression by Thioredoxin. American Journal of Respiratory Cell and Molecular Biology, 1997, 17, 713-726.	2.9	122
38	Thiol modulation of TNF? and IL-1 induced MnSOD gene expression and activation of NF-?B. Molecular and Cellular Biochemistry, 1995, 148, 45-57.	3.1	124