Shyam Biswal

List of Publications by Year in descending order

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61 papers	3,937 citations	185998 28 h-index	138251 58 g-index
64 all docs	64 docs citations	64 times ranked	6231 citing authors

#	Article	IF	Citations
1	Air Pollution Exposure and the Development of Chronic Rhinosinusitis in the Active Duty Population. Military Medicine, 2023, 188, e1965-e1969.	0.4	8
2	Longâ€term ambient air pollution exposure and risk of sinonasal inverted papilloma. International Forum of Allergy and Rhinology, 2022, 12, 1200-1203.	1.5	1
3	Nrf2 Regulates Î²-Cell Mass by Suppressing Î²-Cell Death and Promoting Î²-Cell Proliferation. Diabetes, 2022, 71, 989-1011.	0.3	14
4	Particulate matter air pollution exposure disrupts the Nrf2 pathway in sinonasal epithelium via epigenetic alterations in a murine model. International Forum of Allergy and Rhinology, 2022, 12, 1424-1427.	1.5	5
5	Disruption of Sinonasal Epithelial Nrf2 Enhances Susceptibility to Rhinosinusitis in a Mouse Model. Laryngoscope, 2021, 131, 713-719.	1.1	9
6	Exposure to Particulate Matter Air Pollution and Anosmia. JAMA Network Open, 2021, 4, e2111606.	2.8	17
7	NQO1 protects obese mice through improvements in glucose and lipid metabolism. Npj Aging and Mechanisms of Disease, 2020, 6, 13.	4.5	20
8	Effect of sub-chronic exposure to cigarette smoke, electronic cigarette and waterpipe on human lung epithelial barrier function. BMC Pulmonary Medicine, 2020, 20, 216.	0.8	28
9	Immune modulation by chronic exposure to waterpipe smoke and immediate-early gene regulation in murine lungs. Tobacco Control, 2020, 29, s80-s89.	1.8	7
10	S-nitrosocysteine and glutathione depletion synergize to induce cell death in human tumor cells: Insights into the redox and cytotoxic mechanisms. Free Radical Biology and Medicine, 2020, 160, 566-574.	1.3	3
11	Exposure to Air Pollution Disrupts Circadian Rhythm through Alterations in Chromatin Dynamics. IScience, 2020, 23, 101728.	1.9	27
12	Environmental determinants of cardiovascular disease: lessons learned from air pollution. Nature Reviews Cardiology, 2020, 17, 656-672.	6.1	352
13	Epigenetic biomarkers and preterm birth. Environmental Epigenetics, 2020, 6, dvaa005.	0.9	19
14	Strong correlation between air-liquid interface cultures and in vivo transcriptomics of nasal brush biopsy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L1056-L1062.	1.3	26
15	Compartmentalization of anti-oxidant and anti-inflammatory gene expression in current and former smokers with COPD. Respiratory Research, 2019, 20, 190.	1.4	16
16	Nrf2 activation via Keap1 deletion or sulforaphane treatment reduces Ovaâ€induced sinonasal inflammation. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 1780-1783.	2.7	8
17	Alpha2B-Adrenergic Receptor Overexpression in the Brain Potentiate Air Pollution-induced Behavior and Blood Pressure Changes. Toxicological Sciences, 2019, 169, 95-107.	1.4	20
18	Waterpipe tobacco smoke: Characterization of toxicants and exposure biomarkers in a cross-sectional study of waterpipe employees. Environment International, 2019, 127, 495-502.	4.8	21

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19	Air pollution-derived particulate matter dysregulates hepatic Krebs cycle, glucose and lipid metabolism in mice. Scientific Reports, 2019, 9, 17423.	1.6	37
20	Deletion of Nrf2 enhances susceptibility to eosinophilic sinonasal inflammation in a murine model of rhinosinusitis. International Forum of Allergy and Rhinology, 2019, 9, 114-119.	1.5	10
21	The NIEHS TaRGET II Consortium and environmental epigenomics. Nature Biotechnology, 2018, 36, 225-227.	9.4	79
22	Nrf2 signaling and autophagy are complementary in protecting breast cancer cells during glucose deprivation. Free Radical Biology and Medicine, 2018, 120, 407-413.	1.3	39
23	S -Nitrosoglutathione Reductase Is Essential for Protecting the Female Heart From Ischemia-Reperfusion Injury. Circulation Research, 2018, 123, 1232-1243.	2.0	35
24	De novo lipogenesis represents a therapeutic target in mutant Kras nonâ€small cell lung cancer. FASEB Journal, 2018, 32, 7018-7027.	0.2	33
25	Sâ€nitrosoglutathione reductase is essential for reducing ischemiaâ€reperfusion injury in female hearts by metabolizing formaldehyde. FASEB Journal, 2018, 32, .	0.2	0
26	Nuclear erythroid 2â€related factor 2 activation inhibits house dust miteâ€“induced sinonasal epithelial cell barrier dysfunction. International Forum of Allergy and Rhinology, 2017, 7, 536-541.	1.5	16
27	Airborne Particulate Matter Induces Nonallergic Eosinophilic Sinonasal Inflammation in Mice. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 59-65.	1.4	75
28	Gestational Exposure to Sidestream (Secondhand) Cigarette Smoke Promotes Transgenerational Epigenetic Transmission of Exacerbated Allergic Asthma and Bronchopulmonary Dysplasia. Journal of Immunology, 2017, 198, 3815-3822.	0.4	30
29	Immunomodulators targeting MARCO expression improve resistance to postinfluenza bacterial pneumonia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L138-L153.	1.3	36
30	Nrf2 regulates gene-environment interactions in an animal model of intrauterine inflammation: Implications for preterm birth and prematurity. Scientific Reports, 2017, 7, 40194.	1.6	21
31	Impaired calcium signaling in muscle fibers from intercostal and foot skeletal muscle in a cigarette smoke-induced mouse model of COPD. Muscle and Nerve, 2017, 56, 282-291.	1.0	12
32	Electronic cigarette use behaviors and motivations among smokers and non-smokers. BMC Public Health, 2017, 17, 686.	1.2	28
33	A Randomized Controlled Trial of the Effect of Broccoli Sprouts on Antioxidant Gene Expression and Airway Inflammation in Asthmatics. Journal of Allergy and Clinical Immunology: in Practice, 2016, 4, 932-940.	2.0	42
34	Reversal of cigarette smoke extractâ€induced sinonasal epithelial cell barrier dysfunction through Nrf2 Activation. International Forum of Allergy and Rhinology, 2016, 6, 1145-1150.	1.5	27
35	Air pollutantâ€“mediated disruption of sinonasal epithelial cell barrier function is reversed by activation of the Nrf2 pathway. Journal of Allergy and Clinical Immunology, 2016, 138, 1736-1738.e4.	1.5	37
36	Small Molecule Inhibitor of NRF2 Selectively Intervenes Therapeutic Resistance in KEAP1-Deficient NSCLC Tumors. ACS Chemical Biology, 2016, 11, 3214-3225.	1.6	364

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37	Indoor Particulate MatterÂ< 2.5 Î¼m in Mean Aerodynamic Diameter and Carbon Monoxide Levels During the Burning ofÂMosquito Coils and Their Association With Respiratory Health. Chest, 2016, 149, 459-466.	0.4	29
38	An inflammation-independent contraction mechanophenotype of airway smooth muscle in asthma. Journal of Allergy and Clinical Immunology, 2016, 138, 294-297.e4.	1.5	52
39	Lack of Effect of Oral Sulforaphane Administration on Nrf2 Expression in COPD: A Randomized, Double-Blind, Placebo Controlled Trial. PLoS ONE, 2016, 11, e0163716.	1.1	92
40	Field Testing of Alternative Cookstove Performance in a Rural Setting of Western India. International Journal of Environmental Research and Public Health, 2015, 12, 1773-1787.	1.2	36
41	Exposure to Electronic Cigarettes Impairs Pulmonary Anti-Bacterial and Anti-Viral Defenses in a Mouse Model. PLoS ONE, 2015, 10, e0116861.	1.1	321
42	Heterocyclic chalcone activators of nuclear factor (erythroid-derived 2)-like 2 (Nrf2) with improved in vivo efficacy. Bioorganic and Medicinal Chemistry, 2015, 23, 5352-5359.	1.4	14
43	Knockout of the transcription factor Nrf2: Effects on testosterone production by aging mouse Leydig cells. Molecular and Cellular Endocrinology, 2015, 409, 113-120.	1.6	53
44	Nrf2 reduces allergic asthma in mice through enhanced airway epithelial cytoprotective function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L27-L36.	1.3	65
45	Nrf2 in ischemic neurons promotes retinal vascular regeneration through regulation of semaphorin 6A. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6927-36.	3.3	67
46	Genetic silencing of Nrf2 enhances X-ROS in dysferlin-deficient muscle. Frontiers in Physiology, 2014, 5, 57.	1.3	25
47	Nrf2 signaling modulates cigarette smoke-induced complement activation in retinal pigmented epithelial cells. Free Radical Biology and Medicine, 2014, 70, 155-166.	1.3	74
48	Nrf2 is required for normal postnatal bone acquisition in mice. Bone Research, 2014, 2, 14033.	5.4	44
49	Aquaporin 5 regulates cigarette smoke induced emphysema by modulating barrier and immune properties of the epithelium. Tissue Barriers, 2013, 1, e25248.	1.6	20
50	Experimental Therapeutics of Nrf2 as a Target for Prevention of Bacterial Exacerbations in COPD. Proceedings of the American Thoracic Society, 2012, 9, 47-51.	3.5	41
51	Targeting Nrf2 Signaling Improves Bacterial Clearance by Alveolar Macrophages in Patients with COPD and in a Mouse Model. Science Translational Medicine, 2011, 3, 78ra32.	5.8	271
52	Synthesis and biological activity evaluation of N-protected isatin derivatives as inhibitors of ICAM-1 expression on human endothelial cells. MedChemComm, 2011, 2, 743.	3.5	22
53	The Dark Side of NRF2: Upregulation of NRF2 as a Mechanism for Resistance to Imatinib In CML.. Blood, 2010, 116, 3401-3401.	0.6	1
54	Targeting Nrf2 with the triterpenoid CDDO- imidazolide attenuates cigarette smoke-induced emphysema and cardiac dysfunction in mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 250-255.	3.3	318

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55	Nrf2, a Critical Regulator of Oxidative Stress, Is Required for HSC Function and Cytokine Response.. Blood, 2009, 114, 1492-1492.	0.6	0
56	Role of ROS in ischemiaâ€induced lung angiogenesis. FASEB Journal, 2007, 21, A1217.	0.2	0
57	Utilization of oligonucleotide microarray profiles from C57BL/6J (B6) and DBA/2J (D2) mice to discover agingâ€related genes in the lung. FASEB Journal, 2007, 21, A1352.	0.2	0
58	Gene expression differences that explain strain variations in lung architecture. FASEB Journal, 2007, 21, A1352.	0.2	0
59	Genetic ablation of Nrf2 enhances susceptibility to cigarette smokeâ€“induced emphysema in mice. Journal of Clinical Investigation, 2004, 114, 1248-1259.	3.9	763
60	Modulation of benzo[a]pyrene-induced p53 DNA activity by acrolein. Carcinogenesis, 2003, 24, 1401-1406.	1.3	35
61	Inhibition of Cell Proliferation and AP-1 Activity by Acrolein in Human A549 Lung Adenocarcinoma Cells Due to Thiol Imbalance and Covalent Modifications. Chemical Research in Toxicology, 2002, 15, 180-186.	1.7	66