

Jorge Boczkowski

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

6,731
citations

48
h-index

79
g-index

139
ext. papers

7,355
ext. citations

6.7
avg, IF

5.37
L-index

#	Paper	IF	Citations
120	Comparative toxicity of 24 manufactured nanoparticles in human alveolar epithelial and macrophage cell lines. <i>Particle and Fibre Toxicology</i> , 2009 , 6, 14	8.4	343
119	Biomedical applications and potential health risks of nanomaterials: molecular mechanisms. <i>Current Molecular Medicine</i> , 2006 , 6, 651-63	2.5	315
118	NOX4/NADPH oxidase expression is increased in pulmonary fibroblasts from patients with idiopathic pulmonary fibrosis and mediates TGFbeta1-induced fibroblast differentiation into myofibroblasts. <i>Thorax</i> , 2010 , 65, 733-8	7.3	235
117	Shortened telomeres in circulating leukocytes of patients with chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009 , 179, 566-71	10.2	228
116	Mitochondrial respiratory chain and NAD(P)H oxidase are targets for the antiproliferative effect of carbon monoxide in human airway smooth muscle. <i>Journal of Biological Chemistry</i> , 2005 , 280, 25350-60	5.4	198
115	Bilirubin decreases nos2 expression via inhibition of NAD(P)H oxidase: implications for protection against endotoxic shock in rats. <i>FASEB Journal</i> , 2005 , 19, 1890-2	0.9	193
114	Regulation of peroxisome proliferator-activated receptor gamma expression in human asthmatic airways: relationship with proliferation, apoptosis, and airway remodeling. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 164, 1487-94	10.2	173
113	Determinants of carbon nanotube toxicity. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 2063-9	18.5	153
112	Endogenous peroxynitrite mediates mitochondrial dysfunction in rat diaphragm during endotoxemia. <i>FASEB Journal</i> , 1999 , 13, 1637-46	0.9	152
111	Induction of heme oxygenase-1 inhibits NAD(P)H oxidase activity by down-regulating cytochrome b558 expression via the reduction of heme availability. <i>Journal of Biological Chemistry</i> , 2004 , 279, 28681-84	5.4	151
110	CO-metal interaction: Vital signaling from a lethal gas. <i>Trends in Biochemical Sciences</i> , 2006 , 31, 614-21	10.3	150
109	Telomere dysfunction causes sustained inflammation in chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011 , 184, 1358-66	10.2	145
108	HO-1 is located in liver mitochondria and modulates mitochondrial heme content and metabolism. <i>FASEB Journal</i> , 2006 , 20, 1236-8	0.9	134
107	Heme oxygenase-1 inhibits rat and human breast cancer cell proliferation: mutual cross inhibition with indoleamine 2,3-dioxygenase. <i>FASEB Journal</i> , 2005 , 19, 1957-68	0.9	128
106	Effects of sepsis on diaphragmatic function in rats. <i>The American Review of Respiratory Disease</i> , 1988 , 138, 260-5		119
105	A carbon monoxide-releasing molecule (CORM-3) exerts bactericidal activity against <i>Pseudomonas aeruginosa</i> and improves survival in an animal model of bacteraemia. <i>FASEB Journal</i> , 2009 , 23, 1023-31	0.9	118
104	Adverse effects of industrial multiwalled carbon nanotubes on human pulmonary cells. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2009 , 72, 60-73	3.2	116

103	Interplay between heme oxygenase-1 and miR-378 affects non-small cell lung carcinoma growth, vascularization, and metastasis. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 644-60	8.4	113
102	Induction of diaphragmatic nitric oxide synthase after endotoxin administration in rats: role on diaphragmatic contractile dysfunction. <i>Journal of Clinical Investigation</i> , 1996 , 98, 1550-9	15.9	112
101	A carbon monoxide-releasing molecule (CORM-3) uncouples mitochondrial respiration and modulates the production of reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1556-64	7.8	108
100	Caveolin-1 and -3 dissociations from caveolae to cytosol in the heart during aging and after myocardial infarction in rat. <i>Cardiovascular Research</i> , 2003 , 57, 358-69	9.9	101
99	Up-regulation of cardiac nitric oxide synthase 1-derived nitric oxide after myocardial infarction in senescent rats. <i>FASEB Journal</i> , 2003 , 17, 1934-6	0.9	96
98	Biodistribution and clearance of instilled carbon nanotubes in rat lung. <i>Particle and Fibre Toxicology</i> , 2008 , 5, 20	8.4	95
97	Muscular contractile failure in septic patients: role of the inducible nitric oxide synthase pathway. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000 , 162, 2308-15	10.2	92
96	mTOR pathway activation drives lung cell senescence and emphysema. <i>JCI Insight</i> , 2018 , 3,	9.9	86
95	Differential antibacterial activity against <i>Pseudomonas aeruginosa</i> by carbon monoxide-releasing molecules. <i>Antioxidants and Redox Signaling</i> , 2012 , 16, 153-63	8.4	84
94	Noncanonical WNT-5A signaling impairs endogenous lung repair in COPD. <i>Journal of Experimental Medicine</i> , 2017 , 214, 143-163	16.6	82
93	Activation of lung p53 by Nutlin-3a prevents and reverses experimental pulmonary hypertension. <i>Circulation</i> , 2013 , 127, 1664-76	16.7	77
92	Microglia Determine Brain Region-Specific Neurotoxic Responses to Chemically Functionalized Carbon Nanotubes. <i>ACS Nano</i> , 2015 , 9, 7815-30	16.7	74
91	Biological effects of particles from the paris subway system. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1426-33	4	74
90	Diesel exhaust particles induce matrix metalloprotease-1 in human lung epithelial cells via a NADP(H) oxidase/NOX4 redox-dependent mechanism. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L170-81	5.8	72
89	The cyclooxygenase-2-prostaglandin E2 pathway maintains senescence of chronic obstructive pulmonary disease fibroblasts. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 703-14	10.2	68
88	Critical role of surface chemical modifications induced by length shortening on multi-walled carbon nanotubes-induced toxicity. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 46	8.4	66
87	Coating carbon nanotubes with a polystyrene-based polymer protects against pulmonary toxicity. <i>Particle and Fibre Toxicology</i> , 2011 , 8, 3	8.4	64
86	Role of metal oxide nanoparticles in histopathological changes observed in the lung of welders. <i>Particle and Fibre Toxicology</i> , 2014 , 11, 23	8.4	61

85	Carbon nanotubes in macrophages: imaging and chemical analysis by X-ray fluorescence microscopy. <i>Nano Letters</i> , 2008 , 8, 2659-63	11.5	58
84	Pharmacologic induction of heme oxygenase 1 reduces acute inflammatory arthritis in mice. <i>Arthritis and Rheumatism</i> , 2007 , 56, 2585-94		58
83	Effect of BSA on carbon nanotube dispersion for in vivo and in vitro studies. <i>Nanotoxicology</i> , 2007 , 1, 266-278	5.3	58
82	Protective role of heme oxygenases against endotoxin-induced diaphragmatic dysfunction in rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 163, 753-61	10.2	58
81	What's new in nanotoxicology? Implications for public health from a brief review of the 2008 literature. <i>Nanotoxicology</i> , 2010 , 4, 1-14	5.3	57
80	Expiratory flow limitation in stable asthmatic patients during resting breathing. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1997 , 156, 752-7	10.2	55
79	Heme oxygenase inhibits human airway smooth muscle proliferation via a bilirubin-dependent modulation of ERK1/2 phosphorylation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 27160-8	5.4	55
78	Early release of proinflammatory cytokines after lung transplantation. <i>Chest</i> , 1998 , 113, 645-51	5.3	55
77	Heme oxygenase attenuates allergen-induced airway inflammation and hyperreactivity in guinea pigs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 287, L26-34	5.8	53
76	Cellular and molecular mechanisms of goblet cell metaplasia in the respiratory airways. <i>Experimental Lung Research</i> , 2013 , 39, 207-16	2.3	51
75	Mitochondrial and cellular heme-dependent proteins as targets for the bioactive function of the heme oxygenase/carbon monoxide system. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 2139-55	8.4	51
74	Tumor cell phenotype is sustained by selective MAPK oxidation in mitochondria. <i>PLoS ONE</i> , 2008 , 3, e23797	3.9	50
73	Signalling pathways from NADPH oxidase-4 to idiopathic pulmonary fibrosis. <i>International Journal of Biochemistry and Cell Biology</i> , 2011 , 43, 1086-9	5.6	49
72	Predominant role of A1 adenosine receptors in mediating adenosine induced vasodilatation of rat diaphragmatic arterioles: involvement of nitric oxide and the ATP-dependent K ⁺ channels. <i>British Journal of Pharmacology</i> , 1997 , 121, 1355-63	8.6	48
71	Keratinocyte growth factor protects against elastase-induced pulmonary emphysema in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 293, L1230-9	5.8	47
70	Inducible nitric oxide synthase (NOS2) expressed in septic patients is nitrated on selected tyrosine residues: implications for enzymic activity. <i>Biochemical Journal</i> , 2002 , 366, 399-404	3.8	47
69	Diaphragmatic fatigue during sepsis and septic shock. <i>Intensive Care Medicine</i> , 2005 , 31, 1611-7	14.5	45
68	Autophagy as a Possible Underlying Mechanism of Nanomaterial Toxicity. <i>Nanomaterials</i> , 2014 , 4, 548-58	5.4	42

67	Respiratory toxicities of nanomaterials -- a focus on carbon nanotubes. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 1694-9	18.5	42
66	Decreased pulmonary and tracheal smooth muscle expression and activity of type 1 nitric oxide synthase (nNOS) after ovalbumin immunization and multiple aerosol challenge in guinea pigs. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 164, 149-54	10.2	42
65	Bronchopulmonary dysplasia and emphysema: in search of common therapeutic targets. <i>Trends in Molecular Medicine</i> , 2009 , 15, 169-79	11.5	41
64	Effects of N-acetylcysteine on diaphragmatic function and malondialdehyde content in Escherichia coli endotoxemic rats. <i>The American Review of Respiratory Disease</i> , 1992 , 146, 730-4		38
63	Fine PM induce airway MUC5AC expression through the autocrine effect of amphiregulin. <i>Archives of Toxicology</i> , 2012 , 86, 1851-9	5.8	36
62	Heme oxygenase-1 prevents airway mucus hypersecretion induced by cigarette smoke in rodents and humans. <i>American Journal of Pathology</i> , 2008 , 173, 981-92	5.8	36
61	A comparative transmission electron microscopy study of titanium dioxide and carbon black nanoparticles uptake in human lung epithelial and fibroblast cell lines. <i>Toxicology in Vitro</i> , 2012 , 26, 57-66	3.6	34
60	Telomere Dysfunction and Cell Senescence in Chronic Lung Diseases: Therapeutic Potential. <i>Pharmacology & Therapeutics</i> , 2015 , 153, 125-34	13.9	33
59	Tumor necrosis factor-alpha increases airway smooth muscle oxidants production through a NADPH oxidase-like system to enhance myosin light chain phosphorylation and contractility. <i>Journal of Biological Chemistry</i> , 2002 , 277, 22814-21	5.4	33
58	Carbon nanotubes, but not spherical nanoparticles, block autophagy by a shape-related targeting of lysosomes in murine macrophages. <i>Autophagy</i> , 2018 , 14, 1323-1334	10.2	33
57	P21-dependent protective effects of a carbon monoxide-releasing molecule-3 in pulmonary hypertension. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 304-12	9.4	32
56	Peroxynitrite-mediated mitochondrial dysfunction. <i>NeuroSignals</i> , 2001 , 10, 66-80	1.9	32
55	The role of Kupffer cells in the hepatic response to silver nanoparticles. <i>Nanotoxicology</i> , 2014 , 8 Suppl 1, 149-54	5.3	30
54	Flow limitation and dynamic hyperinflation during exercise in COPD patients after single lung transplantation. <i>Chest</i> , 2000 , 118, 1248-54	5.3	30
53	Preventive effects of indomethacin on diaphragmatic contractile alterations in endotoxemic rats. <i>The American Review of Respiratory Disease</i> , 1990 , 142, 193-8		30
52	Heme oxygenase-1 induction attenuates senescence in chronic obstructive pulmonary disease lung fibroblasts by protecting against mitochondria dysfunction. <i>Aging Cell</i> , 2018 , 17, e12837	9.9	30
51	Pulmonary exposure to metallic nanomaterials during pregnancy irreversibly impairs lung development of the offspring. <i>Nanotoxicology</i> , 2017 , 11, 484-495	5.3	29
50	Role for telomerase in pulmonary hypertension. <i>Circulation</i> , 2015 , 131, 742-755	16.7	29

49	Induction of heme oxygenase-1, biliverdin reductase and H-ferritin in lung macrophage in smokers with primary spontaneous pneumothorax: role of HIF-1alpha. <i>PLoS ONE</i> , 2010 , 5, e10886	3.7	29
48	Intracellular fate of carbon nanotubes inside murine macrophages: pH-dependent detachment of iron catalyst nanoparticles. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 24	8.4	26
47	Aging-related systemic manifestations in COPD patients and cigarette smokers. <i>PLoS ONE</i> , 2015 , 10, e0121539	3.7	26
46	Interaction of matrix metalloproteinases with pulmonary pollutants. <i>European Respiratory Journal</i> , 2012 , 39, 1021-32	13.6	26
45	Heme oxygenase modulates oxidant-signaled airway smooth muscle contractility: role of bilirubin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002 , 283, L596-603	5.8	26
44	Titanium dioxide nanoparticles induce matrix metalloprotease 1 in human pulmonary fibroblasts partly via an interleukin-1 β -dependent mechanism. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 48, 354-63	5.7	25
43	Longitudinal and noninvasive assessment of emphysema evolution in a murine model using proton MRI. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 898-904	4.4	24
42	Heme oxygenase-1 is expressed in carotid atherosclerotic plaques infected by <i>Helicobacter pylori</i> and is more prevalent in asymptomatic subjects. <i>Stroke</i> , 2005 , 36, 1896-900	6.7	24
41	In vivo study of the effect of systemic hypoxia on leukocyte-endothelium interactions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1998 , 158, 477-83	10.2	24
40	The mitochondrial interplay of ubiquinol and nitric oxide in endotoxemia. <i>Methods in Enzymology</i> , 2004 , 382, 67-81	1.7	21
39	Combined Effects of in Utero and Adolescent Tobacco Smoke Exposure on Lung Function in C57Bl/6J Mice. <i>Environmental Health Perspectives</i> , 2017 , 125, 392-399	8.4	18
38	Sepsis is associated with reciprocal expressional modifications of constitutive nitric oxide synthase (NOS) in human skeletal muscle: down-regulation of NOS1 and up-regulation of NOS3. <i>Critical Care Medicine</i> , 2001 , 29, 1720-5	1.4	18
37	Permanent culture of macrophages at physiological oxygen attenuates the antioxidant and immunomodulatory properties of dimethyl fumarate. <i>Journal of Cellular Physiology</i> , 2015 , 230, 1128-38	7	17
36	Telomere Shortening in Middle-Aged Men with Sleep-disordered Breathing. <i>Annals of the American Thoracic Society</i> , 2016 , 13, 1136-43	4.7	16
35	Role of nitric oxide synthases in elastase-induced emphysema. <i>Laboratory Investigation</i> , 2011 , 91, 353-62	5.9	15
34	Smoking, telomere length and lung function decline: a longitudinal population-based study. <i>Thorax</i> , 2018 , 73, 283-285	7.3	14
33	Effects of polycythemia on systemic endothelial function in chronic hypoxic lung disease. <i>Journal of Applied Physiology</i> , 2011 , 110, 1196-203	3.7	14
32	Exposure to metal oxide nanoparticles administered at occupationally relevant doses induces pulmonary effects in mice. <i>Nanotoxicology</i> , 2016 , 10, 1535-1544	5.3	14

31	Intratracheally administered titanium dioxide or carbon black nanoparticles do not aggravate elastase-induced pulmonary emphysema in rats. <i>BMC Pulmonary Medicine</i> , 2012 , 12, 38	3.5	13
30	What's new in Nanotoxicology? Brief review of the 2007 literature. <i>Nanotoxicology</i> , 2008 , 2, 171-182	5.3	13
29	Interaction between a heme oxygenase-1 gene promoter polymorphism and serum beta-carotene levels on 8-year lung function decline in a general population: the European Community Respiratory Health Survey (France). <i>American Journal of Epidemiology</i> , 2008 , 167, 139-44	3.8	13
28	A preparation for in vivo study of the diaphragmatic microcirculation in the rat. <i>Microvascular Research</i> , 1990 , 40, 157-67	3.7	13
27	Lung fibroblasts share mesenchymal stem cell features which are altered in chronic obstructive pulmonary disease via the overactivation of the Hedgehog signaling pathway. <i>PLoS ONE</i> , 2015 , 10, e0121579	3.7	10
26	Systemic arteriovenous fistula leads to pulmonary artery remodeling and abnormal vasoreactivity in the fetal lamb. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003 , 285, L701-8	5.8	10
25	Cigarette smoking induces human CCR6Th17 lymphocytes senescence and VEGF-A secretion. <i>Scientific Reports</i> , 2020 , 10, 6488	4.9	8
24	Pulmonary Effects of Adjusting Tidal Volume to Actual or Ideal Body Weight in Ventilated Obese Mice. <i>Scientific Reports</i> , 2018 , 8, 6439	4.9	8
23	Early signs of multi-walled carbon nanotubes degradation in macrophages, via an intracellular pH-dependent biological mechanism; importance of length and functionalization. <i>Particle and Fibre Toxicology</i> , 2016 , 13, 61	8.4	8
22	Effects of riluzole on N-methyl-D-aspartate-induced tyrosine phosphorylation in the rat hippocampus. <i>Brain Research</i> , 2001 , 903, 222-5	3.7	8
21	Anesthetic concentrations of riluzole inhibit neuronal nitric oxide synthase activity, but not expression, in the rat hippocampus. <i>Brain Research</i> , 2000 , 881, 237-40	3.7	8
20	Effects of inhibition of nitric oxide synthesis on TNF alpha serum levels in E. coli endotoxemic rats. <i>Life Sciences</i> , 1995 , 57, PL147-52	6.8	8
19	The role of p53 in lung macrophages following exposure to a panel of manufactured nanomaterials. <i>Archives of Toxicology</i> , 2015 , 89, 1543-56	5.8	6
18	Lack of Transcription Factor p53 Exacerbates Elastase-Induced Emphysema in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016 , 54, 188-99	5.7	5
17	Beclin1 circulating levels and accelerated aging markers in COPD. <i>Cell Death and Disease</i> , 2018 , 9, 156	9.8	5
16	Theophylline dilates rat diaphragm arterioles via the prostaglandins pathway. <i>British Journal of Pharmacology</i> , 1998 , 124, 1355-62	8.6	5
15	Absence of the Adaptor Protein PEA-15 Is Associated with Altered Pattern of Th Cytokines Production by Activated CD4+ T Lymphocytes In Vitro, and Defective Red Blood Cell Alloimmune Response In Vivo. <i>PLoS ONE</i> , 2015 , 10, e0136885	3.7	5
14	Substantial modification of the gene expression profile following exposure of macrophages to welding-related nanoparticles. <i>Scientific Reports</i> , 2018 , 8, 8554	4.9	4

13	Targeting p16 Promotes Lipofibroblasts and Alveolar Regeneration after Early-Life Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 202, 1088-1104	10.2	3
12	Are Systemic Manifestations Ascribable to COPD in Smokers? A Structural Equation Modeling Approach. <i>Scientific Reports</i> , 2018 , 8, 8569	4.9	3
11	Lung infection and the diaphragm: placing basic research in clinical perspective. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004 , 169, 662-3	10.2	3
10	Macrophage autophagy protects mice from cerium oxide nanoparticle-induced lung fibrosis. <i>Particle and Fibre Toxicology</i> , 2021 , 18, 6	8.4	3
9	Anti-inflammatory effect of gold nanoparticles supported on metal oxides. <i>Scientific Reports</i> , 2021 , 11, 23129	4.9	2
8	Association entre la diminution de la fonction pulmonaire et le polymorphisme du promoteur du gène de l'hème oxygénase chez des adultes jeunes issus de la population générale. Étude longitudinale européenne sur la santé respiratoire (ECRHS-France).. <i>Bulletin De L'Académie Nationale De Médecine</i> , 2009 , 103, 677-681	0.1	1
7	Inflammatory Cellular Response to Mechanical Ventilation in Elastase-Induced Experimental Emphysema: Role of Preexisting Alveolar Macrophages Infiltration. <i>BioMed Research International</i> , 2018 , 2018, 5721293	3	1
6	Beclin-1 increases with obstructive sleep apnea severity. <i>Sleep Medicine</i> , 2021 , 81, 474-476	4.6	0
5	COPD as a Disease of Premature Aging 2014 , 173-183		
4	Diaphragmatic fatigue during sepsis and septic shock 2009 , 395-401		
3	Diaphragmatic fatigue during sepsis and septic shock 2006 , 323-329		
2	Heme Oxygenase in Skeletal Muscle 2002 , 205-213		
1	Carbon Black Nanoparticles Selectively Alter Follicle-Stimulating Hormone Expression and in Female Mice.. <i>Frontiers in Neuroscience</i> , 2021 , 15, 780698	5.1	