James C Bonner

List of Publications by Year
in descending order

115 papers	6,547 citations	66315 42 h-index	64755 79 g-index
116 all docs	116 docs citations	116 times ranked	7310 citing authors

#	Article	IF	Citations
1	Synergistic induction of IL-6 production in human bronchial epithelial cells in vitro by nickel nanoparticles and lipopolysaccharide is mediated by STAT3 and C/EBPÎ². Toxicology in Vitro, 2022, 83, 105394.	1.1	2
2	Pulmonary exposure of mice to ammonium perfluoro(2-methyl-3-oxahexanoate) (GenX) suppresses the innate immune response to carbon black nanoparticles and stimulates lung cell proliferation. Inhalation Toxicology, 2022, 34, 244-259.	0.8	1
3	Femtosecond pulsed laser microscopy: a new tool to assess the in vitro delivered dose of carbon nanotubes in cell culture experiments. Particle and Fibre Toxicology, 2021, 18, 9.	2.8	2
4	STAT6-dependent exacerbation of house dust mite-induced allergic airway disease in mice by multi-walled carbon nanotubes. NanoImpact, 2021, 22, 100309.	2.4	5
5	Osteopontin mRNA expression by rat mesothelial cells exposed to multi-walled carbon nanotubes as a potential biomarker of chronic neoplastic transformation in vitro. Toxicology in Vitro, 2021, 73, 105126.	1.1	2
6	Sex Differences in Pulmonary Eicosanoids and Specialized Pro-Resolving Mediators in Response to Ozone Exposure. Toxicological Sciences, 2021, 183, 170-183.	1.4	25
7	The pulmonary toxicity of carboxylated or aminated multi-walled carbon nanotubes in mice is determined by the prior purification method. Particle and Fibre Toxicology, 2020, 17, 60.	2.8	17
8	Sex differences in the acute and subchronic lung inflammatory responses of mice to nickel nanoparticles. Nanotoxicology, 2020, 14, 1058-1081.	1.6	27
9	Susceptibility Factors in Chronic Lung Inflammatory Responses to Engineered Nanomaterials. International Journal of Molecular Sciences, 2020, 21, 7310.	1.8	9
10	Macrophages: First Innate Immune Responders to Nanomaterials. Molecular and Integrative Toxicology, 2020, , 15-34.	0.5	5
11	Inhalation exposure to multi-walled carbon nanotubes alters the pulmonary allergic response of mice to house dust mite allergen. Inhalation Toxicology, 2019, 31, 192-202.	0.8	14
12	The Toxicology of Engineered Nanomaterials in Asthma. Current Environmental Health Reports, 2018, 5, 100-109.	3.2	23
13	Signal Transducer and Activator of Transcription 1 Regulates Multiwalled Carbon Nanotubeâ€"induced Pulmonary Fibrosis in Mice via Suppression of Transforming Growth Factor-Î²1 Production and Signaling. Annals of the American Thoracic Society, 2018, 15, S129-S130.	1.5	2
14	Mechanisms of carbon nanotubeâ€induced pulmonary fibrosis: a physicochemical characteristic perspective. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1498.	3.3	48
15	Role of p53 in the chronic pulmonary immune response to tangled or rod-like multi-walled carbon nanotubes. Nanotoxicology, 2018, 12, 975-991.	1.6	12
16	Mapping differential cellular protein response of mouse alveolar epithelial cells to multi-walled carbon nanotubes as a function of atomic layer deposition coating. Nanotoxicology, 2017, 11, 313-326.	1.6	4
17	STAT1-dependent and -independent pulmonary allergic and fibrogenic responses in mice after exposure to tangled versus rod-like multi-walled carbon nanotubes. Particle and Fibre Toxicology, 2017, 14, 26.	2.8	41
18	Toxicological Effects of Carbon Nanotubes. , 2017, , 1476-1491.		0

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19	Expert consensus on an in vitro approach to assess pulmonary fibrogenic potential of aerosolized nanomaterials. Archives of Toxicology, 2016, 90, 1769-1783.	1.9	52
20	Multiwalled Carbon Nanotube Functionalization with High Molecular Weight Hyaluronan Significantly Reduces Pulmonary Injury. ACS Nano, 2016, 10, 7675-7688.	7.3	41
21	Fibrogenic and Immunotoxic Responses to Carbon Nanotubes. Current Topics in Environmental Health and Preventive Medicine, 2016, , 103-122.	0.1	1
22	Atomic layer deposition coating of carbon nanotubes with zinc oxide causes acute phase immune responses in human monocytes in vitro and in mice after pulmonary exposure. Particle and Fibre Toxicology, 2015, 13, 29.	2.8	17
23	Toxicoproteomic analysis of pulmonary carbon nanotube exposure using LC-MS/MS. Toxicology, 2015, 329, 80-87.	2.0	14
24	Role of Signal Transducer and Activator of Transcription 1 in Murine Allergenâ€“Induced Airway Remodeling and Exacerbation by Carbon Nanotubes. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 625-636.	1.4	36
25	An Allergic Lung Microenvironment Suppresses Carbon Nanotube-Induced Inflammasome Activation via STAT6-Dependent Inhibition of Caspase-1. PLoS ONE, 2015, 10, e0128888.	1.1	32
26	Toxicological Effects of Carbon Nanotubes. Advances in Chemical and Materials Engineering Book Series, 2015, , 333-348.	0.2	0
27	Atomic Layer Deposition Coating of Carbon Nanotubes with Aluminum Oxide Alters Pro-Fibrogenic Cytokine Expression by Human Mononuclear Phagocytes In Vitro and Reduces Lung Fibrosis in Mice In Vivo. PLoS ONE, 2014, 9, e106870.	1.1	51
28	Regulation and activity of secretory leukoprotease inhibitor (SLPI) is altered in smokers. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L269-L276.	1.3	11
29	Inflammasome activation in airway epithelial cells after multi-walled carbon nanotube exposure mediates a profibrotic response in lung fibroblasts. Particle and Fibre Toxicology, 2014, 11, 28.	2.8	109
30	Nickel Nanoparticles cause exaggerated lung and airway remodeling in mice lacking the T-box transcription factor, TBX21 (T-bet). Particle and Fibre Toxicology, 2014, 11, 7.	2.8	40
31	Genetic susceptibility to interstitial pulmonary fibrosis in mice induced by vanadium pentoxide (V₂O₅). FASEB Journal, 2014, 28, 1098-1112.	0.2	14
32	Innate Immune Responses to Nanoparticle Exposure in the Lung. Journal of Environmental Immunology and Toxicology, 2014, 2, 46.	1.1	39
33	A Multi-Stakeholder Perspective on the Use of Alternative Test Strategies for Nanomaterial Safety Assessment. ACS Nano, 2013, 7, 6422-6433.	7.3	110
34	Role of Cyclooxygenase-2 in Exacerbation of Allergen-Induced Airway Remodeling by Multiwalled Carbon Nanotubes. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 525-535.	1.4	36
35	Interlaboratory Evaluation of Rodent Pulmonary Responses to Engineered Nanomaterials: The NIEHS Nano GO Consortium. Environmental Health Perspectives, 2013, 121, 676-682.	2.8	121
36	Interlaboratory Evaluation of <i>in Vitro</i> Cytotoxicity and Inflammatory Responses to Engineered Nanomaterials: The NIEHS Nano GO Consortium. Environmental Health Perspectives, 2013, 121, 683-690.	2.8	176

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37	Nickel Nanoparticles Enhance Platelet-Derived Growth Factorâ€"Induced Chemokine Expression by Mesothelial Cells via Prolonged Mitogen-Activated Protein Kinase Activation. American Journal of Respiratory Cell and Molecular Biology, 2012, 47, 552-561.	1.4	29
38	Length-dependent retention of fibres in the pleural space. , 2012, , 87-104.		0
39	Responses to pulmonary exposure to carbon nanotubes. , 2012, , 134-149.		2
40	Multi-walled carbon nanotubes induce COX-2 and iNOS expression via MAP Kinase-dependent and -independent mechanisms in mouse RAW264.7 macrophages. Particle and Fibre Toxicology, 2012, 9, 14.	2.8	84
41	Over-expression of human endosulfatase-1 exacerbates cadmium-induced injury to transformed human lung cells in vitro. Toxicology and Applied Pharmacology, 2012, 265, 27-42.	1.3	7
42	Carbon nanotubes as delivery systems for respiratory disease: do the dangers outweigh the potential benefits?. Expert Review of Respiratory Medicine, 2011, 5, 779-787.	1.0	41
43	Dispersal State of Multiwalled Carbon Nanotubes Elicits Profibrogenic Cellular Responses That Correlate with Fibrogenesis Biomarkers and Fibrosis in the Murine Lung. ACS Nano, 2011, 5, 9772-9787.	7.3	178
44	Pulmonary Endpoints (Lung Carcinomas and Asbestosis) Following Inhalation Exposure to Asbestos. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2011, 14, 76-121.	2.9	176
45	Respiratory syncytial virus infection reduces lung inflammation and fibrosis in mice exposed to vanadium pentoxide. Respiratory Research, 2010, 11, 20.	1.4	10
46	Mesenchymal cell survival in airway and interstitial pulmonary fibrosis. Fibrogenesis and Tissue Repair, 2010, 3, 15.	3.4	76
47	Bacterial Lipopolysaccharide Enhances PDGF Signaling and Pulmonary Fibrosis in Rats Exposed to Carbon Nanotubes. American Journal of Respiratory Cell and Molecular Biology, 2010, 43, 142-151.	1.4	87
48	Nanoparticles as a Potential Cause of Pleural and Interstitial Lung Disease. Proceedings of the American Thoracic Society, 2010, 7, 138-141.	3.5	115
49	Nanoparticle-Mediated Drug Delivery and Pulmonary Hypertension. Hypertension, 2009, 53, 751-753.	1.3	7
50	Inhaled Multiwalled Carbon Nanotubes Potentiate Airway Fibrosis in Murine Allergic Asthma. American Journal of Respiratory Cell and Molecular Biology, 2009, 40, 349-358.	1.4	223
51	Inhaled carbon nanotubes reach the subpleural tissue in mice. Nature Nanotechnology, 2009, 4, 747-751.	15.6	411
52	Pulmonary applications and toxicity of engineered nanoparticles. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L400-L411.	1.3	245
53	STAT-1 Signaling in Human Lung Fibroblasts Is Induced by Vanadium Pentoxide through an IFN-Î² Autocrine Loop. Journal of Immunology, 2008, 180, 4200-4207.	0.4	30
54	Male Sex Hormones Exacerbate Lung Function Impairment after Bleomycin-Induced Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2008, 39, 45-52.	1.4	100

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55	Cyclooxygenase-2 Deficiency Exacerbates Bleomycin-Induced Lung Dysfunction but Not Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 300-308.	1.4	38
56	Lung Fibrotic Responses to Particle Exposure. Toxicologic Pathology, 2007, 35, 148-153.	0.9	86
57	Genomic analysis of human lung fibroblasts exposed to vanadium pentoxide to identify candidate genes for occupational bronchitis. Respiratory Research, 2007, 8, 34.	1.4	30
58	Single-walled carbon nanotube (SWCNT)-induced interstitial fibrosis in the lungs of rats is associated with increased levels of PDGF mRNA and the formation of unique intercellular carbon structures that bridge alveolar macrophages in situ. Particle and Fibre Toxicology, 2006, 3, 15.	2.8	118
59	EGF and PDGF Receptor Tyrosine Kinases as Therapeutic Targets for Chronic Lung Diseases. Current Molecular Medicine, 2006, 6, 409-421.	0.6	84
60	Opposing Actions of Stat1 and Stat6 on IL-13-Induced Up-Regulation of Early Growth Response-1 and Platelet-Derived Growth Factor Ligands in Pulmonary Fibroblasts. Journal of Immunology, 2006, 177, 4141-4148.	0.4	47
61	ErbB2 activity is required for airway epithelial repair following neutrophil elastase exposure. FASEB Journal, 2005, 19, 1374-1376.	0.2	16
62	Susceptibility of Signal Transducer and Activator of Transcription-1-Deficient Mice to Pulmonary Fibrogenesis. American Journal of Pathology, 2005, 167, 1221-1229.	1.9	49
63	ILâ€•13 and ILâ€•1Î² promote lung fibroblast growth through coordinated upâ€•regulation of PDGFâ€•AA and PDGFâ€•RÎ±. FASEB Journal, 2004, 18, 1132-1134.	0.2	76
64	Interleukin-1Î²â€"Induced Mucin Production in Human Airway Epithelium Is Mediated by Cyclooxygenase-2, Prostaglandin E2 Receptors, and Cyclic AMP-Protein Kinase A Signaling. Molecular Pharmacology, 2004, 66, 337-346.	1.0	97
65	Regulation of PDGF and its receptors in fibrotic diseases. Cytokine and Growth Factor Reviews, 2004, 15, 255-273.	3.2	638
66	Vanadium-induced STAT-1 activation in lung myofibroblasts requires H2O2 and P38 MAP kinase. Free Radical Biology and Medicine, 2003, 35, 845-855.	1.3	29
67	Vanadium-induced HB-EGF expression in human lung fibroblasts is oxidant dependent and requires MAP kinases. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 284, L774-L782.	1.3	43
68	Proliferation of the Airway Epithelium in Asthma. Chest, 2003, 123, 384S-385S.	0.4	7
69	Interleukin-13 Stimulates the Proliferation of Lung Myofibroblasts via a Signal Transducer and Activator of Transcription-6-Dependent Mechanism. Chest, 2003, 123, 422S-424S.	0.4	32
70	Proinflammatory and cytotoxic effects of Mexico City air pollution particulate matter in vitro are dependent on particle size and composition.. Environmental Health Perspectives, 2003, 111, 1289-1293.	2.8	243
71	p38 Mitogen-Activated Protein Kinase Regulates Growth Factorâ€"Induced Mitogenesis of Rat Pulmonary Myofibroblasts. American Journal of Respiratory Cell and Molecular Biology, 2002, 27, 759-765.	1.4	27
72	Susceptibility of Cyclooxygenase-2-Deficient Mice to Pulmonary Fibrogenesis. American Journal of Pathology, 2002, 161, 459-470.	1.9	110

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73	Mitogen-activated protein kinase activation by oxidative and bacterial stress in an amphibian cell culture model.. Environmental Health Perspectives, 2002, 110, 641-645.	2.8	8
74	Biologic effects induced in vitro by PM10 from three different zones of Mexico City.. Environmental Health Perspectives, 2002, 110, 715-720.	2.8	173
75	The epidermal growth factor receptor at the crossroads of airway remodeling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 283, L528-L530.	1.3	30
76	Regulation of PDGFR-Î± in rat pulmonary myofibroblasts by staurosporine. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L354-L362.	1.3	11
77	Role of Receptor Tyrosine Kinases and Mitogen-Activated Protein Kinases in Metal-Induced Pulmonary Fibrosis. Chest, 2001, 120, S55-S56.	0.4	0
78	Interleukin-13, a Mediator of Subepithelial Fibrosis, Enhances Growth Factor Production and Proliferation in Human Airway Epithelial Cells. Chest, 2001, 120, S15.	0.4	2
79	Vanadium Stimulates Human Bronchial Epithelial Cells to Produce Heparin-Binding Epidermal Growth Factorâ€"Like Growth Factor. American Journal of Respiratory Cell and Molecular Biology, 2001, 24, 123-131.	1.4	52
80	Interleukin-13 Induces Proliferation of Human Airway Epithelial Cells<i>In Vitro</i> via a Mechanism Mediated by Transforming Growth Factor- Î±. American Journal of Respiratory Cell and Molecular Biology, 2001, 25, 739-743.	1.4	104
81	Airway fibrosis in rats induced by vanadium pentoxide. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 278, L209-L216.	1.3	66
82	Mechanism of Extracellular Signalâ€"Regulated Kinase (ERK)-1 and ERK-2 Activation by Vanadium Pentoxide in Rat Pulmonary Myofibroblasts. American Journal of Respiratory Cell and Molecular Biology, 2000, 22, 590-596.	1.4	43
83	Regulation of Interleukin-1Î²-induced Platelet-derived Growth Factor Receptor-Î± Expression in Rat Pulmonary Myofibroblasts by p38 Mitogen-activated Protein Kinase. Journal of Biological Chemistry, 2000, 275, 22550-22557.	1.6	41
84	Peroxynitrite Targets the Epidermal Growth Factor Receptor, Raf-1, and MEK Independently to Activate MAPK. Journal of Biological Chemistry, 2000, 275, 22479-22486.	1.6	116
85	Prostaglandin-E2Counteracts Interleukin-1 Î² â€"Stimulated Upregulation of Platelet-Derived Growth Factor Î± -Receptor on Rat Pulmonary Myofibroblasts. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 433-440.	1.4	32
86	Specific Inhibitors of Platelet-Derived Growth Factor or Epidermal Growth Factor Receptor Tyrosine Kinase Reduce Pulmonary Fibrosis in Rats. American Journal of Pathology, 1999, 155, 213-221.	1.9	139
87	Induction of the Lung Myofibroblast PDGF Receptor System by Urban Ambient Particles from Mexico City. American Journal of Respiratory Cell and Molecular Biology, 1998, 19, 672-680.	1.4	107
88	Induction of PDGF receptor-Î± in rat myofibroblasts during pulmonary fibrogenesis in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 274, L72-L80.	1.3	33
89	Alveolar macrophages stimulated with titanium dioxide, chrysotile asbestos, and residual oil fly ash upregulate the PDGF receptor-alpha on lung fibroblasts through an IL-1beta-dependent mechanism.. American Journal of Respiratory Cell and Molecular Biology, 1997, 16, 283-292.	1.4	66
90	Interferon-Î³ modulates lung macrophage production of PDGF-BB and fibroblast growth. Journal of Lipid Mediators and Cell Signalling, 1996, 13, 89-97.	1.0	20

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91	Eosinophilic Lung Inflammation in Particulate-Induced Lung Injury. Technical Consideration in Isolating RNA for Gene Expression Studies. Experimental Lung Research, 1996, 22, 541-554.	0.5	20
92	Interleukin 1 beta (IL-1 beta) and the IL-1 beta-alpha 2-macroglobulin complex upregulate the platelet-derived growth factor alpha-receptor on rat pulmonary fibroblasts.. American Journal of Respiratory Cell and Molecular Biology, 1995, 13, 455-465.	1.4	47
93	Transforming growth factor beta 1 downregulates the platelet-derived growth factor alpha-receptor subtype on human lung fibroblasts in vitro.. American Journal of Respiratory Cell and Molecular Biology, 1995, 13, 496-505.	1.4	49
94	Inhibition of Platelet-derived Growth Factor-BB-induced Fibroblast Proliferation by Plasmin-activated Î±2-Macroglobulin Is Mediated via an Î±2-Macroglobulin Receptor/Low Density Lipoprotein Receptor-related Protein-dependent Mechanism. Journal of Biological Chemistry, 1995, 270, 6389-6395.	1.6	18
95	Differential Binding and Regulation of Platelet-derived Growth Factor A and B Chain Isoforms by Î±2-Macroglobulin. Journal of Biological Chemistry, 1995, 270, 16236-16242.	1.6	33
96	Platelet-derived growth factor (PDGF)-AA, -AB, and -BB induce differential chemotaxis of early-passage rat lung fibroblasts in vitro.. American Journal of Respiratory Cell and Molecular Biology, 1995, 12, 33-40.	1.4	31
97	Regulation of Platelet-Derived Growth Factor (PDGF) and Alveolar Macrophage-Derived PDGF by ?2-Macroglobulin. Annals of the New York Academy of Sciences, 1994, 737, 324-338.	1.8	11
98	Chrysotile asbestos upregulates gene expression and production of alpha-receptors for platelet-derived growth factor (PDGF-AA) on rat lung fibroblasts.. Journal of Clinical Investigation, 1993, 92, 425-430.	3.9	56
99	Interstitial pulmonary macrophages produce platelet-derived growth factor that stimulates rat lung fibroblast proliferation in vitro. Journal of Leukocyte Biology, 1992, 51, 640-648.	1.5	51
100	Differential Proliferation of Rat Lung Fibroblasts Induced by the Platelet-derived Growth Factor-AA, -AB, and -BB Isoforms Secreted by Rat Alveolar Macrophages. American Journal of Respiratory Cell and Molecular Biology, 1991, 5, 539-547.	1.4	105
101	The Pathobiology of Asbestos-Induced Lung Disease: A Proposed Role for Macrophage-Derived Growth Factors. Annals of the New York Academy of Sciences, 1991, 643, 239-244.	1.8	2
102	Platelet-Derived Growth Factor Produced by Pulmonary Cells. Chest, 1991, 99, 50S-52S.	0.4	6
103	Co-culture of primary pulmonary cells to model alveolar injury and translocation of proteins. In Vitro Cellular & Developmental Biology, 1990, 26, 1135-1143.	1.0	28
104	PDGF-stimulated fibroblast proliferation is enhanced synergistically by receptor-recognized ?2-Macroglobulin. Journal of Cellular Physiology, 1990, 145, 1-8.	2.0	60
105	Rat Alveolar Macrophage-derived Platelet-derived Growth Factor is Chemotactic for Rat Lung Fibroblasts. American Journal of Respiratory Cell and Molecular Biology, 1990, 3, 595-602.	1.4	30
106	Alpha-Macroglobulin Secreted by Alveolar Macrophages Serves as a Binding Protein for a Macrophage-derived Homologue of Platelet-derived Growth Factor. American Journal of Respiratory Cell and Molecular Biology, 1989, 1, 171-179.	1.4	29
107	Vertebrate cyclodiene insecticide resistance: Role of ?-aminobutyric acid and diazepam binding sites. Archives of Toxicology, 1988, 62, 311-315.	1.9	5
108	Alteration of the t-butylbicyclophosphorothionate binding site as a mechanism of vertebrate cyclodiene insecticide resistance. Pesticide Biochemistry and Physiology, 1987, 29, 260-265.	1.6	8

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109	Comparative acute toxicity of DDT metabolites among American and European species of planarians. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1987, 87, 437-438.	0.2	3
110	Monogenic inheritance of cyclodiene insecticide resistance in mosquitofish,Gambusia affinis. Experientia, 1986, 42, 851-853.	1.2	21
111	Flavoprotein and peroxidase as components of the indoleacetic acid oxidase system of peas. Archives of Biochemistry and Biophysics, 1953, 42, 456-470.	1.4	155
112	Respiratory Toxicity. , 0, , 317-325.		1
113	Experimental carcinogenicity of carbon nanotubes in the context of other fibres. , 0, , 105-117.		0
114	CNT biopersistence and the fibre paradigm. , 0, , 73-86.		2
115	Fate and effects of carbon nanotubes following inhalation. , 0, , 118-133.		3