

# Charis Roussos

## List of Publications by Year in descending order

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121  
papers

7,066  
citations

38742

50  
h-index

62596

80  
g-index

124  
all docs

124  
docs citations

124  
times ranked

7178  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aminophylline Improves Diaphragmatic Contractility. New England Journal of Medicine, 1981, 305, 249-252.	27.0	399
2	Effect of Carbon Dioxide on Diaphragmatic Function in Human Beings. New England Journal of Medicine, 1984, 310, 874-879.	27.0	316
3	Electrical muscle stimulation preserves the muscle mass of critically ill patients: a randomized study. Critical Care, 2009, 13, R161.	5.8	266
4	The Tensionâ€“Time Index and the Frequency/ Tidal Volume Ratio Are the Major Pathophysiologic Determinants of Weaning Failure and Success. American Journal of Respiratory and Critical Care Medicine, 1998, 158, 378-385.	5.6	258
5	Skeletal Muscle Adaptations to Interval Training in Patients With Advanced COPD. Chest, 2005, 128, 3838-3845.	0.8	179
6	Clinical review: severe asthma. Critical Care, 2002, 6, 30.	5.8	176
7	Neutrophil CD64 expression and serum IL-8: Sensitive early markers of severity and outcome in sepsis. Cytokine, 2006, 36, 283-290.	3.2	168
8	Production of Interleukin-6 by Skeletal Myotubes. American Journal of Respiratory Cell and Molecular Biology, 2002, 26, 587-593.	2.9	159
9	Inhibition of LPS-stimulated pathways in macrophages by the flavonoid luteolin. British Journal of Pharmacology, 2002, 136, 1058-1064.	5.4	158
10	Pulmonary Capillary Endothelium-Bound Angiotensin-Converting Enzyme Activity in Acute Lung Injury. Circulation, 2000, 102, 2011-2018.	1.6	153
11	Hypothalamic-pituitary-adrenal axis dysfunction in critically ill patients with traumatic brain injury: Incidence, pathophysiology, and relationship to vasopressor dependence and peripheral interleukin-6 levels*. Critical Care Medicine, 2004, 32, 404-408.	0.9	150
12	Antioxidants attenuate the plasma cytokine response to exercise in humans. Journal of Applied Physiology, 2003, 94, 1025-1032.	2.5	149
13	Luteolin Reduces Lipopolysaccharide-induced Lethal Toxicity and Expression of Proinflammatory Molecules in Mice. American Journal of Respiratory and Critical Care Medicine, 2002, 165, 818-823.	5.6	140
14	Angiopietinâ€“1 inhibits endothelial permeability, neutrophil adherence and ILâ€“6 production. British Journal of Pharmacology, 2003, 139, 329-336.	5.4	140
15	Enzymatic esterification of flavonoids with unsaturated fatty acids: Effect of the novel esters on vascular endothelial growth factor release from K562 cells. Process Biochemistry, 2006, 41, 2029-2034.	3.7	114
16	Effects of rehabilitative exercise on peripheral muscle TNFâ„, IL-6, IGF-I and MyoD expression in patients with COPD. Thorax, 2007, 62, 950-956.	5.6	107
17	Expiratory Flow Limitation and Intrinsic Positive End-Expiratory Pressure at Zero Positive End-Expiratory Pressure in Patients with Adult Respiratory Distress Syndrome. American Journal of Respiratory and Critical Care Medicine, 2000, 161, 1590-1596.	5.6	103
18	Tumor Necrosis Factor-â„ Promotes Malignant Pleural Effusion. Cancer Research, 2007, 67, 9825-9834.	0.9	102

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19	Effect of Pulmonary Rehabilitation on Peripheral Muscle Fiber Remodeling in Patients With COPD in GOLD Stages II to IV. <i>Chest</i> , 2011, 140, 744-752.	0.8	99
20	A Central Role for Tumor-derived Monocyte Chemoattractant Protein-1 in Malignant Pleural Effusion. <i>Journal of the National Cancer Institute</i> , 2008, 100, 1464-1476.	6.3	88
21	Short-term Systemic Effect of Electrical Muscle Stimulation in Critically Ill Patients. <i>Chest</i> , 2009, 136, 1249-1256.	0.8	88
22	Effects of positive end-expiratory pressure on gas exchange and expiratory flow limitation in adult respiratory distress syndrome*. <i>Critical Care Medicine</i> , 2002, 30, 1941-1949.	0.9	85
23	High prevalence of decreased cortisol reserve in brain-dead potential organ donors. <i>Critical Care Medicine</i> , 2003, 31, 1113-1117.	0.9	85
24	Endocrine abnormalities in critical care patients with moderate-to-severe head trauma: incidence, pattern and predisposing factors. <i>Intensive Care Medicine</i> , 2004, 30, 1051-1057.	8.2	83
25	Perillyl Alcohol Is an Angiogenesis Inhibitor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 311, 568-575.	2.5	80
26	Mastic Oil from <i>Pistacia lentiscus</i> var. <i>chia</i> Inhibits Growth and Survival of Human K562 Leukemia Cells and Attenuates Angiogenesis. <i>Nutrition and Cancer</i> , 2006, 55, 86-93.	2.0	77
27	Early heart rate recovery after exercise predicts mortality in patients with chronic heart failure. <i>International Journal of Cardiology</i> , 2006, 110, 393-400.	1.7	75
28	Prolonged use of carbapenems and colistin predisposes to ventilator-associated pneumonia by pandrug-resistant <i>Pseudomonas aeruginosa</i> . <i>Intensive Care Medicine</i> , 2007, 33, 1524-1532.	8.2	75
29	Respiratory Muscles Performance Is Related to Oxygen Kinetics During Maximal Exercise and Early Recovery in Patients With Congestive Heart Failure. <i>Circulation</i> , 1999, 100, 503-508.	1.6	72
30	Soluble triggering receptor expressed on myeloid cells 1 as an anti-inflammatory mediator in sepsis. <i>Intensive Care Medicine</i> , 2006, 32, 237-243.	8.2	72
31	Intercostal muscle blood flow limitation in athletes during maximal exercise. <i>Journal of Physiology</i> , 2009, 587, 3665-3677.	2.9	70
32	Effects of exercise rehabilitation program on heart rate recovery in patients with chronic heart failure. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2006, 13, 67-73.	2.8	69
33	Contribution of Pain to Inspiratory Muscle Dysfunction after Upper Abdominal Surgery. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000, 161, 1372-1375.	5.6	68
34	Effects of exercise rehabilitation program on heart rate recovery in patients with chronic heart failure. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2006, 13, 67-73.	2.8	68
35	Frontal cerebral cortex blood flow, oxygen delivery and oxygenation during normoxic and hypoxic exercise in athletes. <i>Journal of Physiology</i> , 2011, 589, 4027-4039.	2.9	68
36	Osteopontin Deficiency Protects against Airway Remodeling and Hyperresponsiveness in Chronic Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 179, 894-902.	5.6	65

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37	Strenuous Resistive Breathing Induces Plasma Cytokines. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 1572-1578.	5.6	64
38	Human respiratory muscle blood flow measured by near-infrared spectroscopy and indocyanine green. Journal of Applied Physiology, 2008, 104, 1202-1210.	2.5	63
39	Pulmonary Capillary Endothelium-Bound Angiotensin-Converting Enzyme Activity in Humans. Circulation, 1999, 99, 1593-1599.	1.6	62
40	Reactive oxygen species stimulate VEGF production from C <sub>2</sub> C <sub>12</sub> skeletal myotubes through a PI3K/Akt pathway. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L585-L592.	2.9	62
41	Inspiratory Resistive Breathing Induces Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1129-1136.	5.6	59
42	Early recovery of oxygen kinetics after submaximal exercise test predicts functional capacity in patients with chronic heart failure. European Journal of Heart Failure, 2001, 3, 685-692.	7.1	57
43	The effects of exercise training on the kinetics of oxygen uptake in patients with chronic heart failure. European Journal of Cardiovascular Prevention and Rehabilitation, 2007, 14, 304-311.	2.8	57
44	Intercostal Muscle Blood Flow Limitation during Exercise in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1105-1113.	5.6	56
45	Host-derived Interleukin-5 Promotes Adenocarcinoma-induced Malignant Pleural Effusion. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1273-1281.	5.6	56
46	Respiratory kinematics by optoelectronic plethysmography during exercise in men and women. European Journal of Applied Physiology, 2005, 93, 581-587.	2.5	55
47	Angiopietin-1 Protects against Airway Inflammation and Hyperreactivity in Asthma. American Journal of Respiratory and Critical Care Medicine, 2008, 177, 1314-1321.	5.6	52
48	Near-infrared spectroscopy and indocyanine green derived blood flow index for noninvasive measurement of muscle perfusion during exercise. Journal of Applied Physiology, 2010, 108, 962-967.	2.5	52
49	Effects of Interval Cycle Training With or Without Strength Training on Vascular Reactivity in Heart Failure Patients. Journal of Cardiac Failure, 2011, 17, 585-591.	1.7	52
50	Predictors of Outcome After Exacerbation of Chronic Obstructive Pulmonary Disease. Journal of General Internal Medicine, 2009, 24, 1043-1048.	2.6	51
51	Protective Effects of Mastic Oil From <i>Pistacia Lentiscus</i> Variation <i>Chia</i> Against Experimental Growth of Lewis Lung Carcinoma. Nutrition and Cancer, 2009, 61, 640-648.	2.0	51
52	Respiratory mechanics in brain-damaged patients. Intensive Care Medicine, 2006, 32, 1947-1954.	8.2	49
53	Zoledronic Acid Is Effective against Experimental Malignant Pleural Effusion. American Journal of Respiratory and Critical Care Medicine, 2008, 178, 50-59.	5.6	48
54	MAPKs and NF- $\kappa$ B differentially regulate cytokine expression in the diaphragm in response to resistive breathing: the role of oxidative stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R1152-R1162.	1.8	48

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55	Effect of helium breathing on intercostal and quadriceps muscle blood flow during exercise in COPD patients. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R1549-R1559.	1.8	46
56	Acute Effects of Smoking on Skeletal Muscle Microcirculation Monitored by Near-Infrared Spectroscopy. <i>Chest</i> , 2007, 131, 1479-1485.	0.8	45
57	The low-dose corticotropin stimulation test in acute traumatic and non-traumatic brain injury: incidence of hypo-responsiveness and relationship to outcome. <i>Intensive Care Medicine</i> , 2004, 30, 1216-1219.	8.2	44
58	Pulmonary capillary endothelial dysfunction in early systemic sclerosis. <i>Arthritis and Rheumatism</i> , 2001, 44, 902-911.	6.7	43
59	VE/VCO <sub>2</sub> slope is associated with abnormal resting haemodynamics and is a predictor of long-term survival in chronic heart failure. <i>European Journal of Heart Failure</i> , 2006, 8, 420-427.	7.1	42
60	Risk factors for carbapenem-resistant Gram-negative bacteremia in intensive care unit patients. <i>Intensive Care Medicine</i> , 2013, 39, 1253-1261.	8.2	42
61	Impairment of Autonomic Nervous System Activity in Patients With Pulmonary Arterial Hypertension: A Case Control Study. <i>Journal of Cardiac Failure</i> , 2009, 15, 882-889.	1.7	40
62	Glucocorticoid and Estrogen Receptors Are Reduced in Mitochondria of Lung Epithelial Cells in Asthma. <i>PLoS ONE</i> , 2012, 7, e39183.	2.5	39
63	Contribution of respiratory muscle blood flow to exercise-induced diaphragmatic fatigue in trained cyclists. <i>Journal of Physiology</i> , 2008, 586, 5575-5587.	2.9	38
64	Effects of hypoxia on diaphragmatic fatigue in highly trained athletes. <i>Journal of Physiology</i> , 2007, 581, 299-308.	2.9	36
65	Strenuous resistive breathing induces proinflammatory cytokines and stimulates the HPA axis in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R1013-R1019.	1.8	35
66	Hypoxaemic reperfusion ameliorates the histopathological changes in the pig brain after a severe global cerebral ischaemic insult. <i>Intensive Care Medicine</i> , 2001, 27, 905-910.	8.2	35
67	Inotropic Agents Improve the Peripheral Microcirculation of Patients With End-Stage Chronic Heart Failure. <i>Journal of Cardiac Failure</i> , 2008, 14, 400-406.	1.7	35
68	Physical Exercise Improves the Peripheral Microcirculation of Patients With Chronic Heart Failure. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , 2009, 29, 385-391.	2.1	34
69	Enzymatic transformation of flavonoids and terpenoids: Structural and functional diversity of the novel derivatives. <i>Pure and Applied Chemistry</i> , 2010, 82, 1-16.	1.9	33
70	Angiotensin-2 Levels Are Elevated in Exudative Pleural Effusions. <i>Chest</i> , 2006, 129, 1259-1266.	0.8	32
71	Neutralization of Tumor Necrosis Factor Bioactivity Ameliorates Urethane-Induced Pulmonary Oncogenesis in Mice. <i>Neoplasia</i> , 2011, 13, 1143-1151.	5.3	31
72	A transcriptomic computational analysis of mastic oil-treated Lewis lung carcinomas reveals molecular mechanisms targeting tumor cell growth and survival. <i>BMC Medical Genomics</i> , 2009, 2, 68.	1.5	30

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73	Contribution of Expiratory Muscle Pressure to Dynamic Intrinsic Positive End-Expiratory Pressure. American Journal of Respiratory and Critical Care Medicine, 2000, 162, 1633-1640.	5.6	28
74	Resting Lung Function and Hemodynamic Parameters as Predictors of Exercise Capacity in Patients With Chronic Heart Failure. Chest, 2003, 123, 1386-1393.	0.8	28
75	Specific effects of bortezomib against experimental malignant pleural effusion: a preclinical study. Molecular Cancer, 2010, 9, 56.	19.2	28
76	Effects of interval exercise training on respiratory drive in patients with chronic heart failure. Respiratory Medicine, 2010, 104, 1557-1565.	2.9	28
77	Prolonged occupational exposure leads to allergic airway sensitization and chronic airway and systemic inflammation in professional firefighters. Respiratory Medicine, 2016, 118, 7-14.	2.9	28
78	Average Volume-Assured Pressure Support in a 16-Year-Old Girl with Congenital Central Hypoventilation Syndrome. Journal of Clinical Sleep Medicine, 2010, 06, 609-612.	2.6	27
79	Bench-to-bedside review: weaning failure--should we rest the respiratory muscles with controlled mechanical ventilation?. Critical Care, 2005, 10, 204.	5.8	26
80	The combination of the load/force balance and the frequency/tidal volume can predict weaning outcome. Intensive Care Medicine, 2006, 32, 684-691.	8.2	25
81	Effects of interval-load versus constant-load training on the BODE index in COPD patients. Respiratory Medicine, 2009, 103, 1392-1398.	2.9	24
82	Effect of Theophylline on Respiratory Muscle Function. Chest, 1985, 88, 91S-97S.	0.8	22
83	Prolonged Oxygen Kinetics During Early Recovery From Maximal Exercise in Adult Patients With Cystic Fibrosis. Chest, 2001, 119, 1073-1078.	0.8	22
84	Nitric Oxide Stimulates Interleukin-6 Production in Skeletal Myotubes. Journal of Interferon and Cytokine Research, 2010, 30, 321-327.	1.2	22
85	Exhaled Breath Condensate in Mechanically Ventilated Brain-injured Patients with No Lung Injury or Sepsis. Anesthesiology, 2011, 114, 1118-1129.	2.5	22
86	Antioxidants Increase the Ventilatory Response to Hyperoxic Hypercapnia. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 62-68.	5.6	21
87	Pulmonary function at peak exercise in patients with chronic heart failure. International Journal of Cardiology, 2007, 118, 28-35.	1.7	21
88	Predictors of positive sputum cultures in exacerbations of chronic obstructive pulmonary disease. Respiriology, 2009, 14, 1114-1120.	2.3	21
89	The Angiopoietin/Tie2 Axis Mediates Malignant Pleural Effusion Formation. Neoplasia, 2009, 11, 298-304.	5.3	21
90	Weaning from mechanical ventilation. Journal of Critical Care, 1999, 14, 39-62.	2.2	20

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91	Expiratory muscle loading increases intercostal muscle blood flow during leg exercise in healthy humans. <i>Journal of Applied Physiology</i> , 2010, 109, 388-395.	2.5	20
92	Fatal post-traumatic zygomycosis in an immunocompetent young patient. <i>Journal of Medical Microbiology</i> , 2007, 56, 1243-1245.	1.8	18
93	Hypoxemic resuscitation prevents pulmonary capillary endothelial dysfunction induced by normoxemic resuscitation from hemorrhagic shock. <i>Critical Care Medicine</i> , 2009, 37, 869-875.	0.9	18
94	Cardiopulmonary Rehabilitation Enhances Heart Rate Recovery in Patients with COPD. <i>Respiratory Care</i> , 2012, 57, 2095-103.	1.6	18
95	Opposing effects of bortezomib-induced nuclear factor- $\kappa$ B inhibition on chemical lung carcinogenesis. <i>Carcinogenesis</i> , 2012, 33, 859-867.	2.8	17
96	Nitric oxide regulates cytokine induction in the diaphragm in response to inspiratory resistive breathing. <i>Journal of Applied Physiology</i> , 2012, 113, 1594-1603.	2.5	17
97	Effects of exercise-induced arterial hypoxaemia and work rate on diaphragmatic fatigue in highly trained endurance athletes. <i>Journal of Physiology</i> , 2006, 572, 539-549.	2.9	16
98	Allergic inflammation does not impact chemical-induced carcinogenesis in the lungs of mice. <i>Respiratory Research</i> , 2010, 11, 118.	3.6	16
99	Acute effects of smoke exposure on airway and systemic inflammation in forest firefighters. <i>Journal of Asthma and Allergy</i> , 2018, Volume 11, 81-88.	3.4	16
100	Adrenal function in non-septic long-stay critically ill patients: evaluation with the low-dose (1 $\mu$ g) corticotropin stimulation test. <i>Intensive Care Medicine</i> , 2002, 28, 1168-1171.	8.2	14
101	Respiratory Muscle Failure: Fatigue or Weakness?. <i>Chest</i> , 1986, 89, 116-124.	0.8	13
102	Mastic Oil Inhibits the Metastatic Phenotype of Mouse Lung Adenocarcinoma Cells. <i>Cancers</i> , 2011, 3, 789-801.	3.7	12
103	Relationship of thyroid function to post-traumatic S-100b serum levels in survivors of severe head injury: preliminary results. <i>Intensive Care Medicine</i> , 2004, 30, 298-301.	8.2	11
104	Is loaded breathing an inflammatory stimulus?. <i>Current Opinion in Critical Care</i> , 2005, 11, 1-9.	3.2	11
105	Biocatalytic synthesis and antitumor activities of novel silybin acylated derivatives with dicarboxylic acids. <i>New Biotechnology</i> , 2011, 28, 342-348.	4.4	11
106	Enzymatic synthesis of perillyl alcohol derivatives and investigation of their antiproliferative activity. <i>Biocatalysis and Biotransformation</i> , 2009, 27, 170-178.	2.0	9
107	Effect of pulmonary rehabilitation on tidal expiratory flow limitation at rest and during exercise in COPD patients. <i>Respiratory Physiology and Neurobiology</i> , 2017, 238, 47-54.	1.6	9
108	Antioxidant Supplementation Alters Cytokine Production From Monocytes. <i>Journal of Interferon and Cytokine Research</i> , 2009, 29, 741-748.	1.2	5

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109	A sulindac analogue is effective against malignant pleural effusion in mice. Lung Cancer, 2011, 73, 171-175.	2.0	5
110	Preclinical Pulmonary Capillary Endothelial Dysfunction is Present in Brain Dead Subjects. Pulmonary Circulation, 2013, 3, 419-425.	1.7	5
111	A novel ratio of CD8+:B-cells as a prognostic marker of coronavirus disease 2019 patient progression and outcome. Virology, 2021, 556, 79-86.	2.4	5
112	Uremic pericarditis with tamponade following prolonged continuous hemofiltration. Intensive Care Medicine, 2001, 27, 1958-1959.	8.2	4
113	When are Antioxidants Effective in Blunting the Cytokine Response to Exercise?. Medicine and Science in Sports and Exercise, 2005, 37, 342-343.	0.4	4
114	The influence of biphasic positive airway pressure vs. sham biphasic positive airway pressure on pulmonary function in morbidly obese patients after bariatric surgery. Anaesthesiology Intensive Therapy, 2019, 51, 88-95.	1.0	4
115	Monocytes as a site of production of soluble triggering receptor expressed on myeloid cells-1 (sTREM-1) in the septic host. Scandinavian Journal of Infectious Diseases, 2006, 38, 909-915.	1.5	3
116	Acute liver failure as the first manifestation of severe traumatic tricuspid valve insufficiency. Intensive Care Medicine, 2006, 32, 336-337.	8.2	3
117	History of mechanical ventilation may affect respiratory mechanics evolution in acute respiratory distress syndrome. Journal of Critical Care, 2009, 24, 626.e1-626.e6.	2.2	3
118	Induction of decay accelerating factor and membrane cofactor protein by resveratrol attenuates complement deposition in human coronary artery endothelial cells. Biochemistry and Biophysics Reports, 2019, 19, 100652.	1.3	2
119	The immune response to resistive breathing: Implications for respiratory failure. Clinical Intensive Care: International Journal of Critical & Coronary Care Medicine, 2004, 15, 131-144.	0.1	0
120	Muscle Function. , 2008, , 111-138.		0
121	The immune response to resistive breathing: Implications for respiratory failure. Clinical Intensive Care: International Journal of Critical & Coronary Care Medicine, 2004, 15, 131-144.	0.1	0