

David M Systrom

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

5,516
citations

101543

36
h-index

82547

72
g-index

88
all docs

88
docs citations

88
times ranked

5937
citing authors

#	ARTICLE	IF	CITATIONS
1	Sildenafil Improves Exercise Capacity and Quality of Life in Patients With Systolic Heart Failure and Secondary Pulmonary Hypertension. <i>Circulation</i> , 2007, 116, 1555-1562.	1.6	468
2	Dynamic regulation of circulating microRNA during acute exhaustive exercise and sustained aerobic exercise training. <i>Journal of Physiology</i> , 2011, 589, 3983-3994.	2.9	366
3	Metabolic Signatures of Exercise in Human Plasma. <i>Science Translational Medicine</i> , 2010, 2, 33ra37.	12.4	337
4	Sildenafil Improves Exercise Hemodynamics and Oxygen Uptake in Patients With Systolic Heart Failure. <i>Circulation</i> , 2007, 115, 59-66.	1.6	324
5	Exercise-Induced Pulmonary Arterial Hypertension. <i>Circulation</i> , 2008, 118, 2183-2189.	1.6	318
6	Cardiopulmonary Exercise Testing. <i>Journal of the American College of Cardiology</i> , 2017, 70, 1618-1636.	2.8	294
7	Persistent Exertional Intolerance After COVID-19. <i>Chest</i> , 2022, 161, 54-63.	0.8	186
8	Pulmonary Vascular Response Patterns During Exercise in Left Ventricular Systolic Dysfunction Predict Exercise Capacity and Outcomes. <i>Circulation: Heart Failure</i> , 2011, 4, 276-285.	3.9	163
9	Preoperative Predictors of Operative Morbidity and Mortality in COPD Patients Undergoing Bilateral Lung Volume Reduction Surgery. <i>Chest</i> , 1997, 111, 550-558.	0.8	162
10	Effects of a nucleoside reverse transcriptase inhibitor, stavudine, on glucose disposal and mitochondrial function in muscle of healthy adults. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1666-E1673.	3.5	148
11	Determinants of Ventilatory Efficiency in Heart Failure. <i>Circulation: Heart Failure</i> , 2008, 1, 227-233.	3.9	135
12	Genetic and hypoxic alterations of the micro RNA μ 210a μ ISCU 1/2 axis promote iron-sulfur deficiency and pulmonary hypertension. <i>EMBO Molecular Medicine</i> , 2015, 7, 695-713.	6.9	120
13	Fatigue, Sleep, and Autoimmune and Related Disorders. <i>Frontiers in Immunology</i> , 2019, 10, 1827.	4.8	119
14	The Invasive Cardiopulmonary Exercise Test. <i>Circulation</i> , 2013, 127, 1157-1164.	1.6	116
15	Postural orthostatic tachycardia syndrome (POTS): State of the science and clinical care from a 2019 National Institutes of Health Expert Consensus Meeting - Part 1. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021, 235, 102828.	2.8	113
16	PVDOMICS. <i>Circulation Research</i> , 2017, 121, 1136-1139.	4.5	113
17	Sertraline Effects on Dyspnea in Patients With Obstructive Airways Disease. <i>Psychosomatics</i> , 1998, 39, 24-29.	2.5	112
18	Exercise Oscillatory Ventilation in Systolic Heart Failure. <i>Circulation</i> , 2011, 124, 1442-1451.	1.6	104

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19	E/ $\dot{V}O_2$ Ratio in Patients With Unexplained Dyspnea. <i>Circulation: Heart Failure</i> , 2015, 8, 749-756.	3.9	93
20	Measuring central pulmonary pressures during exercise in COPD: how to cope with respiratory effects. <i>European Respiratory Journal</i> , 2014, 43, 1316-1325.	6.7	80
21	Impaired Systemic Oxygen Extraction at Maximum Exercise in Pulmonary Hypertension. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 3-8.	0.4	75
22	Age-related upper limits of normal for maximum upright exercise pulmonary haemodynamics. <i>European Respiratory Journal</i> , 2016, 47, 1179-1188.	6.7	72
23	Abnormal spirometry after the Fontan procedure is common and associated with impaired aerobic capacity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H110-H117.	3.2	68
24	Protocol for Exercise Hemodynamic Assessment: Performing an Invasive Cardiopulmonary Exercise Test in Clinical Practice. <i>Pulmonary Circulation</i> , 2015, 5, 610-618.	1.7	68
25	Multisystem Involvement in Post \acute{a} Acute Sequelae of \langle sc \rangle Coronavirus Disease \langle /sc \rangle 19. <i>Annals of Neurology</i> , 2022, 91, 367-379.	5.3	68
26	Unexplained Exertional Dyspnea Caused by Low Ventricular Filling Pressures: Results from Clinical Invasive Cardiopulmonary Exercise Testing. <i>Pulmonary Circulation</i> , 2016, 6, 55-62.	1.7	67
27	Accuracy of Echocardiography to Estimate Pulmonary Artery Pressures With Exercise. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	2.6	62
28	Central Cardiac Limit to Aerobic Capacity in Patients With Exertional Pulmonary Venous Hypertension. <i>Circulation: Heart Failure</i> , 2015, 8, 278-285.	3.9	58
29	Invasive cardiopulmonary exercise testing in the evaluation of unexplained dyspnea: Insights from a multidisciplinary dyspnea center. <i>European Journal of Preventive Cardiology</i> , 2017, 24, 1190-1199.	1.8	58
30	Mitochondrial Function and Insulin Resistance in Overweight and Normal-Weight Children. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 4923-4930.	3.6	54
31	An Elevated Breathing Reserve Index at the Lactate Threshold Is a Predictor of Mortality in Patients with Cystic Fibrosis Awaiting Lung Transplantation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 165, 1629-1633.	5.6	48
32	Insights From Invasive Cardiopulmonary Exercise Testing of Patients With Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. <i>Chest</i> , 2021, 160, 642-651.	0.8	48
33	Diagnosis of pulmonary vascular limit to exercise by cardiopulmonary exercise testing. <i>Journal of Heart and Lung Transplantation</i> , 2004, 23, 88-95.	0.6	47
34	Network Analysis to Risk Stratify Patients With Exercise Intolerance. <i>Circulation Research</i> , 2018, 122, 864-876.	4.5	42
35	Breathing Reserve at the Lactate Threshold to Differentiate a Pulmonary Mechanical From Cardiovascular Limit to Exercise. <i>Chest</i> , 1998, 113, 913-918.	0.8	39
36	Functional impact of exercise pulmonary hypertension in patients with borderline resting pulmonary arterial pressure. <i>Pulmonary Circulation</i> , 2017, 7, 654-665.	1.7	38

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37	Pulmonary Vascular Distensibility and Early Pulmonary Vascular Remodeling in Pulmonary Hypertension. <i>Chest</i> , 2019, 156, 724-732.	0.8	38
38	Case 19-2005. <i>New England Journal of Medicine</i> , 2005, 352, 2628-2636.	27.0	36
39	Dynamic right ventricular pulmonary arterial uncoupling during maximum incremental exercise in exercise pulmonary hypertension and pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2019, 9, 1-10.	1.7	36
40	Skeletal muscle chemoreflex and pHi in exercise ventilatory control. <i>Journal of Applied Physiology</i> , 1998, 84, 676-682.	2.5	33
41	Left ventricular deformation at rest predicts exercise-induced elevation in pulmonary artery wedge pressure in patients with unexplained dyspnoea. <i>European Journal of Heart Failure</i> , 2017, 19, 101-110.	7.1	32
42	Right Ventricular-Arterial Uncoupling During Exercise in Heart Failure With Preserved Ejection Fraction. <i>Chest</i> , 2019, 156, 933-943.	0.8	32
43	Skeletal Muscle Phosphocreatine Recovery after Submaximal Exercise in Children and Young and Middle-Aged Adults. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, E69-E74.	3.6	30
44	Postural orthostatic tachycardia syndrome (POTS): Priorities for POTS care and research from a 2019 National Institutes of Health Expert Consensus Meeting – Part 2. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021, 235, 102836.	2.8	30
45	Respiratory sensations during heavy exercise in subjects without respiratory chemosensitivity. <i>Respiration Physiology</i> , 1998, 114, 65-74.	2.7	29
46	Unexplained exertional intolerance associated with impaired systemic oxygen extraction. <i>European Journal of Applied Physiology</i> , 2019, 119, 2375-2389.	2.5	28
47	Pulmonary haemodynamics during recovery from maximum incremental cycling exercise. <i>European Respiratory Journal</i> , 2016, 48, 158-167.	6.7	27
48	Comprehensive Diagnostic Evaluation of Cardiovascular Physiology in Patients With Pulmonary Vascular Disease. <i>Circulation: Heart Failure</i> , 2020, 13, e006363.	3.9	27
49	Exercise Oscillatory Ventilation in Patients With Fontan Physiology. <i>Circulation: Heart Failure</i> , 2015, 8, 304-311.	3.9	26
50	The Impact of Moderate-Altitude Staging on Pulmonary Arterial Hemodynamics after Ascent to High Altitude. <i>High Altitude Medicine and Biology</i> , 2010, 11, 139-145.	0.9	24
51	Pulmonary Vascular Resistance During Exercise Predicts Long-Term Outcomes in Heart Failure With Preserved Ejection Fraction. <i>Journal of Cardiac Failure</i> , 2018, 24, 169-176.	1.7	20
52	The Association of Growth Hormone Parameters with Skeletal Muscle Phosphocreatine Recovery in Adult Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, 817-823.	3.6	19
53	Open label study of ambrisentan in patients with exercise pulmonary hypertension. <i>Pulmonary Circulation</i> , 2017, 7, 531-538.	1.7	17
54	Impaired Exercise Capacity following Atrial Septal Defect Closure: An Invasive Study of the Right Heart and Pulmonary Circulation. <i>Pulmonary Circulation</i> , 2014, 4, 630-637.	1.7	15

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55	Skeletal Muscle Mitochondrial Function Is Associated with Longitudinal Growth Velocity in Children and Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E1612-E1618.	3.6	14
56	A cardiopulmonary study of lisdexamfetamine in adults with attention-deficit/hyperactivity disorder. <i>World Journal of Biological Psychiatry</i> , 2013, 14, 299-306.	2.6	14
57	Dynamic right ventricular function response to incremental exercise in pulmonary hypertension. <i>Pulmonary Circulation</i> , 2020, 10, 1-8.	1.7	14
58	Inadequate venous return as a primary cause for Fontan circulatory limitation. <i>Journal of Heart and Lung Transplantation</i> , 2014, 33, 1194-1196.	0.6	13
59	Sex-Related Differences in Dynamic Right Ventricular-Pulmonary Vascular Coupling in Heart Failure With Preserved Ejection Fraction. <i>Chest</i> , 2021, 159, 2402-2416.	0.8	13
60	Improvement in Exercise Capacity after Nocturnal Positive Pressure Ventilation and Tracheostomy in a Postpoliomyelitis Patient. <i>Chest</i> , 1992, 101, 254-257.	0.8	12
61	Metabolomics of exercise pulmonary hypertension are intermediate between controls and patients with pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2019, 9, 1-10.	1.7	12
62	Association between lung ultrasound findings and invasive exercise haemodynamics in patients with undifferentiated dyspnoea. <i>ESC Heart Failure</i> , 2019, 6, 202-207.	3.1	12
63	Skeletal muscle ECF pH error signal for exercise ventilatory control. <i>Journal of Applied Physiology</i> , 1998, 84, 90-96.	2.5	11
64	Case 9-2005. <i>New England Journal of Medicine</i> , 2005, 352, 1238-1246.	27.0	10
65	Neurovascular Dysregulation and Acute Exercise Intolerance in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. <i>Chest</i> , 2022, 162, 1116-1126.	0.8	10
66	Maximum Cardiac Output During Incremental Exercise by First-pass Radionuclide Ventriculography. <i>Chest</i> , 1998, 114, 457-461.	0.8	9
67	Perfusion Imaging Distinguishes Exercise Pulmonary Arterial Hypertension at Rest. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 1438-1441.	5.6	9
68	Pulmonary Vascular and Right Ventricular Burden During Exercise in Interstitial Lung Disease. <i>Chest</i> , 2020, 158, 350-358.	0.8	9
69	Hemodynamic and metabolic characteristics associated with development of a right ventricular outflow tract pressure gradient during upright exercise. <i>PLoS ONE</i> , 2017, 12, e0179053.	2.5	9
70	The Role of Exercise Testing in Pulmonary Vascular Disease. <i>Clinics in Chest Medicine</i> , 2021, 42, 113-123.	2.1	8
71	Preoperative cardiopulmonary exercise testing: Determining the limit to exercise and predicting outcome after thoracotomy. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 1991, 5, 614-626.	1.3	7
72	Impaired systemic oxygen extraction in treated exercise pulmonary hypertension: a new engine in an old car?. <i>Pulmonary Circulation</i> , 2018, 8, 1-4.	1.7	7

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73	Ammonium Ion and the Anaerobic Threshold in Man. <i>Chest</i> , 1991, 99, 1197-1202.	0.8	6
74	Right ventriculo-arterial uncoupling and impaired contractile reserve in obese patients with unexplained exercise intolerance. <i>European Journal of Applied Physiology</i> , 2018, 118, 1415-1426.	2.5	6
75	Fick principle and exercise pulmonary hemodynamic determinants of the six-minute walk distance in pulmonary hypertension. <i>Pulmonary Circulation</i> , 2020, 10, 1-9.	1.7	6
76	Systemic vascular distensibility relates to exercise capacity in connective tissue disease. <i>Rheumatology</i> , 2021, 60, 1429-1434.	1.9	6
77	Cardiopulmonary Exercise Testing in DDD Compared to VVI Pacing Modes. <i>American Journal of Noninvasive Cardiology</i> , 1987, 1, 244-250.	0.1	4
78	PULMONARY FUNCTION OF HAPLOTYPE-MATCHED AND MISMATCHED ALLOGRAFTS IN DOGS TREATED WITH TOTAL-BODY IRRADIATION, AUTOLOGOUS MARROW TRANSPLANTATION, METHOTREXATE, AND DONOR BLOOD. <i>Transplantation</i> , 1988, 46, 496-501.	1.0	2
79	Impact of right ventricular work and pulmonary arterial compliance on peak exercise oxygen uptake in idiopathic pulmonary arterial hypertension. <i>International Journal of Cardiology</i> , 2021, 331, 230-235.	1.7	2
80	Cardiovascular Limit to Exercise Due to Preload Failure. <i>Chest</i> , 2010, 138, 184A.	0.8	1
81	Increased skeletal muscle phosphocreatine recovery after sub-maximal exercise is associated with increased carotid intima-media thickness. <i>Atherosclerosis</i> , 2011, 215, 214-217.	0.8	1
82	Dyspnea and an Arteriovenous Fistula. <i>Annals of the American Thoracic Society</i> , 2016, 13, 1419-1423.	3.2	1
83	Response to Letter Regarding Article, "Exercise-Induced Pulmonary Arterial Hypertension". <i>Circulation</i> , 2009, 120, .	1.6	0
84	Cardiopulmonary Exercise Testing in Pulmonary Vascular Disease. , 2022, , 582-596.		0