Thomas P Olson

List of Publications by Year
in descending order

104 papers	4,449 citations	136950 32 h-index	110387 64 g-index
104 all docs	104 docs citations	104 times ranked	4359 citing authors

#	Article	IF	Citations
1	Global Cardiovascular Reserve Dysfunction in Heart Failure With Preserved Ejection Fraction. Journal of the American College of Cardiology, 2010, 56, 845-854.	2.8	606
2	Role of Diastolic Stress Testing in the Evaluation for Heart Failure With Preserved Ejection Fraction. Circulation, 2017, 135, 825-838.	1.6	416
3	Cardiac output response to exercise in relation to metabolic demand in heart failure with preserved ejection fraction. European Journal of Heart Failure, 2013, 15, 776-785.	7.1	275
4	Abnormal right ventricular-pulmonary artery coupling with exercise in heart failure with preserved ejection fraction. European Heart Journal, 2016, 37, 3293-3302.	2.2	259
5	Arterial Stiffening With Exercise in PatientsÂWith Heart Failure and PreservedÂEjection Fraction. Journal of the American College of Cardiology, 2017, 70, 136-148.	2.8	195
6	Haemodynamics, dyspnoea, and pulmonary reserve in heart failure with preserved ejection fraction. European Heart Journal, 2018, 39, 2810-2821.	2.2	180
7	Differential Hemodynamic Effects of Exercise and Volume Expansion in People With and Without Heart Failure. Circulation: Heart Failure, 2015, 8, 41-48.	3.9	167
8	Hemodynamic Correlates and DiagnosticÂRole of Cardiopulmonary Exercise Testing in Heart Failure With PreservedÂEjection Fraction. JACC: Heart Failure, 2018, 6, 665-675.	4.1	132
9	The association of resistance training with mortality: A systematic review and meta-analysis. European Journal of Preventive Cardiology, 2019, 26, 1647-1665.	1.8	127
10	Hemodynamic and Functional Impact of Epicardial Adipose Tissue in HeartÂFailure With Preserved Ejection Fraction. JACC: Heart Failure, 2020, 8, 657-666.	4.1	113
11	Myocardial Injury and Cardiac Reserve in Patients With Heart Failure and PreservedÂEjectionÂFraction. Journal of the American College of Cardiology, 2018, 72, 29-40.	2.8	106
12	Impaired Pulmonary Diffusion in Heart Failure With Preserved Ejection Fraction. JACC: Heart Failure, 2016, 4, 490-498.	4.1	97
13	Effects of respiratory muscle work on blood flow distribution during exercise in heart failure. Journal of Physiology, 2010, 588, 2487-2501.	2.9	92
14	Enhanced Pulmonary Vasodilator Reserve and Abnormal Right Ventricular. Circulation: Heart Failure, 2015, 8, 542-550.	3.9	83
15	Pulmonary Function Changes Associated With Cardiomegaly in Chronic Heart Failure. Journal of Cardiac Failure, 2007, 13, 100-107.	1.7	69
16	Influence of locomotor muscle afferent inhibition on the ventilatory response to exercise in heart failure. Experimental Physiology, 2014, 99, 414-426.	2.0	68
17	Causes of Breathing Inefficiency During Exercise in Heart Failure. Journal of Cardiac Failure, 2010, 16, 835-842.	1.7	65
18	Effects of weight loss on insulin sensitivity and arterial stiffness in overweight adults. Metabolism: Clinical and Experimental, 2006, 55, 907-911.	3.4	54

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19	Physiological dead space and arterial carbon dioxide contributions to exercise ventilatory inefficiency in patients with reduced or preserved ejection fraction heart failure. European Journal of Heart Failure, 2017, 19, 1675-1685.	7.1	52
20	High-Intensity Interval Training in Cardiac Rehabilitation. Clinics in Geriatric Medicine, 2019, 35, 469-487.	2.6	51
21	Effects of acute changes in pulmonary wedge pressure on periodic breathing at rest in heart failure patients. American Heart Journal, 2007, 153, 104.e1-104.e7.	2.7	47
22	Influence of Locomotor Muscle Metaboreceptor Stimulation on the Ventilatory Response to Exercise in Heart Failure. Circulation: Heart Failure, 2010, 3, 212-219.	3.9	47
23	Differences of energy expenditure while sitting versus standing: A systematic review and meta-analysis. European Journal of Preventive Cardiology, 2018, 25, 522-538.	1.8	47
24	The neurohormonal basis of pulmonary hypertension in heart failure with preserved ejection fraction. European Heart Journal, 2019, 40, 3707-3717.	2.2	47
25	High-intensity interval training improves metabolic syndrome and body composition in outpatient cardiac rehabilitation patients with myocardial infarction. Cardiovascular Diabetology, 2019, 18, 104.	6.8	43
26	A Randomized Pilot Study of Aortic Waveform Guided Therapy in Chronic Heart Failure. Journal of the American Heart Association, 2014, 3, e000745.	3.7	41
27	Calculating alveolar capillary conductance and pulmonary capillary blood volume: comparing the multiple- and single-inspired oxygen tension methods. Journal of Applied Physiology, 2010, 109, 643-653.	2.5	40
28	Competition for Intrathoracic Space Reduces Lung Capacity in Patients With Chronic Heart Failure. Chest, 2006, 130, 164-171.	0.8	38
29	Influence of Sex, Menstrual Cycle, and Menopause Status on the Exercise Pressor Reflex. Medicine and Science in Sports and Exercise, 2019, 51, 874-881.	0.4	38
30	Weight gain in Chinese youth during a 4-month COVID-19 lockdown: a retrospective observational study. BMJ Open, 2021, 11, e052451.	1.9	37
31	Optimizing Outcomes in Cardiac Rehabilitation: The Importance of Exercise Intensity. Frontiers in Cardiovascular Medicine, 2021, 8, 734278.	2.4	37
32	Supervised, Vigorous Intensity Exercise Intervention for Depressed Female Smokers: A Pilot Study. Nicotine and Tobacco Research, 2017, 19, 77-86.	2.6	36
33	Exercise-Disordered Breathing in Chronic Heart Failure. Exercise and Sport Sciences Reviews, 2006, 34, 194-201.	3.0	35
34	Influence of sildenafil on lung diffusion during exposure to acute hypoxia at rest and during exercise in healthy humans. European Journal of Applied Physiology, 2008, 103, 421-430.	2.5	34
35	Noninvasive evaluation of pulmonary artery pressure during exercise: the importance of right atrial hypertension. European Respiratory Journal, 2020, 55, 1901617.	6.7	33
36	Repeat length polymorphism of the serotonin transporter gene influences pulmonary artery pressure in heart failure. American Heart Journal, 2007, 153, 426-432.	2.7	30

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37	High-Intensity Interval Training in Cardiac Rehabilitation: Impact on Fat Mass in Patients With Myocardial Infarction. Mayo Clinic Proceedings, 2019, 94, 1718-1730.	3.0	30
38	Sex Differences in Cardiac Rehabilitation Outcomes. Circulation Research, 2022, 130, 552-565.	4.5	26
39	Prognostic Value of Resting pulmonary Function in Heart Failure. Clinical Medicine Insights: Circulatory, Respiratory and Pulmonary Medicine, 2013, 7, CCRPM.S12525.	0.9	25
40	Locomotor muscle group III/IV afferents constrain stroke volume and contribute to exercise intolerance in human heart failure. Journal of Physiology, 2020, 598, 5379-5390.	2.9	24
41	Aortic Waveform Analysis to Individualize Treatment in Heart Failure. Circulation: Heart Failure, 2017, 10, .	3.9	23
42	Resistive and elastic work of breathing in older and younger adults during exercise. Journal of Applied Physiology, 2018, 125, 190-197.	2.5	23
43	Intensity level and cardiorespiratory responses to Baduanjin exercise in patients with chronic heart failure. ESC Heart Failure, 2020, 7, 3782-3791.	3.1	22
44	The Role of Cardiac Rehabilitation in Reducing Major Adverse Cardiac Events in Heart Transplant Patients. Journal of Cardiac Failure, 2020, 26, 645-651.	1.7	22
45	Effect of Body Mass Index on Exercise Capacity in Patients With Hypertrophic Cardiomyopathy. American Journal of Cardiology, 2018, 121, 100-106.	1.6	21
46	Ventilatory constraints influence physiological dead space in heart failure. Experimental Physiology, 2019, 104, 70-80.	2.0	20
47	Predictors of Exercise Capacity in Patients with Hypertrophic Obstructive Cardiomyopathy. Journal of Clinical Medicine, 2018, 7, 447.	2.4	18
48	Impaired central hemodynamics in chronic obstructive pulmonary disease during submaximal exercise. Journal of Applied Physiology, 2019, 127, 691-697.	2.5	17
49	Exercise ventilatory inefficiency in heart failure and chronic obstructive pulmonary disease. International Journal of Cardiology, 2019, 274, 232-236.	1.7	17
50	Metaboâ€•and mechanoreceptor expression in human heart failure: Relationships with the locomotor muscle afferent influence on exercise responses. Experimental Physiology, 2020, 105, 809-818.	2.0	16
51	Influence of the metaboreflex on arterial blood pressure in heart failure patients. American Heart Journal, 2014, 167, 521-528.	2.7	15
52	Improved Ventilatory Efficiency with Locomotor Muscle Afferent Inhibition is Strongly Associated with Leg Composition in Heart Failure. International Journal of Cardiology, 2016, 202, 159-166.	1.7	15
53	Obesity and hemoglobin content impact peak oxygen uptake in human heart failure. European Journal of Preventive Cardiology, 2018, 25, 1937-1946.	1.8	15
54	The Effect of Replacing Sitting With Standing on Cardiovascular Risk Factors: A Systematic Review and Meta-analysis. Mayo Clinic Proceedings Innovations, Quality & Outcomes, 2020, 4, 611-626.	2.4	15

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55	Influence of cardiomegaly on disordered breathing during exercise in chronic heart failure. European Journal of Heart Failure, 2011, 13, 311-318.	7.1	14
56	Quantifying oscillatory ventilation during exercise in patients with heart failure. Respiratory Physiology and Neurobiology, 2014, 190, 25-32.	1.6	14
57	Fat Mass Index Better Identifies Metabolic Syndrome: Insights from Patients in Early Outpatient Cardiac Rehabilitation. Journal of Clinical Medicine, 2019, 8, 2147.	2.4	14
58	Characteristics and reference values for cardiopulmonary exercise testing in the adult Chinese population â€“ The Xiangya hospital exercise testing project (the X-ET project). International Journal of Cardiology, 2021, 332, 15-21.	1.7	14
59	The association between prior physical fitness and depression in young adults during the COVID-19 pandemicâ€”a cross-sectional, retrospective study. PeerJ, 2021, 9, e11091.	2.0	13
60	Ventilatory Expired Gas at Constant-Rate Low-Intensity Exercise Predicts Adverse Events and is Related to Neurohormonal Markers in Patients With Heart Failure. Journal of Cardiac Failure, 2009, 15, 482-488.	1.7	12
61	Comparisons of Noninvasive Methods Used to Assess Exercise Stroke Volume in Heart Failure with Preserved Ejection Fraction. Medicine and Science in Sports and Exercise, 2017, 49, 1758-1768.	0.4	12
62	V̇‡<scp>o</scp>₂ kinetics associated with moderate-intensity exercise in heart failure: impact of intrathecal fentanyl inhibition of group III/IV locomotor muscle afferents. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H114-H124.	3.2	11
63	Use of â€˜idealâ€™ alveolar air equations and corrected end-tidal PCO2 to estimate arterial PCO2 and physiological dead space during exercise in patients with heart failure. International Journal of Cardiology, 2018, 250, 176-182.	1.7	10
64	Clinical and Rehabilitative Predictors of Peak Oxygen Uptake Following Cardiac Transplantation. Journal of Clinical Medicine, 2019, 8, 119.	2.4	10
65	Predictors of exercise capacity following septal myectomy in patients with hypertrophic cardiomyopathy. European Journal of Preventive Cardiology, 2020, 27, 1066-1073.	1.8	10
66	Respiratory muscle work influences locomotor convective and diffusive oxygen transport in human heart failure during exercise. Physiological Reports, 2020, 8, e14484.	1.7	8
67	Intrathecal fentanyl blockade of afferent neural feedback from skeletal muscle during exercise in heart failure patients: Influence on circulatory power and pulmonary vascular capacitance. International Journal of Cardiology, 2015, 201, 384-393.	1.7	7
68	Influence of the Metaboreflex on Pulmonary Vascular Capacitance in Heart Failure. Medicine and Science in Sports and Exercise, 2016, 48, 353-362.	0.4	7
69	Therapeutic Targets for the Multi-system Pathophysiology of Heart Failure: Exercise Training. Current Treatment Options in Cardiovascular Medicine, 2017, 19, 87.	0.9	7
70	Gene Variant of the Bradykinin B2 Receptor Influences Pulmonary Arterial Pressures in Heart Failure Patients. Clinical Medicine Circulatory, Respiratory and Pulmonary Medicine, 2009, 2009, 9-17.	0.4	7
71	Economic evaluation of a pharmacogenomic multi-gene panel test to optimize anti-hypertension therapy: simulation study. Journal of Medical Economics, 2018, 21, 1246-1253.	2.1	6
72	Safety of Exercise Testing in the Clinical Chinese Population. Frontiers in Cardiovascular Medicine, 2021, 8, 638682.	2.4	6

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73	Identification of patients with preclinical heart failure with preserved ejection fraction using the H2FPEF score. , 2022, 1, 59-66.		6
74	Age-Related Differences for Cardiorespiratory Fitness Improvement in Patients Undergoing Cardiac Rehabilitation. Frontiers in Cardiovascular Medicine, 2022, 9, 872757.	2.4	6
75	Ventilation Increases with Lower Extremity Venous Occlusion in Young Adults. Medicine and Science in Sports and Exercise, 2016, 48, 377-383.	0.4	5
76	Exercise Ventilatory Efficiency in Older and Younger Heart Failure Patients With Preserved Ejection Fraction. Journal of Cardiac Failure, 2019, 25, 278-285.	1.7	5
77	Salutary Acute Effects of Exercise on Central Hemodynamics in Heart Failure With Preserved Ejection Fraction. Journal of Cardiac Failure, 2021, 27, 1313-1320.	1.7	5
78	Feasibility and Preliminary Effects of the BESMILE-HF Program on Chronic Heart Failure Patients: A Pilot Randomized Controlled Trial. Frontiers in Cardiovascular Medicine, 2021, 8, 715207.	2.4	5
79	Alveolar Air and O2 Uptake During Exercise in Patients With Heart Failure. Journal of Cardiac Failure, 2018, 24, 695-705.	1.7	4
80	Exercise-induced hypoxemia predicts heart failure hospitalization and death in patients supported with left ventricular assist devices. International Journal of Artificial Organs, 2020, 43, 165-172.	1.4	4
81	Noninvasive assessment of cardiac output by brachial occlusion-cuff technique: comparison with the open-circuit acetylene washin method. Journal of Applied Physiology, 2016, 121, 1319-1325.	2.5	3
82	Albuterol Improves Alveolar-Capillary Membrane Conductance in Healthy Humans. Clinical Medicine Insights: Circulatory, Respiratory and Pulmonary Medicine, 2016, 10, CCRPM.S30251.	0.9	3
83	The Lungs in Heart Failure. JACC: Heart Failure, 2016, 4, 450-452.	4.1	3
84	Exercise Stroke Volume in Adult Cystic Fibrosis: A Comparison of Acetylene Pulmonary Uptake and Oxygen Pulse. Clinical Medicine Insights: Circulatory, Respiratory and Pulmonary Medicine, 2018, 12, 117954841879056.	0.9	3
85	The Influence of Sex Differences on Cardiopulmonary Exercise Metrics Following Heart Transplant. Canadian Journal of Cardiology, 2020, 36, 54-59.	1.7	3
86	Influence of locomotor muscle group III/IV afferents on cardiovascular and ventilatory responses in human heart failure during submaximal exercise. Journal of Applied Physiology, 2022, 132, 903-914.	2.5	3
87	Cardiac Rehabilitation Referral and Participation Rates for Heart Failure With Reduced Ejection Fraction. Journal of Cardiopulmonary Rehabilitation and Prevention, 2021, 41, 126-127.	2.1	2
88	Differences in Peak Oxygen Uptake in Bicycle Exercise Test Caused by Body Positions: A Meta-Analysis. Frontiers in Cardiovascular Medicine, 2021, 8, 734687.	2.4	2
89	History dependence of vital capacity in constricted lungs. Journal of Applied Physiology, 2010, 109, 121-125.	2.5	1
90	Clinical Classification of Heart Failure Patients Using Cardiac Function during Exercise. Exercise and Sport Sciences Reviews, 2015, 43, 204-213.	3.0	1

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91	Screening for Asymptomatic Coronary Artery Disease via Exercise Stress Testing in Patients With Type 2 Diabetes Mellitus: A Systematic Review and Meta-Analysis. Frontiers in Cardiovascular Medicine, 2021, 8, 770648.	2.4	1
92	Cardiorespiratory Responses During High-Intensity Interval Training Prescribed by Rating of Perceived Exertion in Patients After Myocardial Infarction Enrolled in Early Outpatient Cardiac Rehabilitation. Frontiers in Cardiovascular Medicine, 2021, 8, 772815.	2.4	1
93	Response to Letter Regarding â€œDifferential Hemodynamic Effects of Exercise and Volume Expansion in People With and Without Heart Failureâ€. Circulation: Heart Failure, 2015, 8, 411-411.	3.9	0
94	Interaction of hypoxia and vascular occlusion on cardiorespiratory responses during exercise. Translational Sports Medicine, 2019, 2, 64.	1.1	0
95	Expanding the Clinical Classification of Heart Failure: Inclusion of Cardiac Function During Exercise. , 2018, , 65-86.		0
96	Determinants of Exercise Ventilatory Inefficiency in Heart Failure With Reduced or Preserved Ejection Fraction: Application of Classical and Emerging Integrative Physiology Concepts. , 2018, , 199-210.		0
97	Reply to Barbosa and MÃ¼ller. Experimental Physiology, 2019, 104, 777-778.	2.0	0
98	Combined influence of inspiratory loading and locomotor subsystolic cuff inflation on cardiovascular responses during submaximal exercise. Journal of Applied Physiology, 2020, 128, 1338-1345.	2.5	0
99	The effects of sildenafil and acetazolamide on breathing efficiency during hypoxic exercise. FASEB Journal, 2008, 22, 1173.13.	0.5	0
100	Relationship between oxygen pulse and echocardiography in heart failure with preserved ejection fraction. FASEB Journal, 2013, 27, 711.4.	0.5	0
101	Abstract 16775: Body Mass Index Predicts Exercise Capacity in Patients With Hypertrophic Cardiomyopathy. Circulation, 2014, 130, .	1.6	0
102	Deoxyhemoglobin Kinetics During Low Intensity Exercise Stepâ€transitions in Aging Men and Women. FASEB Journal, 2018, 32, 853.21.	0.5	0
103	Abstract 16803: Relationships Between Invasive and Non-invasive Measures of Cardiac Function During Exercise in Heart Failure With Preserved or Reduced Ejection Fraction. Circulation, 2015, 132, .	1.6	0
104	Abstract 16798: The Influence of Heart Failure With Preserved or Reduced Ejection Fraction on Relationships Between Cardiac Power and Stroke Work With VO2. Circulation, 2015, 132, .	1.6	0