

Surendran Sabapathy

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

2,295
citations

257450

24
h-index

243625

44
g-index

112
all docs

112
docs citations

112
times ranked

3307
citing authors

#	ARTICLE	IF	CITATIONS
1	A new approach to assess myocardial work by non-invasive left ventricular pressure-strain relations in hypertension and dilated cardiomyopathy. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 31-39.	1.2	229
2	Acute exercise and subsequent energy intake. A meta-analysis. <i>Appetite</i> , 2013, 63, 92-104.	3.7	185
3	Acute Exercise and Hormones Related to Appetite Regulation: A Meta-Analysis. <i>Sports Medicine</i> , 2014, 44, 387-403.	6.5	155
4	Global Myocardial Work Is Superior to Global Longitudinal Strain to Predict Significant Coronary Artery Disease in Patients With Normal Left Ventricular Function and Wall Motion. <i>Journal of the American Society of Echocardiography</i> , 2019, 32, 947-957.	2.8	142
5	The perceived benefits and barriers to exercise participation in persons with multiple sclerosis. <i>Disability and Rehabilitation</i> , 2009, 31, 2216-2222.	1.8	107
6	Continuous and intermittent exercise responses in individuals with chronic obstructive pulmonary disease. <i>Thorax</i> , 2004, 59, 1026-1031.	5.6	73
7	Time course-dependent changes in the transcriptome of human skeletal muscle during recovery from endurance exercise: from inflammation to adaptive remodeling. <i>Journal of Applied Physiology</i> , 2014, 116, 274-287.	2.5	64
8	Ageing and Thermoregulatory Control: The Clinical Implications of Exercising under Heat Stress in Older Individuals. <i>BioMed Research International</i> , 2018, 2018, 1-12.	1.9	63
9	Caffeine improves supramaximal cycling but not the rate of anaerobic energy release. <i>European Journal of Applied Physiology</i> , 2010, 109, 287-295.	2.5	55
10	The influence of estradiol on muscle damage and leg strength after intense eccentric exercise. <i>European Journal of Applied Physiology</i> , 2015, 115, 1493-1500.	2.5	54
11	Influence of exercise intensity and duration on functional and biochemical perturbations in the human heart. <i>Journal of Physiology</i> , 2016, 594, 3031-3044.	2.9	54
12	Transcriptome analysis of neutrophils after endurance exercise reveals novel signaling mechanisms in the immune response to physiological stress. <i>Journal of Applied Physiology</i> , 2013, 114, 1677-1688.	2.5	52
13	The resistive and elastic work of breathing during exercise in patients with chronic heart failure. <i>European Respiratory Journal</i> , 2012, 39, 1449-1457.	6.7	48
14	Prognostic value of right ventricular free wall strain in pulmonary hypertension patients with pseudo-normalized tricuspid annular plane systolic excursion values. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 905-912.	1.5	47
15	Repetitive Supra-Physiological Shear Stress Impairs Red Blood Cell Deformability and Induces Hemolysis. <i>Artificial Organs</i> , 2017, 41, 1017-1025.	1.9	42
16	Verbal numerical scales are as reliable and sensitive as visual analog scales for rating dyspnea in young and older subjects. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 360-365.	1.6	38
17	Caffeine consumption around an exercise bout: effects on energy expenditure, energy intake, and exercise enjoyment. <i>Journal of Applied Physiology</i> , 2014, 117, 745-754.	2.5	36
18	The Respiratory Compensation Point is Not a Valid Surrogate for Critical Power. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 1452-1460.	0.4	35

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19	The potential of anthocyanin-rich Queen Garnet plum juice supplementation in alleviating thrombotic risk under induced oxidative stress conditions. <i>Journal of Functional Foods</i> , 2015, 14, 747-757.	3.4	32
20	Preliminary findings in the heart rate variability and haemorheology response to varied frequency and duration of walking in women 65-74 yr with type 2 diabetes. <i>Clinical Hemorheology and Microcirculation</i> , 2012, 51, 87-99.	1.7	28
21	Cardiac electrical conduction, autonomic activity and biomarker release during recovery from prolonged strenuous exercise in trained male cyclists. <i>European Journal of Applied Physiology</i> , 2014, 114, 1-10.	2.5	26
22	Altered ventricular mechanics after 60 min of high-intensity endurance exercise: insights from exercise speckle-tracking echocardiography. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H875-H883.	3.2	26
23	Ventilatory and gas-exchange responses to incremental exercise performed with reduced muscle glycogen content. <i>Journal of Science and Medicine in Sport</i> , 2006, 9, 267-273.	1.3	25
24	A single-session testing protocol to determine critical power and \dot{W} . <i>European Journal of Applied Physiology</i> , 2014, 114, 1153-1161.	2.5	24
25	Breathing O_2 attenuates the slow component of O_2 uptake kinetics during exercise performed above the respiratory compensation threshold. <i>Experimental Physiology</i> , 2010, 95, 172-183.	2.0	22
26	Biphasic impairment of erythrocyte deformability in response to repeated, short duration exposures of supraphysiological, subhaemolytic shear stress. <i>Biorheology</i> , 2016, 53, 137-149.	0.4	22
27	Exercise-Induced Blood Lactate Increase Does Not Change Red Blood Cell Deformability in Cyclists. <i>PLoS ONE</i> , 2013, 8, e71219.	2.5	21
28	The $\dot{V}\text{O}_2$ Slow Component: Relationship between Plasma Ammonia and EMG Activity. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1502-1509.	0.4	20
29	Voluntary running in mice beneficially modulates myocardial ischemic tolerance, signaling kinases, and gene expression patterns. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R1091-R1100.	1.8	20
30	Respiratory Muscle Pressure Development during Breath Holding in Apnea Divers. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 93-101.	0.4	20
31	Altered thermoregulatory responses in heart failure patients exercising in the heat. <i>Physiological Reports</i> , 2016, 4, e13022.	1.7	20
32	Heart Failure and Thermoregulatory Control: Can Patients With Heart Failure Handle the Heat?. <i>Journal of Cardiac Failure</i> , 2017, 23, 621-627.	1.7	20
33	The effect of prior eccentric exercise on heavy-intensity cycling: the role of gender and oral contraceptives. <i>European Journal of Applied Physiology</i> , 2014, 114, 995-1003.	2.5	19
34	Coffee for morning hunger pangs. An examination of coffee and caffeine on appetite, gastric emptying, and energy intake. <i>Appetite</i> , 2014, 83, 317-326.	3.7	19
35	The impact of an experimentally induced increase in arterial blood pressure on left ventricular twist mechanics. <i>Experimental Physiology</i> , 2016, 101, 124-134.	2.0	19
36	Muscle fiber typology is associated with the incidence of overreaching in response to overload training. <i>Journal of Applied Physiology</i> , 2020, 129, 823-836.	2.5	19

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37	Heart rate variability is related to impaired haemorheology in older women with type 2 diabetes. <i>Clinical Hemorheology and Microcirculation</i> , 2010, 46, 57-68.	1.7	18
38	Overreaching Attenuates Training-induced Improvements in Muscle Oxidative Capacity. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 77-85.	0.4	17
39	Delayed Onset Muscle Soreness Does Not Alter O ₂ Uptake Kinetics during Heavy-Intensity Cycling in Humans. <i>International Journal of Sports Medicine</i> , 2007, 28, 550-556.	1.7	16
40	Shear-stress mediated nitric oxide production within red blood cells: A dose-response. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 71, 203-214.	1.7	16
41	The influence of exercise training volume alterations on the gut microbiome in highly-trained middle-distance runners. <i>European Journal of Sport Science</i> , 2022, 22, 1222-1230.	2.7	16
42	Oxygen uptake kinetics during severe exercise: a comparison between young and older men. <i>Respiratory Physiology and Neurobiology</i> , 2004, 139, 203-213.	1.6	15
43	Effect of Long-Term Oral Contraceptive Use on Determinants of Endurance Performance. <i>Journal of Strength and Conditioning Research</i> , 2013, 27, 1891-1896.	2.1	15
44	Oral contraceptives augment the exercise pressor reflex during isometric handgrip exercise. <i>Physiological Reports</i> , 2018, 6, e13629.	1.7	15
45	The impact of venous occlusion <i>in vivo</i> on forearm muscle blood flow: implications for the near-infrared spectroscopy venous occlusion technique. <i>Clinical Physiology and Functional Imaging</i> , 2017, 37, 293-298.	1.2	14
46	Red blood cell tolerance to shear stress above and below the subhemolytic threshold. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 851-860.	2.8	14
47	Acute Free-Iron Exposure Does Not Explain the Impaired Haemorheology Associated with Haemochromatosis. <i>PLoS ONE</i> , 2016, 11, e0146448.	2.5	14
48	Gene networks in skeletal muscle following endurance exercise are coexpressed in blood neutrophils and linked with blood inflammation markers. <i>Journal of Applied Physiology</i> , 2017, 122, 752-766.	2.5	13
49	Shear-thinning behaviour of blood in response to active hyperaemia: Implications for the assessment of arterial shear stress-mediated dilatation. <i>Experimental Physiology</i> , 2020, 105, 244-257.	2.0	13
50	Bilateral tremor responses to unilateral loading and fatiguing muscle contractions. <i>Journal of Neurophysiology</i> , 2013, 110, 431-440.	1.8	12
51	Respiratory Muscle Power and the Slow Component of O ₂ Uptake. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 1797-1807.	0.4	12
52	Physical Properties of Blood Are Altered in Young and Lean Women with Polycystic Ovary Syndrome. <i>PLoS ONE</i> , 2016, 11, e0167290.	2.5	12
53	Impact of high-intensity endurance exercise on regional left and right ventricular myocardial mechanics. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, jew128.	1.2	11
54	Exercise & Sports Science Australia (ESSA) position statement on exercise and chronic obstructive pulmonary disease. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 52-59.	1.3	11

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55	The Pulmonary Artery Catheter in Australasia: A Survey Investigating Intensive Care Physicians' Knowledge and Perception of Future Trends in Use. <i>Anaesthesia and Intensive Care</i> , 2008, 36, 84-89.	0.7	10
56	Cardiovascular dynamics during exercise are related to blood rheology. <i>Clinical Hemorheology and Microcirculation</i> , 2011, 49, 231-241.	1.7	10
57	Thermoeffector Responses at a Fixed Rate of Heat Production in Heart Failure Patients. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 417-426.	0.4	10
58	The Effect of Consuming Carbohydrate With and Without Protein on the Rate of Muscle Glycogen Re-synthesis During Short-Term Post-exercise Recovery: a Systematic Review and Meta-analysis. <i>Sports Medicine - Open</i> , 2021, 7, 9.	3.1	9
59	The influence of breathing mechanics on the development of the slow component of O ₂ uptake. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 125-131.	1.6	8
60	Evidence of break-points in breathing pattern at the gas-exchange thresholds during incremental cycling in young, healthy subjects. <i>European Journal of Applied Physiology</i> , 2012, 112, 1067-1076.	2.5	8
61	Comparison of Heart Rate Blood Pressure Product Versus Age-Predicted Maximum Heart Rate as Predictors of Cardiovascular Events During Exercise Stress Echocardiography. <i>American Journal of Cardiology</i> , 2019, 124, 528-533.	1.6	8
62	The Respiratory Compensation 'Point' as a Determinant of O ₂ Uptake Kinetics?. <i>International Journal of Sports Medicine</i> , 2012, 33, 854-854.	1.7	7
63	Measurement of regional forearm muscle haemodynamics via the near-infrared spectroscopy venous occlusion technique: the impact of hand circulatory occlusion. <i>Physiological Measurement</i> , 2014, 35, 2563-2573.	2.1	6
64	Reproducibility of Echocardiography-Derived Multilevel Left Ventricular Apical Twist Mechanics. <i>Echocardiography</i> , 2016, 33, 257-263.	0.9	6
65	The Learning Curve for Competency in Right Ventricular Longitudinal Strain Analysis. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 512-514.	2.8	6
66	Myocardial work and left ventricular contractile reserve during stress echocardiography: An angiographic validation. <i>Echocardiography</i> , 2021, 38, 1711-1721.	0.9	6
67	Diastolic strain imaging: a new non-invasive tool to detect subclinical myocardial dysfunction in early cardiac allograft rejection. <i>International Journal of Cardiovascular Imaging</i> , 2020, 36, 317-323.	1.5	5
68	Cardiac perturbations after high-intensity exercise are attenuated in middle-aged compared with young endurance athletes: diminished stress or depleted stimuli?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H159-H168.	3.2	5
69	Resting global myocardial work can improve interpretation of exercise stress echocardiography. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 2409-2417.	1.5	5
70	Examining the repeatability of a novel test to measure exertional dyspnoea in chronic obstructive pulmonary disease. <i>Respiratory Physiology and Neurobiology</i> , 2022, 296, 103826.	1.6	5
71	People with multiple sclerosis have reduced TMS-evoked motor cortical output compared with healthy individuals during fatiguing submaximal contractions. <i>Journal of Neurophysiology</i> , 2022, 128, 105-117.	1.8	5
72	Regular walking improves plasma protein concentrations that promote blood hyperviscosity in women 65-74 yr with type 2 diabetes. <i>Clinical Hemorheology and Microcirculation</i> , 2016, 64, 189-198.	1.7	4

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73	Folic acid supplementation improves vascular endothelial function, yet not skin blood flow during exercise in the heat, in patients with heart failure. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R810-R819.	1.8	4
74	Advantage and validation of vendor-independent software for myocardial strain analysis compared to vendor-specific software. <i>Australasian Journal of Ultrasound in Medicine</i> , 2021, 24, 48-57.	0.6	4
75	Acute Exercise and Hormones Related Appetite Regulation: Comparison of Meta-analytical Methods. <i>Sports Medicine</i> , 2014, 44, 1167-1168.	6.5	3
76	Integrating a Career Development Learning Framework into Work-Integrated Learning Practicum Debrief Sessions. <i>Professional and Practice-based Learning</i> , 2019, , 307-330.	0.4	3
77	Lower limb vasodilatory capacity is not reduced in patients with moderate COPD. <i>International Journal of COPD</i> , 2006, 1, 73-81.	2.3	3
78	Optimising the Dyspnoea Challenge: exertional dyspnoea responses to changing treadmill gradients. <i>Respiratory Physiology and Neurobiology</i> , 2022, 302, 103915.	1.6	3
79	Relating exercise-induced desaturation and gas-exchange in pulmonary artery hypertension. <i>Respiratory Physiology and Neurobiology</i> , 2019, 259, 58-62.	1.6	2
80	Experimental modulation of mood by acoustic stimulation and its effect on exertional dyspnoea. <i>Thorax</i> , 2019, 74, 707-710.	5.6	2
81	Marked Disparity in Regional and Transmural Cardiac Mechanics in the Athlete's Heart. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1908-1914.	0.4	2
82	Shear Stress and RBC-NOS Serine1177 Phosphorylation in Humans: A Dose Response. <i>Life</i> , 2021, 11, 36.	2.4	2
83	Self-selected Walking Intensity Of Healthy Older Women (65-74yr) During Treadmill And Over-ground Walking. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 362.	0.4	2
84	The Respiratory Compensation Point Is Not A Valid Surrogate Of Critical Power. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 672.	0.4	1
85	Response. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 2609.	0.4	1
86	Handrail support produces a higher rate pressure product in apparently healthy non-treadmill users during maximal exercise testing. <i>Physiological Measurement</i> , 2019, 40, 02NT01.	2.1	1
87	Regarding High-Intensity Interval Training and Left Ventricular Mechanics. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 2423-2423.	0.4	1
88	Is downstream cardiac testing required in patients with reduced functional capacity and otherwise negative exercise stress test? A single center observational study. <i>Cardiology Journal</i> , 2020, 26, 753-760.	1.2	1
89	Varied Walking Dose In Women With Type 2 Diabetes: Heart Rate Variability And Hemorheology Responses. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 767.	0.4	0
90	Exercise-induced Functional And Biochemical Cardiac Perturbations. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 871-872.	0.4	0

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91	Reply from Glenn M. Stewart, Justin J. Kavanagh, Luke J. Haseler and Surendran Sabapathy. <i>Journal of Physiology</i> , 2016, 594, 3159-3160.	2.9	0
92	Effects of photobiomodulation therapy (pulsed LASER 904 nm) on muscle oxygenation and performance in exercise-induced skeletal muscle fatigue in young women: a pilot study. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
93	Multi-layer Myocardial Mechanics In The Athlete's Heart. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 723.	0.4	0
94	Folic Acid Improves Vascular Function, But Not Skin Blood Flow, In Heart Failure Patients. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 346.	0.4	0
95	Ageing Alters Right Ventricular But Not Left Ventricular Myocardial Mechanics. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 189.	0.4	0
96	Work Performed Above The Respiratory Compensation Point Is Not Equivalent To \dot{V}_{O_2} . <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 407.	0.4	0
97	Comparison of heart rate reserve, age predicted maximum heart rate and rate pressure product as predictors of future cardiovascular events following a negative dobutamine stress echocardiogram. <i>Acta Cardiologica</i> , 2020, 75, 659-666.	0.9	0
98	Rate-Pressure Product Responses to Static Contractions Performed at Various Altitudes. <i>High Altitude Medicine and Biology</i> , 2021, 22, 166-173.	0.9	0
99	Safety and Efficacy of Scientist Led Exercise Stress Testing for Arrhythmia Provocation and Chronotropic Competence. <i>American Journal of Cardiology</i> , 2021, 154, 63-66.	1.6	0
100	Impaired Heart Rate Variability In Type 2 Diabetes: Roles Of Major Cardiovascular Disease Risk Factors. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 419.	0.4	0
101	Oxygen Uptake Kinetics During Arm Cranking Within The Moderate Intensity Domain. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 116.	0.4	0
102	The time course of selected outcome measures in healthy women aged 65-74 years when varying exercise frequency and duration of an exercise walking programme. <i>Healthy Aging Research</i> , 0, , .	0.3	0
103	Coffee For Morning Hunger Pangs. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 14.	0.4	0
104	Exercise-Echocardiography For The Assessment Of Ventricular Strain. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 329.	0.4	0
105	Manipulating The Exercise Intensity-duration Matrix Has A Profound Impact On Exercise-induced Functional And Biochemical Perturbations In The Human Heart.. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 800.	0.4	0
106	Exercising In The Heat Disrupts Human Heat Balance In Heart Failure Patients. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 562.	0.4	0
107	Heart Failure Modulates Thermoregulatory Control Independently Of Differences In Physical Characteristics And Metabolic Heat Production. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 621.	0.4	0
108	Breathing With Heart Failure. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 497-498.	0.4	0

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109	Evidence That Women With Polycystic Ovary Syndrome Exhibit Altered Vascular Function To High-intensity Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 704-704.	0.4	0
110	Markers Of Training Stress Associated With Functional Overreaching In Middle Distance Runners. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 833-833.	0.4	0