Mathieu Gayda

List of Publications by Year
in descending order

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96 papers	2,025 citations	236612 25 h-index	264894 42 g-index
98 all docs	98 docs citations	98 times ranked	2668 citing authors

#	Article	IF	Citations
1	Exercise and longevity. Maturitas, 2012, 73, 312-317.	1.0	157
2	Optimization of high intensity interval exercise in coronary heart disease. European Journal of Applied Physiology, 2010, 108, 733-740.	1.2	86
3	High-intensity interval training in patients with coronary heart disease: Prescription models and perspectives. Annals of Physical and Rehabilitation Medicine, 2017, 60, 50-57.	1.1	81
4	Long-term Lifestyle Intervention with Optimized High-Intensity Interval Training Improves Body Composition, Cardiometabolic Risk, and Exercise Parameters in Patients with Abdominal Obesity. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 941-950.	0.7	79
5	Intensive Lifestyle Intervention Improves Cardiometabolic and Exercise Parameters in Metabolically Healthy Obese and Metabolically Unhealthy Obese Individuals. Canadian Journal of Cardiology, 2014, 30, 434-440.	0.8	70
6	Comparison of Different Forms of Exercise Training in Patients With Cardiac Disease: Where Does High-Intensity Interval Training Fit?. Canadian Journal of Cardiology, 2016, 32, 485-494.	0.8	70
7	Cardiorespiratory requirements and reproducibility of the six-minute walk test in elderly patients with coronary artery disease 11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1538-1543.	0.5	68
8	High-Intensity Aerobic Interval Exercise in Chronic Heart Failure. Current Heart Failure Reports, 2013, 10, 130-138.	1.3	68
9	Acute Responses to High-Intensity Intermittent Exercise in CHD Patients. Medicine and Science in Sports and Exercise, 2011, 43, 211-217.	0.2	65
10	Cardiac Rehabilitation During Quarantine in COVID-19 Pandemic: Challenges for Center-Based Programs. Archives of Physical Medicine and Rehabilitation, 2020, 101, 1835-1838.	0.5	65
11	High-Intensity Interval Exercise in Chronic Heart Failure: Protocol Optimization. Journal of Cardiac Failure, 2012, 18, 126-133.	0.7	61
12	Usefulness of Self-Reported Leisure-Time Physical Activity to Predict Long-Term Survival in Patients With Coronary Heart Disease. American Journal of Cardiology, 2008, 102, 375-379.	0.7	60
13	Effect of interval training on cognitive functioning and cerebral oxygenation in obese patients: A pilot study. Journal of Rehabilitation Medicine, 2014, 46, 1050-1054.	0.8	55
14	Angiopoietinâ€Like 2 Promotes Atherogenesis in Mice. Journal of the American Heart Association, 2013, 2, e000201.	1.6	53
15	Comparison of the metabolic energy cost of overground and treadmill walking in older adults. European Journal of Applied Physiology, 2012, 112, 1613-1620.	1.2	52
16	Cardiopulmonary Rehabilitation in Long-COVID-19 Patients with Persistent Breathlessness and Fatigue: The COVID-Rehab Study. International Journal of Environmental Research and Public Health, 2022, 19, 4133.	1.2	45
17	Long-term cardiac rehabilitation and exercise training programs improve metabolic parameters in metabolic syndrome patients with and without coronary heart disease. Nutrition, Metabolism and Cardiovascular Diseases, 2008, 18, 142-151.	1.1	41
18	Effects of Sauna Alone and Postexercise Sauna Baths on Blood Pressure and Hemodynamic Variables in Patients With Untreated Hypertension. Journal of Clinical Hypertension, 2012, 14, 553-560.	1.0	38

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19	Reproducibility of near-infrared spectroscopy parameters measured during brachial artery occlusion and reactive hyperemia in healthy men. Journal of Biomedical Optics, 2012, 17, 0770101.	1.4	37
20	Assessment of skeletal muscle fatigue in men with coronary artery disease using surface electromyography during isometric contraction of quadriceps muscles. Archives of Physical Medicine and Rehabilitation, 2005, 86, 210-215.	0.5	32
21	A Single Bout of High-Intensity Interval Exercise Does Not Increase Endothelial or Platelet Microparticles in Stable, Physically Fit Men With Coronary Heart Disease. Canadian Journal of Cardiology, 2013, 29, 1285-1291.	0.8	30
22	Acute Responses to Intermittent and Continuous Exercise in Heart Failure Patients. Canadian Journal of Cardiology, 2013, 29, 466-471.	0.8	30
23	Central hemodynamic responses during acute high-intensity interval exercise and moderate continuous exercise in patients with heart failure. Applied Physiology, Nutrition and Metabolism, 2012, 37, 1171-1178.	0.9	29
24	Cardiometabolic and traditional cardiovascular risk factors and their potential impact on macrovascular and microvascular function: Preliminary data. Clinical Hemorheology and Microcirculation, 2015, 59, 53-65.	0.9	27
25	Cognitive function in patients with stable coronary heart disease: Related cerebrovascular and cardiovascular responses. PLoS ONE, 2017, 12, e0183791.	1.1	27
26	Effects of exercise training modality on skeletal muscle fatigue in men with coronary heart disease. Journal of Electromyography and Kinesiology, 2009, 19, e32-e39.	0.7	26
27	Comparison of gas exchange data using the AquatrainerÂ® system and the facemask with Cosmed K4b2 during exercise in healthy subjects. European Journal of Applied Physiology, 2010, 109, 191-199.	1.2	26
28	Provocative Issues in Heart Disease Prevention. Canadian Journal of Cardiology, 2014, 30, S401-S409.	0.8	26
29	Ambulatory blood pressure reduction following high-intensity interval exercise performed in water or dryland condition. Journal of the American Society of Hypertension, 2016, 10, 420-428.	2.3	26
30	Heart Rate Recovery After Exercise and Long-term Prognosis in Patients With Coronary Artery Disease. Canadian Journal of Cardiology, 2012, 28, 201-207.	0.8	23
31	Effect of aquatic interval training with Mediterranean diet counseling in obese patients: Results of a preliminary study. Annals of Physical and Rehabilitation Medicine, 2015, 58, 269-275.	1.1	23
32	Cardiovascular and hemodynamic responses on dryland vs. immersed cycling. Journal of Science and Medicine in Sport, 2015, 18, 619-623.	0.6	23
33	The impact of highâ€intensity interval training on ventricular remodeling in patients with a recent acute myocardial infarctionâ€”A randomized training intervention pilot study. Clinical Cardiology, 2019, 42, 1222-1231.	0.7	23
34	Exposure to extreme cold lowers the ischemic threshold in coronary artery disease patients. Canadian Journal of Cardiology, 2010, 26, e50-e53.	0.8	21
35	Lower Methylation of the ANGPTL2 Gene in Leukocytes from Post-Acute Coronary Syndrome Patients. PLoS ONE, 2016, 11, e0153920.	1.1	18
36	Effects of Sauna Alone Versus Postexercise Sauna Baths on Short-term Heart Rate Variability in Patients With Untreated Hypertension. Journal of Cardiopulmonary Rehabilitation and Prevention, 2012, 32, 147-154.	1.2	16

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37	Biomechanical analysis to determine the external power output on an immersible ergocycle. European Journal of Sport Science, 2015, 15, 271-278.	1.4	16
38	High-Intensity Aerobic Interval Training in a Patient with Stable Angina Pectoris. American Journal of Physical Medicine and Rehabilitation, 2010, 89, 83-86.	0.7	15
39	A single Mediterranean meal does not impair postprandial flow-mediated dilatation in healthy men with subclinical metabolic dysregulations. Applied Physiology, Nutrition and Metabolism, 2016, 41, 888-894.	0.9	15
40	Long-Term Exercise-Training Improves QT Dispersion in the Metabolic Syndrome. International Heart Journal, 2010, 51, 41-46.	0.5	14
41	Changes in Cardiopulmonary Reserve and Peripheral Arterial Function Concomitantly with Subclinical Inflammation and Oxidative Stress in Patients with Heart Failure with Preserved Ejection Fraction. International Journal of Vascular Medicine, 2014, 2014, 1-8.	0.4	14
42	Acute High-Intensity Intermittent Aerobic Exercise ReducesÂPlasma Angiopoietin-Like 2 in Patients With Coronary Artery Disease. Canadian Journal of Cardiology, 2015, 31, 1232-1239.	0.8	14
43	Cardiorespiratory fitness and functional capacity assessed by the 20-meter shuttle walking test in patients with coronary artery disease 11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit on the authors or on any organization with which the authors are associated.. Archives of Physical Medicine and Rehabilitation, 2003, 84, 1012-1016.	0.5	13
44	Intensive lifestyle intervention including high-intensity interval training program improves insulin resistance and fasting plasma glucose in obese patients. Preventive Medicine Reports, 2015, 2, 314-318.	0.8	13
45	Effects of Longâ€Term and Ongoing Cardiac Rehabilitation in Elderly Patients With Coronary Heart Disease. The American Journal of Geriatric Cardiology, 2006, 15, 345-351.	0.7	12
46	Obese but Fit: The Benefits of Fitness on Cognition in Obese Older Adults. Canadian Journal of Cardiology, 2020, 36, 1747-1753.	0.8	12
47	Exercise Lowers Plasma Angiopoietin-Like 2 in Men with Post-Acute Coronary Syndrome. PLoS ONE, 2016, 11, e0164598.	1.1	12
48	Immersible ergocycle prescription as a function of relative exercise intensity. Journal of Sport and Health Science, 2017, 6, 219-224.	3.3	11
49	Cardiovascular and cerebral hemodynamics during exercise and recovery in obese individuals as a function of their fitness status. Physiological Reports, 2017, 5, e13321.	0.7	11
50	Effects of interval training on risk markers for arrhythmic death: a randomized controlled trial. Clinical Rehabilitation, 2019, 33, 1320-1330.	1.0	11
51	Non-linear is not superior to linear aerobic training periodization in coronary heart disease patients. European Journal of Preventive Cardiology, 2020, 27, 1691-1698.	0.8	11
52	Comparison of Carbohydrate and Lipid Oxidation During Continuous and Intermittent Exercise in Patients With Chronic Heart Failure. Canadian Journal of Cardiology, 2013, 29, 990-992.	0.8	9
53	Whole-body strength training with Huber Motion Lab and traditional strength training in cardiac rehabilitation: A randomized controlled study. Annals of Physical and Rehabilitation Medicine, 2017, 60, 20-26.	1.1	9
54	Association between Statin Use and Balance in Older Adults. International Journal of Environmental Research and Public Health, 2020, 17, 4662.	1.2	9

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55	Ambulatory blood pressure reduction following 2 weeks of high-intensity interval training on an immersed ergocycle. Archives of Cardiovascular Diseases, 2019, 112, 680-690.	0.7	8
56	Optimization and Reliability of a Deep Water Running Test in Healthy Adults Older than 45 Years. American Journal of Physical Medicine and Rehabilitation, 2010, 89, 722-730.	0.7	7
57	Net Blood Pressure Reduction Following 9 Months of Lifestyle and Highâ€Intensity Interval Training Intervention in Individuals With Abdominal Obesity. Journal of Clinical Hypertension, 2016, 18, 1128-1134.	1.0	7
58	Cerebral Hemodynamics During Exercise and Recovery in Heart Transplant Recipients. Canadian Journal of Cardiology, 2016, 32, 539-546.	0.8	7
59	Moderate-intensity continuous exercise is superior to high-intensity interval training in the proportion of VO2peak responders after ACS. Revista Espanola De Cardiologia (English Ed), 2020, 73, 725-733.	0.4	7
60	Performances on the Montreal Cognitive Assessment Along the Cardiovascular Disease Continuum. Archives of Clinical Neuropsychology, 2022, 37, 117-124.	0.3	7
61	Whole-Body Strength Training Using a Huber Motion Lab in Coronary Heart Disease Patients. American Journal of Physical Medicine and Rehabilitation, 2015, 94, 385-394.	0.7	6
62	Thermoneutral immersion exercise accelerates heart rate recovery: A potential novel training modality. European Journal of Sport Science, 2017, 17, 310-316.	1.4	6
63	Women and men with coronary heart disease respond similarly to different aerobic exercise training modalities: a pooled analysis of prospective randomized trials. Applied Physiology, Nutrition and Metabolism, 2021, 46, 417-425.	0.9	6
64	COVEPIC (Cognitive and spOrt Virtual EPIC training) investigating the effects of home-based physical exercise and cognitive training on cognitive and physical functions in community-dwelling older adults: study protocol of a randomized single-blinded clinical trial. Trials, 2021, 22, 505.	0.7	6
65	Cardiopulmonary exercise data during quadriceps isometric contraction sustained to fatigue in children with cerebral palsy. Isokinetics and Exercise Science, 2009, 17, 27-33.	0.2	5
66	Muscle VO2 and forearm blood flow repeatability during venous and arterial occlusions in healthy and coronary heart disease subjects. Clinical Hemorheology and Microcirculation, 2015, 59, 177-183.	0.9	5
67	749 Cognitive Performance, Cerebral Oxygenation, Exercise Capacity and Cardiac Output in Patients with Coronary Heart Disease. Canadian Journal of Cardiology, 2012, 28, S386-S387.	0.8	4
68	Cardiorespiratory Fitness Mediates Cognitive Performance in Chronic Heart Failure Patients and Heart Transplant Recipients. International Journal of Environmental Research and Public Health, 2020, 17, 8591.	1.2	4
69	Impact of 2 different aerobic periodization training protocols on left ventricular function in patients with stable coronary artery disease: an exploratory study. Applied Physiology, Nutrition and Metabolism, 2021, 46, 436-442.	0.9	4
70	Aptitudes cardiorespiratoires et fonction musculaire pÃ©riphÃ©rique chez des patients coronariens. Science and Sports, 2003, 18, 150-157.	0.2	3
71	Effects of fasting and/or postprandial glucose on heart rate recovery in patients with coronary heart disease. Diabetes and Metabolism, 2012, 38, 20-26.	1.4	3
72	Coronary artery disease and its impact on the pulsatile brain: AÂfunctional NIRS study. Human Brain Mapping, 2021, 42, 3760-3776.	1.9	3

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73	Investigation of the Effects of Home-Based Exercise and Cognitive Training on Cognitive and Physical Functions in Cardiac Patients: The COVEPICARDIO Study Protocol of a Randomized Clinical Trial. Frontiers in Cardiovascular Medicine, 2021, 8, 740834.	1.1	3
74	â€œHigh-intensity interval training may reduce in-stent restenosis following percutaneous coronary intervention with stent implantation: A randomized controlled trial evaluating the relationship to endothelial function and inflammation.â€•Am Heart J 2009;158:734-41. American Heart Journal, 2010, 159, e21.	1.2	2
75	Response to the letter of M. Brugnoli. European Journal of Applied Physiology, 2011, 111, 895-896.	1.2	2
76	Comment on the paper by Gibala, Little, Macdonald and Hawley entitled Physiological adaptations to lowâ€•volume, highâ€•intensity interval training in health and disease. Journal of Physiology, 2012, 590, 3389-3389.	1.3	2
77	Body composition and insulin sensitivity after highâ€•intensity interval training in overweight/obese patients. Obesity, 2014, 22, 624-624.	1.5	2
78	Comparison of Carbohydrate and Lipid Oxidation During Different High-Intensity Interval Exercise in Patients with Chronic Heart Failure. American Journal of Physical Medicine and Rehabilitation, 2017, 96, 50-54.	0.7	2
79	Cardiopulmonary, biomarkers, and vascular responses to acute hypoxia following cardiac transplantation. Clinical Transplantation, 2018, 32, e13352.	0.8	2
80	Eighteen months of combined Mediterranean diet and high-intensity interval training successfully maintained body mass loss in obese individuals. Annals of Physical and Rehabilitation Medicine, 2020, 63, 245-248.	1.1	2
81	Eighteen Months of Intense Lifestyle Intervention Including High Intensity Interval Training Improved and Maintained Body Composition, Cardiometabolic Risk and Exercise Parameters in Obese Patients. Canadian Journal of Cardiology, 2013, 29, S333.	0.8	1
82	Are Drastic Caloric Restrictions and Moderate-Intensity Physical Activity Still Relevant Lifestyle Interventions for Obese Patients With Type 2 Diabetes?. Canadian Journal of Cardiology, 2014, 30, 465.e9.	0.8	1
83	Letter regarding the article: Changes in BNP and cardiac troponin I after high-intensity interval and endurance exercise in heart failure patients and healthy controls. International Journal of Cardiology, 2015, 187, 151.	0.8	1
84	Discussion of â€œCardiorespiratory alterations induced by low-intensity exercise performed in water or on landâ€• Applied Physiology, Nutrition and Metabolism, 2015, 40, 963-963.	0.9	1
85	Long-term high-intensity interval training improves QT dispersion parameters in metabolic syndrome patients. Canadian Journal of Diabetes, 2011, 35, 189.	0.4	0
86	Effects of an aerobic and resistance training program on functional capacity and glucose regulation in patients with heart failure and diabetes. Cardiovascular Endocrinology, 2012, 1, 43-48.	0.8	0
87	Parasympathetic Reactivation Is Improved After Maximal Cycling Exercise In Immersion As Compared To Dryland Condition. Medicine and Science in Sports and Exercise, 2016, 48, 371.	0.2	0
88	Relationships Between Vo2peak, Cerebral Hemodynamics During Exercise And Cognitive Function In Type 2 Diabetes Patients.. Medicine and Science in Sports and Exercise, 2016, 48, 535.	0.2	0
89	Effects of Nine-Month Lifestyle Intervention on Cardiometabolic Risk Factors: Sex Differences in Obese Individuals. Obesities, 2021, 1, 29-35.	0.3	0
90	Impact of aerobic training periodisation on global and regional right ventricular strain in coronary heart disease. Applied Physiology, Nutrition and Metabolism, 2021, 46, 1502-1509.	0.9	0

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91	Abstract 500: Basal Peripheral Arterial Blood Flow Increases Concomitantly with Decreased Cardiopulmonary Reserve and Biomarkers Activation in Patients with Heart Failure and Preserved Ejection Fraction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, .	1.1	0
92	Relationship Between %VO2max, %HRmax, %HRR and %VO2R For Exercise Training Prescription On Immersible Ergocycle. Medicine and Science in Sports and Exercise, 2014, 46, 837-838.	0.2	0
93	Cerebral And Cardiac Hemodynamics During Exercise Are Related To Cognitive Function In Heart Transplant Recipients. Medicine and Science in Sports and Exercise, 2016, 48, 260.	0.2	0
94	External Work Efficiency On Immersed Ergocycle Vs. Dryland Ergocycle. Medicine and Science in Sports and Exercise, 2016, 48, 705.	0.2	0
95	Pulmonary Responses During Exercise On Dryland Vs. Immersible Ergocycle. Medicine and Science in Sports and Exercise, 2018, 50, 277.	0.2	0
96	Beta-Blocker Type Effect on Substrate Oxidation during HIIE in Heart Failure Patients: Pilot Data. Arquivos Brasileiros De Cardiologia, 2019, 112, 304-308.	0.3	0