

Jean-François Toussaint

List of Publications by Year in descending order

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87
papers

4,417
citations

126907

33
h-index

106344

65
g-index

87
all docs

87
docs citations

87
times ranked

4910
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving health through policies that promote active travel: A review of evidence to support integrated health impact assessment. <i>Environment International</i> , 2011, 37, 766-777.	10.0	452
2	Sports-Related Sudden Death in the General Population. <i>Circulation</i> , 2011, 124, 672-681.	1.6	420
3	Psychological Balance in High Level Athletes: Gender-Based Differences and Sport-Specific Patterns. <i>PLoS ONE</i> , 2011, 6, e19007.	2.5	325
4	Lipid-Rich Atherosclerotic Plaques Detected by Gadofluorine-Enhanced In Vivo Magnetic Resonance Imaging. <i>Circulation</i> , 2004, 109, 2890-2896.	1.6	198
5	T ₂ -Weighted Contrast for NMR Characterization of Human Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1995, 15, 1533-1542.	2.4	198
6	Chronic Thrombus Detection With In Vivo Magnetic Resonance Imaging and a Fibrin-Targeted Contrast Agent. <i>Circulation</i> , 2005, 112, 1594-1600.	1.6	150
7	Impact of Environmental Parameters on Marathon Running Performance. <i>PLoS ONE</i> , 2012, 7, e37407.	2.5	143
8	Mortality of French participants in the Tour de France (1947-2012). <i>European Heart Journal</i> , 2013, 34, 3145-3150.	2.2	137
9	Reproducibility of High-Resolution MRI for the Identification and the Quantification of Carotid Atherosclerotic Plaque Components. <i>Stroke</i> , 2007, 38, 1812-1819.	2.0	114
10	Exponential growth combined with exponential decline explains lifetime performance evolution in individual and human species. <i>Age</i> , 2012, 34, 1001-1009.	3.0	108
11	Women and Men in Sport Performance: The Gender Gap has not Evolved since 1983. <i>Journal of Sports Science and Medicine</i> , 2010, 9, 214-23.	1.6	89
12	A Phase II, Randomized, Safety and Immunogenicity Study of a Re-Derived, Live-Attenuated Dengue Virus Vaccine in Healthy Adults. <i>American Journal of Tropical Medicine and Hygiene</i> , 2013, 88, 73-88.	1.4	86
13	The Citius End: World Records Progression Announces the Completion of a Brief Ultra-Physiological Quest. <i>PLoS ONE</i> , 2008, 3, e1552.	2.5	79
14	Perfusion changes in human skeletal muscle during reactive hyperemia measured by echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 62-69.	3.0	78
15	High-Resolution MR Imaging of the Cervical Arterial Wall: What the Radiologist Needs to Know. <i>Radiographics</i> , 2009, 29, 1413-1431.	3.3	73
16	Fibrin-targeted contrast agent for improvement of in vivo acute thrombus detection with magnetic resonance imaging. <i>Atherosclerosis</i> , 2005, 182, 79-85.	0.8	72
17	How they won Rugby World Cup through height, mass and collective experience. <i>British Journal of Sports Medicine</i> , 2012, 46, 580-584.	6.7	69
18	Has Athletic Performance Reached its Peak?. <i>Sports Medicine</i> , 2015, 45, 1263-1271.	6.5	63

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19	Regional specificity of peak hyperemic responses in patients with congestive heart failure: Correlation with peak aerobic capacity. <i>Journal of the American College of Cardiology</i> , 1993, 22, 1399-1402.	2.8	61
20	BMI, a Performance Parameter for Speed Improvement. <i>PLoS ONE</i> , 2014, 9, e90183.	2.5	61
21	Covid-19 Mortality: A Matter of Vulnerability Among Nations Facing Limited Margins of Adaptation. <i>Frontiers in Public Health</i> , 2020, 8, 604339.	2.7	55
22	Relationships Between Recent Intraplaque Hemorrhage and Stroke Risk Factors in Patients With Carotid Stenosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 492-499.	2.4	52
23	Are We Reaching the Limits of Homo sapiens?. <i>Frontiers in Physiology</i> , 2017, 8, 812.	2.8	52
24	An Adjuvanted, Tetravalent Dengue Virus Purified Inactivated Vaccine Candidate Induces Long-Lasting and Protective Antibody Responses Against Dengue Challenge in Rhesus Macaques. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 698-708.	1.4	51
25	Phase 1 Randomized Study of a Tetravalent Dengue Purified Inactivated Vaccine in Healthy Adults in the United States. <i>American Journal of Tropical Medicine and Hygiene</i> , 2017, 96, 1325-1337.	1.4	50
26	Basal Asynchrony and Resynchronization with Biventricular Pacing Predict Long-Term Improvement of LV Function in Heart Failure Patients. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2003, 26, 1815-1823.	1.2	46
27	Athlete Atypicity on the Edge of Human Achievement: Performances Stagnate after the Last Peak, in 1988. <i>PLoS ONE</i> , 2010, 5, e8800.	2.5	46
28	The Effects of Menstrual Cycle Phase on Elite Athlete Performance: A Critical and Systematic Review. <i>Frontiers in Physiology</i> , 2021, 12, 654585.	2.8	45
29	Technology & swimming: 3 steps beyond physiology. <i>Materials Today</i> , 2010, 13, 46-51.	14.2	40
30	Safety and Immunogenicity of a Rederived, Live-Attenuated Dengue Virus Vaccine in Healthy Adults Living in Thailand: A Randomized Trial. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 91, 119-128.	1.4	38
31	Mortality in Female and Male French Olympians. <i>American Journal of Sports Medicine</i> , 2015, 43, 1505-1512.	4.2	38
32	Marathon progress: demography, morphology and environment. <i>Journal of Sports Sciences</i> , 2014, 32, 524-532.	2.0	37
33	Tour de France, Giro, Vuelta, and classic European races show a unique progression of road cycling speed in the last 20 years. <i>Journal of Sports Sciences</i> , 2010, 28, 789-796.	2.0	35
34	Biventricular Pacing in Severe Heart Failure Patients Reverses Electromechanical Dyssynchronization from Apex to Base. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2000, 23, 1731-1734.	1.2	34
35	Secular trend: morphology and performance. <i>Journal of Sports Sciences</i> , 2014, 32, 1146-1154.	2.0	34
36	Return to Sport Among French Alpine Skiers After an Anterior Cruciate Ligament Rupture. <i>American Journal of Sports Medicine</i> , 2016, 44, 324-330.	4.2	34

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37	Tyrosine polyethylene glycol (PEG)-micelle magnetic resonance contrast agent for the detection of lipid rich areas in atherosclerotic plaque. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1195-1201.	3.0	33
38	A Phase II, Randomized, Safety and Immunogenicity Trial of a Re-Derived, Live-Attenuated Dengue Virus Vaccine in Healthy Children and Adults Living in Puerto Rico. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 93, 441-453.	1.4	32
39	The heart of the matter: years-saved from cardiovascular and cancer deaths in an elite athlete cohort with over a century of follow-up. <i>European Journal of Epidemiology</i> , 2018, 33, 531-543.	5.7	32
40	Phase I Randomized Study of a Tetravalent Dengue Purified Inactivated Vaccine in Healthy Adults from Puerto Rico. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 98, 1435-1443.	1.4	31
41	Characterization of atherosclerotic plaque components by high resolution quantitative MR and US imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 622-629.	3.4	30
42	Interrelationship of oxidative metabolism and local perfusion demonstrated by NMR in human skeletal muscle. <i>Journal of Applied Physiology</i> , 1996, 81, 2221-2228.	2.5	29
43	Medical Reasons Behind Player Departures From Male and Female Professional Tennis Competitions. <i>American Journal of Sports Medicine</i> , 2015, 43, 34-40.	4.2	29
44	From Oxford to Hawaii Ecophysiological Barriers Limit Human Progression in Ten Sport Monuments. <i>PLoS ONE</i> , 2008, 3, e3653.	2.5	28
45	Success and Decline. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 2148-2154.	0.4	28
46	Eighty percent of French sport winners in Olympic, World and Europeans competitions have mutations in the hemochromatosis HFE gene. <i>Biochimie</i> , 2015, 119, 1-5.	2.6	28
47	An integrative modeling approach to the age-performance relationship in mammals at the cellular scale. <i>Scientific Reports</i> , 2019, 9, 418.	3.3	28
48	Learning From Leaders: Life-span Trends in Olympians and Supercentenarians. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 944-949.	3.6	27
49	Row for Your Life: A Century of Mortality Follow-Up of French Olympic Rowers. <i>PLoS ONE</i> , 2014, 9, e113362.	2.5	27
50	Behavior of Atherosclerotic Plaque Components After in Vitro Angioplasty and Atherectomy Studied by High Field MR Imaging. <i>Magnetic Resonance Imaging</i> , 1998, 16, 175-183.	1.8	26
51	Age-Related Changes in Locomotor Performance Reveal a Similar Pattern for <i>Caenorhabditis elegans</i> , <i>Mus domesticus</i> , <i>Canis familiaris</i> , <i>Equus caballus</i> , and <i>Homo sapiens</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, g1w136.	3.6	26
52	Female and male US Olympic athletes live 5 years longer than their general population counterparts: a study of 8124 former US Olympians. <i>British Journal of Sports Medicine</i> , 2021, 55, 206-212.	6.7	26
53	Determinants of Mortality in Patients Undergoing Cardiac Resynchronization Therapy: Baseline Clinical, Echocardiographic, and Angioscintigraphic Evaluation Prior to Resynchronization. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2005, 28, 1260-1270.	1.2	25
54	No effect of weight cycling on the post-career BMI of weight class elite athletes. <i>BMC Public Health</i> , 2013, 13, 510.	2.9	24

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55	The age-performance relationship in the general population and strategies to delay age related decline in performance. <i>Archives of Public Health</i> , 2019, 77, 51.	2.4	22
56	DNA Immunization with Plasmids Encoding Fusion and Nucleocapsid Proteins of Bovine Respiratory Syncytial Virus Induces a Strong Cell-Mediated Immunity and Protects Calves against Challenge. <i>Journal of Virology</i> , 2007, 81, 6879-6889.	3.4	20
57	Vaccination of calves using the BRSV nucleocapsid protein in a DNA prime-protein boost strategy stimulates cell-mediated immunity and protects the lungs against BRSV replication and pathology. <i>Vaccine</i> , 2008, 26, 4840-4848.	3.8	19
58	Success in Developing Regions: World Records Evolution through a Geopolitical Prism. <i>PLoS ONE</i> , 2009, 4, e7573.	2.5	16
59	Ventricular Coupling of Electrical and Mechanical Dyssynchronization in Heart Failure Patients. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002, 25, 178-182.	1.2	14
60	Understanding how outcomes are measured in workplace physical activity interventions: a scoping review. <i>BMC Public Health</i> , 2018, 18, 1064.	2.9	14
61	A Medal in the Olympics Runs in the Family: A Cohort Study of Performance Heritability in the Games History. <i>Frontiers in Physiology</i> , 2018, 9, 1313.	2.8	12
62	Environment and Scheduling Effects on Sprint and Middle Distance Running Performances. <i>PLoS ONE</i> , 2013, 8, e79548.	2.5	12
63	Age-Related Upper Limits in Physical Performances. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 591-599.	3.6	10
64	Age-Related Changes in Para and Wheelchair Racing Athletes' Performances. <i>Frontiers in Physiology</i> , 2019, 10, 256.	2.8	9
65	High hopes: lower risk of death due to mental disorders and self-harm in a century-long US Olympian cohort compared with the general population. <i>British Journal of Sports Medicine</i> , 2021, 55, 900-905.	6.7	9
66	Identification of interleukin-2 for imaging atherosclerotic inflammation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2006, 33, 111-116.	6.4	8
67	Is the visual impairment origin a performance factor? Analysis of international-level para swimmers and para athletes. <i>Journal of Sports Sciences</i> , 2022, 40, 489-497.	2.0	8
68	Robust Exponential Decreasing Index (REDI): adaptive and robust method for computing cumulated workload. <i>BMJ Open Sport and Exercise Medicine</i> , 2019, 5, e000573.	2.9	7
69	Does an Optimal Relationship Between Injury Risk and Workload Represented by the "Sweet Spot" Really Exist? An Example From Elite French Soccer Players and Pentathletes. <i>Frontiers in Physiology</i> , 2020, 11, 1034.	2.8	7
70	Atherosclerotic plaque assessment by NMR. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998, 6, 135-136.	2.0	6
71	Bayesian approach to quantify morphological impact on performance in international elite freestyle swimming. <i>BMJ Open Sport and Exercise Medicine</i> , 2019, 5, e000543.	2.9	6
72	Training load quantification of high intensity exercises: Discrepancies between original and alternative methods. <i>PLoS ONE</i> , 2020, 15, e0237027.	2.5	5

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73	Body and Boat: Significance of Morphology on Elite Rowing Performance. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 597676.	1.8	5
74	NMR sequences for biochemical analysis and imaging of vascular diseases. , 2001, 17, 187-194.		4
75	Collective effectiveness in the <i>XV de France</i> selections and time matter. <i>European Journal of Sport Science</i> , 2017, 17, 656-664.	2.7	4
76	A Mouse Model of Cardiomyopathy Induced by Mutations in the Hemochromatosis HFE Gene. <i>Canadian Journal of Cardiology</i> , 2017, 33, 904-910.	1.7	4
77	COVID-19â€‘Related National Re-confinement: Recommendations From the National French Observatory for Physical Activity and Sedentary Behaviors (ONAPS). <i>Journal of Physical Activity and Health</i> , 2021, 18, 474-476.	2.0	4
78	Is physical fitness associated with the type of attended school? A cross-sectional analysis among adolescents. <i>Journal of Sports Medicine and Physical Fitness</i> , 2022, 62, .	0.7	4
79	Exercise Dose Equalization in High-Intensity Interval Training: A Scoping Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4980.	2.6	4
80	Gated blood pool tomoscintigraphy with 4-dimensional optical flow motion analysis quantifies left ventricular mechanical activation and synchronization. <i>Journal of Nuclear Cardiology</i> , 2006, 13, 811-820.	2.1	3
81	Does maternity during sports career jeopardize future athletic success in elite marathon runners?. <i>European Journal of Sport Science</i> , 2023, 23, 896-903.	2.7	3
82	Involvement in Multiple Race Events Among International Para and Non-disabled Swimmers. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 608777.	1.8	2
83	Comment on: â€‘Potential long-term health problems associated with ultra-endurance running: a narrative reviewâ€™. <i>Sports Medicine</i> , 2022, 52, 955.	6.5	2
84	Quantifying Collective Performance in Rugby Union. <i>Frontiers in Sports and Active Living</i> , 2019, 1, 44.	1.8	1
85	Heads-Up: Risk-Specific Neurodegenerative Mortality and Years-Saved Analysis on the US Olympian Cohort. <i>Frontiers in Physiology</i> , 2021, 12, 705616.	2.8	1
86	Une limite aux Ã©volutions de l'hommeÂ?. , 2012, , 21-28.		0
87	Echocardiographic Assessment of Left Ventricular Function 10 Years after the Ultra-Endurance Running Event Eco-Trail de ParisÂ® 2011. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 8268.	2.6	0