

Giovanni Cavagna

List of Publications by Year in descending order

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29
papers

2,692
citations

331259

21
h-index

525886

27
g-index

29
all docs

29
docs citations

29
times ranked

1565
citing authors

#	ARTICLE	IF	CITATIONS
1	The sources of external work in level walking and running.. Journal of Physiology, 1976, 262, 639-657.	1.3	652
2	Energetic cost of carrying loads: have African women discovered an economic way?. Nature, 1986, 319, 668-669.	13.7	334
3	The determinants of the step frequency in running, trotting and hopping in man and other vertebrates.. Journal of Physiology, 1988, 399, 81-92.	1.3	200
4	Energy-saving gait mechanics with head-supported loads. Nature, 1995, 375, 52-54.	13.7	192
5	The determinants of the step frequency in walking in humans.. Journal of Physiology, 1986, 373, 235-242.	1.3	167
6	The mechanics of sprint running. Journal of Physiology, 1971, 217, 709-721.	1.3	165
7	Effect of stretching on the elastic characteristics and the contractile component of frog striated muscle. Journal of Physiology, 1974, 239, 1-14.	1.3	147
8	The mechanics of walking in children.. Journal of Physiology, 1983, 343, 323-339.	1.3	143
9	The two power limits conditioning step frequency in human running.. Journal of Physiology, 1991, 437, 95-108.	1.3	82
10	The landingâ€“take-off asymmetry in human running. Journal of Experimental Biology, 2006, 209, 4051-4060.	0.8	81
11	The resonant step frequency in human running. Pflugers Archiv European Journal of Physiology, 1997, 434, 678-684.	1.3	79
12	Old men running: mechanical work and elastic bounce. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 411-418.	1.2	59
13	Biomechanics of locomotion in Asian elephants. Journal of Experimental Biology, 2010, 213, 694-706.	0.8	51
14	The role played by elasticity in an exercise involving movements of small amplitude. Pflugers Archiv European Journal of Physiology, 1975, 354, 281-286.	1.3	49
15	Symmetry and Asymmetry in Bouncing Gaits. Symmetry, 2010, 2, 1270-1321.	1.1	36
16	Mechanical power and efficiency in running children. Pflugers Archiv European Journal of Physiology, 2001, 442, 107-116.	1.3	34
17	The landingâ€“take-off asymmetry of human running is enhanced in old age. Journal of Experimental Biology, 2008, 211, 1571-1578.	0.8	29
18	The series elastic component of frog gastrocnemius. Journal of Physiology, 1970, 206, 257-262.	1.3	27

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19	Mechanics of competition walking.. Journal of Physiology, 1981, 315, 243-251.	1.3	27
20	Effect of temperature and velocity of stretching on stress relaxation of contracting frog muscle fibres.. Journal of Physiology, 1993, 462, 161-173.	1.3	26
21	The two asymmetries of the bouncing step. European Journal of Applied Physiology, 2009, 107, 739-742.	1.2	23
22	AIRFLOW RATES AND EFFICIENCY CHANGES DURING PHONATION. Annals of the New York Academy of Sciences, 1968, 155, 152-164.	1.8	18
23	Running, hopping and trotting: tuning step frequency to the resonant frequency of the bouncing system favors larger more compliant animals. Journal of Experimental Biology, 2015, 218, 3276-83.	0.8	16
24	The bounce of the body in hopping, running and trotting: different machines with the same motor. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 4279-4285.	1.2	15
25	Running backwards: soft landingâ€“hard takeoff, a less efficient rebound. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 339-346.	1.2	14
26	Effect of stretching on undamped elasticity in muscle fibres from Rana temporaria. Journal of Muscle Research and Cell Motility, 1999, 20, 33-43.	0.9	10
27	Physiological Aspects of Legged Terrestrial Locomotion. , 2017, , .		6
28	The phase shift between potential and kinetic energy in human walking. Journal of Experimental Biology, 2020, 223, .	0.8	6
29	Fundamentals of Human Physiology. , 2019, , .		4