Guillaume Rao

List of Publications by Year
in descending order

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54	1,261	471061 17	377514 34
papers	citations	h-index	g-index

62	62	62	1455
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of body segmentsâ€™ parameters estimation models on inverse dynamics solutions during gait. Journal of Biomechanics, 2006, 39, 1531-1536.	0.9	161
2	Is Motorized Treadmill Running Biomechanically Comparable to Overground Running? A Systematic Review and Meta-Analysis of Cross-Over Studies. Sports Medicine, 2020, 50, 785-813.	3.1	141
3	The influence of footwear on foot motion during walking and running. Journal of Biomechanics, 2009, 42, 2081-2088.	0.9	124
4	Vitamin D₂Potentiates Axon Regeneration. Journal of Neurotrauma, 2008, 25, 1247-1256.	1.7	93
5	Judging where a ball will go: the case of curved free kicks in football. Die Naturwissenschaften, 2006, 93, 97-101.	0.6	73
6	Is midsole thickness a key parameter for the running pattern?. Gait and Posture, 2014, 40, 58-63.	0.6	64
7	Shoe drop has opposite influence on running pattern when running overground or on a treadmill. European Journal of Applied Physiology, 2015, 115, 911-918.	1.2	56
8	One- and multi-segment foot models lead to opposite results on ankle joint kinematics during gait: Implications for clinical assessment. Clinical Biomechanics, 2015, 30, 493-499.	0.5	53
9	Optic variables used to judge future ball arrival position in expert and novice soccer players. Attention, Perception, and Psychophysics, 2009, 71, 515-522.	0.7	44
10	Does an increase in energy return and/or longitudinal bending stiffness shoe features reduce the energetic cost of running?. European Journal of Applied Physiology, 2019, 119, 429-439.	1.2	36
11	Influence of additional load on the moments of the agonist and antagonist muscle groups at the knee joint during closed chain exercise. Journal of Electromyography and Kinesiology, 2009, 19, 459-466.	0.7	35
12	A two-step EMG-and-optimization process to estimate muscle force during dynamic movement. Journal of Biomechanics, 2010, 43, 1827-1830.	0.9	33
13	A method to characterize in vivo tendon forceâ€“strain relationship by combining ultrasonography, motion capture and loading rates. Journal of Biomechanics, 2011, 44, 2333-2336.	0.9	28
14	Ultrasound-based subject-specific parameters improve fascicle behaviour estimation in Hill-type muscle model. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 116-123.	0.9	25
15	Subject-Specific Tendon-Aponeurosis Definition in Hill-Type Model Predicts Higher Muscle Forces in Dynamic Tasks. PLoS ONE, 2012, 7, e44406.	1.1	24
16	Aging of running shoes and its effect on mechanical and biomechanical variables: implications for runners. Journal of Sports Sciences, 2014, 32, 1013-1022.	1.0	19
17	Does wearing shoes affect your biomechanical efficiency?. Journal of Biomechanics, 2015, 48, 413-417.	0.9	19
18	Interdisciplinary Research: A Promising Approach to Investigate Elite Performance in Sports. Quest, 2017, 69, 65-79.	0.8	18

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19	The stiff plate location into the shoe influences the running biomechanics. Sports Biomechanics, 2021, 20, 815-830.	0.8	18
20	The effects of player grip on the dynamic behaviour of a tennis racket. Journal of Sports Sciences, 2017, 35, 1155-1164.	1.0	16
21	FK506 Induces Changes in Muscle Properties and Promotes Metabosensitive Nerve Fiber Regeneration. Journal of Neurotrauma, 2009, 26, 97-108.	1.7	13
22	Regulation of pendulum length as a control mechanism in performing the backward giant circle in gymnastics. Human Movement Science, 2009, 28, 250-262.	0.6	13
23	An EMG-Driven Biomechanical Model That Accounts for the Decrease in Moment Generation Capacity During a Dynamic Fatigued Condition. Journal of Biomechanical Engineering, 2010, 132, 071003.	0.6	13
24	A Clinically Applicable Model to Estimate the Opposing Muscle Groups Contributions to Isometric and Dynamic Tasks. Annals of Biomedical Engineering, 2010, 38, 2406-2417.	1.3	12
25	The Influence of the â€˜Trier Social Stress Testâ€™ on Free Throw Performance in Basketball: An Interdisciplinary Study. PLoS ONE, 2016, 11, e0157215.	1.1	12
26	A scale-based approach to interdisciplinary research and expertise in sports. Journal of Sports Sciences, 2017, 35, 290-301.	1.0	12
27	3D propagation of the shock-induced vibrations through the whole lower-limb during running. Journal of Biomechanics, 2019, 96, 109343.	0.9	11
28	The Effect of Aging on Muscular Dynamics Underlying Movement Patterns Changes. Frontiers in Aging Neuroscience, 2016, 8, 309.	1.7	10
29	On the Organizing Role of Nonmuscular Forces During Performance of a Giant Circle in Gymnastics. Journal of Applied Biomechanics, 2012, 28, 57-62.	0.3	9
30	Functional coordination of muscles underlying changes in behavioural dynamics. Scientific Reports, 2016, 6, 27759.	1.6	8
31	A scaling method to individualise muscle force capacities in musculoskeletal models of the hand and wrist using isometric strength measurements. Medical and Biological Engineering and Computing, 2017, 55, 2227-2244.	1.6	7
32	Active tuning of stroke-induced vibrations by tennis players. Journal of Sports Sciences, 2017, 35, 1-9.	1.0	6
33	Effects of shoe energy return and bending stiffness on running economy and kinetics. Footwear Science, 2017, 9, S11-S13.	0.8	6
34	Online sonification improves cycling performance through kinematic and muscular reorganisations. Scientific Reports, 2020, 10, 20929.	1.6	5
35	Vestibular Lesion-Induced Developmental Plasticity in Spinal Locomotor Networks during Xenopus laevis Metamorphosis. PLoS ONE, 2013, 8, e71013.	1.1	4
36	Foot angle at touchdown is not linearly related to the loading rate during running. Footwear Science, 2015, 7, S37-S38.	0.8	4

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37	Effect of time during a running session with minimal footwear. Footwear Science, 2013, 5, S113-S114.	0.8	3
38	Influence of Task Constraints and Device Properties on Motor Patterns in a Realistic Control Situation. Journal of Motor Behavior, 2014, 46, 1-15.	0.5	3
39	Quantifying foot deformation using finite helical angle. Journal of Biomechanics, 2015, 48, 3716-3719.	0.9	3
40	Does changing the bike frame influence pedal force pattern in mountain bike cyclists?. Science and Sports, 2019, 34, e279-e287.	0.2	3
41	Subject specific muscle synergies and mechanical output during cycling with arms or legs. PeerJ, 2022, 10, e13155.	0.9	3
42	The effect of shoe drop on running pattern. Footwear Science, 2013, 5, S106-S107.	0.8	2
43	A multi-level approach to investigate the control of an input device: application to a realistic pointing task. Ergonomics, 2014, 57, 1380-1396.	1.1	2
44	Authorsâ€™ Reply to Dewolf et al.: â€œIs Motorized Treadmill Running Biomechanically Comparable to Overground Running? A Systematic Review and Meta-Analysis of Cross-Over Studiesâ€• Sports Medicine, 2020, 50, 1699-1699.	3.1	2
45	A multivariate statistical strategy to adjust musculoskeletal models. Journal of Biomechanics, 2020, 104, 109724.	0.9	2
46	Inter-strides variability affects internal foot tissue loadings during running. Scientific Reports, 2022, 12, 4227.	1.6	2
47	A 3-D finite element model of the foot-shoe structure during a walking cycle for shoe sole design. Footwear Science, 2013, 5, S36-S37.	0.8	1
48	FE Model and Operational Modal Analysis of Lower Limbs. Applied Sciences (Switzerland), 2017, 7, 853.	1.3	1
49	Increasing the longitudinal bending stiffness of runnersâ€™ habitual shoes: An appropriate choice for improving running performance?. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 0, , 175433712110412.	0.4	1
50	Patellar Tendon Force Differs Depending on Jump-Landing Tasks and Estimation Methods. Applied Sciences (Switzerland), 2022, 12, 488.	1.3	1
51	Effect of load on agonist and antagonist muscle moments during dynamic squats. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 233-234.	0.9	0
52	EMG-based estimation of muscular efforts exerted during human movements. Movement and Sports Sciences - Science Et Motricite, 2012, , 27-37.	0.2	0
53	Development of a method allowing the correlation of a finite element foot model to human perception of cushioning in footwear. Footwear Science, 2015, 7, S73-S74.	0.8	0
54	An Integrated Approach toward Testing Sports Equipment (P260). , 2008, , 577-585.		0