

# GaÃ«l Guilhem

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

1,956  
citations

304743

22  
h-index

265206

42  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2405  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased Infiltration of Macrophages in Omental Adipose Tissue Is Associated With Marked Hepatic Lesions in Morbid Human Obesity. <i>Diabetes</i> , 2006, 55, 1554-1561.	0.6	513
2	Timeâ€course effect of exerciseâ€induced muscle damage on localized muscle mechanical properties assessed using elastography. <i>Acta Physiologica</i> , 2014, 211, 135-146.	3.8	115
3	How 100â€m event analyses improve our understanding of worldâ€class men's and women's sprint performance. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 45-54.	2.9	102
4	Neuromuscular and muscle-tendon system adaptations to isotonic and isokinetic eccentric exercise. <i>Annals of Physical and Rehabilitation Medicine</i> , 2010, 53, 319-341.	2.3	89
5	Effects of warmâ€up on hamstring muscles stiffness: Cycling vs foam rolling. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 1959-1969.	2.9	77
6	What is the Best Method for Assessing Lower Limb Force-Velocity Relationship?. <i>International Journal of Sports Medicine</i> , 2015, 36, 143-149.	1.7	65
7	Muscle force loss and sorenessâ€subsequent to maximal eccentric contractions depend on the amount of fascicle strain <i>in vivo</i> . <i>Acta Physiologica</i> , 2016, 217, 152-163.	3.8	63
8	Validity of trunk extensor and flexor torque measurements using isokinetic dynamometry. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 986-993.	1.7	57
9	Adjustment of Muscle Coordination during an All-Out Sprint Cycling Task. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 2154-2164.	0.4	52
10	Neuromuscular Adaptations to Isoload versus Isokinetic Eccentric Resistance Training. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 326-335.	0.4	52
11	Early detection of exercise-induced muscle damage using elastography. <i>European Journal of Applied Physiology</i> , 2017, 117, 2047-2056.	2.5	50
12	Optimal Balance Between Force and Velocity Differs Among World-Class Athletes. <i>Journal of Applied Biomechanics</i> , 2016, 32, 59-68.	0.8	43
13	Muscle architecture and EMG activity changes during isotonic and isokinetic eccentric exercises. <i>European Journal of Applied Physiology</i> , 2011, 111, 2723-2733.	2.5	42
14	Mechanical and Muscular Coordination Patterns during a High-Level Fencing Assault. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 341-350.	0.4	40
15	Effects of Air-Pulsed Cryotherapy on Neuromuscular Recovery Subsequent to Exercise-Induced Muscle Damage. <i>American Journal of Sports Medicine</i> , 2013, 41, 1942-1951.	4.2	38
16	Cryotherapy induces an increase in muscle stiffness. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 260-266.	2.9	34
17	A comparison of foam rolling and vibration foam rolling on the quadriceps muscle function and mechanical properties. <i>European Journal of Applied Physiology</i> , 2021, 121, 1461-1471.	2.5	33
18	Hamstring Eccentric Strengthening Program: Does Training Volume Matter?. <i>International Journal of Sports Physiology and Performance</i> , 2020, 15, 81-90.	2.3	32

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19	In vivo maximal fascicle-shortening velocity during plantar flexion in humans. <i>Journal of Applied Physiology</i> , 2015, 119, 1262-1271.	2.5	31
20	Coordination of hamstrings is individual specific and is related to motor performance. <i>Journal of Applied Physiology</i> , 2018, 125, 1069-1079.	2.5	31
21	Urokinase Plasminogen Activator Receptor in Adipose Tissue Macrophages of Morbidly Obese Subjects. <i>Obesity Facts</i> , 2011, 4, 17-25.	3.4	24
22	Interactions between fascicles and tendinous tissues in gastrocnemius medialis and vastus lateralis during drop landing. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 55-70.	2.9	24
23	Hamstring muscle elasticity differs in specialized high-performance athletes. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 83-91.	2.9	22
24	Bilateral differences in hamstring coordination in previously injured elite athletes. <i>Journal of Applied Physiology</i> , 2020, 128, 688-697.	2.5	22
25	Salivary Hormones Response to Preparation and Pre-competitive Training of World-class Level Athletes. <i>Frontiers in Physiology</i> , 2015, 6, 333.	2.8	21
26	Muscle fascicle shortening behaviour of vastus lateralis during a maximal force-velocity test. <i>European Journal of Applied Physiology</i> , 2017, 117, 289-299.	2.5	20
27	Reliability of the force-velocity-power variables during ice hockey sprint acceleration. <i>Sports Biomechanics</i> , 2022, 21, 56-70.	1.6	18
28	Case Study: Sleep and Injury in Elite Soccer – A Mixed Method Approach. <i>Journal of Strength and Conditioning Research</i> , 2019, 33, 3085-3091.	2.1	16
29	Lower limb muscle injury location shift from posterior lower leg to hamstring muscles with increasing discipline-related running velocity in international athletics championships. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 653-659.	1.3	16
30	Influence of joint angle on muscle fascicle dynamics and rate of torque development during isometric explosive contractions. <i>Journal of Applied Physiology</i> , 2020, 129, 569-579.	2.5	15
31	Effects of a Single Proprioceptive Neuromuscular Facilitation Stretching Exercise With and Without Post-stretching Activation on the Muscle Function and Mechanical Properties of the Plantar Flexor Muscles. <i>Frontiers in Physiology</i> , 2021, 12, 732654.	2.8	14
32	Is muscle coordination affected by loading condition in ballistic movements?. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 69-76.	1.7	12
33	Between-muscle differences in coactivation assessed using elastography. <i>Journal of Electromyography and Kinesiology</i> , 2018, 43, 88-94.	1.7	12
34	Maximising individualisation of sports injury risk reduction approach to reach success. <i>Brazilian Journal of Physical Therapy</i> , 2022, 26, 100394.	2.5	12
35	A standardization method to compare isotonic vs. isokinetic eccentric exercises. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 1000-1006.	1.7	11
36	Mechanical determinants of forward skating sprint inferred from off-ice and on-ice force-velocity evaluations in elite female ice hockey players. <i>European Journal of Sport Science</i> , 2021, 21, 192-203.	2.7	11

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37	A New Device to Study Isoload Eccentric Exercise. <i>Journal of Strength and Conditioning Research</i> , 2010, 24, 3476-3483.	2.1	10
38	A Novel Accelerometry-Based Metric to Improve Estimation of Whole-Body Mechanical Load. <i>Sensors</i> , 2021, 21, 3398.	3.8	9
39	Neuromuscular Changes and Damage after Isoload versus Isokinetic Eccentric Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 2526-2535.	0.4	8
40	Comparison of A Single Vibration Foam Rolling and Static Stretching Exercise on the Muscle Function and Mechanical Properties of the Hamstring Muscles. <i>Journal of Sports Science and Medicine</i> , 0, , 287-297.	1.6	8
41	Specific joint angle dependency of voluntary activation during eccentric knee extensions. <i>Muscle and Nerve</i> , 2017, 56, 750-758.	2.2	7
42	Surface properties affect the interplay between fascicles and tendinous tissues during landing. <i>European Journal of Applied Physiology</i> , 2020, 120, 203-217.	2.5	7
43	Time-Course of Neuromuscular Changes during and after Maximal Eccentric Contractions. <i>Frontiers in Physiology</i> , 2016, 7, 137.	2.8	6
44	Influence of Isoinertial-Pneumatic Mixed Resistances on Force-Velocity Relationship. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 385-392.	2.3	6
45	The Impact of Recovery Practices Adopted by Professional Tennis Players on Fatigue Markers According to Training Type Clusters. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 109.	1.8	6
46	Differences in trunk and thigh muscle strength, endurance and thickness between elite sailors and non-sailors. <i>Sports Biomechanics</i> , 2018, 17, 216-226.	1.6	5
47	Effect of damaging exercise on electromechanical delay. <i>Muscle and Nerve</i> , 2016, 54, 136-141.	2.2	4
48	AW-Net. , 2021, , .		4
49	Effects of a 14-Day High-Intensity Shock Microcycle in High-Level Ice Hockey Players' Fitness. <i>Journal of Strength and Conditioning Research</i> , 2022, 36, 2247-2252.	2.1	4
50	International matches elicit stable mechanical workload in high-level female ice hockey. <i>Biology of Sport</i> , 2022, 39, 857-864.	3.2	4
51	Exercise-Based Injury Prevention in High-Level and Professional Athletes: Narrative Review and Proposed Standard Operating Procedure for Future Lockdown-Like Contexts After COVID-19. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 745765.	1.8	4
52	Influence of fascicle strain and corticospinal excitability during eccentric contractions on force loss. <i>Experimental Physiology</i> , 2019, 104, 1532-1543.	2.0	3
53	Hyperthermia reduces electromechanical delay via accelerated electrochemical processes. <i>Journal of Applied Physiology</i> , 2021, 130, 290-297.	2.5	3
54	Document, create and translate knowledge: the mission of ReFORM, the Francophone IOC Research Centre for Prevention of Injury and Protection of Athlete Health. <i>British Journal of Sports Medicine</i> , 2021, 55, 187-188.	6.7	3

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55	Muscle-tendon unit length changes in knee extensors and flexors during alpine skiing. <i>Sports Biomechanics</i> , 2024, 23, 335-346.	1.6	3
56	Ice Hockey Forward Skating Force-Velocity Profiling Using Single Unloaded vs. Multiple Loaded Methods. <i>Journal of Strength and Conditioning Research</i> , 2022, 36, 3229-3233.	2.1	3
57	Faster early rate of force development in warmer muscle: an in vivo exploration of fascicle dynamics and muscle-tendon mechanical properties. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 323, R123-R132.	1.8	3
58	Effects of a prior short simulated training session on the subsequent occurrence of ventilatory thresholds. <i>Journal of Science and Medicine in Sport</i> , 2009, 12, 273-279.	1.3	2
59	A Methodologic Approach for Normalizing Angular Work and Velocity During Isotonic and Isokinetic Eccentric Training. <i>Journal of Athletic Training</i> , 2012, 47, 125-129.	1.8	2
60	Comparison of two methodological approaches for the mechanical analysis of single-joint isoinertial movement using a customised isokinetic dynamometer. <i>Sports Biomechanics</i> , 2018, 17, 287-302.	1.6	2
61	The slack test does not assess maximal shortening velocity of muscle fascicle in human. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	2
62	Effects of Surface Properties on Gastrocnemius Medialis and Vastus Lateralis Fascicle Mechanics During Maximal Countermovement Jumping. <i>Frontiers in Physiology</i> , 2020, 11, 917.	2.8	2
63	The ballistic hip thrust test: a potential tool to monitor neuromuscular performance. <i>Biology of Sport</i> , 2022, 39, 73-77.	3.2	2
64	On the Road to CamarÃ³n: The Sleep of an Ultra-Endurance Athlete Cycling 10,000 km in 24 Days. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4543.	2.6	2
65	Time-course of performance changes and underlying mechanisms during and after repetitive moderately weight-loaded knee extensions. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 488-494.	1.7	1
66	Truncated Estimation of Skating Force-Velocity Profiling When Using High-Speed Video-Based Methods Compared to Radar-Derived Processing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 661744.	4.1	1
67	Strength capacity of lower-limb muscles in world-class cyclists: new insights into the limits of sprint cycling performance. <i>Sports Biomechanics</i> , 2022, , 1-18.	1.6	1
68	Specific neuromuscular fatigue induced by repetitive isoload concentric knee extension. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 165-166.	1.6	0
69	Muscle coordination in loaded squat jump. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 158-159.	1.6	0
70	Effects Of An 8-week Nordic Hamstring Vs. Isokinetic Eccentric Training Intervention On Biceps Femoris Muscle-tendon Interactions. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 256-256.	0.4	0
71	Chapitre 13. Les applications thermiques locales en mÃ©decine sportive. , 0, , 207-224.		0