Sebastian Bohm

List of Publications by Year
in descending order

52	1,646	236612	301761
papers	citations	25 h-index	39 g-index

58	58	58	1536
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Human tendon adaptation in response to mechanical loading: a systematic review and meta-analysis of exercise intervention studies on healthy adults. Sports Medicine - Open, 2015, 1, 7.	1.3	270
2	Human achilles tendon plasticity in response to cyclic strain: effect of rate and duration. Journal of Experimental Biology, 2014, 217, 4010-7.	0.8	92
3	The forceâ€“lengthâ€“velocity potential of the human soleus muscle is related to the energetic cost of running. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20192560.	1.2	70
4	Operating length and velocity of human vastus lateralis muscle during walking and running. Scientific Reports, 2018, 8, 5066.	1.6	69
5	Predictive and Reactive Locomotor Adaptability in Healthy Elderly: A Systematic Review and Meta-Analysis. Sports Medicine, 2015, 45, 1759-1777.	3.1	64
6	Physiological Adaptations following Resistance Training in Youth Athletesâ€”A Narrative Review. Pediatric Exercise Science, 2016, 28, 501-520.	0.5	60
7	Imbalances in the Development of Muscle and Tendon as Risk Factor for Tendinopathies in Youth Athletes: A Review of Current Evidence and Concepts of Prevention. Frontiers in Physiology, 2017, 8, 987.	1.3	57
8	Asymmetry of <scp>A</scp>chilles tendon mechanical and morphological properties between both legs. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e124-32.	1.3	54
9	Muscle and tendon adaptation in adolescent athletes: AÂlongitudinal study. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 75-82.	1.3	50
10	Operating length and velocity of human M. vastus lateralis fascicles during vertical jumping. Royal Society Open Science, 2017, 4, 170185.	1.1	45
11	Hormonal responses to physical and cognitive stress in a school setting. Neuroscience Letters, 2010, 474, 131-134.	1.0	44
12	Insufficient accuracy of the ultrasound-based determination of Achilles tendon cross-sectional area. Journal of Biomechanics, 2016, 49, 2932-2937.	0.9	44
13	Exercises of dynamic stability under unstable conditions increase muscle strength and balance ability in the elderly. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 961-971.	1.3	43
14	Follow-up efficacy of physical exercise interventions on fall incidence and fall risk in healthy older adults: a systematic review and meta-analysis. Sports Medicine - Open, 2018, 4, 56.	1.3	42
15	Athletic training affects the uniformity of muscle and tendon adaptation during adolescence. Journal of Applied Physiology, 2016, 121, 893-899.	1.2	40
16	Ultrasound does not provide reliable results for the measurement of the patellar tendon cross sectional area. Journal of Electromyography and Kinesiology, 2013, 23, 1278-1282.	0.7	38
17	Evidence of imbalanced adaptation between muscle and tendon in adolescent athletes. Scandinavian Journal of Medicine and Science in Sports, 2014, 24, e283-9.	1.3	37
18	Modular Control of Human Movement During Running: An Open Access Data Set. Frontiers in Physiology, 2018, 9, 1509.	1.3	37

#	Article	IF	Citations
19	Reliability of a semi-automated algorithm for the vastus lateralis muscle architecture measurement based on ultrasound images. European Journal of Applied Physiology, 2018, 118, 291-301.	1.2	36
20	Quantifying mechanical loading and elastic strain energy of the human Achilles tendon during walking and running. Scientific Reports, 2021, 11, 5830.	1.6	36
21	A wide number of trials is required to achieve acceptable reliability for measurement patellar tendon elongation in vivo. Gait and Posture, 2012, 35, 334-338.	0.6	35
22	Young and old adults prioritize dynamic stability control following gait perturbations when performing a concurrent cognitive task. Gait and Posture, 2013, 37, 373-377.	0.6	35
23	Muscle shape consistency and muscle volume prediction of thigh muscles. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e208-13.	1.3	35
24	Muscle and Tendon Adaptation in Adolescence: Elite Volleyball Athletes Compared to Untrained Boys and Girls. Frontiers in Physiology, 2017, 8, 417.	1.3	34
25	Individualized Muscle-Tendon Assessment and Training. Frontiers in Physiology, 2020, 11, 723.	1.3	32
26	Morphological and Mechanical Properties of the Quadriceps Femoris Muscle-Tendon Unit From Adolescence to Adulthood: Effects of Age and Athletic Training. Frontiers in Physiology, 2019, 10, 1082.	1.3	25
27	Enthalpy efficiency of the soleus muscle contributes to improvements in running economy. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202784.	1.2	25
28	Cognitive demand and predictive adaptational responses in dynamic stability control. Journal of Biomechanics, 2012, 45, 2330-2336.	0.9	22
29	Validation of a simplified method for muscle volume assessment. Journal of Biomechanics, 2014, 47, 1348-1352.	0.9	22
30	Muscle-specific economy of force generation and efficiency of work production during human running. ELife, 2021, 10, .	2.8	21
31	Standing on unstable surface challenges postural control of tracking tasks and modulates neuromuscular adjustments specific to task complexity. Scientific Reports, 2021, 11, 6122.	1.6	15
32	Triceps Surae Muscle-Tendon Unit Properties in Preadolescent Children: A Comparison of Artistic Gymnastic Athletes and Non-athletes. Frontiers in Physiology, 2019, 10, 615.	1.3	13
33	A Functional High-Load Exercise Intervention for the Patellar Tendon Reduces Tendon Pain Prevalence During a Competitive Season in Adolescent Handball Players. Frontiers in Physiology, 2021, 12, 626225.	1.3	11
34	Functional adaptation of connective tissue by training. Deutsche Zeitschrift Fur Sportmedizin, 2019, 2019, 105-110.	0.2	11
35	Effects of long-term athletic training on muscle morphology and tendon stiffness in preadolescence: association with jump performance. European Journal of Applied Physiology, 2020, 120, 2715-2727.	1.2	9
36	Exercise of Dynamic Stability in the Presence of Perturbations Elicit Fast Improvements of Simulated Fall Recovery and Strength in Older Adults: A Randomized Controlled Trial. Frontiers in Sports and Active Living, 2020, 2, 52.	0.9	8

#	Article	IF	Citations
37	Modulation of physiological cross-sectional area and fascicle length of vastus lateralis muscle in response to eccentric exercise. Journal of Biomechanics, 2020, 111, 110016.	0.9	7
38	Prevention of strainâ€induced impairments of patellar tendon micromorphology in adolescent athletes. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 1708-1718.	1.3	7
39	Reliable and effective novel home-based training set-up for application of an evidence-based high-loading stimulus to improve triceps surae function. Journal of Sports Sciences, 2021, 39, 2786-2795.	1.0	7
40	Muscle and Tendon Morphology in Early-Adolescent Athletes and Untrained Peers. Frontiers in Physiology, 2020, 11, 1029.	1.3	6
41	Muscle volume reconstruction from several short magnetic resonance imaging sequences. Journal of Biomechanics, 2019, 84, 269-273.	0.9	5
42	Perturbationâ€based exercise for prevention of lowâ€back pain in adolescent athletes. Translational Sports Medicine, 2021, 4, 128-137.	0.5	5
43	Neuromechanics of Dynamic Balance Tasks in the Presence of Perturbations. Frontiers in Human Neuroscience, 2020, 14, 560630.	1.0	5
44	Development of Muscleâ€“Tendon Adaptation in Preadolescent Gymnasts and Untrained Peers: A 12-Month Longitudinal Study. Medicine and Science in Sports and Exercise, 2021, 53, 2565-2576.	0.2	5
45	Effects of Lengthening Velocity During Eccentric Training on Vastus Lateralis Muscle Hypertrophy. Frontiers in Physiology, 2019, 10, 957.	1.3	4
46	Proactive Modulation in the Spatiotemporal Structure of Muscle Synergies Minimizes Reactive Responses in Perturbed Landings. Frontiers in Bioengineering and Biotechnology, 2021, 9, 761766.	2.0	3
47	Soleus H-reflex modulation during balance recovery after forward falling. Muscle and Nerve, 2016, 54, 952-958.	1.0	2
48	Stability recovery performance in adults over a wide age range: A multicentre reliability analysis using different lean-and-release test protocols. Journal of Biomechanics, 2021, 125, 110584.	0.9	2
49	Editorial: Muscle and Tendon Plasticity and Interaction in Physiological and Pathological Conditions. Frontiers in Physiology, 2021, 12, 678801.	1.3	1
50	Vastus lateralis muscle volume prediction in early-adolescent boys. Journal of Biomechanics, 2021, 128, 110735.	0.9	1
51	A Simplified Method for Considering Achilles Tendon Curvature in the Assessment of Tendon Elongation. Sensors, 2021, 21, 7387.	2.1	1
52	AGEING AND PRIORITIZATION OF DYNAMIC STABILITY CONTROL FOLLOWING GAIT PERTURBATIONS. Journal of Biomechanics, 2012, 45, S224.	0.9	0