## Falk Mersmann

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Perturbationâ€based exercise for prevention of lowâ€back pain in adolescent athletes. Translational Sports Medicine, 2021, 4, 128-137.	1.1	5
2	Enthalpy efficiency of the soleus muscle contributes to improvements in running economy. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202784.	2.6	25
3	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.	2.8	11
4	Quantifying mechanical loading and elastic strain energy of the human Achilles tendon during walking and running. Scientific Reports, 2021, 11, 5830.	3.3	36
5	Prevention of strainâ€induced impairments of patellar tendon micromorphology in adolescent athletes. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 1708-1718.	2.9	7
6	Development of Muscle–Tendon Adaptation in Preadolescent Gymnasts and Untrained Peers: A 12-Month Longitudinal Study. Medicine and Science in Sports and Exercise, 2021, 53, 2565-2576.	0.4	5
7	Muscle-specific economy of force generation and efficiency of work production during human running. ELife, 2021, 10, .	6.0	21
8	Vastus lateralis muscle volume prediction in early-adolescent boys. Journal of Biomechanics, 2021, 128, 110735.	2.1	1
9	A Simplified Method for Considering Achilles Tendon Curvature in the Assessment of Tendon Elongation. Sensors, 2021, 21, 7387.	3.8	1
10	Muscle and Tendon Morphology in Early-Adolescent Athletes and Untrained Peers. Frontiers in Physiology, 2020, 11, 1029.	2.8	6
11	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.	2.5	9
12	Individualized Muscle-Tendon Assessment and Training. Frontiers in Physiology, 2020, 11, 723.	2.8	32
13	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.	1.8	8
14	Patellar Tendon Strain Associates to Tendon Structural Abnormalities in Adolescent Athletes. Frontiers in Physiology, 2019, 10, 963.	2.8	19
15	Effects of Lengthening Velocity During Eccentric Training on Vastus Lateralis Muscle Hypertrophy. Frontiers in Physiology, 2019, 10, 957.	2.8	4
16	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.	2.8	25
17	Trunk muscle strength and lumboâ€pelvic kinematics in adolescent athletes: Effects of age and sex. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 1691-1698.	2.9	12
18	Triceps Surae Muscle-Tendon Unit Properties in Preadolescent Children: A Comparison of Artistic Gymnastic Athletes and Non-athletes. Frontiers in Physiology, 2019, 10, 615.	2.8	13

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19	Development of a Non-invasive Methodology for the Assessment of Muscle Fibre Composition. Frontiers in Physiology, 2019, 10, 174.	2.8	3
20	The force–length–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.	2.6	70
21	Simplified Triceps Surae Muscle Volume Assessment in Older Adults. Frontiers in Physiology, 2019, 10, 1299.	2.8	4
22	Functional adaptation of connective tissue by training. Deutsche Zeitschrift Fur Sportmedizin, 2019, 2019, 105-110.	0.5	11
23	Operating length and velocity of human vastus lateralis muscle during walking and running. Scientific Reports, 2018, 8, 5066.	3.3	69
24	Effects of tracking landmarks and tibial point of resistive force application on the assessment of patellar tendon mechanical properties in vivo. Journal of Biomechanics, 2018, 71, 176-182.	2.1	5
25	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.	2.9	43
26	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.	3.1	42
27	Muscle and tendon adaptation in adolescent athletes: AÂlongitudinal study. Scandinavian Journal of Medicine and Science in Sports, 2017, 27, 75-82.	2.9	50
28	Operating length and velocity of human M. vastus lateralis fascicles during vertical jumping. Royal Society Open Science, 2017, 4, 170185.	2.4	45
29	Muscle and Tendon Adaptation in Adolescence: Elite Volleyball Athletes Compared to Untrained Boys and Girls. Frontiers in Physiology, 2017, 8, 417.	2.8	34
30	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.	2.8	57
31	Insufficient accuracy of the ultrasound-based determination of Achilles tendon cross-sectional area. Journal of Biomechanics, 2016, 49, 2932-2937.	2.1	44
32	Athletic training affects the uniformity of muscle and tendon adaptation during adolescence. Journal of Applied Physiology, 2016, 121, 893-899.	2.5	40
33	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.	3.1	270
34	Predictive and Reactive Locomotor Adaptability in Healthy Elderly: A Systematic Review and Meta-Analysis. Sports Medicine, 2015, 45, 1759-1777.	6.5	64
35	Muscle shape consistency and muscle volume prediction of thigh muscles. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, e208-13.	2.9	35
36	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.	2.9	54

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37	Human achilles tendon plasticity in response to cyclic strain: effect of rate and duration. Journal of Experimental Biology, 2014, 217, 4010-7.	1.7	92
38	Validation of a simplified method for muscle volume assessment. Journal of Biomechanics, 2014, 47, 1348-1352.	2.1	22
39	Evidence of imbalanced adaptation between muscle and tendon in adolescent athletes. Scandinavian Journal of Medicine and Science in Sports, 2014, 24, e283-9.	2.9	37
40	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.	1.7	38
41	Young and old adults prioritize dynamic stability control following gait perturbations when performing a concurrent cognitive task. Gait and Posture, 2013, 37, 373-377.	1.4	35
42	Cognitive demand and predictive adaptational responses in dynamic stability control. Journal of Biomechanics, 2012, 45, 2330-2336.	2.1	22
43	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.	1.4	35