

Falk Mersmann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1043619/publications.pdf>

Version: 2024-02-01

43
papers

1,465
citations

304368

22
h-index

329751

37
g-index

47
all docs

47
docs citations

47
times ranked

1328
citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbation-based exercise for prevention of low-back pain in adolescent athletes. <i>Translational Sports Medicine</i> , 2021, 4, 128-137.	0.5	5
2	Enthalpy efficiency of the soleus muscle contributes to improvements in running economy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202784.	1.2	25
3	A Functional High-Load Exercise Intervention for the Patellar Tendon Reduces Tendon Pain Prevalence During a Competitive Season in Adolescent Handball Players. <i>Frontiers in Physiology</i> , 2021, 12, 626225.	1.3	11
4	Quantifying mechanical loading and elastic strain energy of the human Achilles tendon during walking and running. <i>Scientific Reports</i> , 2021, 11, 5830.	1.6	36
5	Prevention of strain-induced impairments of patellar tendon micromorphology in adolescent athletes. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 1708-1718.	1.3	7
6	Development of Muscle-Tendon Adaptation in Preadolescent Gymnasts and Untrained Peers: A 12-Month Longitudinal Study. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 2565-2576.	0.2	5
7	Muscle-specific economy of force generation and efficiency of work production during human running. <i>ELife</i> , 2021, 10, .	2.8	21
8	Vastus lateralis muscle volume prediction in early-adolescent boys. <i>Journal of Biomechanics</i> , 2021, 128, 110735.	0.9	1
9	A Simplified Method for Considering Achilles Tendon Curvature in the Assessment of Tendon Elongation. <i>Sensors</i> , 2021, 21, 7387.	2.1	1
10	Muscle and Tendon Morphology in Early-Adolescent Athletes and Untrained Peers. <i>Frontiers in Physiology</i> , 2020, 11, 1029.	1.3	6
11	Effects of long-term athletic training on muscle morphology and tendon stiffness in preadolescence: association with jump performance. <i>European Journal of Applied Physiology</i> , 2020, 120, 2715-2727.	1.2	9
12	Individualized Muscle-Tendon Assessment and Training. <i>Frontiers in Physiology</i> , 2020, 11, 723.	1.3	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. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 52.	0.9	8
14	Patellar Tendon Strain Associates to Tendon Structural Abnormalities in Adolescent Athletes. <i>Frontiers in Physiology</i> , 2019, 10, 963.	1.3	19
15	Effects of Lengthening Velocity During Eccentric Training on Vastus Lateralis Muscle Hypertrophy. <i>Frontiers in Physiology</i> , 2019, 10, 957.	1.3	4
16	Morphological and Mechanical Properties of the Quadriceps Femoris Muscle-Tendon Unit From Adolescence to Adulthood: Effects of Age and Athletic Training. <i>Frontiers in Physiology</i> , 2019, 10, 1082.	1.3	25
17	Trunk muscle strength and lumbo-pelvic kinematics in adolescent athletes: Effects of age and sex. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1691-1698.	1.3	12
18	Triceps Surae Muscle-Tendon Unit Properties in Preadolescent Children: A Comparison of Artistic Gymnastic Athletes and Non-athletes. <i>Frontiers in Physiology</i> , 2019, 10, 615.	1.3	13

#	ARTICLE	IF	CITATIONS
19	Development of a Non-invasive Methodology for the Assessment of Muscle Fibre Composition. <i>Frontiers in Physiology</i> , 2019, 10, 174.	1.3	3
20	The forceâ€“lengthâ€“velocity potential of the human soleus muscle is related to the energetic cost of running. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20192560.	1.2	70
21	Simplified Triceps Surae Muscle Volume Assessment in Older Adults. <i>Frontiers in Physiology</i> , 2019, 10, 1299.	1.3	4
22	Functional adaptation of connective tissue by training. <i>Deutsche Zeitschrift Fur Sportmedizin</i> , 2019, 2019, 105-110.	0.2	11
23	Operating length and velocity of human vastus lateralis muscle during walking and running. <i>Scientific Reports</i> , 2018, 8, 5066.	1.6	69
24	Effects of tracking landmarks and tibial point of resistive force application on the assessment of patellar tendon mechanical properties in vivo. <i>Journal of Biomechanics</i> , 2018, 71, 176-182.	0.9	5
25	Exercises of dynamic stability under unstable conditions increase muscle strength and balance ability in the elderly. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 961-971.	1.3	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. <i>Sports Medicine - Open</i> , 2018, 4, 56.	1.3	42
27	Muscle and tendon adaptation in adolescent athletes: AÂlongitudinal study. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 75-82.	1.3	50
28	Operating length and velocity of human M. vastus lateralis fascicles during vertical jumping. <i>Royal Society Open Science</i> , 2017, 4, 170185.	1.1	45
29	Muscle and Tendon Adaptation in Adolescence: Elite Volleyball Athletes Compared to Untrained Boys and Girls. <i>Frontiers in Physiology</i> , 2017, 8, 417.	1.3	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. <i>Frontiers in Physiology</i> , 2017, 8, 987.	1.3	57
31	Insufficient accuracy of the ultrasound-based determination of Achilles tendon cross-sectional area. <i>Journal of Biomechanics</i> , 2016, 49, 2932-2937.	0.9	44
32	Athletic training affects the uniformity of muscle and tendon adaptation during adolescence. <i>Journal of Applied Physiology</i> , 2016, 121, 893-899.	1.2	40
33	Human tendon adaptation in response to mechanical loading: a systematic review and meta-analysis of exercise intervention studies on healthy adults. <i>Sports Medicine - Open</i> , 2015, 1, 7.	1.3	270
34	Predictive and Reactive Locomotor Adaptability in Healthy Elderly: A Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , 2015, 45, 1759-1777.	3.1	64
35	Muscle shape consistency and muscle volume prediction of thigh muscles. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, e208-13.	1.3	35
36	Asymmetry of Achilles tendon mechanical and morphological properties between both legs. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, e124-32.	1.3	54

#	ARTICLE	IF	CITATIONS
37	Human achilles tendon plasticity in response to cyclic strain: effect of rate and duration. <i>Journal of Experimental Biology</i> , 2014, 217, 4010-7.	0.8	92
38	Validation of a simplified method for muscle volume assessment. <i>Journal of Biomechanics</i> , 2014, 47, 1348-1352.	0.9	22
39	Evidence of imbalanced adaptation between muscle and tendon in adolescent athletes. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2014, 24, e283-9.	1.3	37
40	Ultrasound does not provide reliable results for the measurement of the patellar tendon cross sectional area. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 1278-1282.	0.7	38
41	Young and old adults prioritize dynamic stability control following gait perturbations when performing a concurrent cognitive task. <i>Gait and Posture</i> , 2013, 37, 373-377.	0.6	35
42	Cognitive demand and predictive adaptational responses in dynamic stability control. <i>Journal of Biomechanics</i> , 2012, 45, 2330-2336.	0.9	22
43	A wide number of trials is required to achieve acceptable reliability for measurement patellar tendon elongation in vivo. <i>Gait and Posture</i> , 2012, 35, 334-338.	0.6	35