Astrid Zech

List of Publications by Year in descending order

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Δετρίο Ζέςμ

#	Article	IF	CITATIONS
1	Neuromuscular Training for Sports Injury Prevention. Medicine and Science in Sports and Exercise, 2010, 42, 413-421.	0.4	273
2	Balance Training for Neuromuscular Control and Performance Enhancement: A Systematic Review. Journal of Athletic Training, 2010, 45, 392-403.	1.8	232
3	Neuromuscular Training for Rehabilitation of Sports Injuries. Medicine and Science in Sports and Exercise, 2009, 41, 1831-1841.	0.4	112
4	C-terminal Agrin Fragment as a potential marker for sarcopenia caused by degeneration of the neuromuscular junction. Experimental Gerontology, 2013, 48, 76-80.	2.8	100
5	Residual effects of muscle strength and muscle power training and detraining on physical function in community-dwelling prefrail older adults: a randomized controlled trial. BMC Geriatrics, 2012, 12, 68.	2.7	87
6	Balance training improves memory and spatial cognition in healthy adults. Scientific Reports, 2017, 7, 5661.	3.3	79
7	Exercise-induced neuroplasticity: Balance training increases cortical thickness in visual and vestibular cortical regions. Neurolmage, 2018, 179, 471-479.	4.2	72
8	Effects of footwear on treadmill running biomechanics in preadolescent children. Gait and Posture, 2014, 40, 381-385.	1.4	65
9	Growing-up (habitually) barefoot influences the development of foot and arch morphology in children and adolescents. Scientific Reports, 2017, 7, 8079.	3.3	61
10	Fatigue-Induced Alterations of Static and Dynamic Postural Control in Athletes With a History of Ankle Sprain. Journal of Athletic Training, 2013, 48, 203-208.	1.8	58
11	Long-Term Effects of Habitual Barefoot Running and Walking. Medicine and Science in Sports and Exercise, 2017, 49, 752-762.	0.4	58
12	Effects of Localized and General Fatigue on Static and Dynamic Postural Control in Male Team Handball Athletes. Journal of Strength and Conditioning Research, 2012, 26, 1162-1168.	2.1	56
13	Effects of Strength Training versus Power Training on Physical Performance in Prefrail Community-Dwelling Older Adults. Gerontology, 2012, 58, 197-204.	2.8	56
14	Comparison of Minimalist Footwear Strategies for Simulating Barefoot Running: A Randomized Crossover Study. PLoS ONE, 2015, 10, e0125880.	2.5	56
15	Effects of fatiguing treadmill running on sensorimotor control in athletes with and without functional ankle instability. Clinical Biomechanics, 2013, 28, 790-795.	1.2	50
16	Dose-Response Relationship of Neuromuscular Training for Injury Prevention in Youth Athletes: A Meta-Analysis. Frontiers in Physiology, 2017, 8, 920.	2.8	50
17	Sex-Specific Differences in Running Injuries: A Systematic Review with Meta-Analysis and Meta-Regression. Sports Medicine, 2021, 51, 1011-1039.	6.5	43
18	Kinesio Taping Improves Perceptions of Pain and Function of Patients With Knee Osteoarthritis: A Randomized, Controlled Trial. Journal of Sport Rehabilitation, 2019, 28, 481-487.	1.0	40

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19	Functional Muscle Power Testing in Young, Middle-Aged, and Community-Dwelling Nonfrail and Prefrail Older Adults. Archives of Physical Medicine and Rehabilitation, 2011, 92, 967-971.	0.9	39
20	The relationship between static and dynamic foot posture and running biomechanics: A systematic review and meta-analysis. Gait and Posture, 2019, 72, 109-122.	1.4	34
21	Gait Stability and Its Influencing Factors in Older Adults. Frontiers in Physiology, 2018, 9, 1955.	2.8	34
22	Foot Strike Patterns Differ Between Children and Adolescents Growing up Barefoot vs. Shod. International Journal of Sports Medicine, 2018, 39, 97-103.	1.7	33
23	Epidemiology of injuries in outdoor and indoor hockey players over one season: a prospective cohort study. British Journal of Sports Medicine, 2018, 52, 1091-1096.	6.7	33
24	Adaptation of Running Biomechanics to Repeated Barefoot Running: A Randomized Controlled Study. American Journal of Sports Medicine, 2019, 47, 1975-1983.	4.2	33
25	Influence of biological maturity on static and dynamic postural control among male youth soccer players. Gait and Posture, 2019, 68, 18-22.	1.4	33
26	The effects of being habitually barefoot on foot mechanics and motor performance in children and adolescents aged 6–18 years: study protocol for a multicenter crossâ€sectional study (Barefoot LIFE) Tj ETQc	10 0109rgBT	/Osværlock 10
27	Sex differences in injury rates in team-sport athletes: A systematic review and meta-regression analysis. Journal of Sport and Health Science, 2022, 11, 104-114.	6.5	32
28	Time course and dimensions of postural control changes following neuromuscular training in youth field hockey athletes. European Journal of Applied Physiology, 2014, 114, 395-403.	2.5	31
29	Exploring phase dependent functional gait variability. Human Movement Science, 2017, 52, 191-196.	1.4	29
30	Prospective monitoring of health problems among recreational runners preparing for a half marathon. BMJ Open Sport and Exercise Medicine, 2018, 4, e000308.	2.9	28
31	Feasibility study of dual-task-managing training to improve gait performance of older adults. Aging Clinical and Experimental Research, 2015, 27, 447-455.	2.9	25
32	Minimalist, standard and no footwear on static and dynamic postural stability following jump landing. European Journal of Sport Science, 2015, 15, 279-285.	2.7	25
33	Effects of ankle instability on running gait ankle angles and its variability in young adults. Clinical Biomechanics, 2016, 33, 73-78.	1.2	24
34	Perceptions of football players regarding injury risk factors and prevention strategies. PLoS ONE, 2017, 12, e0176829.	2.5	24
35	Analysis of running stability during 5000â€m running [*] . European Journal of Sport Science, 2019, 19, 413-421.	2.7	23
36	Epidemiology of injuries during the Wheelchair Basketball World Championships 2018: A prospective cohort study. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 199-207.	2.9	23

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37	Reliability and performance-dependent variations of muscle function variables during isometric knee extension. Journal of Electromyography and Kinesiology, 2008, 18, 262-269.	1.7	22
38	Effects of barefoot and footwear conditions on learning of a dynamic balance task: a randomized controlled study. European Journal of Applied Physiology, 2018, 118, 2699-2706.	2.5	22
39	Reliability and Correlation of Static and Dynamic Foot Arch Measurement in a Healthy Pediatric Population. Journal of the American Podiatric Medical Association, 2017, 107, 419-427.	0.3	20
40	Motor Skills of Children and Adolescents Are Influenced by Growing up Barefoot or Shod. Frontiers in Pediatrics, 2018, 6, 115.	1.9	20
41	Walking barefoot vs. with minimalist footwear – influence on gait in younger and older adults. BMC Geriatrics, 2020, 20, 88.	2.7	20
42	Effects of barefoot vs. shod walking during indoor and outdoor conditions in younger and older adults. Gait and Posture, 2022, 95, 284-291.	1.4	20
43	Time-dependent postural control adaptations following a neuromuscular warm-up in female handball players: a randomized controlled trial. BMC Sports Science, Medicine and Rehabilitation, 2016, 8, 33.	1.7	18
44	Influence of Barefoot, Minimalist, and Standard Footwear Conditions on Gait and Balance in Healthy Older Adults. Journal of the American Geriatrics Society, 2016, 64, 435-437.	2.6	17
45	The Effect of a Cognitive Dual Task on the Control of Minimum Toe Clearance While Walking. Motor Control, 2019, 23, 344-353.	0.6	17
46	Association Between Exercise Therapy Dose and Functional Improvements in the Early Postoperative Phase After Hip and Knee Arthroplasty: An Observational Study. PM and R, 2015, 7, 1064-1072.	1.6	15
47	Balance, gait, and navigation performance are related to physical exercise in blind and visually impaired children and adolescents. Experimental Brain Research, 2021, 239, 1111-1123.	1.5	15
48	Adolescent Running Biomechanics - Implications for Injury Prevention and Rehabilitation. Frontiers in Sports and Active Living, 2021, 3, 689846.	1.8	14
49	Improving Running Economy by Transitioning to Minimalist Footwear: A Randomised Controlled Trial. Journal of Science and Medicine in Sport, 2018, 21, 1298-1303.	1.3	13
50	Agreements and disagreements in exercise therapy prescriptions after hip replacement among rehabilitation professionals: a multicenter survey. BMC Musculoskeletal Disorders, 2015, 16, 185.	1.9	12
51	Improved balance performance accompanied by structural plasticity in blind adults after training. Neuropsychologia, 2019, 129, 318-330.	1.6	11
52	Validity and Reliability of an Inertial Sensor-Based Knee Proprioception Test in Younger vs. Older Adults. Frontiers in Sports and Active Living, 2019, 1, 27.	1.8	11
53	Arch index and running biomechanics in children aged 10–14 years. Gait and Posture, 2018, 61, 210-214.	1.4	10
54	Comparison of 10 vs. 20 min neuromuscular training for the prevention of lower extremity injuries in male youth football: A cluster randomised controlled trial. Journal of Sports Sciences, 2020, 38, 2177-2185.	2.0	10

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55	Effects of a 10 vs. 20-Min Injury Prevention Program on Neuromuscular and Functional Performance in Adolescent Football Players. Frontiers in Physiology, 2020, 11, 578866.	2.8	9
56	The Interval Between Matches Significantly Influences Injury Risk in Field Hockey. International Journal of Sports Medicine, 2022, 43, 262-268.	1.7	9
57	Maximum isometric torque at individually-adjusted joint angles exceeds eccentric and concentric torque in lower extremity joint actions. BMC Sports Science, Medicine and Rehabilitation, 2022, 14, 13.	1.7	9
58	Spinal postural changes during the modified Matthiass test in healthy children. Der Orthopade, 2018, 47, 567-573.	1.6	8
59	Less noise during dual-task walking in healthy young adults: an analysis of different gait variability components. Experimental Brain Research, 2019, 237, 3185-3193.	1.5	8
60	Running barefoot leads to lower running stability compared to shod running - results from a randomized controlled study. Scientific Reports, 2021, 11, 4376.	3.3	8
61	Effects of physical exhaustion on local dynamic stability and automaticity of walking. Gait and Posture, 2018, 66, 135-138.	1.4	7
62	Effects of elastic ankle support on running ankle kinematics in individuals with chronic ankle instability and healthy controls. Gait and Posture, 2021, 87, 149-155.	1.4	7
63	Effects of manipulated auditory information on local dynamic gait stability. Human Movement Science, 2018, 58, 219-223.	1.4	6
64	Does local dynamic stability of kayak paddling technique affect the sports performance? A pilot study. European Journal of Sport Science, 2018, 18, 491-496.	2.7	6
65	Relevance of urban green space for physical activity and health-related quality of life in older adults. Quality in Ageing and Older Adults, 2018, 19, 158-166.	0.8	6
66	Development of functional variability during the motor learning process of a complex cyclic movement. Journal of Biomechanics, 2018, 77, 124-130.	2.1	6
67	Is an Elastic Ankle Support Effective in Improving Jump Landing Performance, and Static and Dynamic Balance in Young Adults With and Without Chronic Ankle Instability?. Journal of Sport Rehabilitation, 2020, 29, 789-794.	1.0	6
68	Game Exposure, Player Characteristics, and Neuromuscular Performance Influence Injury Risk in Professional and Youth Field Hockey Players. Orthopaedic Journal of Sports Medicine, 2021, 9, 232596712199516.	1.7	6
69	The influence of biological maturity on motor performance among habitually barefoot versus habitually shod adolescents. European Journal of Sport Science, 2019, 19, 621-627.	2.7	5
70	Sensomotorisches Training zur PrÄ ¤ ention von Sprunggelenksverletzungen. Deutsche Zeitschrift Fur Sportmedizin, 2012, 2012, 5-8.	0.5	5
71	Longitudinal changes of neuromuscular quadriceps function after reconstruction of the anterior cruciate ligament. Current Orthopaedic Practice, 2009, 20, 276-280.	0.2	4
72	Spinal posture changes using dynamic rasterstereography during the modified Matthiass test discriminate between postural weak and strong healthy children (10–14Âyears): a pilot study. European Journal of Pediatrics, 2018, 177, 1327-1334.	2.7	4

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73	Does one heavy load back squat set lead to postactivation performance enhancement of three-point explosion and sprint in third division American football players?. BMC Sports Science, Medicine and Rehabilitation, 2021, 13, 64.	1.7	4
74	Adaptation of Running Biomechanics to Repeated Barefoot Running: Response. American Journal of Sports Medicine, 2020, 48, NP6-NP7.	4.2	3
75	Chronic and Residual Effects of a Two-Week Foam Rolling Intervention on Ankle Flexibility and Dynamic Balance. Frontiers in Sports and Active Living, 2022, 4, 799985.	1.8	3
76	Compensation of stochastic time-continuous perturbations during walking in healthy young adults: An analysis of the structure of gait variability. Gait and Posture, 2020, 80, 253-259.	1.4	2
77	Clinical Assessment of the Medial Longitudinal Arch in Children: Rater Agreement and Relationship to Objective Foot Arch Measurements. SN Comprehensive Clinical Medicine, 2020, 2, 2763-2770.	0.6	1
78	Response to: Comment on: "Sex-Specific Differences in Running Injuries: A Systematic Review with Meta-Analysis and Meta-Regressionâ€: Sports Medicine, 2021, , 1.	6.5	1
79	Sprunggelenksverletzungen und PrĤentionsstrategien im deutschen Nachwuchsbasketball. Deutsche Zeitschrift Fur Sportmedizin, 2014, 2014, .	0.5	1
80	Neuromuscular Training Following Knee And Ankle Joint Injuries. Medicine and Science in Sports and Exercise, 2009, 41, 14-15.	0.4	0
81	Effects of Kinesio Taping on Pain and Function in Patients with Knee Osteoarthritis. Medicine and Science in Sports and Exercise, 2016, 48, 586.	0.4	0
82	Prospective Injury Surveillance during the Wheelchair Basketball World Championships 2018. Medicine and Science in Sports and Exercise, 2019, 51, 767-767.	0.4	0
83	The Dose-Response Relationship of Neuromuscular Training to Prevent Lower Extremity Injuries in Young Soccer Players. A Cluster Randomised Controlled Trial. Medicine and Science in Sports and Exercise, 2019, 51, 443-444.	0.4	0
84	Transitioning To Minimalist Footwear To Improve Running Economy. Medicine and Science in Sports and Exercise, 2017, 49, 639-640.	0.4	0
85	Ernärung und Bewegung. , 2008, , 183-218.		0