

Petr Stastny

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

1,346
citations

393982

19
h-index

454577

30
g-index

101
all docs

101
docs citations

101
times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
1	Force and velocity of impact during upper limb strikes in combat sports: a systematic review and meta-analysis. <i>Sports Biomechanics</i> , 2023, 22, 921-939.	0.8	13
2	The effect of targeted resistance training on bench press performance and the alternation of prime mover muscle activation patterns. <i>Sports Biomechanics</i> , 2022, 21, 1262-1276.	0.8	10
3	Kinematic Determinants of Front Kick Dynamics Across Different Loading Conditions. <i>Military Medicine</i> , 2022, 187, e147-e153.	0.4	6
4	Speed and power-related gene polymorphisms associated with playing position in elite soccer players. <i>Biology of Sport</i> , 2022, 39, 355-366.	1.7	13
5	Does a linear position transducer placed on a stick and belt provide sufficient validity and reliability of countermovement jump performance outcomes?. <i>Biology of Sport</i> , 2022, 39, 341-348.	1.7	3
6	Current State and Design Recommendations of Exoskeletons of Lower Limbs in Military Applications. <i>Lecture Notes in Computer Science</i> , 2022, , 452-463.	1.0	2
7	Analysis of the Contact Area for Three Types of Upper Limb Strikes. <i>Journal of Functional Morphology and Kinesiology</i> , 2022, 7, 50.	1.1	1
8	The effect of breathing technique on sticking region during maximal bench press. <i>Biology of Sport</i> , 2021, 38, 445-450.	1.7	2
9	Acute impact of blood flow restriction on strength-endurance performance during the bench press exercise. <i>Biology of Sport</i> , 2021, 38, 653-658.	1.7	4
10	Impact of Ischemic Intra-Conditioning on Power Output and Bar Velocity of the Upper Limbs. <i>Frontiers in Physiology</i> , 2021, 12, 626915.	1.3	8
11	School injuries and their prevention from the present perspective. <i>Baltic Journal of Health and Physical Activity</i> , 2021, 13, 45-53.	0.2	1
12	Morning fatigue and structured exercise interact to affect non-exercise physical activity of fit and healthy older adults. <i>BMC Geriatrics</i> , 2021, 21, 179.	1.1	8
13	The effects of different doses of caffeine on maximal strength and strength endurance in women habituated to caffeine. <i>Journal of the International Society of Sports Nutrition</i> , 2021, 18, 25.	1.7	23
14	The Effects of High Mineral Alkaline Water Consumed over Three Consecutive Days on Reaction Time Following Anaerobic Exercise – A Randomized Placebo-Controlled Crossover Pilot Study. <i>Journal of Human Kinetics</i> , 2021, 78, 111-119.	0.7	2
15	The Combined Effect of Neuromuscular Electrical Stimulation and Insulin Therapy on Glycated Hemoglobin Concentrations, Lipid Profiles and Hemodynamic Parameters in Patients with Type-2-Diabetes and Hemiplegia Related to Ischemic Stroke: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3433.	1.2	3
16	Effect of four different forms of high intensity training on BDNF response to Wingate and Graded Exercise Test. <i>Scientific Reports</i> , 2021, 11, 8599.	1.6	14
17	Overspeed Stimulus Provided by Assisted Jumping Encourages Rapid Increases in Strength and Power Performance of Older Adults. <i>Journal of Aging and Physical Activity</i> , 2021, 29, 259-266.	0.5	3
18	Acute Effects of Different Blood Flow Restriction Protocols on Bar Velocity During the Squat Exercise. <i>Frontiers in Physiology</i> , 2021, 12, 652896.	1.3	5

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19	Long-term and actual golf performance and their relation to putting success and accuracy in amateur players. <i>International Journal of Performance Analysis in Sport</i> , 2021, 21, 728-740.	0.5	2
20	Fast Eccentric Movement Tempo Elicits Higher Physiological Responses than Medium Eccentric Tempo in Ice-Hockey Players. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7694.	1.2	6
21	Effect of an Acute Resistance Training Bout and Long-Term Resistance Training Program on Arterial Stiffness: A Systematic Review and Meta-Analysis. <i>Journal of Clinical Medicine</i> , 2021, 10, 3492.	1.0	8
22	Evidence-Based Functional Training to Improve Front Push Kick Technique, Speed, and Net Force Production. <i>Strength and Conditioning Journal</i> , 2021, Publish Ahead of Print, .	0.7	2
23	Holographic Sight Improves the Static Shooting Accuracy and Vertical Sway Precision During High-Intensity Dynamic Action in the Police Task Force. <i>Motor Control</i> , 2021, 25, 541-552.	0.3	0
24	Enhancement of Countermovement Jump Performance Using a Heavy Load with Velocity-Loss Repetition Control in Female Volleyball Players. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 11530.	1.2	14
25	Benefits of physical activity interventions combining self-monitoring with other components versus self-monitoring alone: a systematic review and meta-analysis. <i>Lancet, The</i> , 2021, 398, S87.	6.3	2
26	The slow exercise tempo during conventional squat elicits higher glycolytic and muscle damage but not the endocrine response. <i>Neuroendocrinology Letters</i> , 2021, 41, 301-307.	0.2	3
27	Association of Elite Sports Status with Gene Variants of Peroxisome Proliferator Activated Receptors and Their Transcriptional Coactivator. <i>International Journal of Molecular Sciences</i> , 2020, 21, 162.	1.8	23
28	The Specificity of Motor Learning Tasks Determines the Kind of Skating Skill Development in Older School-Age Children. <i>Sports</i> , 2020, 8, 126.	0.7	5
29	Effect of a Simulated Match on Lower Limb Neuromuscular Performance in Youth Footballers – A Two Year Longitudinal Study. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8579.	1.2	5
30	Acute Effects of Continuous and Intermittent Blood Flow Restriction on Movement Velocity During Bench Press Exercise Against Different Loads. <i>Frontiers in Physiology</i> , 2020, 11, 569915.	1.3	14
31	The Effect of Traditional and Stabilization-Oriented Exercises on Deep Stabilization System Function in Elite Futsal Players. <i>Sports</i> , 2020, 8, 153.	0.7	3
32	A Comparison of Muscle Activity Between the Cambered and Standard Bar During the Bench Press Exercise. <i>Frontiers in Physiology</i> , 2020, 11, 875.	1.3	14
33	Upper Limb Strikes Reactive Forces in Mix Martial Art Athletes during Ground and Pound Tactics. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7782.	1.2	7
34	Isokinetic testing of muscle strength of older individuals with sarcopenia or frailty: A systematic review. <i>Isokinetics and Exercise Science</i> , 2020, , 1-11.	0.2	3
35	The effects of resistance training experience on movement characteristics in the bench press exercise. <i>Biology of Sport</i> , 2020, 37, 79-83.	1.7	21
36	The Effects of Low-Energy Moderate-Carbohydrate (MCD) and Mixed (MixD) Diets on Serum Lipid Profiles and Body Composition in Middle-Aged Men: A Randomized Controlled Parallel-Group Clinical Trial. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1332.	1.2	7

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37	Contrast Tempo of Movement and Its Effect on Power Output and Bar Velocity During Resistance Exercise. <i>Frontiers in Physiology</i> , 2020, 11, 629199.	1.3	8
38	Post-activation Performance Enhancement in the Bench Press Throw: A Systematic Review and Meta-Analysis. <i>Frontiers in Physiology</i> , 2020, 11, 598628.	1.3	32
39	Assisted Jumping in Healthy Older Adults. <i>Journal of Strength and Conditioning Research</i> , 2020, Publish Ahead of Print, .	1.0	6
40	Meta-analyses of the effect of flossing on ankle range of motion and power jump performance. <i>Baltic Journal of Health and Physical Activity</i> , 2020, 12, 19-26.	0.2	2
41	Effect of HIIT with Tabata Protocol on Serum Irisin, Physical Performance, and Body Composition in Men. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3589.	1.2	30
42	Gender and Age Related Differences in Leg Stiffness and Reactive Strength in Adolescent Team Sports Players. <i>Journal of Human Kinetics</i> , 2020, 74, 119-129.	0.7	3
43	The Polymorphisms of the Peroxisome-Proliferator Activated Receptorsâ€™ Alfa Gene Modify the Aerobic Training Induced Changes of Cholesterol and Glucose. <i>Journal of Clinical Medicine</i> , 2019, 8, 1043.	1.0	11
44	Role of Nutrition and Exercise Programs in Reducing Blood Pressure: A Systematic Review. <i>Journal of Clinical Medicine</i> , 2019, 8, 1393.	1.0	18
45	Fundamental Motor Skills Mediate the Relationship Between Physical Fitness and Soccer-Specific Motor Skills in Young Soccer Players. <i>Frontiers in Physiology</i> , 2019, 10, 596.	1.3	21
46	Does maturation influence neuromuscular performance and muscle damage after competitive matchâ€™play in youth male soccer players?. <i>European Journal of Sport Science</i> , 2019, 19, 1130-1139.	1.4	15
47	Differences in motivation during the bench press movement with progressive loads using EEG analysis. <i>Biology of Sport</i> , 2019, 36, 351-356.	1.7	9
48	Systematic review of intra-abdominal and intrathoracic pressures initiated by the Valsalva manoeuvre during high-intensity resistance exercises. <i>Biology of Sport</i> , 2019, 36, 373-386.	1.7	39
49	Effect of COL5A1, GDF5, and PPARA Genes on a Movement Screen and Neuromuscular Performance in Adolescent Team Sport Athletes. <i>Journal of Strength and Conditioning Research</i> , 2019, 33, 2057-2065.	1.0	19
50	The Efficacy and Safety of Lower-Limb Plyometric Training in Older Adults: A Systematic Review. <i>Sports Medicine</i> , 2019, 49, 113-131.	3.1	40
51	Can Anthropometric Variables and Maturation Predict the Playing Position in Youth Basketball Players?. <i>Journal of Human Kinetics</i> , 2019, 69, 109-123.	0.7	6
52	Isokinetic Strength of Rotators, Flexors and Hip Extensors is Strongly Related to Front Kick Dynamics in Military Professionals. <i>Journal of Human Kinetics</i> , 2019, 68, 145-155.	0.7	6
53	The Influence of Womanâ€™s Mastectomy on Breathing Kinematics. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 36-44.	0.5	0
54	Correction to: The Influence of Womanâ€™s Mastectomy on Breathing Kinematics. <i>Advances in Intelligent Systems and Computing</i> , 2019, , E1-E1.	0.5	0

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55	The influence of rest interval on total training load during 10 sets of the bench press exercise performed to concentric failure. <i>Medicina Dello Sport</i> , 2019, 72, .	0.1	4
56	Are and Gene Variants Associated with Anterior Cruciate Ligament Rupture Susceptibility?. <i>Journal of Sports Science and Medicine</i> , 2019, 18, 137-145.	0.7	7
57	Off-Ice Agility Provide Motor Transfer to On-Ice Skating Performance and Agility in Adolescent Ice Hockey Players. <i>Journal of Sports Science and Medicine</i> , 2019, 18, 680-694.	0.7	3
58	Exercise-Based Cardiac Rehabilitation with and without Neuromuscular Electrical Stimulation and its Effect on Exercise Tolerance and Life Quality of Persons with Chronic Heart Failure. <i>Journal of Human Kinetics</i> , 2018, 65, 151-164.	0.7	3
59	Muscle Strength Variations of Knee Joint Muscles in Elite Female Handball Players after Pre-Season Conditioning. <i>Journal of Human Kinetics</i> , 2018, 63, 105-115.	0.7	3
60	Muscular activity patterns of female and male athletes during the flat bench press. <i>Biology of Sport</i> , 2018, 35, 175-179.	1.7	23
61	Field-Based and Lab-Based Assisted Jumping: Unveiling the Testing and Training Implications. <i>Frontiers in Physiology</i> , 2018, 9, 1284.	1.3	9
62	Changes in Injury Risk Mechanisms After Soccer-Specific Fatigue in Male Youth Soccer Players. <i>Journal of Human Kinetics</i> , 2018, 62, 33-42.	0.7	25
63	Does Tempo of Resistance Exercise Impact Training Volume?. <i>Journal of Human Kinetics</i> , 2018, 62, 241-250.	0.7	58
64	The Role of Peroxisome Proliferator-Activated Receptors and Their Transcriptional Coactivators Gene Variations in Human Trainability: A Systematic Review. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1472.	1.8	38
65	Anthropometric Variables and Somatotype of Young and Professional Male Basketball Players. <i>Sports</i> , 2018, 6, 9.	0.7	28
66	A New Approach to EMG Analysis of Closed-Circuit Movements Such as the Flat Bench Press. <i>Sports</i> , 2018, 6, 27.	0.7	22
67	The Role of Visual Feedback on Power Output During Intermittent Wingate Testing in Ice Hockey Players. <i>Sports</i> , 2018, 6, 32.	0.7	14
68	Muscle Imbalances: Testing and Training Functional Eccentric Hamstring Strength in Athletic Populations. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	12
69	Concurrent validity of Myotest for assessing explosive strength indicators in countermovement jump. <i>Acta Gymnica</i> , 2018, 48, 95-102.	1.1	5
70	Muscle activity during the incline shoulder press in relation to the exercise intensity. <i>Acta Gymnica</i> , 2018, 48, 141-146.	1.1	3
71	Physiological responses to different neuromuscular movement task during eccentric bench press. <i>Neuroendocrinology Letters</i> , 2018, 39, 26-32.	0.2	22
72	Endocrine response to high intensity barbell squats performed with constant movement tempo and variable training volume. <i>Neuroendocrinology Letters</i> , 2018, 39, 342-348.	0.2	7

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73	Optimizing Half Squat Postactivation Potential Load in Squat Jump Training for Eliciting Relative Maximal Power in Ski Jumpers. <i>Journal of Strength and Conditioning Research</i> , 2017, 31, 3010-3017.	1.0	33
74	Effects of Pre-exhaustion on the Patterns of Muscular Activity in the Flat Bench Press. <i>Journal of Strength and Conditioning Research</i> , 2017, 31, 1919-1924.	1.0	30
75	Neuromuscular Control During the Bench Press Movement in an Elite Disabled and Able-Bodied Athlete. <i>Journal of Human Kinetics</i> , 2017, 60, 209-215.	0.7	17
76	Performance and Kinematic Differences in Putting Between Healthy and Disabled Elite Golfers. <i>Journal of Human Kinetics</i> , 2017, 60, 233-241.	0.7	3
77	The relative force in squat jump is the best laboratory predictor of sprint performance in adolescent soccer players. <i>Human Movement</i> , 2017, 2017, 83-90.	0.5	6
78	Are genes encoding proteoglycans really associated with the risk of anterior cruciate ligament rupture?. <i>Biology of Sport</i> , 2017, 2, 97-103.	1.7	21
79	Training-induced changes in physical performance can be achieved without body mass reduction after eight week of strength and injury prevention oriented programme in volleyball female players. <i>Biology of Sport</i> , 2017, 2, 205-213.	1.7	23
80	A systematic review of surface electromyography analyses of the bench press movement task. <i>PLoS ONE</i> , 2017, 12, e0171632.	1.1	80
81	Changes in Isokinetic Muscle Strength in Adolescent Soccer Players after 10 Weeks of Pre-Season Training. <i>The Open Sports Sciences Journal</i> , 2017, 10, 27-36.	0.2	8
82	Fundamental motor skills of Czech children at the end of the preschool period. <i>Acta Gymnica</i> , 2017, 47, 193-200.	1.1	7
83	Physical fitness and performance of polish ice-hockey players competing at different sports levels. <i>Journal of Human Kinetics</i> , 2016, 51, 201-208.	0.7	24
84	A systematic review of the main factors that determine agility in sport using structural equation modeling. <i>Journal of Human Kinetics</i> , 2016, 52, 115-123.	0.7	33
85	Optimizing post activation potentiation for explosive activities in competitive sports. <i>Journal of Human Kinetics</i> , 2016, 52, 95-106.	0.7	106
86	Strengthening the Gluteus Medius Using Various Bodyweight and Resistance Exercises. <i>Strength and Conditioning Journal</i> , 2016, 38, 91-101.	0.7	36
87	Effects of Krankcycle Training on Performance and Body Composition in Wheelchair Users. <i>Journal of Human Kinetics</i> , 2015, 48, 71-78.	0.7	0
88	The Gluteus Medius Vs. Thigh Muscles Strength Ratio and Their Relation to Electromyography Amplitude During a Farmer's Walk Exercise. <i>Journal of Human Kinetics</i> , 2015, 45, 157-165.	0.7	10
89	Does the Dumbbell-Carrying Position Change the Muscle Activity in Split Squats and Walking Lunges?. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 3177-3187.	1.0	36
90	Kinetic and Kinematic Differences in a Golf Swing in One and Both Lower Limb Amputees. <i>Journal of Human Kinetics</i> , 2015, 48, 33-41.	0.7	8

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91	Hip abductors and thigh muscles strength ratios and their relation to electromyography amplitude during split squat and walking lunge exercises. <i>Acta Gymnica</i> , 2015, 45, 51-59.	1.1	12
92	Gluteus medius and thigh muscles electromyography during load carrying walking. <i>Acta Universitatis Carolinae: Kineanthropologica</i> , 2015, 51, 51-64.	0.3	0
93	PPARA Intron Polymorphism Associated with Power Performance in 30-s Anaerobic Wingate Test. <i>PLoS ONE</i> , 2014, 9, e107171.	1.1	24
94	Knee joint muscles neuromuscular activity during load-carrying walking. <i>Neuroendocrinology Letters</i> , 2014, 35, 633-9.	0.2	6
95	Training with a Heavy Puck Elicits a Higher Increase of Shooting Speed Than Unloaded Training in Midget Ice Hockey Players. <i>Journal of Human Kinetics</i> , 0, 82, 191-200.	0.7	1