

Nick Caplan

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,056
citations

471509

17
h-index

454955

30
g-index

60
all docs

60
docs citations

60
times ranked

1357
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-operative gait analysis in total hip replacement patientsâ€”A review of current literature and meta-analysis. <i>Gait and Posture</i> , 2012, 36, 1-6.	1.4	139
2	Human balancing of an inverted pendulum with a compliant linkage: neural control by anticipatory intermittent bias. <i>Journal of Physiology</i> , 2003, 551, 357-370.	2.9	105
3	Combined pubic rami and sacral osteoporotic fractures: a prospective study. <i>Journal of Orthopaedics and Traumatology</i> , 2012, 13, 97-103.	2.3	54
4	The relationship between quadriceps angle and tibial tuberosityâ€”trochlear groove distance in patients with patellar instability. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 2399-2404.	4.2	49
5	The theoretical mortality risk of an asymptomatic patient with a negative SARS-CoV-2 test developing COVID-19 following elective orthopaedic surgery. <i>Bone and Joint Journal</i> , 2020, 102-B, 1256-1260.	4.4	45
6	Effect of Time on Human Muscle Outcomes During Simulated Microgravity Exposure Without Countermeasuresâ€”Systematic Review. <i>Frontiers in Physiology</i> , 2019, 10, 1046.	2.8	42
7	Is tibial tuberosityâ€”trochlear groove distance an appropriate measure for the identification of knees with patellar instability?. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 2377-2381.	4.2	41
8	A fluid dynamic investigation of the Big Blade and Macon oar blade designs in rowing propulsion. <i>Journal of Sports Sciences</i> , 2007, 25, 643-650.	2.0	38
9	A comparison of exercise interventions from bed rest studies for the prevention of musculoskeletal loss. <i>Npj Microgravity</i> , 2019, 5, 12.	3.7	34
10	An evaluation of the effectiveness of medial patellofemoral ligament reconstruction using an anatomical tunnel site. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3206-3212.	4.2	32
11	Movements of older adults during exergaming interventions that are associated with the Systems Framework for Postural Control: A systematic review. <i>Maturitas</i> , 2018, 111, 90-99.	2.4	29
12	Systematic review of countermeasures to minimise physiological changes and risk of injury to the lumbopelvic area following long-term microgravity. <i>Musculoskeletal Science and Practice</i> , 2017, 27, S5-S14.	1.3	26
13	The photographic knee pain map: Locating knee pain with an instrument developed for diagnostic, communication and research purposes. <i>Knee</i> , 2011, 18, 417-423.	1.6	24
14	Low impact weight-bearing exercise in an upright posture increases the activation of two key local muscles of the lumbo-pelvic region. <i>Physiotherapy Theory and Practice</i> , 2013, 29, 51-60.	1.3	22
15	Male body movements as possible cues to physical strength: A biomechanical analysis. <i>American Journal of Human Biology</i> , 2013, 25, 307-312.	1.6	21
16	Optimization of oar blade design for improved performance in rowing. <i>Journal of Sports Sciences</i> , 2007, 25, 1471-1478.	2.0	20
17	A systematic review and meta-analysis of outcome measures to assess postural control in older adults who undertake exergaming. <i>Maturitas</i> , 2017, 98, 35-45.	2.4	20
18	The number of strides required for treadmill running gait analysis is unaffected by either speed or run duration. <i>Journal of Biomechanics</i> , 2019, 97, 109366.	2.1	20

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19	Gait analysis of fixed bearing and mobile bearing total knee prostheses during walking: Do mobile bearings offer functional advantages?. <i>Knee</i> , 2014, 21, 391-395.	1.6	19
20	Phasic-to-tonic shift in trunk muscle activity relative to walking during low-impact weight bearing exercise. <i>Acta Astronautica</i> , 2014, 104, 388-395.	3.2	14
21	Optimal asymmetry and other motion parameters that characterise high-quality female dance. <i>Scientific Reports</i> , 2017, 7, 42435.	3.3	14
22	Systematic review of the technical and physiological constraints of the Orion Multi-Purpose Crew Vehicle that affect the capability of astronauts to exercise effectively during spaceflight. <i>Acta Astronautica</i> , 2020, 170, 665-677.	3.2	14
23	Post Space Mission Lumbo-Pelvic Neuromuscular Reconditioning: A European Perspective. <i>Aviation, Space, and Environmental Medicine</i> , 2014, 85, 764-765.	0.5	13
24	Reliability and Precision of Sonography of the Lumbar Multifidus and Transversus Abdominis During Dynamic Activities. <i>Journal of Ultrasound in Medicine</i> , 2017, 36, 571-581.	1.7	13
25	Fatigue Induced Changes in Muscle Strength and Gait Following Two Different Intensity, Energy Expenditure Matched Runs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 360.	4.1	13
26	Lumbar muscle atrophy and increased relative intramuscular lipid concentration are not mitigated by daily artificial gravity after 60-day head-down tilt bed rest. <i>Journal of Applied Physiology</i> , 2021, 131, 356-368.	2.5	13
27	Intermittent short-arm centrifugation is a partially effective countermeasure against upright balance deterioration following 60-day head-down tilt bed rest. <i>Journal of Applied Physiology</i> , 2021, 131, 689-701.	2.5	13
28	Effects of 1 Week of Unilateral Ankle Immobilization on Plantar-Flexor Strength, Balance, and Walking Speed: A Pilot Study in Asymptomatic Volunteers. <i>Journal of Sport Rehabilitation</i> , 2015, 24, 156-162.	1.0	12
29	Trunk muscle activation during movement with a new exercise device for lumbo-pelvic reconditioning. <i>Physiological Reports</i> , 2017, 5, e13188.	1.7	12
30	Retrospective cohort study of the South Tyneside Exercise Referral Scheme 2009-14: predictors of dropout and barriers to adherence. <i>Journal of Public Health</i> , 2017, 39, e257-e264.	1.8	11
31	Why Do Patellofemoral Stabilization Procedures Fail? Keys to Success. <i>Sports Medicine and Arthroscopy Review</i> , 2017, 25, e1-e7.	2.3	10
32	Hypogravity reduces trunk admittance and lumbar muscle activation in response to external perturbations. <i>Journal of Applied Physiology</i> , 2020, 128, 1044-1055.	2.5	10
33	Effectiveness of nutritional countermeasures in microgravity and its ground-based analogues to ameliorate musculoskeletal and cardiopulmonary deconditioning: A Systematic Review. <i>PLoS ONE</i> , 2020, 15, e0234412.	2.5	10
34	Low impact weight-bearing exercise in an upright posture achieves greater lumbopelvic stability than overground walking. <i>Journal of Bodywork and Movement Therapies</i> , 2013, 17, 462-468.	1.2	9
35	The effect of total hip and hip resurfacing arthroplasty on vertical ground reaction force and impulse symmetry during a sit-to-stand task. <i>Clinical Biomechanics</i> , 2014, 29, 1164-1169.	1.2	9
36	The immediate effects of exercise using the Functional Re-adaptive Exercise Device on lumbopelvic kinematics in people with and without low back pain. <i>Musculoskeletal Science and Practice</i> , 2017, 27, S47-S53.	1.3	9

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37	Associations between community-based physiotherapy for musculoskeletal injury and health related quality of life (EQ-5D): a multi-centre retrospective analysis. <i>Health and Quality of Life Outcomes</i> , 2017, 15, 212.	2.4	9
38	Developing, Implementing, and Applying Novel Techniques During Systematic Reviews of Primary Space Medicine Data. <i>Aerospace Medicine and Human Performance</i> , 2021, 92, 681-688.	0.4	8
39	Gluteal Muscle Atrophy and Increased Intramuscular Lipid Concentration Are Not Mitigated by Daily Artificial Gravity Following 60-Day Head-Down Tilt Bed Rest. <i>Frontiers in Physiology</i> , 2021, 12, 745811.	2.8	8
40	A novel approach to activate deep spinal muscles in space—Results of a biomechanical model. <i>Acta Astronautica</i> , 2015, 116, 202-210.	3.2	7
41	Movement amplitude on the Functional Re-adaptive Exercise Device: deep spinal muscle activity and movement control. <i>European Journal of Applied Physiology</i> , 2017, 117, 1597-1606.	2.5	7
42	Changes in health-related quality of life (EQ-5D) dimensions associated with community-based musculoskeletal physiotherapy: a multi-centre analysis. <i>Quality of Life Research</i> , 2018, 27, 2373-2382.	3.1	7
43	The Potential of Fasting and Caloric Restriction to Mitigate Radiation Damage—A Systematic Review. <i>Frontiers in Nutrition</i> , 2020, 7, 584543.	3.7	6
44	Intramuscular lipid concentration increased in localized regions of the lumbar muscles following 60 day bedrest. <i>Spine Journal</i> , 2022, 22, 616-628.	1.3	6
45	Effectiveness of exercise countermeasures for the prevention of musculoskeletal deconditioning in simulated hypogravity: A systematic review. <i>Acta Astronautica</i> , 2021, 185, 236-243.	3.2	4
46	Move Well: Design Deficits in Postural Based Exergames. What are We Missing?. , 2018, , .		3
47	Effects of a six-week exercise intervention on function, pain and lumbar multifidus muscle cross-sectional area in chronic low back pain: A proof-of-concept study. <i>Musculoskeletal Science and Practice</i> , 2020, 49, 102190.	1.3	3
48	VALIDATION OF AN ELECTROGONIOMETRY SYSTEM AS A MEASURE OF KNEE KINEMATICS DURING ACTIVITIES OF DAILY LIVING. <i>Journal of Musculoskeletal Research</i> , 2013, 16, 1350005.	0.2	2
49	Functional behaviour of spinal muscles after training with an exercise device developed to recruit and train postural muscles. <i>Gait and Posture</i> , 2018, 66, 189-193.	1.4	2
50	Patellofemoral Joint Instability: Where Are We in 2018?. , 2018, , 153-170.		1
51	Countermeasure Development for Lumbopelvic Deconditioning in Space. , 2018, , .		1
52	Cell-based therapies for the treatment of sports injuries of the upper limb. <i>Expert Opinion on Biological Therapy</i> , 2021, 21, 1561-1574.	3.1	1
53	Gait and Neuromuscular Changes Are Evident in Some Masters Club Level Runners 24-h After Interval Training Run. <i>Frontiers in Sports and Active Living</i> , 0, 4, .	1.8	1
54	The Effects of Reconditioning Exercises Following Prolonged Bed Rest on Lumbopelvic Muscle Volume and Accumulation of Paraspinal Muscle Fat. <i>Frontiers in Physiology</i> , 0, 13, .	2.8	1

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55	The effect of a series of strength training sessions on 2000 m rowing ergometer performance and muscle function. <i>British Journal of Sports Medicine</i> , 2011, 45, A14-A14.	6.7	0
56	Effect of time on biomechanics during exercise on the functional re-adaptive exercise device. <i>Journal of Sports Sciences</i> , 2019, 37, 2138-2143.	2.0	0
57	Title is missing!. , 2020, 15, e0234412.		0
58	Title is missing!. , 2020, 15, e0234412.		0
59	Title is missing!. , 2020, 15, e0234412.		0
60	Title is missing!. , 2020, 15, e0234412.		0