

# 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  | 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         |
| 2  | 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         |
| 3  | 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        |
| 4  | 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         |
| 5  | 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         |
| 6  | 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        |
| 7  | 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         |
| 8  | 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         |
| 9  | 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        |
| 10 | 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         |
| 11 | 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        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | Title is missing!. , 2020, 15, e0234412.   |     | 0         |
| 16 | Title is missing!. , 2020, 15, e0234412.   |     | 0         |
| 17 | Title is missing!. , 2020, 15, e0234412.   |     | 0         |
| 18 | Title is missing!. , 2020, 15, e0234412.   |     | 0         |

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|----|---|-----|-----------|
| 19 | Effect of Time on Human Muscle Outcomes During Simulated Microgravity Exposure Without Countermeasures – Systematic Review. <i>Frontiers in Physiology</i> , 2019, 10, 1046.  | 2.8 | 42        |
| 20 | 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        |
| 21 | 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         |
| 22 | 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        |
| 23 | Patellofemoral Joint Instability: Where Are We in 2018?. , 2018, , 153-170.   |     | 1         |
| 24 | 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        |
| 25 | Move Well: Design Deficits in Postural Based Exergames. <i>What are We Missing?</i> , 2018, ,   |     | 3         |
| 26 | Countermeasure Development for Lumbopelvic Deconditioning in Space. , 2018, ,   |     | 1         |
| 27 | 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         |
| 28 | 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         |
| 29 | 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        |
| 30 | 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        |
| 31 | 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        |
| 32 | 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         |
| 33 | Optimal asymmetry and other motion parameters that characterise high-quality female dance. <i>Scientific Reports</i> , 2017, 7, 42435.  | 3.3 | 14        |
| 34 | 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        |
| 35 | Why Do Patellofemoral Stabilization Procedures Fail? Keys to Success. <i>Sports Medicine and Arthroscopy Review</i> , 2017, 25, e1-e7.  | 2.3 | 10        |
| 36 | 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         |

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|----|--|-----|-----------|
| 37 | Trunk muscle activation during movement with a new exercise device for lumbo-pelvic reconditioning. <i>Physiological Reports</i> , 2017, 5, e13188.  | 1.7 | 12        |
| 38 | 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        |
| 39 | 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         |
| 40 | 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        |
| 41 | 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         |
| 42 | 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         |
| 43 | Is tibial tuberosity-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        |
| 44 | 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        |
| 45 | 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        |
| 46 | Post Space Mission Lumbo-Pelvic Neuromuscular Reconditioning: A European Perspective. <i>Aviation, Space, and Environmental Medicine</i> , 2014, 85, 764-765.  | 0.5 | 13        |
| 47 | 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         |
| 48 | 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        |
| 49 | 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        |
| 50 | 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         |
| 51 | The relationship between quadriceps angle and tibial tuberosity-trochlear groove distance in patients with patellar instability. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 2399-2404.                | 4.2 | 49        |
| 52 | Post-operative gait analysis in total hip replacement patients—A review of current literature and meta-analysis. <i>Gait and Posture</i> , 2012, 36, 1-6.  | 1.4 | 139       |
| 53 | Combined pubic rami and sacral osteoporotic fractures: a prospective study. <i>Journal of Orthopaedics and Traumatology</i> , 2012, 13, 97-103.  | 2.3 | 54        |
| 54 | 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        |

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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 | 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        |
| 57 | Optimization of oar blade design for improved performance in rowing. <i>Journal of Sports Sciences</i> , 2007, 25, 1471-1478.  | 2.0 | 20        |
| 58 | 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       |
| 59 | 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         |
| 60 | 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         |