# Nicholas A T Brown

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8496595/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 71 papers | 2,743 citations | 201385 27 h-index | 189595 50 g-index |
| 73 all docs | 73 docs citations | 73 times ranked | 2413 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Lower-limb muscle function is influenced by changing mechanical demands in cycling. Journal of Experimental Biology, 2021, 224, . | 0.8 | 3 |
| 2 | The influence of upper-body mechanics, anthropometry and isokinetic strength on performance in wrist-spin cricket bowling. Journal of Sports Sciences, 2020, 38, 280-287. | 1.0 | 4 |
| 3 | Longerâ€term effects of minimalist shoes on running performance, strength and bone density: A 20â€week followâ€up study<sup>*</sup>. European Journal of Sport Science, 2019, 19, 402-412. | 1.4 | 19 |
| 4 | A wind-tunnel case study: Increasing road cycling velocity by adopting an aerodynamically improved sprint position. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, , 175433711986696. | 0.4 | 2 |
| 5 | A numerical model for the time-dependent wake of a pedalling cyclist. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, 233, 514-525. | 0.4 | 4 |
| 6 | Lower-limb joint mechanics during maximum acceleration sprinting. Journal of Experimental Biology, 2019, 222, . | 0.8 | 18 |
| 7 | Late swing running mechanics influence hamstring injury susceptibility in elite rugby athletes: A prospective exploratory analysis. Journal of Biomechanics, 2019, 92, 112-119. | 0.9 | 23 |
| 8 | Late swing or early stance? A narrative review of hamstring injury mechanisms during highâ€speed running. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 1083-1091. | 1.3 | 68 |
| 9 | Illegal bowling actions contribute to performance in cricket fingerâ€spin bowlers. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 1691-1699. | 1.3 | 4 |
| 10 | Does performance level affect initial ball flight kinematics in finger and wrist-spin cricket bowlers?. Journal of Sports Sciences, 2018, 36, 651-659. | 1.0 | 12 |
| 11 | Body Mass and Weekly Training Distance Influence the Pain and Injuries Experienced by Runners Using Minimalist Shoes: A Randomized Controlled Trial. American Journal of Sports Medicine, 2017, 45, 1162-1170. | 1.9 | 36 |
| 12 | Six-week transition to minimalist shoes improves running economy and time-trial performance. Journal of Science and Medicine in Sport, 2017, 20, 1117-1122. | 0.6 | 17 |
| 13 | The effect of leg dominance and landing height on ACL loading among female athletes. Journal of Biomechanics, 2017, 60, 181-187. | 0.9 | 31 |
| 14 | A Comparison of the Wake Structures of Scale and Full-scale Pedalling Cycling Models. Procedia Engineering, 2016, 147, 13-19. | 1.2 | 7 |
| 15 | Human ankle plantar flexor muscleâ€“tendon mechanics and energetics during maximum acceleration sprinting. Journal of the Royal Society Interface, 2016, 13, 20160391. | 1.5 | 36 |
| 16 | An Analysis of the Wake of Pedalling Cyclists in a Tandem Formation. Procedia Engineering, 2016, 147, 7-12. | 1.2 | 3 |
| 17 | Flow field interactions between two tandem cyclists. Experiments in Fluids, 2016, 57, 1. | 1.1 | 20 |
| 18 | Redistribution of Mechanical Work at the Knee and Ankle Joints During Fast Running in Minimalist Shoes. Journal of Athletic Training, 2016, 51, 806-812. | 0.9 | 17 |

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|---|---|---|---|
| 19 | Deconstructing the power resistance relationship for squats: A jointâ€level analysis. Scandinavian Journal of Medicine and Science in Sports, 2016, 26, 774-781. | 1.3 | 24 |
| 20 | Dynamic leg-motion and its effect on the aerodynamic performance of cyclists. Journal of Fluids and Structures, 2016, 65, 121-137. | 1.5 | 46 |
| 21 | Effects of a minimalist shoe on running economy and 5-km running performance. Journal of Sports Sciences, 2016, 34, 1740-1745. | 1.0 | 34 |
| 22 | The long-term effect of minimalist shoes on running performance and injury: design of a randomised controlled trial. BMJ Open, 2015, 5, e008307. | 0.8 | 13 |
| 23 | The role of human ankle plantar flexor muscle-tendon interaction & architecture in maximal vertical jumping examinedin vivo. Journal of Experimental Biology, 2015, 219, 528-34. | 0.8 | 59 |
| 24 | Aerodynamic performance and riding posture in road cycling and triathlon. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2015, 229, 28-38. | 0.4 | 26 |
| 25 | Variations in jump height explain the betweenâ€sex difference in patellar tendon loading during landing. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, 265-272. | 1.3 | 12 |
| 26 | In vivo behavior of the human soleus muscle with increasing walking and running speeds. Journal of Applied Physiology, 2015, 118, 1266-1275. | 1.2 | 147 |
| 27 | Aerodynamic drag interactions between cyclists in a team pursuit. Sports Engineering, 2015, 18, 93-103. | 0.5 | 53 |
| 28 | Previously identified patellar tendinopathy risk factors differ between elite and subâ€elite volleyball players. Scandinavian Journal of Medicine and Science in Sports, 2015, 25, 308-314. | 1.3 | 12 |
| 29 | Modulation of work and power by the human lower-limb joints with increasing steady-state locomotion speed. Journal of Experimental Biology, 2015, 218, 2472-81. | 0.8 | 66 |
| 30 | Computational Fluid Dynamics Study of the Effect of Leg Position on Cyclist Aerodynamic Drag. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, . | 0.8 | 39 |
| 31 | Sex Differences in Neuromuscular Recruitment Are Not Related to Patellar Tendon Load. Medicine and Science in Sports and Exercise, 2014, 46, 1410-1416. | 0.2 | 11 |
| 32 | The Effect of Spatial Position on the Aerodynamic Interactions between Cyclists. Procedia Engineering, 2014, 72, 774-779. | 1.2 | 23 |
| 33 | Lower-Limb Muscular Strategies for Increasing Running Speed. Journal of Orthopaedic and Sports Physical Therapy, 2014, 44, 813-824. | 1.7 | 96 |
| 34 | Changes in muscle coordination and power output during sprint cycling. Neuroscience Letters, 2014, 576, 11-16. | 1.0 | 23 |
| 35 | Joint-Specific Power-Pedaling Rate Relationships During Maximal Cycling. Journal of Applied Biomechanics, 2014, 30, 423-430. | 0.3 | 36 |
| 36 | Flow topology in the wake of a cyclist and its effect on aerodynamic drag. Journal of Fluid Mechanics, 2014, 748, 5-35. | 1.4 | 68 |

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|---|---|---|---|
| 37 | Stretch and activation of the human biarticular hamstrings across a range of running speeds. European Journal of Applied Physiology, 2013, 113, 2813-2828. | 1.2 | 52 |
| 38 | Predicting the Patellar Tendon Force Generated When Landing from a Jump. Medicine and Science in Sports and Exercise, 2013, 45, 927-934. | 0.2 | 39 |
| 39 | Mechanics of the Human Hamstring Muscles during Sprinting. Medicine and Science in Sports and Exercise, 2012, 44, 647-658. | 0.2 | 244 |
| 40 | Initial Ball Flight Characteristics of Curve and Instep Kicks in Elite Womenâ€™s Football. Journal of Applied Biomechanics, 2012, 28, 70-77. | 0.3 | 8 |
| 41 | A quasi-static investigation of the effect of leg position on cyclist aerodynamic drag. Procedia Engineering, 2012, 34, 3-8. | 1.2 | 7 |
| 42 | Curve and instep kick kinematics in elite female footballers. Journal of Sports Sciences, 2012, 30, 387-394. | 1.0 | 22 |
| 43 | Dominant Flow Structures In The Wake of A Cyclist. , 2012, , . | | 4 |
| 44 | Effect of Running Speed on Lower Limb Joint Kinetics. Medicine and Science in Sports and Exercise, 2011, 43, 1260-1271. | 0.2 | 261 |
| 45 | The Influence of Modeling Separate Neuromuscular Compartments on the Force and Moment Generating Capacities of Muscles of the Feline Hindlimb. Journal of Biomechanical Engineering, 2010, 132, 081003. | 0.6 | 7 |
| 46 | Acetabular Cartilage Thickness: Accuracy of Three-Dimensional Reconstructions from Multidetector CT Arthrograms in a Cadaver Study. Radiology, 2010, 255, 544-552. | 3.6 | 37 |
| 47 | Mechanical loading of the distal end of the third metacarpal bone in horses during walking and trotting. American Journal of Veterinary Research, 2010, 71, 508-514. | 0.3 | 21 |
| 48 | Determination of football pitch locations from video footage and official pitch markings. Sports Biomechanics, 2009, 8, 129-140. | 0.8 | 7 |
| 49 | Autologous Bone Effects on Femoral Tunnel Widening in Hamstring Anterior Cruciate Ligament Reconstruction. Journal of Knee Surgery, 2009, 22, 114-119. | 0.9 | 13 |
| 50 | A Prospective Randomized Clinical Trial Comparing Arthroscopic Single-and Double-Row Rotator Cuff Repair. American Journal of Sports Medicine, 2009, 37, 674-682. | 1.9 | 251 |
| 51 | Selective and Graded Recruitment of Cat Hamstring Muscles With Intrafascicular Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 545-552. | 2.7 | 17 |
| 52 | Automated Stimulus-Response Mapping of High-Electrode-Count Neural Implants. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 504-511. | 2.7 | 15 |
| 53 | Joint-specific power production and fatigue during maximal cycling. Journal of Biomechanics, 2009, 42, 474-479. | 0.9 | 101 |
| 54 | A cadaver knee simulator to evaluate the biomechanics of rectus femoris transfer. Gait and Posture, 2009, 30, 87-92. | 0.6 | 6 |

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|---|---|---|---|
| 55 | Validation of a Genu Valgum Model in a Rabbit Hind Limb. Journal of Pediatric Orthopaedics, 2008, 28, 375-380. | 0.6 | 11 |
| 56 | Influence of Tendon Transfer Site on Moment Arms of the Flexor Digitorum Longus Muscle. Foot and Ankle International, 2007, 28, 441-447. | 1.1 | 20 |
| 57 | Patellofemoral Contact Pressures and Lateral Patellar Translation after Medial Patellofemoral Ligament Reconstruction. American Journal of Sports Medicine, 2007, 35, 1557-1563. | 1.9 | 148 |
| 58 | A Low-Cost Instrumented Spatial Linkage Accurately Determines ASIS Position during Cycle Ergometry. Journal of Applied Biomechanics, 2007, 23, 224-229. | 0.3 | 16 |
| 59 | Torsional stability of intramedullary compression nails: Tibial osteotomy model. Clinical Biomechanics, 2007, 22, 449-456. | 0.5 | 11 |
| 60 | Evaluation of a new fenestrated needle for ultrasound-guided fascia iliaca block. Journal of Clinical Anesthesia, 2007, 19, 175-179. | 0.7 | 8 |
| 61 | Biarticular hip extensor and knee flexor muscle moment arms of the feline hindlimb. Journal of Biomechanics, 2007, 40, 3448-3457. | 0.9 | 16 |
| 62 | The Role of Segmental Mass and Moment of Inertia in Dynamic-Contact Task Construction. Journal of Motor Behavior, 2006, 38, 313-326. | 0.5 | 6 |
| 63 | Both-Bone Forearm Osteotomy for Supination Contracture: A Cadaver Model. Journal of Hand Surgery, 2006, 31, 968-972. | 0.7 | 13 |
| 64 | Static Versus Dynamic Loading in the Mechanical Modulation of Vertebral Growth. Spine, 2006, 31, E952-E958. | 1.0 | 39 |
| 65 | An Emerging Postural Response: Is Control of the Hip Possible in the Newly Walking Child?. Journal of Motor Behavior, 2004, 36, 147-159. | 0.5 | 9 |
| 66 | Architectural properties of distal forelimb muscles in horses,Equus caballus. Journal of Morphology, 2003, 258, 106-114. | 0.6 | 52 |
| 67 | The development of contact force construction in the dynamic-contact task of cycling. Journal of Biomechanics, 2003, 36, 1-8. | 0.9 | 16 |
| 68 | Force- and moment-generating capacities of muscles in the distal forelimb of the horse. Journal of Anatomy, 2003, 203, 101-113. | 0.9 | 52 |
| 69 | Moment arms about the carpal and metacarpophalangeal joints for flexor and extensor muscles in equine forelimbs. American Journal of Veterinary Research, 2003, 64, 351-357. | 0.3 | 47 |
| 70 | Pedal trajectory alters maximal single-leg cycling power. Medicine and Science in Sports and Exercise, 2002, 34, 1332-1336. | 0.2 | 21 |
| 71 | A governing relationship for repetitive muscular contraction. Journal of Biomechanics, 2000, 33, 969-974. | 0.9 | 34 |