

Boyi Dai

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,223
citations

361045

20
h-index

433756

31
g-index

71
all docs

71
docs citations

71
times ranked

1080
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Prevention of ACL Injury, Part I: Injury Characteristics, Risk Factors, and Loading Mechanism. <i>Research in Sports Medicine</i> , 2012, 20, 180-197. | 0.7 | 76 |
| 2 | Anterior cruciate ligament injuries in soccer: Loading mechanisms, risk factors, and prevention programs. <i>Journal of Sport and Health Science</i> , 2014, 3, 299-306. | 3.3 | 72 |
| 3 | The Effects of 2 Landing Techniques on Knee Kinematics, Kinetics, and Performance During Stop-Jump and Side-Cutting Tasks. <i>American Journal of Sports Medicine</i> , 2015, 43, 466-474. | 1.9 | 68 |
| 4 | Using ground reaction force to predict knee kinetic asymmetry following anterior cruciate ligament reconstruction. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2014, 24, 974-981. | 1.3 | 63 |
| 5 | Anterior Cruciate Ligament Reconstruction in Adolescent Patients. <i>American Journal of Sports Medicine</i> , 2012, 40, 2756-2763. | 1.9 | 46 |
| 6 | Exploratory factor analysis of the functional movement screen in elite athletes. <i>Journal of Sports Sciences</i> , 2015, 33, 1166-1172. | 1.0 | 45 |
| 7 | Differences and correlations in knee and hip mechanics during single-leg landing, single-leg squat, double-leg landing, and double-leg squat tasks. <i>Research in Sports Medicine</i> , 2015, 23, 394-411. | 0.7 | 44 |
| 8 | The assessment of material handling strategies in dealing with sudden loading: The effects of load handling position on trunk biomechanics. <i>Applied Ergonomics</i> , 2014, 45, 1399-1405. | 1.7 | 43 |
| 9 | The effect of a secondary cognitive task on landing mechanics and jump performance. <i>Sports Biomechanics</i> , 2018, 17, 192-205. | 0.8 | 42 |
| 10 | Prevention of ACL Injury, Part II: Effects of ACL Injury Prevention Programs on Neuromuscular Risk Factors and Injury Rate. <i>Research in Sports Medicine</i> , 2012, 20, 198-222. | 0.7 | 38 |
| 11 | Biomechanical characteristics of an anterior cruciate ligament injury in javelin throwing. <i>Journal of Sport and Health Science</i> , 2015, 4, 333-340. | 3.3 | 35 |
| 12 | The assessment of material handling strategies in dealing with sudden loading: influences of foot placement on trunk biomechanics. <i>Ergonomics</i> , 2013, 56, 1569-1576. | 1.1 | 33 |
| 13 | The effect of performance demands on lower extremity biomechanics during landing and cutting tasks. <i>Journal of Sport and Health Science</i> , 2019, 8, 228-234. | 3.3 | 32 |
| 14 | Evaluation of the HeroWear Apex back-assist exosuit during multiple brief tasks. <i>Journal of Biomechanics</i> , 2021, 126, 110620. | 0.9 | 30 |
| 15 | Baseline Assessments of Strength and Balance Performance and Bilateral Asymmetries in Collegiate Athletes. <i>Journal of Strength and Conditioning Research</i> , 2019, 33, 3015-3029. | 1.0 | 29 |
| 16 | Recommendations for statistical analysis involving null hypothesis significance testing. <i>Sports Biomechanics</i> , 2020, 19, 561-568. | 0.8 | 27 |
| 17 | Changes in Landing Mechanics in Patients Following Anterior Cruciate Ligament Reconstruction When Wearing an Extension Constraint Knee Brace. <i>Sports Health</i> , 2014, 6, 203-209. | 1.3 | 26 |
| 18 | Total and Lower Extremity Lean Mass Percentage Positively Correlates With Jump Performance. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 2167-2175. | 1.0 | 25 |

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|----|--|-----|-----------|
| 19 | The effects of mid-flight whole-body and trunk rotation on landing mechanics: implications for anterior cruciate ligament injuries. <i>Sports Biomechanics</i> , 2020, 19, 421-437. | 0.8 | 24 |
| 20 | Effects of timing of signal indicating jump directions on knee biomechanics in jump-landing-jump tasks. <i>Sports Biomechanics</i> , 2018, 17, 67-82. | 0.8 | 22 |
| 21 | A resistance band increased internal hip abduction moments and gluteus medius activation during pre-landing and early-landing. <i>Journal of Biomechanics</i> , 2014, 47, 3674-3680. | 0.9 | 21 |
| 22 | The relationships between technique variability and performance in discus throwing. <i>Journal of Sports Sciences</i> , 2013, 31, 219-228. | 1.0 | 17 |
| 23 | The effect of time-of-day on static and dynamic balance in recreational athletes. <i>Sports Biomechanics</i> , 2015, 14, 361-373. | 0.8 | 17 |
| 24 | Mid-flight lateral trunk bending increased ipsilateral leg loading during landing: a center of mass analysis. <i>Journal of Sports Sciences</i> , 2019, 37, 414-423. | 1.0 | 17 |
| 25 | The influence of decision making and divided attention on lower limb biomechanics associated with anterior cruciate ligament injury: a narrative review. <i>Sports Biomechanics</i> , 2023, 22, 30-45. | 0.8 | 17 |
| 26 | Lower Extremity Movement Differences Persist After Anterior Cruciate Ligament Reconstruction and When Returning to Sports. <i>Clinical Journal of Sport Medicine</i> , 2016, 26, 411-416. | 0.9 | 17 |
| 27 | A Pilot Study of Varying Thoracic and Abdominal Compression in a Reconfigurable Trunk Exoskeleton During Different Activities. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1585-1594. | 2.5 | 16 |
| 28 | Trunk motion and anterior cruciate ligament injuries: a narrative review of injury videos and controlled jump-landing and cutting tasks. <i>Sports Biomechanics</i> , 2023, 22, 46-64. | 0.8 | 15 |
| 29 | The Effects of Postseason Break on Knee Biomechanics and Lower Extremity EMG in a Stop-Jump Task: Implications for ACL Injury. <i>Journal of Applied Biomechanics</i> , 2012, 28, 708-717. | 0.3 | 13 |
| 30 | A structural equation model relating physical function, pain, impaired mobility (IM), and falls in older adults. <i>Archives of Gerontology and Geriatrics</i> , 2012, 55, 645-652. | 1.4 | 13 |
| 31 | Mid-flight trunk flexion and extension altered segment and lower extremity joint movements and subsequent landing mechanics. <i>Journal of Science and Medicine in Sport</i> , 2019, 22, 955-961. | 0.6 | 13 |
| 32 | Effects of 12-week cadence retraining on impact peak, load rates and lower extremity biomechanics in running. <i>PeerJ</i> , 2020, 8, e9813. | 0.9 | 13 |
| 33 | The effects of postseason break on stabilometric performance in female volleyball players. <i>Sports Biomechanics</i> , 2010, 9, 115-122. | 0.8 | 12 |
| 34 | Difference in Peak Weight Transfer and Timing Based on Golf Handicap. <i>Journal of Strength and Conditioning Research</i> , 2013, 27, 2481-2486. | 1.0 | 12 |
| 35 | Longitudinal assessments of balance and jump-landing performance before and after anterior cruciate ligament injuries in collegiate athletes. <i>Research in Sports Medicine</i> , 2021, 29, 129-140. | 0.7 | 12 |
| 36 | Short-term effects of the Auxivo LiftSuit during lifting and static leaning. <i>Applied Ergonomics</i> , 2022, 102, 103765. | 1.7 | 12 |

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|----|--|-----|-----------|
| 37 | Falling as a strategy to decrease knee loading during landings: Implications for ACL injury prevention. <i>Journal of Biomechanics</i> , 2020, 109, 109906. | 0.9 | 11 |
| 38 | The influences of foot placement on lumbopelvic rhythm during trunk flexion motion. <i>Journal of Biomechanics</i> , 2016, 49, 1692-1697. | 0.9 | 10 |
| 39 | Lower-Extremity Kinematics Differed Between a Controlled Drop-Jump and Volleyball-Takeoffs. <i>Journal of Applied Biomechanics</i> , 2018, 34, 327-335. | 0.3 | 10 |
| 40 | Effect of External Loading on Force and Power Production During Plyometric Push-ups. <i>Journal of Strength and Conditioning Research</i> , 2018, 32, 1099-1108. | 1.0 | 10 |
| 41 | Effects of Exercise-Induced Fatigue on Lower Extremity Joint Mechanics, Stiffness, and Energy Absorption during Landings. <i>Journal of Sports Science and Medicine</i> , 2018, 17, 640-649. | 0.7 | 9 |
| 42 | The effects of horizontal load speed and lifting frequency on lifting technique and biomechanics. <i>Ergonomics</i> , 2010, 53, 1024-1032. | 1.1 | 8 |
| 43 | Relationship Between Force Production During Isometric Squats and Knee Flexion Angles During Landing. <i>Journal of Strength and Conditioning Research</i> , 2016, 30, 1670-1679. | 1.0 | 8 |
| 44 | Combined visual illusion effects on the perceived index of difficulty and movement outcomes in discrete and continuous fittsâ€™ tapping. <i>Psychological Research</i> , 2016, 80, 55-68. | 1.0 | 8 |
| 45 | Kinematic Analyses of Parkour Landings From as High as 2.7 Meters. <i>Journal of Human Kinetics</i> , 2020, 72, 15-28. | 0.7 | 8 |
| 46 | Medial-lateral hip positions predicted kinetic asymmetries during double-leg squats in collegiate athletes following anterior cruciate ligament reconstruction. <i>Journal of Biomechanics</i> , 2021, 128, 110787. | 0.9 | 8 |
| 47 | Concurrent Tactile Feedback Provided by a Simple Device Increased Knee Flexion and Decreased Impact Ground Reaction Forces During Landing. <i>Journal of Applied Biomechanics</i> , 2016, 32, 248-253. | 0.3 | 6 |
| 48 | Trunk Kinematics under Sudden Loading Impact when Adopting Different Foot Postures. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2013, 57, 929-933. | 0.2 | 5 |
| 49 | Design and Pilot Evaluation of a Reconfigurable Spinal Exoskeleton. , 2018, 2018, 1731-1734. | | 5 |
| 50 | Advantage of Early Focus on Visual Information in Bi-Modal Training of Bimanual Coordination. <i>Multisensory Research</i> , 2019, 32, 613-633. | 0.6 | 5 |
| 51 | Analyses of Countermovement Jump Performance in Time and Frequency Domains. <i>Journal of Human Kinetics</i> , 2021, 78, 41-48. | 0.7 | 5 |
| 52 | The Effect of Stirrup Length on Impact Attenuation and Its Association With Muscle Strength. <i>Journal of Strength and Conditioning Research</i> , 2020, Publish Ahead of Print, . | 1.0 | 5 |
| 53 | Kinematic Comparisons of the Shakehand and Penhold Grips in Table Tennis Forehand and Backhand Strokes when Returning Topspin and Backspin Balls. <i>Journal of Sports Science and Medicine</i> , 2020, 19, 637-644. | 0.7 | 5 |
| 54 | Trunk Muscle Activation and Estimating Spinal Compressive Force in Rope and Harness Vertical Dance. <i>Journal of Dance Medicine and Science</i> , 2015, 19, 163-172. | 0.2 | 4 |

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|----|--|-----|-----------|
| 55 | Lowering minimum eye height to increase peak knee and hip flexion during landing. <i>Research in Sports Medicine</i> , 2018, 26, 251-261. | 0.7 | 4 |
| 56 | Kinetic Analysis of Isometric Back Squats and Isometric Belt Squats. <i>Journal of Strength and Conditioning Research</i> , 2018, 32, 3301-3309. | 1.0 | 4 |
| 57 | Load Position and Weight Classification during Carrying Gait Using Wearable Inertial and Electromyographic Sensors. <i>Sensors</i> , 2020, 20, 4963. | 2.1 | 4 |
| 58 | Biomechanical comparisons of back and front squats with a straight bar and four squats with a transformer bar. <i>Sports Biomechanics</i> , 2024, 23, 166-181. | 0.8 | 4 |
| 59 | Energetic Profile in Forehand Loop Drive Practice with Well-Trained, Young Table Tennis Players. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3681. | 1.2 | 3 |
| 60 | The validity of using one force platform to quantify whole-body forces, velocities, and power during a plyometric push-up. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2021, 13, 103. | 0.7 | 3 |
| 61 | Do accuracy requirements change bimanual and unimanual control processes similarly?. <i>Experimental Brain Research</i> , 2017, 235, 1467-1479. | 0.7 | 2 |
| 62 | The Effect of Footwear on Free Moments During a Rotational Movement in Country Swing Dance. <i>Journal of Dance Medicine and Science</i> , 2018, 22, 84-90. | 0.2 | 2 |
| 63 | Toward real-world evaluations of trunk exoskeletons using inertial measurement units. , 2019, 2019, 483-487. | | 2 |
| 64 | Optimal Load Magnitude and Placement for Peak Power Production in a Vertical Jump: A Segmental Contribution Analysis. <i>Journal of Strength and Conditioning Research</i> , 2022, 36, 911-919. | 1.0 | 2 |
| 65 | Trunk Neuromuscular Function and Anterior Cruciate Ligament Injuries: A Narrative Review of Trunk Strength, Endurance, and Dynamic Control. <i>Strength and Conditioning Journal</i> , 2022, 44, 82-93. | 0.7 | 2 |
| 66 | Interaction of Perception and Action in Discrete and Continuous Rapid Aiming Tasks. <i>Journal of Motor Behavior</i> , 2017, 49, 524-532. | 0.5 | 1 |
| 67 | Longitudinal assessments of strength and dynamic balance from pre-injury baseline to 3 and 4 months after labrum repairs in collegiate athletes. <i>Physiotherapy Theory and Practice</i> , 2022, 38, 2505-2513. | 0.6 | 1 |
| 68 | Simultaneously varying back stiffness and trunk compression in a passive trunk exoskeleton during different activities: A pilot study. , 2021, 2021, 4886-4890. | | 1 |
| 69 | Strength Assessments. , 2019, , 471-481. | | 0 |
| 70 | Design and Pilot Evaluation of a Prototype Sensorized Trunk Exoskeleton. , 2021, 2021, 4537-4541. | | 0 |