

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	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
2	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
3	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
4	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
5	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
6	Short-term effects of the Auxivo LiftSuit during lifting and static leaning. <i>Applied Ergonomics</i> , 2022, 102, 103765.	1.7	12
7	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
8	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
9	Analyses of Countermovement Jump Performance in Time and Frequency Domains. <i>Journal of Human Kinetics</i> , 2021, 78, 41-48.	0.7	5
10	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
11	Evaluation of the HeroWear Apex back-assist exosuit during multiple brief tasks. <i>Journal of Biomechanics</i> , 2021, 126, 110620.	0.9	30
12	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
13	Design and Pilot Evaluation of a Prototype Sensorized Trunk Exoskeleton. , 2021, 2021, 4537-4541.		0
14	Simultaneously varying back stiffness and trunk compression in a passive trunk exoskeleton during different activities: A pilot study. , 2021, 2021, 4886-4890.		1
15	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
16	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
17	Load Position and Weight Classification during Carrying Gait Using Wearable Inertial and Electromyographic Sensors. <i>Sensors</i> , 2020, 20, 4963.	2.1	4
18	Recommendations for statistical analysis involving null hypothesis significance testing. <i>Sports Biomechanics</i> , 2020, 19, 561-568.	0.8	27

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19	Energetic Profile in Forehand Loop Drive Practice with Well-Trained, Young Table Tennis Players. International Journal of Environmental Research and Public Health, 2020, 17, 3681.	1.2	3
20	Falling as a strategy to decrease knee loading during landings: Implications for ACL injury prevention. Journal of Biomechanics, 2020, 109, 109906.	0.9	11
21	The Effect of Stirrup Length on Impact Attenuation and Its Association With Muscle Strength. Journal of Strength and Conditioning Research, 2020, Publish Ahead of Print, .	1.0	5
22	Kinematic Analyses of Parkour Landings From as High as 2.7 Meters. Journal of Human Kinetics, 2020, 72, 15-28.	0.7	8
23	Effects of 12-week cadence retraining on impact peak, load rates and lower extremity biomechanics in running. PeerJ, 2020, 8, e9813.	0.9	13
24	Kinematic Comparisons of the Shakehand and Penhold Grips in Table Tennis Forehand and Backhand Strokes when Returning Topspin and Backspin Balls. Journal of Sports Science and Medicine, 2020, 19, 637-644.	0.7	5
25	Mid-flight lateral trunk bending increased ipsilateral leg loading during landing: a center of mass analysis. Journal of Sports Sciences, 2019, 37, 414-423.	1.0	17
26	Toward real-world evaluations of trunk exoskeletons using inertial measurement units. , 2019, 2019, 483-487.		2
27	Mid-flight trunk flexion and extension altered segment and lower extremity joint movements and subsequent landing mechanics. Journal of Science and Medicine in Sport, 2019, 22, 955-961.	0.6	13
28	Baseline Assessments of Strength and Balance Performance and Bilateral Asymmetries in Collegiate Athletes. Journal of Strength and Conditioning Research, 2019, 33, 3015-3029.	1.0	29
29	Advantage of Early Focus on Visual Information in Bi-Modal Training of Bimanual Coordination. Multisensory Research, 2019, 32, 613-633.	0.6	5
30	Strength Assessments. , 2019, , 471-481.		0
31	The effect of performance demands on lower extremity biomechanics during landing and cutting tasks. Journal of Sport and Health Science, 2019, 8, 228-234.	3.3	32
32	Lowering minimum eye height to increase peak knee and hip flexion during landing. Research in Sports Medicine, 2018, 26, 251-261.	0.7	4
33	Lower-Extremity Kinematics Differed Between a Controlled Drop-Jump and Volleyball-Takeoffs. Journal of Applied Biomechanics, 2018, 34, 327-335.	0.3	10
34	The effect of a secondary cognitive task on landing mechanics and jump performance. Sports Biomechanics, 2018, 17, 192-205.	0.8	42
35	Effect of External Loading on Force and Power Production During Plyometric Push-ups. Journal of Strength and Conditioning Research, 2018, 32, 1099-1108.	1.0	10
36	Effects of timing of signal indicating jump directions on knee biomechanics in jump-landing-jump tasks. Sports Biomechanics, 2018, 17, 67-82.	0.8	22

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37	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
38	Design and Pilot Evaluation of a Reconfigurable Spinal Exoskeleton. , 2018, 2018, 1731-1734.		5
39	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
40	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
41	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
42	Do accuracy requirements change bimanual and unimanual control processes similarly?. <i>Experimental Brain Research</i> , 2017, 235, 1467-1479.	0.7	2
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	The influences of foot placement on lumbopelvic rhythm during trunk flexion motion. <i>Journal of Biomechanics</i> , 2016, 49, 1692-1697.	0.9	10
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	Exploratory factor analysis of the functional movement screen in elite athletes. <i>Journal of Sports Sciences</i> , 2015, 33, 1166-1172.	1.0	45

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55	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
56	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
57	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
58	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
59	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
60	The relationships between technique variability and performance in discus throwing. <i>Journal of Sports Sciences</i> , 2013, 31, 219-228.	1.0	17
61	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
62	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
63	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
64	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
65	Anterior Cruciate Ligament Reconstruction in Adolescent Patients. <i>American Journal of Sports Medicine</i> , 2012, 40, 2756-2763.	1.9	46
66	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
67	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
68	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
69	The effects of postseason break on stabilometric performance in female volleyball players. <i>Sports Biomechanics</i> , 2010, 9, 115-122.	0.8	12
70	The effects of horizontal load speed and lifting frequency on lifting technique and biomechanics. <i>Ergonomics</i> , 2010, 53, 1024-1032.	1.1	8