# Janet S Dufek

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5528981/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 122 papers | 2,783 citations | 236612 25 h-index | 197535 49 g-index |
| 125 all docs | 125 docs citations | 125 times ranked | 2214 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Contributions of lower extremity joints to energy dissipation during landings. Medicine and Science in Sports and Exercise, 2000, 32, 812-819. | 0.2 | 362 |
| 2 | Biomechanical Factors Associated with Injury During Landing in Jump Sports. Sports Medicine, 1991, 12, 326-337. | 3.1 | 196 |
| 3 | Increased jump height and reduced EMG activity with an external focus. Human Movement Science, 2010, 29, 440-448. | 0.6 | 190 |
| 4 | The evaluation and prediction of impact forces during landings. Medicine and Science in Sports and Exercise, 1990, 22, 370???377. | 0.2 | 172 |
| 5 | Increased Jump Height with an External Focus Due to Enhanced Lower Extremity Joint Kinetics. Journal of Motor Behavior, 2009, 41, 401-409. | 0.5 | 126 |
| 6 | The effects of gait retraining in runners with patellofemoral pain: A randomized trial. Clinical Biomechanics, 2016, 35, 14-22. | 0.5 | 112 |
| 7 | The effect of trial size on statistical power. Medicine and Science in Sports and Exercise, 1992, 24, 1059???1065. | 0.2 | 104 |
| 8 | Increases in Jump-and-Reach Height through an External Focus of Attention. International Journal of Sports Science and Coaching, 2007, 2, 275-284. | 0.7 | 92 |
| 9 | Characteristics of shock attenuation during fatigued running. Journal of Sports Sciences, 2003, 21, 911-919. | 1.0 | 85 |
| 10 | Interactive effects between group and single-subject response patterns. Human Movement Science, 1995, 14, 301-323. | 0.6 | 65 |
| 11 | Effects of injury proneness and task difficulty on joint kinetic variability. Medicine and Science in Sports and Exercise, 2000, 32, 1833-1844. | 0.2 | 59 |
| 12 | Analysis of gait symmetry during over-ground walking in children with autism spectrum disorder. Gait and Posture, 2017, 55, 162-166. | 0.6 | 52 |
| 13 | Bilateral performance symmetry during drop landing. Medicine and Science in Sports and Exercise, 1994, 26, 1153???1159. | 0.2 | 51 |
| 14 | Classification and Comparison of Biomechanical Response Strategies for Accommodating Landing Impact. Journal of Applied Biomechanics, 2003, 19, 106-118. | 0.3 | 47 |
| 15 | Determination of muscle activity during running at reduced body weight. Journal of Sports Sciences, 2011, 29, 207-214. | 1.0 | 44 |
| 16 | Number of trials necessary to achieve performance stability of selected ground reaction force variables during landing. Journal of Sports Science and Medicine, 2007, 6, 126-34. | 0.7 | 41 |
| 17 | Imagery and Conditioning Practices for Dancers. Dance Research Journal, 1997, 29, 43. | 0.3 | 40 |
| 18 | Use of active video gaming in children with neuromotor dysfunction: a systematic review. Developmental Medicine and Child Neurology, 2017, 59, 903-911. | 1.1 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Effects of overweight and obesity on walking characteristics in adolescents. Human Movement Science, 2012, 31, 897-906. | 0.6 | 36 |
| 20 | Classifying performer strategies in drop landing activities. Journal of Sports Sciences, 2017, 35, 1858-1863. | 1.0 | 35 |
| 21 | Effects of Foot Strike on Low Back Posture, Shock Attenuation, and Comfort in Running. Medicine and Science in Sports and Exercise, 2013, 45, 490-496. | 0.2 | 32 |
| 22 | Functional and dynamic response characteristics of a custom composite ankle foot orthosis for Charcotâ€“Marieâ€“Tooth patients. Gait and Posture, 2014, 39, 308-313. | 0.6 | 30 |
| 23 | Dynamic performance assessment of selected sport shoes on impact forces. Medicine and Science in Sports and Exercise, 1991, 23, 1062???1067. | 0.2 | 29 |
| 24 | Kinetic and Electromyographic Subphase Characteristics With Relation to Countermovement Vertical Jump Performance. Journal of Applied Biomechanics, 2018, 34, 291-297. | 0.3 | 28 |
| 25 | A Description of Shock Attenuation for Children Running. Journal of Athletic Training, 2010, 45, 259-264. | 0.9 | 27 |
| 26 | A Comparative Evaluation of Gait between Children with Autism and Typically Developing Matched Controls. Medical Sciences (Basel, Switzerland), 2017, 5, 1. | 1.3 | 27 |
| 27 | Reviewing the Variability-Overuse Injury Hypothesis: Does Movement Variability Relate to Landing Injuries?. Research Quarterly for Exercise and Sport, 2019, 90, 190-205. | 0.8 | 25 |
| 28 | Effects of Stretch Shortening Cycle Exercise Fatigue on Stress Fracture Injury Risk During Landing. Research Quarterly for Exercise and Sport, 2006, 77, 1-13. | 0.8 | 24 |
| 29 | Three-dimensional impact kinetics with foot-strike manipulations during running. Journal of Sport and Health Science, 2017, 6, 489-497. | 3.3 | 24 |
| 30 | The effects of sample size and variability on the correlation coefficient. Medicine and Science in Sports and Exercise, 1996, 28, 386-391. | 0.2 | 24 |
| 31 | Neuromechanical synergies in single-leg landing reveal changes in movement control. Human Movement Science, 2016, 49, 66-78. | 0.6 | 23 |
| 32 | The effect of trial size and variability on statistical power. Medicine and Science in Sports and Exercise, 1995, 27, 288???295. | 0.2 | 21 |
| 33 | Lower extremity performance models for landing. Human Movement Science, 1992, 11, 299-318. | 0.6 | 20 |
| 34 | An exploration of load accommodation strategies during walking with extremity-carried weights. Human Movement Science, 2014, 35, 17-29. | 0.6 | 19 |
| 35 | Assessing the validity of pressure-measuring insoles in quantifying gait variables. Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831775208. | 0.6 | 18 |
| 36 | The Effects of Speed and Surface Compliance on Shock Attenuation Characteristics for Male and Female Runners. Journal of Applied Biomechanics, 2009, 25, 219-228. | 0.3 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The effects of sample size and variability on the correlation coefficient. Medicine and Science in Sports and Exercise, 1996, 28, 386-391. | 0.2 | 17 |
| 38 | Kinematic and ground reaction force accommodation during weighted walking. Human Movement Science, 2015, 44, 327-337. | 0.6 | 16 |
| 39 | Gait Retraining From Rearfoot Strike to Forefoot Strike does not change Running Economy. International Journal of Sports Medicine, 2017, 38, 1076-1082. | 0.8 | 16 |
| 40 | Effects of treadmill running velocity on lower extremity coordination variability in healthy runners. Human Movement Science, 2018, 61, 144-150. | 0.6 | 16 |
| 41 | Lectures and Symposia Peer-Reviewed Abstracts. Research Quarterly for Exercise and Sport, 2006, 77, A-1-A-17. | 0.8 | 15 |
| 42 | An interdisciplinary momentary confluence of events model to explain, minimize, and prevent pediatric patient falls and fallâ€related injuries. Journal for Specialists in Pediatric Nursing, 2013, 18, 4-12. | 0.6 | 15 |
| 43 | Lower extremity variability changes with drop-landing height manipulations. Research in Sports Medicine, 2017, 25, 144-155. | 0.7 | 15 |
| 44 | Children with Autism Spectrum Disorder Show Impairments During Dynamic Versus Static Gripâ€force Tracking. Autism Research, 2020, 13, 2177-2189. | 2.1 | 15 |
| 45 | Vertical and Horizontal Impact Force Comparison During Jump Landings With and Without Rotation in NCAA Division I Male Soccer Players. Journal of Strength and Conditioning Research, 2017, 31, 1780-1786. | 1.0 | 14 |
| 46 | Examination of gait parameters during perturbed over-ground walking in children with autism spectrum disorder. Research in Developmental Disabilities, 2018, 74, 50-56. | 1.2 | 14 |
| 47 | Evaluating Performance During Maximum Effort Vertical Jump Landings. Journal of Applied Biomechanics, 2018, 34, 403-409. | 0.3 | 13 |
| 48 | The Influence of Experimental Design on the Detection of Performance Differences. Measurement in Physical Education and Exercise Science, 2016, 20, 200-207. | 1.3 | 12 |
| 49 | Performance Differences Among Skilled Soccer Players of Different Playing Positions During Vertical Jumping and Landing. Journal of Strength and Conditioning Research, 2018, 32, 304-312. | 1.0 | 12 |
| 50 | Manual dexterity in children with autism spectrum disorder: A cross-syndrome approach. Research in Autism Spectrum Disorders, 2020, 73, 101546. | 0.8 | 12 |
| 51 | Influence of Procedural Factors on the Reliability and Performance of the Timed Up-and-go Test in Older Adults. International Journal of Gerontology, 2016, 10, 37-42. | 0.7 | 11 |
| 52 | Aerial Rotation Effects on Vertical Jump Performance Among Highly Skilled Collegiate Soccer Players. Journal of Strength and Conditioning Research, 2017, 31, 932-938. | 1.0 | 11 |
| 53 | Comparison of pre-contact joint kinematics and vertical impulse between vertical jump landings and step-off landings from equal heights. Human Movement Science, 2017, 56, 88-97. | 0.6 | 11 |
| 54 | Bilateral Comparison of Vertical Jump Landings and Step-off Landings From Equal Heights. Journal of Strength and Conditioning Research, 2018, 32, 1937-1947. | 1.0 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Electronic measurement of plantar contact area during walking using an adaptive thresholding method for MedilogicÂ® pressure-measuring insoles. Foot, 2019, 39, 1-10. | 0.4 | 11 |
| 56 | A comparison of two techniques for center of pressure measurements. Journal of Rehabilitation and Assistive Technologies Engineering, 2020, 7, 205566832092106. | 0.6 | 11 |
| 57 | Lesser magnitudes of lower extremity variability during terminal swing characterizes walking patterns in children with autism. Clinical Biomechanics, 2020, 76, 105031. | 0.5 | 11 |
| 58 | Analysis of Peak Oxygen Consumption and Heart Rate during Elliptical and Treadmill Exercise. Journal of Sport Rehabilitation, 2001, 10, 48-56. | 0.4 | 10 |
| 59 | Impact Attenuation and Variability during Running in Females: A Lifespan Investigation. Journal of Sport Rehabilitation, 2008, 17, 230-242. | 0.4 | 10 |
| 60 | Load Accommodation Strategies and Movement Variability in Single-Leg Landing. Journal of Applied Biomechanics, 2017, 33, 241-247. | 0.3 | 10 |
| 61 | Lower extremity joint stiffness during walking distinguishes children with and without autism. Human Movement Science, 2018, 62, 25-33. | 0.6 | 10 |
| 62 | Weighted Walking Influences Lower Extremity Coordination in Children on the Autism Spectrum. Perceptual and Motor Skills, 2018, 125, 1103-1122. | 0.6 | 9 |
| 63 | Enhancing the Accuracy of Vertical Ground Reaction Force Measurement During Walking Using Pressure-Measuring Insoles. Journal of Biomechanical Engineering, 2021, 143, . | 0.6 | 9 |
| 64 | Footwear and footstrike change loading patterns in running. Journal of Sports Sciences, 2020, 38, 1869-1876. | 1.0 | 8 |
| 65 | Kinematic Analyses of Parkour Landings From as High as 2.7 Meters. Journal of Human Kinetics, 2020, 72, 15-28. | 0.7 | 8 |
| 66 | Rocker-Bottom, Profile-Type Shoes Do Not Increase Lower Extremity Muscle Activity or Energy Cost of Walking. Journal of Strength and Conditioning Research, 2012, 26, 2426-2431. | 1.0 | 7 |
| 67 | Single-leg landing neuromechanical data following load and land height manipulations. Data in Brief, 2016, 8, 1024-1030. | 0.5 | 7 |
| 68 | A first look into the influence of triathlon wetsuit on resting blood pressure and heart rate variability. Biology of Sport, 2017, 1, 77-82. | 1.7 | 7 |
| 69 | Weighted vest effects on impact forces and joint work during vertical jump landings in men and women. Human Movement Science, 2019, 63, 156-163. | 0.6 | 7 |
| 70 | Understanding the influence of perceived fatigue on coordination during endurance running. Sports Biomechanics, 2020, 19, 618-632. | 0.8 | 7 |
| 71 | Landing Biomechanics in Adolescent Athletes With and Without a History of Sports-Related Concussion. Journal of Applied Biomechanics, 2020, 36, 313-318. | 0.3 | 7 |
| 72 | Examining the specificity of postural control deficits in children with Autism Spectrum Disorder using a cross-syndrome approach. Research in Autism Spectrum Disorders, 2020, 72, 101514. | 0.8 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Weighted Vest Use to Improve Movement Control during Walking in Children with Autism. Translational Journal of the American College of Sports Medicine, 2019, 4, 64-73. | 0.3 | 6 |
| 74 | Computer interactions during walking workstation use moderately affects spatial-temporal gait characteristics. Gait and Posture, 2019, 74, 200-204. | 0.6 | 5 |
| 75 | Concurrent Validity of an Automated Footprint Detection Algorithm to Measure Plantar Contact Area During Walking. Journal of the American Podiatric Medical Association, 2019, 109, 416-425. | 0.2 | 4 |
| 76 | Single-Subject Analyses Reveal Altered Performance and Muscle Activation during Vertical Jumping. Biomechanics, 2021, 1, 15-28. | 0.5 | 4 |
| 77 | Review of Foot Plantar Pressureâ€"Focus on the Development of Foot Ulcerations. Open Access Journal of Science and Technology, 2016, 3, . | 0.2 | 4 |
| 78 | Individual joint contributions to shock absorption during vertical drop landings. Journal of Biomechanics, 1992, 25, 679. | 0.9 | 3 |
| 79 | Feasibility of using a large amplitude movement therapy to improve ambulatory function in children with cerebral palsy. Physiotherapy Theory and Practice, 2015, 31, 382-389. | 0.6 | 3 |
| 80 | Effects of Active Workstation Use on Walking Mechanics and Work Efficiency. Journal of Novel Physiotherapies, 2016, 06, . | 0.1 | 3 |
| 81 | Effects of Stretch Shortening Cycle Exercise Fatigue on Stress Fracture Injury Risk During Landing. Research Quarterly for Exercise and Sport, 2006, 77, 1-13. | 0.8 | 3 |
| 82 | The Influence of Sport-Related Concussion on Lower Extremity Injury Risk: A Review of Current Return-to-Play Practices and Clinical Implications. International Journal of Exercise Science, 2020, 13, 873-889. | 0.5 | 3 |
| 83 | Walking Mechanics and Movement Pattern Variability in Monozygotic Twins with Autism Spectrum Disorder. Journal of Developmental and Physical Disabilities, 2018, 30, 793-805. | 1.0 | 2 |
| 84 | A viscoelastic ellipsoidal model of the mechanics of plantar tissues. Journal of Biomechanics, 2019, 92, 137-145. | 0.9 | 2 |
| 85 | Models incorporating height, distance and landing technique to predict impact forces. Journal of Biomechanics, 1989, 22, 1005. | 0.9 | 1 |
| 86 | Impact Characteristics of Female Children Running in Adult Versus Youth Shoes of the Same Size. Journal of Applied Biomechanics, 2012, 28, 593-598. | 0.3 | 1 |
| 87 | Modifying the Diabetes Prevention Program to Adolescents in a School Setting: A Feasibility Study. ISRN Education, 2012, 2012, 1-9. | 0.5 | 1 |
| 88 | Visualâ€"Spatial Attentional Performance Identifies Lower Extremity Injury Risk in Adolescent Athletes. Clinical Journal of Sport Medicine, 2022, Publish Ahead of Print, . | 0.9 | 1 |
| 89 | The effects of fatigue on mechanical and muscular components of performance during drop landings. Journal of Biomechanics, 1993, 26, 360. | 0.9 | 0 |
| 90 | Metabolic Cost During Submaximal Walking with a Rigid Rotational-Control Ankle-Foot Orthosis: A Preliminary Investigation. Journal of Prosthetics and Orthotics, 1997, 9, 152-156. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Footstrike Patterns During Barefoot Running. Medicine and Science in Sports and Exercise, 2007, 39, S151. | 0.2 | 0 |
| 92 | Skecher Shape-ups Do Not Increase the Metabolic Cost of Walking. Medicine and Science in Sports and Exercise, 2011, 43, 267. | 0.2 | 0 |
| 93 | Lower Extremity Muscle Activity While Walking in Shape-Up Shoes. Medicine and Science in Sports and Exercise, 2011, 43, 314. | 0.2 | 0 |
| 94 | Implications of Increased Lower Extremity Movement Variability on Fall Susceptibility at Increased Stride Lengths During Locomotion. , 2013, , . | | 0 |
| 95 | Effects of Stride Length Perturbations on Anterior-Posterior Force Components During Stance Phase of Walking. Medicine and Science in Sports and Exercise, 2014, 46, 277. | 0.2 | 0 |
| 96 | A Comprehensive Kinematic Analysis of a 15 km Training Run. Medicine and Science in Sports and Exercise, 2015, 47, 817-823. | 0.2 | 0 |
| 97 | Does Landing Strategy Change with Increased Mechanical Task Demands?. Medicine and Science in Sports and Exercise, 2015, 47, 428. | 0.2 | 0 |
| 98 | Prediction of calcaneal bone competence from biomechanical accommodation variables measured during weighted walking. Human Movement Science, 2017, 56, 37-45. | 0.6 | 0 |
| 99 | Biomechanics of pediatric patient falls and the potential for concussion. Journal for Specialists in Pediatric Nursing, 2017, 22, e12170. | 0.6 | 0 |
| 100 | A Novel Approach to Assessing Head Injury Severity in Pediatric Patient Falls. Journal of Pediatric Health Care, 2018, 32, e59-e66. | 0.6 | 0 |
| 101 | Hip Mechanics during Gait in Sedentary Adults. Medicine and Science in Sports and Exercise, 2019, 51, 704-704. | 0.2 | 0 |
| 102 | The Influence Of Concussion History On Landing Biomechanics In Adolescent Athletes: A Pilot Investigation.. Medicine and Science in Sports and Exercise, 2019, 51, 267-267. | 0.2 | 0 |
| 103 | Advanced biomechanics. , 2020, , 65-80. | | 0 |
| 104 | Why and how we move: the Stickman story. , 2020, , 81-97. | | 0 |
| 105 | Use of Pressure-Measuring Insoles to Characterize Gait Parameters in Simulated Reduced-Gravity Conditions. Sensors, 2021, 21, 6244. | 2.1 | 0 |
| 106 | Surface Variations Alter the Prediction of Shock Attenuation for Female Runners. Medicine and Science in Sports and Exercise, 2006, 38, S122-S123. | 0.2 | 0 |
| 107 | Impact Variability among Skilled Female Volleyball Players. Medicine and Science in Sports and Exercise, 2006, 38, S267. | 0.2 | 0 |
| 108 | Effect Of Change In Running Speeds On Shock Attenuation Among Children. Medicine and Science in Sports and Exercise, 2007, 39, S475. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Exploration Of A Novel Task For Improvement Of Balance In Older Adults. Medicine and Science in Sports and Exercise, 2009, 41, 219. | 0.2 | 0 |
| 110 | Muscle Activity During Running At Reduced Body Weight.. Medicine and Science in Sports and Exercise, 2009, 41, 513. | 0.2 | 0 |
| 111 | The Effect Of Retro Locomotion On Flexibility Of The Low Back And Hamstrings. Medicine and Science in Sports and Exercise, 2009, 41, 358. | 0.2 | 0 |
| 112 | Joint-Specific Kinetic Adjustments Following Landing Height Manipulations. Medicine and Science in Sports and Exercise, 2015, 47, 345. | 0.2 | 0 |
| 113 | Recovery from Spinal Shrinkage. Medicine and Science in Sports and Exercise, 2015, 47, 256. | 0.2 | 0 |
| 114 | Effects Of Dual-tasking On Stability During Walking In Children With Cerebral Palsy. Medicine and Science in Sports and Exercise, 2015, 47, 218. | 0.2 | 0 |
| 115 | Alterations in Movement Coordination due to Increasing Landing Height. Medicine and Science in Sports and Exercise, 2015, 47, 272. | 0.2 | 0 |
| 116 | Proportionality of Resistance Band Tension and Corresponding Muscle Activity While Using a Resistance Band Exercise Device. Medicine and Science in Sports and Exercise, 2015, 47, 345. | 0.2 | 0 |
| 117 | Numerical simulation of multi-phase phenomena in IVR related processes. Kerntechnik, 2016, 81, 160-163. | 0.2 | 0 |
| 118 | Changes in Sprint Kinetics and Kinematics Following Static or Dynamic Stretching. Medicine and Science in Sports and Exercise, 2016, 48, 447-448. | 0.2 | 0 |
| 119 | The Effects of Gait Retraining on Oxygen Consumption and Carbohydrate Metabolism. Medicine and Science in Sports and Exercise, 2016, 48, 14. | 0.2 | 0 |
| 120 | Force- and Velocity-Profile Differences Between Good and Poor Countermovement Vertical Jumpers. Medicine and Science in Sports and Exercise, 2018, 50, 686. | 0.2 | 0 |
| 121 | Comparison of Peak Plantar Pressure and Peak Pressure Gradient among Patients with Prediabetes and Diabetes. Diabetes, 2018, 67, . | 0.3 | 0 |
| 122 | Validation Of A Wearable Inertial Sensor Unit To Measure Balance And Sway During Postural Tasks. Medicine and Science in Sports and Exercise, 2020, 52, 937-937. | 0.2 | 0 |