# Kieran A Moran

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 108 papers | 1,939 citations | 26 h-index | 39 g-index |
| 120 ext. papers | 2,409 ext. citations | 3.1 avg, IF | 5.12 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 108 | Development of an Internet of Things Technology Platform (the NEX System) to Support Older Adults to Live Independently: Protocol for a Development and Usability Study.. *JMIR Research Protocols*, **2022**, 11, e35277 | 2 | 0 |
| 107 | Principal Component Analysis of the Biomechanical Factors Associated With Performance During Cutting. *Journal of Strength and Conditioning Research*, **2021**, 35, 1715-1723 | 3.2 | 8 |
| 106 | Fear Avoidance After Injury and Readiness to Return to Sport in Collegiate Male and Female Gaelic Games Players. *Sports Health*, **2021**, 13, 532-539 | 4.7 | 2 |
| 105 | Principal Component Analysis of the Associations Between Kinetic Variables in Cutting and Jumping, and Cutting Performance Outcome. *Journal of Strength and Conditioning Research*, **2021**, 35, 1848-1855 | 3.2 | 6 |
| 104 | The Effect of Hip Extension and Nordic Hamstring Exercise Protocols on Hamstring Strength: A Randomized Controlled Trial. *Journal of Strength and Conditioning Research*, **2021**, 35, 2682-2689 | 3.2 | 5 |
| 103 | A Deep Learning Model for Exercise-Based Rehabilitation Using Multi-channel Time-Series Data from a Single Wearable Sensor. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2021**, 104-115 | 0.2 | 1 |
| 102 | Hip Muscle Strength Explains Only 11% of the Improvement in HAGOS With an Intersegmental Approach to Successful Rehabilitation of Athletic Groin Pain. *American Journal of Sports Medicine*, **2021**, 49, 2994-3003 | 6.8 | 3 |
| 101 | Does stammering act as a barrier to exercise and sport in Irish adults who stammer?. *Journal of Fluency Disorders*, **2021**, 70, 105880 | 2.3 | 0 |
| 100 | Can the Y balance test identify those at risk of contact or non-contact lower extremity injury in adolescent and collegiate Gaelic games?. *Journal of Science and Medicine in Sport*, **2020**, 23, 943-948 | 4.4 | 1 |
| 99 | A qualitative exploration of cardiovascular disease patientsRviews and experiences with an eHealth cardiac rehabilitation intervention: The PATHway Project. *PLoS ONE*, **2020**, 15, e0235274 | 3.7 | 3 |
| 98 | Development and reliability of the KIM cycling scale a measurement tool for the development process to cycling independently. *Physical Education and Sport Pedagogy*, **2020**, 25, 174-187 | 3.8 | 2 |
| 97 | Can Directed Compliant Running Reduce the Magnitude of Variables Associated With the Development of Running Injuries?. *Journal of Strength and Conditioning Research*, **2020**, | 3.2 | 1 |
| 96 | Feasibility, Acceptability, and Clinical Effectiveness of a Technology-Enabled Cardiac Rehabilitation Platform (Physical Activity Toward Health-I): Randomized Controlled Trial. *Journal of Medical Internet Research*, **2020**, 22, e14221 | 7.6 | 11 |
| 95 | Feature Learning to Automatically Assess Radiographic Knee Osteoarthritis Severity. *Intelligent Systems Reference Library*, **2020**, 9-93 | 0.8 | 1 |
| 94 | The effects of rehabilitation on the biomechanics of patients with athletic groin pain. *Journal of Biomechanics*, **2020**, 99, 109474 | 2.9 | 7 |
| 93 | Can a Standardized Visual Assessment of Squatting Technique and Core Stability Predict Injury?. *Journal of Strength and Conditioning Research*, **2020**, 34, 26-36 | 3.2 | 3 |
| 92 | Rehabilitation interventions need more than methodological standardisation: an individualised approach. *BMJ Open Sport and Exercise Medicine*, **2020**, 6, e000899 | 3.4 | 4 |

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| 91 | Recognition and Repetition Counting for Local Muscular Endurance Exercises in Exercise-Based Rehabilitation: A Comparative Study Using Artificial Intelligence Models. *Sensors*, **2020**, 20, | 3.8 | 7 |
| 90 | Quantifying cycling as a foundational movement skill in early childhood. *Journal of Science and Medicine in Sport*, **2020**, 23, 171-175 | 4.4 | 4 |
| 89 | An evaluation of a 3D multimodal marker-less motion analysis system **2019**, | | 5 |
| 88 | How actual motor competence and perceived motor competence influence motor-skill engagement of a novel cycling task. *Scandinavian Journal of Medicine and Science in Sports*, **2019**, 29, 1583-1590 | 4.6 | 1 |
| 87 | Predicting knee osteoarthritis severity: comparative modeling based on patientR̃s data and plain X-ray images. *Scientific Reports*, **2019**, 9, 5761 | 4.9 | 25 |
| 86 | Is Poor Hamstring Flexibility a Risk Factor for Hamstring Injury in Gaelic Games?. *Journal of Sport Rehabilitation*, **2019**, 28, 677-681 | 1.7 | 4 |
| 85 | Sports-Related Concussion in Adolescent Gaelic Games Players. *Sports Health*, **2019**, 11, 498-506 | 4.7 | 6 |
| 84 | Nonsteroidal anti-inflammatory drug use, knowledge, and behaviors around their use and misuse in Irish collegiate student-athletes. *Physician and Sportsmedicine*, **2019**, 47, 318-322 | 2.4 | 5 |
| 83 | The development and codesign of the PATHway intervention: a theory-driven eHealth platform for the self-management of cardiovascular disease. *Translational Behavioral Medicine*, **2019**, 9, 76-98 | 3.2 | 18 |
| 82 | Is stiffness related to athletic groin pain?. *Scandinavian Journal of Medicine and Science in Sports*, **2018**, 28, 1681-1690 | 4.6 | 11 |
| 81 | Does the amount of lower extremity movement variability differ between injured and uninjured populations? A systematic review. *Scandinavian Journal of Medicine and Science in Sports*, **2018**, 28, 1320-1338 | 4.6 | 33 |
| 80 | Computerized decision support for beneficial home-based exercise rehabilitation in patients with cardiovascular disease. *Computer Methods and Programs in Biomedicine*, **2018**, 162, 1-10 | 6.9 | 16 |
| 79 | Investigation of the Effects of High-Intensity, Intermittent Exercise and Unanticipation on Trunk and Lower Limb Biomechanics During a Side-Cutting Maneuver Using Statistical Parametric Mapping. *Journal of Strength and Conditioning Research*, **2018**, 32, 1583-1593 | 3.2 | 6 |
| 78 | Clinical and biomechanical outcomes of rehabilitation targeting intersegmental control in athletic groin pain: prospective cohort of 205 patients. *British Journal of Sports Medicine*, **2018**, 52, 1054-1062 | 10.3 | 42 |
| 77 | Effects of a dynamic core stability program on the biomechanics of cutting maneuvers: A randomized controlled trial. *Scandinavian Journal of Medicine and Science in Sports*, **2018**, 28, 452-462 | 4.6 | 10 |
| 76 | The effect of high intensity exercise and anticipation on trunk and lower limb biomechanics during a crossover cutting manoeuvre. *Journal of Sports Sciences*, **2018**, 36, 889-900 | 3.6 | 6 |
| 75 | Countermovement Jump and Isokinetic Dynamometry as Measures of Rehabilitation Status After Anterior Cruciate Ligament Reconstruction. *Journal of Athletic Training*, **2018**, 53, 687-695 | 4 | 37 |
| 74 | The effects of limb dominance and a short term, high intensity exercise protocol on both landings of the vertical drop jump: implications for the vertical drop jump as a screening tool. *Sports Biomechanics*, **2018**, 17, 541-553 | 2.2 | 3 |

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| 73 | MedFit App, a Behavior-Changing, Theoretically Informed Mobile App for Patient Self-Management of Cardiovascular Disease: User-Centered Development. *JMIR Formative Research*, **2018**, 2, e8 | 2.5 | 10 |
| 72 | Electronic Health Physical Activity Behavior Change Intervention to Self-Manage Cardiovascular Disease: Qualitative Exploration of Patient and Health Professional Requirements. *Journal of Medical Internet Research*, **2018**, 20, e163 | 7.6 | 11 |
| 71 | Activity Recognition of Local Muscular Endurance (LME) Exercises Using an Inertial Sensor. *Advances in Intelligent Systems and Computing*, **2018**, 35-47 | 0.4 | 2 |
| 70 | Design and Development of the MedFit App: A Mobile Application for Cardiovascular Disease Rehabilitation. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2018**, 20-28 | 0.2 | 2 |
| 69 | Small Step Frequency Changes Due to Footwear Condition Have No Effect on Running Economy. *Sports Medicine International Open*, **2018**, 2, E41-E45 | 1.7 | 1 |
| 68 | Athletic groin pain (part 2): a prospective cohort study on the biomechanical evaluation of change of direction identifies three clusters of movement patterns. *British Journal of Sports Medicine*, **2017**, 51, 460-468 | 10.3 | 36 |
| 67 | PATHway I: design and rationale for the investigation of the feasibility, clinical effectiveness and cost-effectiveness of a technology-enabled cardiac rehabilitation platform. *BMJ Open*, **2017**, 7, e016781 | 3 | 14 |
| 66 | MedFit **2017**, | | 1 |
| 65 | Kinetic changes during a six-week minimal footwear and gait-retraining intervention in runners. *Journal of Sports Sciences*, **2017**, 35, 1538-1546 | 3.6 | 18 |
| 64 | Epidemiology of injury in male collegiate Gaelic footballers in one season. *Scandinavian Journal of Medicine and Science in Sports*, **2017**, 27, 1136-1142 | 4.6 | 12 |
| 63 | Behavior Change Techniques in Physical Activity eHealth Interventions for People With Cardiovascular Disease: Systematic Review. *Journal of Medical Internet Research*, **2017**, 19, e281 | 7.6 | 49 |
| 62 | Automatic Detection of Knee Joints and Quantification of Knee Osteoarthritis Severity Using Convolutional Neural Networks. *Lecture Notes in Computer Science*, **2017**, 376-390 | 0.9 | 45 |
| 61 | Epidemiology of injury in male adolescent Gaelic games. *Journal of Science and Medicine in Sport*, **2016**, 19, 384-8 | 4.4 | 23 |
| 60 | . *IEEE Sensors Journal*, **2016**, 16, 8823-8831 | 4 | 31 |
| 59 | Automated detection of atrial fibrillation using R-R intervals and multivariate-based classification. *Journal of Electrocardiology*, **2016**, 49, 871-876 | 1.4 | 38 |
| 58 | The Number of Trials Required to Obtain a Representative Movement Pattern During a Hurdle Hop Exercise. *Journal of Applied Biomechanics*, **2016**, 32, 295-300 | 1.2 | 6 |
| 57 | Can a Single-Leg Squat Provide Insight into Movement Control and Loading During Dynamic Sporting Actions in Patients With Athletic Groin Pain?. *Journal of Sport Rehabilitation*, **2016**, 25, 117-125 | 1.7 | 4 |
| 56 | Cardiac patients show high interest in technology enabled cardiovascular rehabilitation. *BMC Medical Informatics and Decision Making*, **2016**, 16, 95 | 3.6 | 53 |

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| 55 | The Cardiac Conduction System: Generation and Conduction of the Cardiac Impulse. *Critical Care Nursing Clinics of North America*, **2016**, 28, 269-79 | 1.5 | 20 |
| 54 | The development and reliability of a simple field based screening tool to assess core stability in athletes. *Physical Therapy in Sport*, **2016**, 20, 40-4 | 3 | 6 |
| 53 | The novel use of a SenseCam and accelerometer to validate training load and training information in a self-recall training diary. *Journal of Sports Sciences*, **2016**, 34, 303-10 | 3.6 | 5 |
| 52 | A Technology Platform for Enabling Behavioural Change as a "PATHway" Towards Better Self-management of CVD **2016**, | | 2 |
| 51 | Quantifying radiographic knee osteoarthritis severity using deep convolutional neural networks **2016**, | | 109 |
| 50 | An interactive segmentation tool for quantifying fat in lumbar muscles using axial lumbar-spine MRI. *Irbm*, **2016**, 37, 11-22 | 4.8 | 4 |
| 49 | PATHway: Decision Support in Exercise Programmes for Cardiac Rehabilitation. *Studies in Health Technology and Informatics*, **2016**, 224, 40-5 | 0.5 | 6 |
| 48 | Can a Single-Leg Squat Provide Insight Into Movement Control and Loading During Dynamic Sporting Actions in Patients With Athletic Groin Pain?. *Journal of Sport Rehabilitation*, **2016**, 25, 117-25 | 1.7 | 3 |
| 47 | Eight weeks gait retraining in minimalist footwear has no effect on running economy. *Human Movement Science*, **2015**, 42, 183-92 | 2.4 | 14 |
| 46 | A high-intensity, intermittent exercise protocol and dynamic postural control in men and women. *Journal of Athletic Training*, **2015**, 50, 392-9 | 4 | 26 |
| 45 | Automatic Detection, Extraction, and Analysis of Landing During a Training Session, Using a Wearable Sensor System. *Procedia Engineering*, **2015**, 112, 184-189 | | 3 |
| 44 | Detection of Running Asymmetry Using a Wearable Sensor System. *Procedia Engineering*, **2015**, 112, 180-183 | | 5 |
| 43 | Biomechanical symmetry in elite rugby union players during dynamic tasks: an investigation using discrete and continuous data analysis techniques. *BMC Sports Science, Medicine and Rehabilitation*, **2015**, 7, 13 | 2.4 | 15 |
| 42 | The effects of electrode placement on an automated algorithm for detecting ST segment changes on the 12-lead ECG **2015**, | | 1 |
| 41 | Human gait monitoring using body-worn inertial sensors and kinematic modelling **2015**, | | 7 |
| 40 | Reliability of a Modified Active Knee Extension Test for Assessment of Hamstring Flexibility. *International Journal of Athletic Therapy and Training*, **2015**, 20, 32-36 | 0.3 | 4 |
| 39 | Epidemiology of injury in male Irish secondary school adolescents in one academic year. *Physiotherapy Practice and Research*, **2015**, 37, 11-18 | 0.8 | |
| 38 | Biomechanical Factors Associated With Jump Height: A Comparison of Cross-Sectional and Pre-to-Posttraining Change Findings. *Journal of Strength and Conditioning Research*, **2015**, 29, 3292-9 | 3.2 | 9 |

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| 37 | The effects of a free-weight-based resistance training intervention on pain, squat biomechanics and MRI-defined lumbar fat infiltration and functional cross-sectional area in those with chronic low back. *BMJ Open Sport and Exercise Medicine*, **2015**, 1, e000050 | 3.4 | 22 |
| 36 | Automatically detecting asymmetric running using time and frequency domain features **2015**, | | 7 |
| 35 | Automatic detection, extraction and analysis of unrestrained gait using a wearable sensor system. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 2034-7 | 0.9 | 2 |
| 34 | . *IEEE Internet of Things Journal*, **2015**, 2, 23-32 | 10.7 | 73 |
| 33 | A Multi-Modal 3D Capturing Platform for Learning and Preservation of Traditional Sports and Games **2015**, | | 3 |
| 32 | Automatic Activity Classification and Movement Assessment During a Sports Training Session Using Wearable Inertial Sensors **2014**, | | 41 |
| 31 | Comparison of discrete-point vs. dimensionality-reduction techniques for describing performance-related aspects of maximal vertical jumping. *Journal of Biomechanics*, **2014**, 47, 3012-7 | 2.9 | 41 |
| 30 | Clustering vertical ground reaction force curves produced during countermovement jumps. *Journal of Biomechanics*, **2014**, 47, 2385-90 | 2.9 | 9 |
| 29 | Letter to the editor regarding "Application of principal component analysis in clinical gait research" by Federolf and colleagues. *Journal of Biomechanics*, **2014**, 47, 1554-5 | 2.9 | |
| 28 | Analysis of characterizing phases on waveform: an application to vertical jumps. *Journal of Applied Biomechanics*, **2014**, 30, 316-21 | 1.2 | 25 |
| 27 | The variance needed to accurately describe jump height from vertical ground reaction force data. *Journal of Applied Biomechanics*, **2014**, 30, 732-6 | 1.2 | 7 |
| 26 | Biomechanical factors associated with time to complete a change of direction cutting maneuver. *Journal of Strength and Conditioning Research*, **2014**, 28, 2845-51 | 3.2 | 78 |
| 25 | **2014**, | | 8 |
| 24 | Kinect vs. Low-cost Inertial Sensing for Gesture Recognition. *Lecture Notes in Computer Science*, **2014**, 484-495 | 0.9 | 15 |
| 23 | A 4-week instructed minimalist running transition and gait-retraining changes plantar pressure and force. *Scandinavian Journal of Medicine and Science in Sports*, **2014**, 24, 964-73 | 4.6 | 38 |
| 22 | Which drop jump technique is most effective at enhancing countermovement jump ability, "countermovement" drop jump or "bounce" drop jump?. *Journal of Sports Sciences*, **2013**, 31, 1368-74 | 3.6 | 31 |
| 21 | An automatic visual analysis system for tennis. *Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology*, **2013**, 227, 273-288 | 0.7 | 4 |
| 20 | Simulation of the impact response of a sliotar core with linear and non-linear contact models. *International Journal of Impact Engineering*, **2012**, 50, 113-122 | 4 | 5 |

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| 19 | The need and benefit of augmented feedback on service speed in tennis. *Medicine and Science in Sports and Exercise*, **2012**, 44, 754-60 | 1.2 | 18 |
| 18 | Viscoelastic impact characterisation of solid sports balls used in the Irish sport of Hurling. *Sports Engineering*, **2011**, 14, 15-25 | 1.4 | 6 |
| 17 | Analysis of the 5 iron golf swing when hitting for maximum distance. *Journal of Sports Sciences*, **2011**, 29, 1079-88 | 3.6 | 29 |
| 16 | The influence of reduced hamstring length on patellofemoral joint stress during squatting in healthy male adults. *Gait and Posture*, **2010**, 31, 47-51 | 2.6 | 31 |
| 15 | A comparison of methods used to identify Roptimal Rdrop height for early phase adaptations in depth jump training. *Journal of Strength and Conditioning Research*, **2010**, 24, 2050-5 | 3.2 | 32 |
| 14 | A virtual coaching environment for improving golf swing technique **2010**, | | 25 |
| 13 | The dynamic viscoelastic characterisation of the impact behaviour of the GAA sliotar. *Procedia Engineering*, **2010**, 2, 2991-2997 | | 7 |
| 12 | Dynamic stretching and golf swing performance. *International Journal of Sports Medicine*, **2009**, 30, 113-8 | 3.6 | 31 |
| 11 | Effects of taping and exercise on ankle joint movement in subjects with chronic ankle instability: a preliminary investigation. *Archives of Physical Medicine and Rehabilitation*, **2009**, 90, 1418-22 | 2.8 | 32 |
| 10 | Does endurance fatigue increase the risk of injury when performing drop jumps?. *Journal of Strength and Conditioning Research*, **2009**, 23, 1448-55 | 3.2 | 6 |
| 9 | Influence of resistance load on neuromuscular response to vibration training. *Journal of Strength and Conditioning Research*, **2009**, 23, 420-6 | 3.2 | 9 |
| 8 | A General-Purpose Taxonomy of Computer-Augmented Sports Systems **2009**, 19-35 | | 2 |
| 7 | Gait pattern categorization of stroke participants with equinus deformity of the foot. *Gait and Posture*, **2008**, 27, 144-51 | 2.6 | 55 |
| 6 | Effect of vibration training on neuromuscular output with ballistic knee extensions. *Journal of Sports Sciences*, **2008**, 26, 1365-73 | 3.6 | 8 |
| 5 | Eccentric loading and range of knee joint motion effects on performance enhancement in vertical jumping. *Human Movement Science*, **2007**, 26, 824-40 | 2.4 | 59 |
| 4 | Effect of vibration training in maximal effort (70% 1RM) dynamic bicep curls. *Medicine and Science in Sports and Exercise*, **2007**, 39, 526-33 | 1.2 | 27 |
| 3 | Effect of fatigue on tibial impact accelerations and knee kinematics in drop jumps. *Medicine and Science in Sports and Exercise*, **2006**, 38, 1836-42 | 1.2 | 45 |
| 2 | The use of vibration training to enhance muscle strength and power. *Sports Medicine*, **2005**, 35, 23-41 | 10.6 | 193 |

1 A portable vibrator for muscle performance enhancement by means of direct muscle tendon stimulation. *Medical Engineering and Physics*, **2005**, 27, 513-22 2.4 21