

Karen J Reynolds

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6354421/publications.pdf>

Version: 2024-02-01

83
papers

1,405
citations

331259

21
h-index

377514

34
g-index

84
all docs

84
docs citations

84
times ranked

1791
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationships between tibial articular cartilage, <i>in vivo</i> external joint moments and static alignment in end-stage knee osteoarthritis: A micro-CT study. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1125-1134.	1.2	2
2	Developing a fluorescent sensing based portable medical open-platform - a case study for albuminuria measurement in chronic kidney disease screening and monitoring. <i>Sensing and Bio-Sensing Research</i> , 2022, 37, 100504.	2.2	8
3	Tibial cartilage, subchondral bone plate and trabecular bone microarchitecture in varus and valgus osteoarthritis versus controls. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1988-1999.	1.2	10
4	A Wearable Ballistocardiography Device for Estimating Heart Rate During Positive Airway Pressure Therapy: Investigational Study Among the General Population. <i>JMIR Cardio</i> , 2021, 5, e26259.	0.7	2
5	Optical-Based Biosensors and Their Portable Healthcare Devices for Detecting and Monitoring Biomarkers in Body Fluids. <i>Diagnostics</i> , 2021, 11, 1285.	1.3	12
6	Exaggerated ventilatory drive estimates from epiglottic and esophageal pressure deflections in the presence of airway occlusion. <i>Journal of Applied Physiology</i> , 2021, 131, 760-767.	1.2	4
7	Preliminary Analysis of a Wireless and Wearable Electronic-Textile EASI-Based Electrocardiogram. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 806726.	1.1	1
8	The relationship between tibiofemoral geometry and musculoskeletal function during normal activity. <i>Gait and Posture</i> , 2020, 80, 374-382.	0.6	14
9	Detection of biomarkers in body fluids using bioprobes based on aggregation-induced emission fluorogens. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2548-2570.	3.2	27
10	Dermal thickness and echogenicity using DermaScan C high frequency ultrasound: Methodology and reliability testing in people with and without primary lymphoedema. <i>Skin Research and Technology</i> , 2020, 26, 813-823.	0.8	5
11	Safety and Clinical Outcomes of Hospital in the Home. <i>Journal of Patient Safety</i> , 2020, 16, 123-129.	0.7	6
12	Automated Computational Diagnosis of Peripheral Retinal Pathology in Optical Coherence Tomography (OCT) Scans using Graph Theory. , 2020, , .		1
13	Quantification of human bone microarchitecture damage in press-fit femoral knee implantation using HR-pQCT and digital volume correlation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 97, 278-287.	1.5	28
14	Flow rate accuracy of ambulatory elastomeric and electronic infusion pumps when exposed to height and back pressures experienced during home infusion therapy. <i>Expert Review of Medical Devices</i> , 2019, 16, 735-742.	1.4	6
15	The correlation between optical coherence tomography retinal shape irregularity and axial length. <i>PLoS ONE</i> , 2019, 14, e0227207.	1.1	8
16	Electronic textile-based electrocardiogram monitoring in cardiac patients: a scoping review. <i>JB I Database of Systematic Reviews and Implementation Reports</i> , 2019, 17, 1958-1998.	1.7	11
17	Electronic textile electrocardiogram monitoring in cardiac patients. <i>JB I Database of Systematic Reviews and Implementation Reports</i> , 2019, 17, 147-156.	1.7	12
18	Personalised 3D knee compliance from clinically viable knee laxity measurements: A proof of concept ex vivo experiment. <i>Medical Engineering and Physics</i> , 2019, 64, 80-85.	0.8	4

#	ARTICLE	IF	CITATIONS
19	Evaluation of the Quality of Sterile Compounding Videos Available on the YouTube Video-sharing Website. <i>International Journal of Pharmaceutical Compounding</i> , 2019, 23, 238-244.	0.0	0
20	Relationships between in vivo dynamic knee joint loading, static alignment and tibial subchondral bone microarchitecture in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 547-556.	0.6	25
21	Discrete tomography in an in vivo small animal bone study. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 40-53.	1.3	5
22	A Modified Mask for Continuous Cardiac Monitoring during Positive Airway Pressure Therapy. , 2018, 2018, 4363-4366.		3
23	Safety and effectiveness of in-hospital in the home and outpatient parenteral antimicrobial therapy in different age groups: A systematic review of observational studies. <i>International Journal of Clinical Practice</i> , 2018, 72, e13216.	0.8	25
24	Quantifying shape changes of silicone breast implants in a murine model using in vivo microCT. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1447-1452.	1.6	1
25	Systematic mapping of the subchondral bone 3D microarchitecture in the human tibial plateau: Variations with joint alignment. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1927-1941.	1.2	30
26	Joint loading and proximal tibia subchondral trabecular bone microarchitecture differ with walking gait patterns in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1623-1632.	0.6	14
27	Automated Bone Screw Tightening to Adaptive Levels of Stripping Torque. <i>Journal of Orthopaedic Trauma</i> , 2017, 31, 321-325.	0.7	10
28	Protocol for a randomised crossover trial to evaluate patient and nurse satisfaction with electronic and elastomeric portable infusion pumps for the continuous administration of antibiotic therapy in the home: the Comparing Home Infusion Devices (CHID) study. <i>BMJ Open</i> , 2017, 7, e016763.	0.8	10
29	Temperature variation in the home setting: implications for continuous ambulatory infusions. <i>Journal of Pharmacy Practice and Research</i> , 2017, 47, 431-437.	0.5	3
30	A wearable device for monitoring patients during PAP therapy. , 2017, , .		3
31	Comparing surgical experience with performance on a sinus surgery simulator. <i>ANZ Journal of Surgery</i> , 2016, 86, 990-995.	0.3	10
32	Estimation of heart rate during sleep measured from a gyroscope embedded in a CPAP mask. , 2016, , .		7
33	The Use of Computerised Simulation for the Training of Endoscopic Sinus Surgery. <i>Current Otorhinolaryngology Reports</i> , 2016, 4, 276-279.	0.2	0
34	A systematic mapping of tibial plateau bone microarchitecture in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S248-S249.	0.6	0
35	Time-elapsd screw insertion with microCT imaging. <i>Journal of Biomechanics</i> , 2016, 49, 295-301.	0.9	10
36	Turn-of-the-Nut Method Is Not Appropriate for Use in Cancellous Bone. <i>Journal of Orthopaedic Trauma</i> , 2015, 29, e437-e441.	0.7	6

#	ARTICLE	IF	CITATIONS
37	Regional Heterogeneity in the Configuration of the Intracortical Canals of the Femoral Shaft. <i>Calcified Tissue International</i> , 2015, 97, 327-335.	1.5	32
38	Real-time interactive isosurfacing: a new method for improving marching isosurfacing algorithm output and efficiency. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 213-220.	0.9	2
39	Can short-term heart rate variability be used to monitor fentanylâ€“midazolam induced changes in ANS preceding respiratory depression?. <i>Journal of Clinical Monitoring and Computing</i> , 2015, 29, 393-405.	0.7	7
40	A Detachable Electronic Device for Use With a Long White Cane to Assist With Mobility. <i>Assistive Technology</i> , 2014, 26, 219-226.	1.2	21
41	Edge concealment in a combined surface mesh and scalar-field tissue model for surgical simulations. <i>Simulation</i> , 2014, 90, 216-223.	1.1	2
42	Airflow resistance and CO2 rebreathing properties of anti-asphyxia pillows designed for epilepsy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2014, 23, 462-467.	0.9	15
43	Does cancellous screw insertion torque depend on bone mineral density and/or microarchitecture?. <i>Journal of Biomechanics</i> , 2014, 47, 347-353.	0.9	25
44	Hapteo: Sharing visual-haptic experiences from virtual environments. , 2014, , .		1
45	Subregional DXA-Derived Vertebral Bone Mineral Measures are Stronger Predictors of Failure Load in Specimens with Lower Areal Bone Mineral Density, Compared to Those with Higher Areal Bone Mineral Density. <i>Calcified Tissue International</i> , 2014, 95, 97-107.	1.5	4
46	Early Airway Structural Changes in Cystic Fibrosis Pigs as a Determinant of Particle Distribution and Deposition. <i>Annals of Biomedical Engineering</i> , 2014, 42, 915-927.	1.3	23
47	Pullout strength of cancellous screws in human femoral heads depends on applied insertion torque, trabecular bone microarchitecture and areal bone mineral density. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 354-361.	1.5	20
48	Application of the digital volume correlation technique for the measurement of displacement and strain fields in bone: A literature review. <i>Journal of Biomechanics</i> , 2014, 47, 923-934.	0.9	122
49	The effect of variability in body segment parameters on joint moment using Monte Carlo simulations. <i>Gait and Posture</i> , 2014, 39, 346-353.	0.6	14
50	Heart rate variability indices for very short-term (30 beat) analysis. Part 1: survey and toolbox. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 569-576.	0.7	48
51	Predicting cancellous bone failure during screw insertion. <i>Journal of Biomechanics</i> , 2013, 46, 1207-1210.	0.9	23
52	Heart rate variability indices for very short-term (30 beat) analysis. Part 2: validation. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 577-585.	0.7	42
53	Usability of Tablet Computers by People with Early-Stage Dementia. <i>Gerontology</i> , 2013, 59, 174-182.	1.4	89
54	Virtual reality surgical simulator software development tools. <i>Journal of Simulation</i> , 2013, 7, 101-108.	1.0	9

#	ARTICLE	IF	CITATIONS
55	Toward Photorealism in Endoscopic Sinus Surgery Simulation. American Journal of Rhinology and Allergy, 2013, 27, 138-143.	1.0	27
56	Virtual Reality Grocery Shopping Simulator: Development and Usability in Neurological Rehabilitation. Presence: Teleoperators and Virtual Environments, 2012, 21, 183-191.	0.3	10
57	A model for the change of cancellous bone volume and structure over time. Mathematical Biosciences, 2012, 240, 132-140.	0.9	5
58	Micro-CT examination of human bone: from biopsies towards the entire organ. Annali Dell'Istituto Superiore Di Sanita, 2012, 48, 75-82.	0.2	32
59	Detecting early bone changes using in vivo micro-CT in ovariectomized, zoledronic acid-treated, and sham-operated rats. Osteoporosis International, 2010, 21, 1371-1382.	1.3	61
60	Medical devices: partnering for success. Australasian Physical and Engineering Sciences in Medicine, 2009, 32, xi-xii.	1.4	0
61	Vessel calibre and haemoglobin effects on pulse oximetry. Physiological Measurement, 2009, 30, 869-883.	1.2	10
62	Developing a national research and development centre in assistive technologies for independent living. Australian Health Review, 2009, 33, 152.	0.5	8
63	Customization of a generic 3D model of the distal femur using diagnostic radiographs. Journal of Medical Engineering and Technology, 2008, 32, 156-161.	0.8	10
64	Effect of Screw Torque Level on Cortical Bone Pullout Strength. Journal of Orthopaedic Trauma, 2007, 21, 117-123.	0.7	73
65	Correlated Poincaré indices for measuring heart rate variability. Australasian Physical and Engineering Sciences in Medicine, 2007, 30, 336-41.	1.4	7
66	The comparison of different feed forward neural network architectures for ECG signal diagnosis. Medical Engineering and Physics, 2006, 28, 372-378.	0.8	112
67	Development and validation of a generic 3D model of the distal femur. Computer Methods in Biomechanics and Biomedical Engineering, 2006, 9, 305-312.	0.9	13
68	A new versatile hand dynamometer. Australasian Physical and Engineering Sciences in Medicine, 2006, 29, 53-6.	1.4	0
69	Noninvasive detection of bilirubin using pulsatile absorption. Australasian Physical and Engineering Sciences in Medicine, 2006, 29, 78-83.	1.4	3
70	EyeSim—an ophthalmic response simulator. Australasian Physical and Engineering Sciences in Medicine, 2006, 29, 84-7.	1.4	0
71	Survey of Poincaré indices for measuring heart rate variability. Australasian Physical and Engineering Sciences in Medicine, 2006, 29, 97-101.	1.4	2
72	Three-dimensional reconstructed MRI of an acrylic meniscal cartilage phantom: The effect of acquisition slice thickness upon accuracy of volume measurement. Radiographer, 2004, 51, 77-80.	0.1	2

#	ARTICLE	IF	CITATIONS
73	The influence of slice thickness on the volume measurement accuracy of 3-D MR reconstructions of acrylic phantoms: a precursor to knee imaging. <i>Radiography</i> , 2004, 10, 277-285.	1.1	7
74	Dimensional measurement of structural features of the ovine knee using three-dimensional reconstructed imaging: intra- and inter-observer repeatability. <i>Radiography</i> , 2004, 10, 269-276.	1.1	3
75	Reducing power line interference in digitised electromyogram recordings by spectrum interpolation. <i>Medical and Biological Engineering and Computing</i> , 2004, 42, 524-531.	1.6	67
76	The effect of base image window level selection on the dimensional measurement accuracy of resultant three-dimensional image displays. <i>Radiography</i> , 2003, 9, 211-218.	1.1	3
77	Functional Evaluation of Pulse Oximeter Simulators. <i>Journal of Clinical Engineering</i> , 2003, 28, 174-182.	0.1	0
78	Technological Review of Pulse Oximeter Simulators. <i>Journal of Clinical Engineering</i> , 2002, 27, 287-297.	0.1	5
79	Learning to apply effective cricoid pressure using a part task trainer. <i>Anaesthesia</i> , 2002, 57, 1098-1101.	1.8	51
80	The accuracy of three-dimensional reconstructions of the ovine knee: dissectional validation. <i>Computerized Medical Imaging and Graphics</i> , 2002, 26, 171-175.	3.5	12
81	Acoustic analysis of the closing sounds of implanted prosthetic heart valves. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 69-77.	0.5	11
82	Detection of mechanical changes to prosthetic heart valves by spectral analysis of valve closing sounds. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 60-68.	0.5	9
83	The effect of dyshemoglobins on pulse oximetry: Part I, theoretical approach and part II, experimental results using an in vitro test system. <i>Journal of Clinical Monitoring and Computing</i> , 1993, 9, 81-90.	0.6	40