List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6657862/publications.pdf Version: 2024-02-01



Ερίς Α Νλιιμάνι

#	Article	IF	CITATIONS
1	A preliminary model of football-related neural stress that integrates metabolomics with transcriptomics and virtual reality. IScience, 2022, 25, 103483.	1.9	2
2	Normalized Brain Tissue–Level Evaluation of Volumetric Changes of Youth Athletes Participating in Collision Sports. Neurotrauma Reports, 2022, 3, 57-69.	0.5	4
3	An EMG-Based Constitutive Law for Force Generation in Skeletal Muscle - Part I: Model Development. Journal of Biomechanical Engineering, 2022, , .	0.6	1
4	Metabolomic response to collegiate football participation: Pre- and Post-season analysis. Scientific Reports, 2022, 12, 3091.	1.6	4
5	An EMG-Based Constitutive Law for Force Generation in Skeletal Muscle - Part II: Model Validation On the Ankle Joint Complex. Journal of Biomechanical Engineering, 2022, , .	0.6	Ο
6	American Football Position-Specific Neurometabolic Changes in High School Athletes: A Magnetic Resonance Spectroscopic Study. Journal of Neurotrauma, 2022, 39, 1168-1182.	1.7	4
7	Multimodal Approaches to Preventing Asymptomatic Repetitive Head Injury in Adolescent Athletes. , 2021, , 333-355.		Ο
8	Development of brain atlases for early-to-middle adolescent collision-sport athletes. Scientific Reports, 2021, 11, 6440.	1.6	1
9	Evaluation of the Effectiveness of Newer Helmet Designs with Emergent Shell and Padding Technologies Versus Older Helmet Models for Preserving White Matter Following a Season of High School Football. Annals of Biomedical Engineering, 2021, 49, 2863-2874.	1.3	8
10	In vivo intervertebral disc deformation: intratissue strain patterns within adjacent discs during flexion–extension. Scientific Reports, 2021, 11, 729.	1.6	14
11	Distribution of Head Acceleration Events Varies by Position and Play Type in North American Football. Clinical Journal of Sport Medicine, 2021, 31, e245-e250.	0.9	12
12	Head acceleration event metrics in youth contact sports more dependent on sport than level of play. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 208-221.	1.0	5
13	311â€Heading a soccer ball and the characterization of parameters that influence its peak impact force. , 2021, , .		Ο
14	Accumulation of high magnitude acceleration events predicts cerebrovascular reactivity changes in female high school soccer athletes. Brain Imaging and Behavior, 2020, 14, 164-174.	1.1	28
15	Collagen Coating Effects on Fe–Mn Bioresorbable Alloys. Journal of Orthopaedic Research, 2020, 38, 523-535.	1.2	12
16	The effects of loading-direction and strain-rate on the mechanical behaviors of human frontal skull bone. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103597.	1.5	16
17	Characterizing <scp>nearâ€infrared</scp> spectroscopy signal under hypercapnia. Journal of Biophotonics, 2020, 13, e202000173.	1.1	5
18	The Effect of Increasing Fracture Site Stiffness on Bone–Pin Interface Stress and Foot Contact Pressure within the Equine Distal Limb Transfixation Cast: A Finite Element Analysis. Veterinary and Comparative Orthopaedics and Traumatology, 2020, 33, 348-355.	0.2	0

#	Article	IF	CITATIONS
19	Finite deformation elastography of articular cartilage and biomaterials based on imaging and topology optimization. Scientific Reports, 2020, 10, 7980.	1.6	7
20	Mitigating the Consequences of Subconcussive Head Injuries. Annual Review of Biomedical Engineering, 2020, 22, 387-407.	5.7	13
21	Finite Element Analysis of Six Transcortical Pin Parameters and Their Effect on Bone–Pin Interface Stresses in the Equine Third Metacarpal Bone. Veterinary and Comparative Orthopaedics and Traumatology, 2020, 33, 121-129.	0.2	1
22	Brain Perfusion Mediates the Relationship Between miRNA Levels and Postural Control. Cerebral Cortex Communications, 2020, 1, tgaa078.	0.7	5
23	Evaluation of Impulse Attenuation by Football Helmets in the Frequency Domain. Journal of Biomechanical Engineering, 2020, 142, .	0.6	1
24	Factors affecting peak impact force during soccer headers and implications for the mitigation of head injuries. PLoS ONE, 2020, 15, e0240162.	1.1	10
25	Dependence on subconcussive impacts of brain metabolism in collision sport athletes: an MR spectroscopic study. Brain Imaging and Behavior, 2019, 13, 735-749.	1.1	42
26	Every hit matters: White matter diffusivity changes in high school football athletes are correlated with repetitive head acceleration event exposure. NeuroImage: Clinical, 2019, 24, 101930.	1.4	27
27	Impact attenuation of male and female lacrosse helmets using a modal impulse hammer. Journal of Biomechanics, 2019, 95, 109313.	0.9	8
28	Quantitative evaluation of impact attenuation by football helmets using a modal impulse hammer. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, 233, 301-311.	0.4	4
29	Investigation of porosity on mechanical properties, degradation and in-vitro cytotoxicity limit of Fe30Mn using space holder technique. Materials Science and Engineering C, 2019, 99, 1048-1057.	3.8	31
30	Mechanical Response of Human Muscle at Intermediate Strain Rates. Journal of Biomechanical Engineering, 2019, 141, .	0.6	2
31	KIAA0319 Genotype Predicts the Number of Past Concussions in a Division I Football Team: A Pilot Study. Journal of Neurotrauma, 2019, 36, 1115-1124.	1.7	7
32	Subconcussive trauma. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 158, 245-255.	1.0	9
33	The effect of football helmet facemasks on impact behavior during linear drop tests. Journal of Biomechanics, 2018, 79, 227-231.	0.9	12
34	Functional MRI can detect changes in intratissue strains in a full thickness and critical sized ovine cartilage defect model. Journal of Biomechanics, 2018, 66, 18-25.	0.9	16
35	Cerebrovascular reactivity changes in asymptomatic female athletes attributable to high school soccer participation. Brain Imaging and Behavior, 2017, 11, 98-112.	1.1	72
36	Contributing Causes of Injury or Death in Grain Entrapment, Engulfment, and Extrication. Journal of Agromedicine, 2017, 22, 159-169.	0.9	9

#	Article	IF	CITATIONS
37	Bioresorbable Fe–Mn and Fe–Mn–HA Materials for Orthopedic Implantation: Enhancing Degradation through Porosity Control. Advanced Healthcare Materials, 2017, 6, 1700120.	3.9	33
38	The Ability of an Aftermarket Helmet Add-On Device to Reduce Impact-Force Accelerations During Drop Tests. Journal of Athletic Training, 2017, 52, 802-808.	0.9	20
39	Reliability and accuracy of helmet-mounted and head-mounted devices used to measure head accelerations. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2017, 231, 144-153.	0.4	30
40	Nanoporous metals for biodegradable implants: Initial bone mesenchymal stem cell adhesion and degradation behavior. Journal of Biomedical Materials Research - Part A, 2016, 104, 1747-1758.	2.1	19
41	In vivo articular cartilage deformation: noninvasive quantification of intratissue strain during joint contact in the human knee. Scientific Reports, 2016, 6, 19220.	1.6	105
42	Impact attenuation capabilities of football and lacrosse helmets. Journal of Biomechanics, 2016, 49, 2838-2844.	0.9	22
43	fMRI of Visual Working Memory in High School Football Players. Developmental Neuropsychology, 2015, 40, 63-68.	1.0	22
44	Post-Season Neurophysiological Deficits Assessed by ImPACT and fMRI in Athletes Competing in American Football. Developmental Neuropsychology, 2015, 40, 85-91.	1.0	39
45	Sub-Concussive Hit Characteristics Predict Deviant Brain Metabolism in Football Athletes. Developmental Neuropsychology, 2015, 40, 12-17.	1.0	63
46	The Role of Location of Subconcussive Head Impacts in fMRI Brain Activation Change. Developmental Neuropsychology, 2015, 40, 74-79.	1.0	31
47	Impact attenuation properties of new and used lacrosse helmets. Journal of Biomechanics, 2015, 48, 3782-3787.	0.9	15
48	Alteration of Default Mode Network in High School Football Athletes Due to Repetitive Subconcussive Mild Traumatic Brain Injury: A Resting-State Functional Magnetic Resonance Imaging Study. Brain Connectivity, 2015, 5, 91-101.	0.8	173
49	Effects of Repetitive Sub-Concussive Brain Injury on the Functional Connectivity of Default Mode Network in High School Football Athletes. Developmental Neuropsychology, 2015, 40, 51-56.	1.0	69
50	Collegiate women's soccer players suffer greater cumulative head impacts than their high school counterparts. Journal of Biomechanics, 2015, 48, 3720-3723.	0.9	122
51	The Role of Medical Imaging in the Recharacterization of Mild Traumatic Brain Injury Using Youth Sports as a Laboratory. Frontiers in Neurology, 2015, 6, 273.	1.1	35
52	Detecting Neurocognitive and Neurophysiological Changes as a Result of Subconcussive Blows Among High School Football Athletes. Athletic Training & Sports Health Care, 2014, 6, 119-127.	0.4	43
53	Biological variability in biomechanical engineering research: Significance and meta-analysis of current modeling practices. Journal of Biomechanics, 2014, 47, 1241-1250.	0.9	28
54	Functionally-Detected Cognitive Impairment in High School Football Players without Clinically-Diagnosed Concussion. Journal of Neurotrauma, 2014, 31, 327-338.	1.7	489

#	Article	IF	CITATIONS
55	MR Spectroscopic Evidence of Brain Injury in the Non-Diagnosed Collision Sport Athlete. Developmental Neuropsychology, 2014, 39, 459-473.	1.0	75
56	Comparison of intervertebral disc displacements measured under applied loading with MRI at 3.0T and 9.4T. Journal of Biomechanics, 2014, 47, 2801-2806.	0.9	11
57	Characterization of cancellous and cortical bone strain in the in vivo mouse tibial loading model using microCT-based finite element analysis. Bone, 2014, 66, 131-139.	1.4	84
58	Role of subconcussion in repetitive mild traumatic brain injury. Journal of Neurosurgery, 2013, 119, 1235-1245.	0.9	424
59	A biomechanical analysis of finger joint forces and stresses developed during common daily activities. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 131-140.	0.9	24
60	Biomechanical correlates of symptomatic and asymptomatic neurophysiological impairment in high school football. Journal of Biomechanics, 2012, 45, 1265-1272.	0.9	240
61	Cold-Drawn Bioabsorbable Ferrous and Ferrous Composite Wires: An Evaluation of Mechanical Strength and Fatigue Durability. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 984-994.	1.0	26
62	Development of Subject-Specific Geometric Spine Model through Use of Automated Active Contour Segmentation and Kinematic Constraint-Limited Registration. Journal of Digital Imaging, 2011, 24, 926-942.	1.6	2
63	Contribution of Cytoskeletal Elements to the Mechanical Property of Axons. , 2010, , .		1
64	Novel Quantitative Biosystem for Modeling Physiological Fluid Shear Stress on Cells. Applied and Environmental Microbiology, 2007, 73, 699-705.	1.4	60
65	Development and characterization of a porous poly(methyl methacrylate) scaffold with controllable modulus and permeability. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 360-369.	1.6	49
66	Development of Ligament-Like Structural Organization and Properties in Cell-Seeded Collagen Scaffolds in vitro. Annals of Biomedical Engineering, 2006, 34, 726-736.	1.3	72
67	Effect of porosity on the fluid flow characteristics and mechanical properties of tantalum scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 73B, 315-324.	1.6	168
68	The relationship between bone mineral density and biomechanics in patients with osteoporosis and scoliosis. Osteoporosis International, 2005, 16, 1857-1863.	1.3	22
69	Biomedical Engineering Advancements after Management of Myelomeningocele Study (MOMS): A Narrative Review. International Journal of Medical Students, 0, , .	0.2	1