

Kurosh K Darvish

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5589801/publications.pdf>

Version: 2024-02-01

64
papers

1,026
citations

471061

17
h-index

433756

31
g-index

64
all docs

64
docs citations

64
times ranked

1175
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Destructive Spectroscopic Assessment of High and Low Weight Bearing Articular Cartilage Correlates with Mechanical Properties. <i>Cartilage</i> , 2019, 10, 480-490.	1.4	9
2	Brain Tissue Material and Damage Properties for Blast Trauma. , 2018, , .		0
3	Broach Handle Design Changes Force Distribution in the Femur During Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , 2017, 32, 2017-2022.	1.5	18
4	Mechanical behavior of porcine thoracic aorta in physiological and supra-physiological intraluminal pressures. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 326-336.	1.0	1
5	Interosseous Ligament and Transverse Forearm Stability: A Biomechanical Cadaver Study. <i>Journal of Hand Surgery</i> , 2017, 42, 87-95.	0.7	6
6	Investigation of inhomogeneous and anisotropic material behavior of porcine thoracic aorta using nano-indentation tests. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 50-56.	1.5	14
7	Simulation and experimental studies in needle-tissue interactions. <i>Journal of Clinical Monitoring and Computing</i> , 2017, 31, 861-872.	0.7	23
8	Association of Football Subconcussive Head Impacts With Ocular Near Point of Convergence. <i>JAMA Ophthalmology</i> , 2016, 134, 763.	1.4	83
9	Characterization of the viscoelastic behavior of a simplified collagen micro-fibril based on molecular dynamics simulations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 63, 26-34.	1.5	19
10	Mechanical Instability of Aorta due to Intraluminal Pressure. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650002.	1.3	4
11	Computational simulation of the mechanical response of brain tissue under blast loading. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 459-472.	1.4	16
12	Investigation of mechanisms of viscoelastic behavior of collagen molecule. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 51, 194-204.	1.5	19
13	Correlations between transmural mechanical and morphological properties in porcine thoracic descending aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 47, 12-20.	1.5	12
14	Use of High-Speed X ray and Video to Analyze Distal Radius Fracture Pathomechanics. <i>Orthopedic Clinics of North America</i> , 2015, 46, 571-576.	0.5	4
15	Comparison of crossed screw versus plate fixation for radial neck fractures. <i>Clinical Biomechanics</i> , 2015, 30, 966-970.	0.5	13
16	Visual conflict and cognitive load modify postural responses to vibrotactile noise. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 6.	2.4	15
17	Polyacrylamide phantom for self-actuating needle-tissue interaction studies. <i>Medical Engineering and Physics</i> , 2014, 36, 140-145.	0.8	36
18	Mechanical response of brain tissue under blast loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 32, 132-144.	1.5	20

#	ARTICLE	IF	CITATIONS
19	Biomechanical comparison of locked plating and spiral blade retrograde nailing of supracondylar femur fractures. <i>Injury</i> , 2013, 44, 1340-1345.	0.7	19
20	Theoretical Study of Dynamic Viscoelastic Behaviour of Aorta under Impulsive Internal Pressure. , 2013, , .		0
21	Head Stabilization Shows Visual and Inertial Dependence During Passive Stimulation: Implications for Virtual Rehabilitation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 191-197.	2.7	9
22	Biomechanical Properties of Human Aorta from Dynamic Biaxial Loading. , 2013, , .		0
23	Computational Simulation of Shock Tube and the Effect of Shock Thickness on Strain-Rates. , 2013, , .		3
24	Cerebral Blood Pressure Rise During Blast Exposure in a Rat Model of Blast-Induced Traumatic Brain Injury. , 2013, , .		4
25	Computational Comparison of Shock Wave Propagation in Explosive Blast and Shock Tube Experiments. , 2013, , .		0
26	Investigating the effects of dynamic and static loading on the stability of porcine aorta. , 2012, , .		0
27	Investigating the hyperelasticity of porcine aorta under sub-failure loading. , 2012, , .		2
28	Hyperelastic Behavior of Porcine Aorta in Sub-Injury Pressures. , 2012, , .		0
29	Mechanical characterization of Polyacrylamide for Prostate Tissue-Mimicking Phantoms. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012, 6, .	0.4	1
30	Buckling of Porcine Aorta Under Static and Dynamic Loading. , 2012, , .		0
31	Supracondylar femoral fracture fixation: Locked plating versus retrograde nailing. , 2012, , .		0
32	A novel curvilinear approach for prostate seed implantation. <i>Medical Physics</i> , 2012, 39, 1887-1892.	1.6	48
33	Constitutive model for brain tissue under finite compression. <i>Journal of Biomechanics</i> , 2012, 45, 642-646.	0.9	100
34	Multilayer material properties of aorta determined from nanoindentation tests. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 15, 199-207.	1.5	34
35	Locked Plating Versus Spiral Blade Retrograde Nailing in Supracondylar Femoral Fractures. , 2012, , .		0
36	Characterization of Changes to the Mechanical Properties of Arteries due to Cold Storage Using Nanoindentation Tests. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1434-1442.	1.3	28

#	ARTICLE	IF	CITATIONS
37	Biomechanical analysis of second-generation headless compression screws. <i>Injury</i> , 2012, 43, 1159-1165.	0.7	56
38	Towards a Nitinol Actuator for an Active Surgical Needle. , 2012, , .		13
39	Electro Thermomechanical Behavior of a Smart Actuator for an Active Surgical Needle. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012, 6, .	0.4	1
40	Characterization of Multilayer Material Properties of Descending Aorta. , 2012, , .		0
41	Head stabilization shows multisensory dependence on spatiotemporal characteristics of visual and inertial passive stimulation. , 2011, , .		2
42	A Biomechanical Study of Scaphoid Headless Screws. , 2011, , .		0
43	Smart Needling System for Fully Conformal Radiation Dose Delivery in Treating Prostate Cancer. , 2011, , .		0
44	Shock Wave as a Mechanism of Injury in Soft Tissues. , 2011, , .		0
45	Material Properties of Aorta From Nanoindentation Tests. , 2011, , .		0
46	Viscoelastic Properties of Aorta From Oscillatory Pressure Tests. , 2011, , .		0
47	Smart Needling System for Fully Conformal Radiation Dose Delivery in Treating Prostate Cancer. , 2010, , .		4
48	Pressure Oscillation Tests of Porcine Aorta. , 2010, , .		0
49	Development of an In Vitro Porcine Aorta Model to Study the Stability of Stent Grafts in Motor Vehicle Accidents. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 044505.	0.6	5
50	Finite Element Analysis and Validation of Brain Deformation in Linear Head Impact. , 2009, , .		0
51	Brain Deformation in Linear Head Impact. , 2009, , .		0
52	Comparison between the dynamic moduli of fully non-linear and quasilinear viscoelastic materials. <i>International Journal of Non-Linear Mechanics</i> , 2009, 44, 239-243.	1.4	0
53	Changes to the viscoelastic properties of brain tissue after traumatic axonal injury. <i>Journal of Biomechanics</i> , 2009, 42, 2136-2142.	0.9	37
54	Head-trunk coordination in subjects with two motor neuron diseases during linear anterior-posterior translations. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Viscoelastic Properties of Brain Tissue Under High-Rate Large Deformation. , 2009, , .		0
56	Multimodal Control of Orientation in Space. , 2009, , .		0
57	Experimental and Computational Analysis of Brain Deformations in Linear Head Impact. , 2008, , .		0
58	Sex Differences in Head Acceleration During Heading While Wearing Soccer Headgear. Journal of Athletic Training, 2008, 43, 578-584.	0.9	132
59	Development of Experimental and Computational Models to Evaluate the Stability of Aortic Stent Crafts in Motor Vehicle Accidents. , 2007, , 751.		1
60	P90. The biomechanical behavior of a rigidly instrumented three-level corpectomy construct under physiologic loads: a novel finite element model. Spine Journal, 2005, 5, S153-S154.	0.6	1
61	On the importance of nonlinearity of brain tissue under large deformations. Stapp Car Crash Journal, 2003, 47, 79-92.	1.1	43
62	Nonlinear viscoelastic effects in oscillatory shear deformation of brain tissue. Medical Engineering and Physics, 2001, 23, 633-645.	0.8	159
63	A Nonlinear Viscoelastic Model for Polyurethane Foams. , 0, , .		5
64	Development and Validation of a Finite Element Model for the Polar-II Upper Body. , 0, , .		7