Kamran Hassani

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7386975/publications.pdf

Version: 2024-02-01

54	589	687220 13	642610 23
papers	citations	h-index	g-index

56	56	56	554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A mathematical model for biomechanical behavior of the aortic arch. Perfusion (United Kingdom), 2023, 38, 1012-1018.	0.5	0
2	An investigation of cerebral bridging veins rupture due to head trauma. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 854-863.	0.9	4
3	Modeling of aortic valve stenosis using fluid-structure interaction method. Perfusion (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.5	4
4	A comparative finite element simulation of locking compression plate materials for tibial fracture treatment. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1064-1072.	0.9	7
5	A finite element study of fatigue load effects on total hip joint prosthesis. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1-7.	0.9	4
6	Fluidâ€“structure interaction analysis of alteration of the intraocular pressure on the optic nerve head in glaucoma. Journal of Optics (India), 2021, 50, 523-528.	0.8	0
7	A patient-specific finite element model of the smokerâ€™s lung during breathing. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 879-886.	1.4	1
8	Biomechanical role of posterior cruciate ligament in total knee arthroplasty: A finite element analysis. Computer Methods and Programs in Biomedicine, 2020, 183, 105109.	2.6	11
9	Shape optimization of a split-and-recombine micromixer by the local energy dissipation rate. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2020, 234, 243-251.	1.4	2
10	In silico investigation of sneezing in a full real human upper airway using computational fluid dynamics method. Computer Methods and Programs in Biomedicine, 2019, 177, 203-209.	2.6	25
11	Study of the sneezing effects on the real human upper airway using fluidâ€“structure interaction method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	13
12	Finite element analysis of fibre-reinforced constitutive formulation of Cadisc-L. Engineering Solid Mechanics, 2019, , 151-162.	0.6	1
13	A numerical analysis on different-generation prototypes of ventricular assist device. International Journal of Modeling, Simulation, and Scientific Computing, 2019, 10, 1950029.	0.9	0
14	Fluid-structure interaction assessment of blood flow hemodynamics and leaflet stress during mitral regurgitation. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 288-303.	0.9	7
15	Development of a fluid-structure interaction model to simulate mitral valve malcoaptation. Perfusion (United Kingdom), 2019, 34, 225-230.	0.5	5
16	A New Template and Teleoperation System for Humanâ€Guided Spine Surgery. Artificial Organs, 2019, 43, 424-434.	1.0	6
17	Performance analysis in delayed nonlinear bilateral teleoperation systems by force estimation algorithm. Transactions of the Institute of Measurement and Control, 2018, 40, 1637-1644.	1.1	3
18	Color spectrographic respiratory monitoring from the external ear canal. Clinical Science, 2018, 132, 2599-2607.	1.8	4

#	Article	IF	Citations
19	The effects of friction stir processing on the wear behavior of cast AZ91C magnesium alloy. International Journal of Materials Research, 2018, 109, 241-249.	0.1	1
20	Analysis of central venous pressure (CVP) signals using mathematical methods. Journal of Clinical Monitoring and Computing, 2017, 31, 607-616.	0.7	3
21	A low invasiveness patientâ€™s specific template for spine surgery. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 143-148.	1.0	4
22	A medium invasiveness multi-level patientâ€™s specific template for pedicle screw placement in the scoliosis surgery. BioMedical Engineering OnLine, 2017, 16, 130.	1.3	18
23	Numerical Modeling of the Red Blood Cell Motion/Deformation in the Capillary. IFMBE Proceedings, 2016, , 624-633.	0.2	0
24	An Intelligent Method for Breast Cancer Diagnosis Based on Fuzzy ART and Metaheuristic Optimization. IFMBE Proceedings, 2016, , 200-204.	0.2	3
25	Numerical investigation of the haemodynamics in the human fetal umbilical vein/ductus venosus based on the experimental data. Bioscience Reports, 2016, 36, .	1.1	4
26	A multi-channel acoustics monitor for perioperative respiratory monitoring: preliminary data. Journal of Clinical Monitoring and Computing, 2016, 30, 107-118.	0.7	10
27	MODELING OF SUPERIOR MESENTERIC ARTERY ANEURYSM USING FLUIDâ€“STRUCTURE INTERACTION. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550005.	0.3	1
28	MODELING OF ILIAC ARTERY ANEURYSM USING FLUIDâ€“STRUCTURE INTERACTION. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550041.	0.3	5
29	Carbon/PEEK composite materials as an alternative for stainless steel/titanium hip prosthesis: a finite element study. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 569-580.	1.4	21
30	Detection and identification of S1 and S2 heart sounds using wavelet decomposition method. International Journal of Biomathematics, 2015, 08, 1550078.	1.5	4
31	A lumped parameter mathematical model to analyze the effects of tachycardia and bradycardia on the cardiovascular system. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2015, 28, 346-357.	1.2	30
32	Measurement of the circumferential mechanical properties of the umbilical vein: experimental and numerical analyses. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1418-1426.	0.9	38
33	STUDY OF PLAQUE VULNERABILITY IN CORONARY ARTERY USING MOONEYâ€“RIVLIN MODEL: A COMBINATION OF FINITE ELEMENT AND EXPERIMENTAL METHOD. Biomedical Engineering - Applications, Basis and Communications, 2014, 26, 1450013.	0.3	61
34	MODELING OF CORONARY ARTERY BALLOON-ANGIOPLASTY USING EQUIVALENT ELECTRICAL CIRCUIT. Biomedical Engineering - Applications, Basis and Communications, 2014, 26, 1450039.	0.3	5
35	MODELING THE HEART BEAT, CIRCLE OF WILLIS AND RELATED CEREBRAL STENOSIS USING AN EQUIVALENT ELECTRONIC CIRCUIT. Biomedical Engineering - Applications, Basis and Communications, 2014, 26, 1450052.	0.3	3
36	Heart sound segmentation based on homomorphic filtering. Perfusion (United Kingdom), 2014, 29, 351-359.	0.5	11

#	Article	IF	Citations
37	Combining numerical and clinical methods to assess aortic valve hemodynamics during exercise. Perfusion (United Kingdom), 2014, 29, 340-350.	0.5	9
38	Effect of exercise on blood flow through the aortic valve: a combined clinical and numerical study. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1821-1834.	0.9	16
39	Numerical method to measure velocity integration, stroke volume and cardiac output while rest: using 2D fluid-solid interaction model. Engineering Solid Mechanics, 2014, 2, 91-100.	0.6	1
40	Detection and identification of first and second heart sounds using empirical mode decomposition. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 976-987.	1.0	13
41	Estimation of maximum intraventricular pressure: a three-dimensional fluidâ€“structure interaction model. BioMedical Engineering OnLine, 2013, 12, 122.	1.3	7
42	A finite element investigation on plaque vulnerability in realistic healthy and atherosclerotic human coronary arteries. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 148-161.	1.0	79
43	THE EFFECTS OF IMPLANTING DIFFERENT STENTS ON THE BLOOD HEMODYNAMIC IN CORONARY ARTERIES. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1350056.	0.3	0
44	Modeling the Circle of Willis Using Electrical Analogy Method under both Normal and Pathological Circumstances. Journal of Biomedical Physics and Engineering, 2013, 3, 45-56.	0.5	6
45	COLOR SPECTROGRAPHIC PHONOCARDIOGRAPHY FOR THE DETECTION AND CHARACTERIZATION OF PEDIATRIC HEART MURMURS: A CASE SERIES. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 263-274.	0.3	0
46	Digital Subtraction Phonocardiography (DSP) applied to the detection and characterization of heart murmurs. BioMedical Engineering OnLine, 2011, 10, 109.	1.3	10
47	A color spectrographic phonocardiography (CSP) applied to the detection and characterization of heart murmurs: preliminary results. BioMedical Engineering OnLine, 2011, 10, 42.	1.3	18
48	MODELING OF ABDOMINAL AORTA ANEURYSM AND STUDY OF THE PATHOLOGY USING COMPUTATIONAL FLUID DYNAMICS METHOD. Biomedical Engineering - Applications, Basis and Communications, 2011, 23, 295-305.	0.3	2
49	Mathematical Modelling and Electrical Analog Equivalent of the Human Cardiovascular System. Cardiovascular Engineering (Dordrecht, Netherlands), 2010, 10, 45-51.	1.0	28
50	Mathematical modelling of intra-aortic balloon pump. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 567-576.	0.9	7
51	Simulation of Aorta Artery Aneurysms Using Active Electronic Circuit. American Journal of Applied Sciences, 2007, 4, 203-210.	0.1	4
52	Modeling of the aorta artery aneurysms and renal artery stenosis using cardiovascular electronic system. BioMedical Engineering OnLine, 2007, 6, 22.	1.3	27
53	SIMULATION OF THE CARDIOVASCULAR SYSTEM USING EQUIVALENT ELECTRONIC SYSTEM. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2006, 150, 105-112.	0.2	31
54	The role of the fiber ply configurations on the biomechanics of the hip prosthesis. International Journal of Modeling, Simulation, and Scientific Computing, 0, , .	0.9	0