

Kamran Hassani

List of Publications by Year in descending order

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687220

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56
all docs

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docs citations

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times ranked

554
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Mathematical Modelling and Electrical Analog Equivalent of the Human Cardiovascular System. Cardiovascular Engineering (Dordrecht, Netherlands), 2010, 10, 45-51.	1.0	28
7	Modeling of the aorta artery aneurysms and renal artery stenosis using cardiovascular electronic system. BioMedical Engineering OnLine, 2007, 6, 22.	1.3	27
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Heart sound segmentation based on homomorphic filtering. Perfusion (United Kingdom), 2014, 29, 351-359.	0.5	11
16	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
17	Digital Subtraction Phonocardiography (DSP) applied to the detection and characterization of heart murmurs. BioMedical Engineering OnLine, 2011, 10, 109.	1.3	10
18	A multi-channel acoustics monitor for perioperative respiratory monitoring: preliminary data. Journal of Clinical Monitoring and Computing, 2016, 30, 107-118.	0.7	10

#	ARTICLE	IF	CITATIONS
19	Combining numerical and clinical methods to assess aortic valve hemodynamics during exercise. <i>Perfusion (United Kingdom)</i> , 2014, 29, 340-350.	0.5	9
20	Mathematical modelling of intra-aortic balloon pump. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2010, 13, 567-576.	0.9	7
21	Estimation of maximum intraventricular pressure: a three-dimensional fluid-structure interaction model. <i>BioMedical Engineering OnLine</i> , 2013, 12, 122.	1.3	7
22	Fluid-structure interaction assessment of blood flow hemodynamics and leaflet stress during mitral regurgitation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 288-303.	0.9	7
23	A comparative finite element simulation of locking compression plate materials for tibial fracture treatment. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1064-1072.	0.9	7
24	A New Template and Teleoperation System for Human-Guided Spine Surgery. <i>Artificial Organs</i> , 2019, 43, 424-434.	1.0	6
25	Modeling the Circle of Willis Using Electrical Analogy Method under both Normal and Pathological Circumstances. <i>Journal of Biomedical Physics and Engineering</i> , 2013, 3, 45-56.	0.5	6
26	MODELING OF CORONARY ARTERY BALLOON-ANGIOPLASTY USING EQUIVALENT ELECTRICAL CIRCUIT. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2014, 26, 1450039.	0.3	5
27	MODELING OF ILIAC ARTERY ANEURYSM USING FLUID-STRUCTURE INTERACTION. <i>Journal of Mechanics in Medicine and Biology</i> , 2015, 15, 1550041.	0.3	5
28	Development of a fluid-structure interaction model to simulate mitral valve malcoaptation. <i>Perfusion (United Kingdom)</i> , 2019, 34, 225-230.	0.5	5
29	Simulation of Aorta Artery Aneurysms Using Active Electronic Circuit. <i>American Journal of Applied Sciences</i> , 2007, 4, 203-210.	0.1	4
30	Detection and identification of S1 and S2 heart sounds using wavelet decomposition method. <i>International Journal of Biomathematics</i> , 2015, 08, 1550078.	1.5	4
31	Numerical investigation of the haemodynamics in the human fetal umbilical vein/ductus venosus based on the experimental data. <i>Bioscience Reports</i> , 2016, 36, .	1.1	4
32	A low invasiveness patient-specific template for spine surgery. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 143-148.	1.0	4
33	Color spectrographic respiratory monitoring from the external ear canal. <i>Clinical Science</i> , 2018, 132, 2599-2607.	1.8	4
34	A finite element study of fatigue load effects on total hip joint prosthesis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1-7.	0.9	4
35	Modeling of aortic valve stenosis using fluid-structure interaction method. <i>Perfusion (United)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.5	4
36	An investigation of cerebral bridging veins rupture due to head trauma. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2023, 26, 854-863.	0.9	4

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37	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
38	An Intelligent Method for Breast Cancer Diagnosis Based on Fuzzy ART and Metaheuristic Optimization. IFMBE Proceedings, 2016, , 200-204.	0.2	3
39	Analysis of central venous pressure (CVP) signals using mathematical methods. Journal of Clinical Monitoring and Computing, 2017, 31, 607-616.	0.7	3
40	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
41	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
42	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
43	MODELING OF SUPERIOR MESENTERIC ARTERY ANEURYSM USING FLUID-STRUCTURE INTERACTION. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550005.	0.3	1
44	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
45	Finite element analysis of fibre-reinforced constitutive formulation of Cadisc-L. Engineering Solid Mechanics, 2019, , 151-162.	0.6	1
46	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
47	A patient-specific finite element model of the smoker'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
48	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
49	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
50	Numerical Modeling of the Red Blood Cell Motion/Deformation in the Capillary. IFMBE Proceedings, 2016, , 624-633.	0.2	0
51	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
52	Fluid-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
53	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
54	A mathematical model for biomechanical behavior of the aortic arch. Perfusion (United Kingdom), 2023, 38, 1012-1018.	0.5	0