Julian Smith

List of Publications by Year
in descending order

37 papers	642 citations	687363 13 h-index	610901 24 g-index
37 all docs	37 docs citations	37 times ranked	556 citing authors

#	Article	IF	Citations
1	Applying a framework to assess the impact of cardiovascular outcomes improvement research. Health Research Policy and Systems, 2021, 19, 67.	2.8	3
2	Sensing and Modelling Mechanical Response in Large Deformation Indentation of Adherent Cell Using Atomic Force Microscopy. Sensors, 2020, 20, 1764.	3.8	5
3	Design, analysis and experimental investigations of a high precision flexure-based microgripper for micro/nano manipulation. Mechatronics, 2020, 69, 102396.	3.3	33
4	Surgical aortic valve replacement in Australia, 2002â€“2015: temporal changes in clinical practice, patient profiles and outcomes. ANZ Journal of Surgery, 2019, 89, 1061-1067.	0.7	8
5	Modeling of soft tissue thermal damage based on GPU acceleration. Computer Assisted Surgery, 2019, 24, 5-12.	1.3	5
6	Are professional footballers becoming lighter and more ectomorphic? Implications for talent identification and development. International Journal of Sports Science and Coaching, 2019, 14, 329-335.	1.4	7
7	Tranexamic acid in coronary artery surgery: One-year results of the Aspirin and Tranexamic Acid for Coronary Artery Surgery (ATACAS) trial. Journal of Thoracic and Cardiovascular Surgery, 2019, 157, 644-652.e9.	0.8	26
8	Neural dynamics-based Poisson propagation for deformable modelling. Neural Computing and Applications, 2019, 31, 1091-1101.	5.6	14
9	Energy propagation modeling of nonlinear soft tissue deformation for surgical simulation. Simulation, 2018, 94, 3-10.	1.8	8
10	Impact of Discontinuation of Antiplatelet Therapy Prior to Isolated Valve and Combined Coronary Artery Bypass Graft and Valve Procedures on Short and Intermediate Term Outcomes. Heart Lung and Circulation, 2018, 27, 878-884.	0.4	2
11	GPU-ACCELERATED FINITE ELEMENT MODELING OF BIO-HEAT CONDUCTION FOR SIMULATION OF THERMAL ABLATION. Journal of Mechanics in Medicine and Biology, 2018, 18, 1840012.	0.7	5
12	TEMPERATURE-DEPENDENT THERMOMECHANICAL MODELING OF SOFT TISSUE DEFORMATION. Journal of Mechanics in Medicine and Biology, 2018, 18, 1840021.	0.7	5
13	The Real-World Cost-Effectiveness of Coronary Artery Bypass Surgery Versus Stenting in High-Risk Patients: Propensity Score-Matched Analysis of a Single-Centre Experience. Applied Health Economics and Health Policy, 2018, 16, 661-674.	2.1	8
14	ChainMail based neural dynamics modeling of soft tissue deformation for surgical simulation. Technology and Health Care, 2017, 25, 231-239.	1.2	9
15	Non-Fourier based thermal-mechanical tissue damage prediction for thermal ablation. Bioengineered, 2017, 8, 71-77.	3.2	7
16	Cellular neural network modelling of soft tissue dynamics for surgical simulation. Technology and Health Care, 2017, 25, 337-344.	1.2	10
17	Prediction of tissue thermal damage. Technology and Health Care, 2016, 24, S625-S629.	1.2	7
18	Nonlinear Deformations of Soft Tissues for Surgery Simulation. , 2016, , 281-296.		1

#	Article	IF	Citations
19	A new ChainMail approach for real-time soft tissue simulation. Bioengineered, 2016, 7, 246-252.	3.2	20
20	Local deformation for soft tissue simulation. Bioengineered, 2016, 7, 291-297.	3.2	7
21	Soft tissue modelling with conical springs. Bio-Medical Materials and Engineering, 2015, 26, S207-S214.	0.6	13
22	Development and control of a two DOF linearâ€“angular precision positioning stage. Mechatronics, 2015, 32, 34-43.	3.3	56
23	Effects of realistic force feedback in a robotic assisted minimally invasive surgery system. Minimally Invasive Therapy and Allied Technologies, 2014, 23, 127-135.	1.2	33
24	Soft Tissue Characterisation Using a Force Feedback-Enabled Instrument for Robotic Assisted Minimally Invasive Surgery Systems. , 2014, , 473-484.		1
25	Soft tissue deformation with reaction-diffusion process for surgery simulation. Journal of Visual Languages and Computing, 2012, 23, 1-12.	1.8	19
26	Thermalâ€“Mechanical-Based Soft Tissue Deformation for Surgery Simulation. Advanced Robotics, 2010, 24, 1719-1739.	1.8	5
27	An optimal parameter estimation method for soft tissue characterization. , 2010, , .		0
28	An Australian risk prediction model for 30-day mortality after isolated coronary artery bypass: The AusSCORE. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 904-910.	0.8	52
29	An electromechanical based deformable model for soft tissue simulation. Artificial Intelligence in Medicine, 2009, 47, 275-288.	6.5	13
30	Robust motion tracking control of piezo-driven flexure-based four-bar mechanism for micro/nano manipulation. Mechatronics, 2008, 18, 111-120.	3.3	124
31	Aspirin and Tranexamic Acid for Coronary Artery Surgery (ATACAS) Trial: Rationale and design. American Heart Journal, 2008, 155, 224-230.	2.7	67
32	An autowave based methodology for deformable object simulation. CAD Computer Aided Design, 2006, 38, 740-754.	2.7	18
33	Soft tissue modelling through autowaves for surgery simulation. Medical and Biological Engineering and Computing, 2006, 44, 805-821.	2.8	15
34	A Cellular Neural Network Methodology for Deformable Object Simulation. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 749-762.	3.2	23
35	A reaction-diffusion methodology for soft object simulation. , 2006, , .		4
36	Simulation of deformable models with the Poisson equation. Computer Methods in Biomechanics and Biomedical Engineering, 2006, 9, 289-304.	1.6	9

#	Article	IF	Citations
37	THE PRIMARY FELLOWSHIP EXAMINATION. Medical Journal of Australia, 1930, 2, 820-822.	1.7	0