Rod H Smallwood

List of Publications by Year
in descending order

32 papers	1,263 citations	361296 20 h-index	501076 28 g-index
32 all docs	32 docs citations	32 times ranked	1722 citing authors

#	Article	IF	Citations
1	Relation between tissue structure and imposed electrical current flow in cervical neoplasia. Lancet, The, 2000, 355, 892-895.	6.3	186
2	Formal agent-based modelling of intracellular chemical interactions. BioSystems, 2006, 85, 37-45.	0.9	122
3	Development of a Three Dimensional Multiscale Computational Model of the Human Epidermis. PLoS ONE, 2010, 5, e8511.	1.1	84
4	Enabling multiscale modeling in systems medicine. Genome Medicine, 2014, 6, 21.	3.6	76
5	A Complex Automata approach for in-stent restenosis: Two-dimensional multiscale modelling and simulations. Journal of Computational Science, 2011, 2, 9-17.	1.5	70
6	A comparison of imaging methodologies for 3D tissue engineering. Microscopy Research and Technique, 2010, 73, 1123-1133.	1.2	68
7	Modelling complex biological systems using an agent-based approach. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	66
8	Electrical impedance spectroscopy and the diagnosis of bladder pathology. Physiological Measurement, 2006, 27, 585-596.	1.2	64
9	DP $_2$ antagonism reduces airway smooth muscle mass in asthma by decreasing eosinophilia and myofibroblast recruitment. Science Translational Medicine, 2019, 11, .	5.8	57
10	Introducing Spatial Information into Predictive NF-κB Modelling â€" An Agent-Based Approach. PLoS ONE, 2008, 3, e2367.	1.1	56
11	Exploring Hypotheses of the Actions of TGF-β1 in Epidermal Wound Healing Using a 3D Computational Multiscale Model of the Human Epidermis. PLoS ONE, 2009, 4, e8515.	1.1	54
12	An integrated systems biology approach to understanding the rules of keratinocyte colony formation. Journal of the Royal Society Interface, 2007, 4, 1077-1092.	1.5	52
13	Distinct NF-κB Regulation by Shear Stress Through Ras-Dependent IκBα Oscillations. Circulation Research, 2005, 96, 626-634.	2.0	39
14	The feasibility of a mixed reality surgical training environment. Virtual Reality, 2008, 12, 77-86.	4.1	34
15	Quantum Dot Superluminescent Diodes for Optical Coherence Tomography: Skin Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 748-754.	1.9	31
16	Beyond the visuals: tactile augmentation and sensory enhancement in an arthroscopy simulator. Virtual Reality, 2009, 13, 59-68.	4.1	27
17	Using swept-source optical coherence tomography to monitor the formation of neo-epidermis in tissue-engineered skin. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 652-658.	1.3	27
18	Modeling the Effect of Exogenous Calcium on Keratinocyte and HaCat Cell Proliferation and Differentiation Using an Agent-Based Computational Paradigm. Tissue Engineering, 2006, 12, 2301-2309.	4.9	25

#	Article	IF	Citations
19	Agent Based Modelling Helps in Understanding the Rules by Which Fibroblasts Support Keratinocyte Colony Formation. PLoS ONE, 2008, 3, e2129.	1.1	24
20	A planar micro-sensor for bio-impedance measurements. Sensors and Actuators B: Chemical, 2005, 111-112, 430-435.	4.0	23
21	Computational modeling of epithelial tissues. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2009, 1, 191-201.	6.6	19
22	Evaluating the use of optical coherence tomography for the detection of epithelial cancers in vitro. Journal of Biomedical Optics, 2011, 16, 116015.	1.4	12
23	Towards a Complex Automata Multiscale Model of In-Stent Restenosis. Lecture Notes in Computer Science, 2009, , 705-714.	1.0	11
24	Development of a mini 3D cell culture system using well defined nickel grids for the investigation of cell scaffold interactions. Journal of Materials Science: Materials in Medicine, 2009, 20, 1483-1493.	1.7	10
25	Stand-off electrode (SoE): a new method for improving the sensitivity distribution of a tetrapolar probe. Physiological Measurement, 2003, 24, 517-525.	1.2	8
26	Common path Michelson interferometer based on multiple reflections within the sample arm: sensor applications and imaging artefacts. Measurement Science and Technology, 2011, 22, 027002.	1.4	8
27	NIK and IKKβ interdependence in NF-κB signalling—Flux analysis of regulation through metabolites. BioSystems, 2010, 99, 140-149.	0.9	7
28	Cell-Centred Modeling of Tissue Behaviour. , 2011, , 175-194.		2
29	Evaluation of a cheap ultrasonic stage for light source coherence function measurement, optical coherence tomography and dynamic focusing. Measurement Science and Technology, 2009, 20, 107002.	1.4	1
30	Spatiotemporal Analysis of an Agent-Based Model of a Colony of Keratinocytes: A First Approach for the Development of Validation Methods. , 2007, , .		0
31	Development of spatiotemporal validation methods of an agent-based model of epithelial cells: analysis of a colony of keratinocytes. International Journal of Functional Informatics and Personalised Medicine, 2008, 1, 335.	0.4	0
32	Evaluation of a cheap ultrasonic stage for light source coherence function measurement, optical coherence tomography, optical coherence microscopy, and dynamic focusing. Proceedings of SPIE, 2009, , .	0.8	0