William S Kisaalita

List of Publications by Year
in descending order

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62 papers	1,032 citations	430442 18 h-index	454577 30 g-index
62 all docs	62 docs citations	62 times ranked	1515 citing authors

#	Article	IF	Citations
1	Spheroid Trapping and Calcium Spike Estimation Techniques toward Automation of 3D Culture. SLAS Technology, 2021, 26, 265-273.	1.0	0
2	Brain-on-a-Chip Device for Modeling Multiregional Networks. ACS Biomaterials Science and Engineering, 2021, 7, 350-359.	2.6	12
3	Secretome-Based Prediction of Three-Dimensional Hepatic Microtissue Physiological Relevance. ACS Biomaterials Science and Engineering, 2020, 6, 587-596.	2.6	0
4	Development of Pictograms to Communicate Technological Solution Instructions (Labeling) Among Low-Literacy Users. Ergonomics in Design, 2020, , 106480462095914.	0.4	1
5	Combining thermization and evaporative cooling toward milk freshness preservation at the smallholder farm level. Journal of Food Process Engineering, 2020, 43, e13529.	1.5	0
6	Ratiometric Nanoviscometers: Applications for Measuring Cellular Physical Properties in 3D Cultures. SLAS Technology, 2020, 25, 234-246.	1.0	1
7	Calcium Oscillation Frequency Is a Potential Functional Complex Physiological Relevance Indicator for a Neuroblastoma-Based 3D Culture Model. ACS Biomaterials Science and Engineering, 2020, 6, 4314-4323.	2.6	1
8	Engineering microsystems to recapitulate brain physiology on a chip. Drug Discovery Today, 2019, 24, 1725-1730.	3.2	14
9	Biogas-powered evaporative cooling for smallholder dairy farmersâ€™ evening milk: Zeolite characterization and regeneration. Sustainable Energy Technologies and Assessments, 2019, 34, 126-132.	1.7	5
10	Evaluation of cellular adhesion and organization in different microporous polymeric scaffolds. Biotechnology Progress, 2018, 34, 505-514.	1.3	8
11	3D nerve cell cultures and complex physiological relevance. Drug Discovery Today, 2018, 23, 22-25.	3.2	0
12	EvaKuula saves Ugandan smallholder farmersâ€™ evening milk. Sustainable Energy Technologies and Assessments, 2018, 29, 155-163.	1.7	3
13	Molecular basis for cytokine biomarkers of complex 3D microtissue physiology in vitro. Drug Discovery Today, 2016, 21, 950-961.	3.2	3
14	Perspectives on context, design teams and diffusion of technological innovations in low-resource settings: A practical approach based on sub-Saharan African projects. Technology in Society, 2016, 46, 58-62.	4.8	2
15	Cultural Influences in Women-Friendly Labor-Saving Hand Tool Designs. Human Factors, 2016, 58, 27-42.	2.1	6
16	Anthropometric characteristics of female smallholder farmers of Uganda â€“ Toward design of labor-saving tools. Applied Ergonomics, 2016, 54, 177-185.	1.7	16
17	Is time an extra dimension in 3D cell culture?. Drug Discovery Today, 2016, 21, 395-399.	3.2	9
18	Diffusion of an evaporative cooler innovation among smallholder dairy farmers of Western Uganda. Technology in Society, 2014, 38, 1-10.	4.8	10

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19	A microwell pattern for C17.2 cell aggregate formation with concave cylindrical surface induced cell peeling. Biomaterials, 2014, 35, 9423-9437.	5.7	10
20	Biophysical microenvironment and 3D culture physiological relevance. Drug Discovery Today, 2013, 18, 533-540.	3.2	34
21	Responsiveness of voltage-gated calcium channels in SH-SY5Y human neuroblastoma cells on quasi-three-dimensional micropatterns formed with poly (l-lactic acid). International Journal of Nanomedicine, 2013, 8, 93.	3.3	10
22	Performance Evaluation of 3D Polystyrene 96-Well Plates with Human Neural Stem Cells in a Calcium Assay. Journal of the Association for Laboratory Automation, 2012, 17, 284-292.	2.8	9
23	Microtissue size and hypoxia in HTS with 3D cultures. Drug Discovery Today, 2012, 17, 810-817.	3.2	81
24	Three Dimensional Neuronal Cell Cultures More Accurately Model Voltage Gated Calcium Channel Functionality in Freshly Dissected Nerve Tissue. PLoS ONE, 2012, 7, e45074.	1.1	49
25	Biomarkers for simplifying HTS 3D cell culture platforms for drug discovery: the case for cytokines. Drug Discovery Today, 2011, 16, 293-297.	3.2	40
26	Cell adhesion and locomotion on microwell-structured glass substrates. Colloids and Surfaces B: Biointerfaces, 2011, 84, 35-43.	2.5	9
27	Administration of BDNF/ginsenosides combination enhanced synaptic development in human neural stem cells. Journal of Neuroscience Methods, 2011, 194, 274-282.	1.3	34
28	Neural Cell 3D Microtissue Formation Is Marked by Cytokines' Up-Regulation. PLoS ONE, 2011, 6, e26821.	1.1	19
29	Characterization of micropatterned nanofibrous scaffolds for neural network activity readout for highâ€throughput screening. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 94B, 238-249.	1.6	7
30	Exploring cellular adhesion and differentiation in a microâ€/nanoâ€hybrid polymer scaffold. Biotechnology Progress, 2010, 26, 838-846.	1.3	51
31	Effects of topography on the functional development of human neural progenitor cells. Biotechnology and Bioengineering, 2010, 106, 649-659.	1.7	14
32	Microstructured Topography Enhanced the Responsiveness of Voltage-Gated Calcium Channels in H945RB.3 Human Neural Progenitor Cells. , 2009, , .		0
33	SU-8 microstructure for quasi-three-dimensional cell-based biosensing. Sensors and Actuators B: Chemical, 2009, 140, 349-355.	4.0	24
34	Three-dimensional polymer scaffolds for high throughput cell-based assay systems. Biomaterials, 2008, 29, 2802-2812.	5.7	66
35	Poly(ethylene glycol) Methacrylate/Dimethacrylate Hydrogels for Controlled Release of Hydrophobic Drugs. Biotechnology Progress, 2008, 21, 1281-1288.	1.3	34
36	Delivery of urban transport in developing countries: the case for the motorcycle taxi service (boda-boda) operators of Kampala. Development Southern Africa, 2007, 24, 345-357.	1.1	30

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37	A packed Cytodex microbead array for three-dimensional cell-based biosensing. Biosensors and Bioelectronics, 2006, 22, 685-693.	5.3	19
38	Interfacing SH-SY5Y human neuroblastoma cells with SU-8 microstructures. Colloids and Surfaces B: Biointerfaces, 2006, 52, 14-21.	2.5	42
39	Human neuroblastoma (SH-SY5Y) cell culture and differentiation in 3-D collagen hydrogels for cell-based biosensing. Biosensors and Bioelectronics, 2006, 21, 1483-1492.	5.3	54
40	Determination of Resting Membrane Potential of Individual Neuroblastoma Cells (IMR-32) Using a Potentiometric Dye (TMRM) and Confocal Microscopy. Journal of Fluorescence, 2004, 14, 739-743.	1.3	20
41	A single magnetic field exposure system for sequential investigation of real time and downstream cellular responses. Bioelectromagnetics, 2004, 25, 27-32.	0.9	6
42	Characterization of 3-D collagen hydrogels for functional cell-based biosensing. Biosensors and Bioelectronics, 2004, 19, 1075-1088.	5.3	50
43	BIOCHEMICAL AND ELECTROPHYSIOLOGICAL DIFFERENTIATION PROFILE OF A HUMAN NEUROBLASTOMA (IMR-32) CELL LINE. In Vitro Cellular and Developmental Biology - Animal, 2002, 38, 450.	0.7	14
44	Effects of 60 Hz electromagnetic field exposure on APP695 transcription levels in differentiating human neuroblastoma cells. Bioelectrochemistry, 2002, 57, 9-15.	2.4	16
45	Immunohistochemical Detection of Fibrillar Collagens in Tissue Sections and in Culture Cells. Journal of Histotechnology, 2000, 23, 333-336.	0.2	4
46	Effect of culture age on the susceptibility of differentiating neuroblastoma cells to retinoid cytotoxicity. , 2000, 50, 580-586.		9
47	Glutamate-induced changes in the pattern of hippocampal dendrite outgrowth: A role for calcium-dependent pathways and the microtubule cytoskeleton. , 2000, 43, 159-172.		41
48	Micro-Perfusion Flow Cell for Imaging Cultured Cells. BioTechniques, 1999, 27, 722-728.	0.8	3
49	Fluorescent Pseudomonad Pyoverdines Bind and Oxidize Ferrous Ion. Applied and Environmental Microbiology, 1998, 64, 1472-1476.	1.4	38
50	Voltage- and GABA-evoked currents from MÃ¼ller glial cells of the baboon retina. NeuroReport, 1997, 8, 541-544.	0.6	11
51	Development of resting membrane potentials in differentiating murine neuroblastoma cells (N1E-115) evaluated by flow cytometry. Cytotechnology, 1997, 24, 201-212.	0.7	8
52	Effect of medium serum concentration on N1E-115 neuroblastoma membrane potential development. In Vitro Cellular and Developmental Biology - Animal, 1997, 33, 152-155.	0.7	3
53	Size changes in differentiating neuroblastoma cells. In Vitro Cellular and Developmental Biology - Animal, 1997, 33, 734-737.	0.7	5
54	Free cyclic AMP increases in PC12 cells on depolarization. , 1997, 47, 555-560.		8

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55	GABAA receptor currents recorded from MÃ¼ller glial cells of the baboon (Papio cynocephalus) retina. Neuroscience Letters, 1996, 203, 159-162.	1.0	22
56	Assessment of murine neuroblastoma (N1E-115) resting membrane potential by confocal microscopy. Journal of Fluorescence, 1996, 6, 77-82.	1.3	3
57	Effect of Pseudomonas fluorescens (2?79) culture age on the relationship between optical density and biomass. Biotechnology Letters, 1994, 8, 747-750.	0.5	6
58	Defined media for optimal pyoverdine production by Pseudomonas fluorescens 2-79. Applied Microbiology and Biotechnology, 1993, 39, 750-755.	1.7	13
59	Biosensor standards requirements. Biosensors and Bioelectronics, 1992, 7, 613-620.	5.3	4
60	A fiber optic system for measuring single excitation-dual emission fluorescence ratios in real time. Biotechnology Progress, 1992, 8, 360-368.	1.3	1
61	Optimization of glass microelectrode properties by response surface methodology. Journal of Neuroscience Methods, 1991, 40, 113-120.	1.3	2
62	Evaluation of neuron-based sensing with the neurotransmitter serotonin. Biosensors and Bioelectronics, 1990, 5, 491-510.	5.3	18