

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	Microtissue size and hypoxia in HTS with 3D cultures. <i>Drug Discovery Today</i> , 2012, 17, 810-817.	3.2	81
2	Three-dimensional polymer scaffolds for high throughput cell-based assay systems. <i>Biomaterials</i> , 2008, 29, 2802-2812.	5.7	66
3	Human neuroblastoma (SH-SY5Y) cell culture and differentiation in 3-D collagen hydrogels for cell-based biosensing. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1483-1492.	5.3	54
4	Exploring cellular adhesion and differentiation in a micro/nano-hybrid polymer scaffold. <i>Biotechnology Progress</i> , 2010, 26, 838-846.	1.3	51
5	Characterization of 3-D collagen hydrogels for functional cell-based biosensing. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1075-1088.	5.3	50
6	Three Dimensional Neuronal Cell Cultures More Accurately Model Voltage Gated Calcium Channel Functionality in Freshly Dissected Nerve Tissue. <i>PLoS ONE</i> , 2012, 7, e45074.	1.1	49
7	Interfacing SH-SY5Y human neuroblastoma cells with SU-8 microstructures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 52, 14-21.	2.5	42
8	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
9	Biomarkers for simplifying HTS 3D cell culture platforms for drug discovery: the case for cytokines. <i>Drug Discovery Today</i> , 2011, 16, 293-297.	3.2	40
10	Fluorescent Pseudomonad Pyoverdines Bind and Oxidize Ferrous Ion. <i>Applied and Environmental Microbiology</i> , 1998, 64, 1472-1476.	1.4	38
11	Poly(ethylene glycol) Methacrylate/Dimethacrylate Hydrogels for Controlled Release of Hydrophobic Drugs. <i>Biotechnology Progress</i> , 2008, 21, 1281-1288.	1.3	34
12	Administration of BDNF/ginsenosides combination enhanced synaptic development in human neural stem cells. <i>Journal of Neuroscience Methods</i> , 2011, 194, 274-282.	1.3	34
13	Biophysical microenvironment and 3D culture physiological relevance. <i>Drug Discovery Today</i> , 2013, 18, 533-540.	3.2	34
14	Delivery of urban transport in developing countries: the case for the motorcycle taxi service (boda-boda) operators of Kampala. <i>Development Southern Africa</i> , 2007, 24, 345-357.	1.1	30
15	SU-8 microstructure for quasi-three-dimensional cell-based biosensing. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 349-355.	4.0	24
16	GABAA receptor currents recorded from Müller glial cells of the baboon (<i>Papio cynocephalus</i>) retina. <i>Neuroscience Letters</i> , 1996, 203, 159-162.	1.0	22
17	Determination of Resting Membrane Potential of Individual Neuroblastoma Cells (IMR-32) Using a Potentiometric Dye (TMRM) and Confocal Microscopy. <i>Journal of Fluorescence</i> , 2004, 14, 739-743.	1.3	20
18	A packed Cytodex microbead array for three-dimensional cell-based biosensing. <i>Biosensors and Bioelectronics</i> , 2006, 22, 685-693.	5.3	19

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19	Neural Cell 3D Microtissue Formation Is Marked by Cytokines' Up-Regulation. PLoS ONE, 2011, 6, e26821.	1.1	19
20	Evaluation of neuron-based sensing with the neurotransmitter serotonin. Biosensors and Bioelectronics, 1990, 5, 491-510.	5.3	18
21	Effects of 60 Hz electromagnetic field exposure on APP695 transcription levels in differentiating human neuroblastoma cells. Bioelectrochemistry, 2002, 57, 9-15.	2.4	16
22	Anthropometric characteristics of female smallholder farmers of Uganda â€“ Toward design of labor-saving tools. Applied Ergonomics, 2016, 54, 177-185.	1.7	16
23	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
24	Effects of topography on the functional development of human neural progenitor cells. Biotechnology and Bioengineering, 2010, 106, 649-659.	1.7	14
25	Engineering microsystems to recapitulate brain physiology on a chip. Drug Discovery Today, 2019, 24, 1725-1730.	3.2	14
26	Defined media for optimal pyoverdine production by Pseudomonas fluorescens 2-79. Applied Microbiology and Biotechnology, 1993, 39, 750-755.	1.7	13
27	Brain-on-a-Chip Device for Modeling Multiregional Networks. ACS Biomaterials Science and Engineering, 2021, 7, 350-359.	2.6	12
28	Voltage- and GABA-evoked currents from Müller glial cells of the baboon retina. NeuroReport, 1997, 8, 541-544.	0.6	11
29	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
30	Diffusion of an evaporative cooler innovation among smallholder dairy farmers of Western Uganda. Technology in Society, 2014, 38, 1-10.	4.8	10
31	A microwell pattern for C17.2 cell aggregate formation with concave cylindrical surface induced cell peeling. Biomaterials, 2014, 35, 9423-9437.	5.7	10
32	Effect of culture age on the susceptibility of differentiating neuroblastoma cells to retinoid cytotoxicity. , 2000, 50, 580-586.		9
33	Cell adhesion and locomotion on microwell-structured glass substrates. Colloids and Surfaces B: Biointerfaces, 2011, 84, 35-43.	2.5	9
34	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
35	Is time an extra dimension in 3D cell culture?. Drug Discovery Today, 2016, 21, 395-399.	3.2	9
36	Development of resting membrane potentials in differentiating murine neuroblastoma cells (N1E-115) evaluated by flow cytometry. Cytotechnology, 1997, 24, 201-212.	0.7	8

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37	Free cyclic AMP increases in PC12 cells on depolarization. , 1997, 47, 555-560.		8
38	Evaluation of cellular adhesion and organization in different microporous polymeric scaffolds. Biotechnology Progress, 2018, 34, 505-514.	1.3	8
39	Characterization of micropatterned nanofibrous scaffolds for neural network activity readout for high-throughput screening. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 94B, 238-249.	1.6	7
40	Effect of Pseudomonas fluorescens (2779) culture age on the relationship between optical density and biomass. Biotechnology Letters, 1994, 8, 747-750.	0.5	6
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	Cultural Influences in Women-Friendly Labor-Saving Hand Tool Designs. Human Factors, 2016, 58, 27-42.	2.1	6
43	Size changes in differentiating neuroblastoma cells. In Vitro Cellular and Developmental Biology - Animal, 1997, 33, 734-737.	0.7	5
44	Biogas-powered evaporative cooling for smallholder dairy farmers' evening milk: Zeolite characterization and regeneration. Sustainable Energy Technologies and Assessments, 2019, 34, 126-132.	1.7	5
45	Biosensor standards requirements. Biosensors and Bioelectronics, 1992, 7, 613-620.	5.3	4
46	Immunohistochemical Detection of Fibrillar Collagens in Tissue Sections and in Culture Cells. Journal of Histotechnology, 2000, 23, 333-336.	0.2	4
47	Assessment of murine neuroblastoma (N1E-115) resting membrane potential by confocal microscopy. Journal of Fluorescence, 1996, 6, 77-82.	1.3	3
48	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
49	Micro-Perfusion Flow Cell for Imaging Cultured Cells. BioTechniques, 1999, 27, 722-728.	0.8	3
50	Molecular basis for cytokine biomarkers of complex 3D microtissue physiology in vitro. Drug Discovery Today, 2016, 21, 950-961.	3.2	3
51	EvaKuula saves Ugandan smallholder farmers' evening milk. Sustainable Energy Technologies and Assessments, 2018, 29, 155-163.	1.7	3
52	Optimization of glass microelectrode properties by response surface methodology. Journal of Neuroscience Methods, 1991, 40, 113-120.	1.3	2
53	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
54	A fiber optic system for measuring single excitation-dual emission fluorescence ratios in real time. Biotechnology Progress, 1992, 8, 360-368.	1.3	1

#	ARTICLE	IF	CITATIONS
55	Development of Pictograms to Communicate Technological Solution Instructions (Labeling) Among Low-Literacy Users. <i>Ergonomics in Design</i> , 2020, , 106480462095914.	0.4	1
56	Ratiometric Nanoviscometers: Applications for Measuring Cellular Physical Properties in 3D Cultures. <i>SLAS Technology</i> , 2020, 25, 234-246.	1.0	1
57	Calcium Oscillation Frequency Is a Potential Functional Complex Physiological Relevance Indicator for a Neuroblastoma-Based 3D Culture Model. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4314-4323.	2.6	1
58	Microstructured Topography Enhanced the Responsiveness of Voltage-Gated Calcium Channels in H945RB.3 Human Neural Progenitor Cells. , 2009, , .		0
59	3D nerve cell cultures and complex physiological relevance. <i>Drug Discovery Today</i> , 2018, 23, 22-25.	3.2	0
60	Secretome-Based Prediction of Three-Dimensional Hepatic Microtissue Physiological Relevance. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 587-596.	2.6	0
61	Combining thermization and evaporative cooling toward milk freshness preservation at the smallholder farm level. <i>Journal of Food Process Engineering</i> , 2020, 43, e13529.	1.5	0
62	Spheroid Trapping and Calcium Spike Estimation Techniques toward Automation of 3D Culture. <i>SLAS Technology</i> , 2021, 26, 265-273.	1.0	0