

Hiroshi Kimura

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,629
citations

346980

22
h-index

214428

50
g-index

69
all docs

69
docs citations

69
times ranked

3712
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput quantitative analysis of axonal transport in cultured neurons from SOD1H46R ALS mice by using a microfluidic device. <i>Neuroscience Research</i> , 2022, 174, 46-52.	1.0	3
2	In vitro enzymatic electrochemical monitoring of glucose metabolism and production in rat primary hepatocytes on highly O ₂ permeable plates. <i>Bioelectrochemistry</i> , 2022, 143, 107972.	2.4	1
3	Glomerulus-on-a-Chip: Current Insights and Future Potential Towards Recapitulating Selectively Permeable Filtration Systems. <i>International Journal of Nephrology and Renovascular Disease</i> , 2022, Volume 15, 85-101.	0.8	4
4	Insulin signaling shapes fractal scaling of <i>C. elegans</i> behavior. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
5	Rat in vitro spermatogenesis promoted by chemical supplementations and oxygen-tension control. <i>Scientific Reports</i> , 2021, 11, 3458.	1.6	19
6	Coculture with hiPS-derived intestinal cells enhanced human hepatocyte functions in a pneumatic-pressure-driven two-organ microphysiological system. <i>Scientific Reports</i> , 2021, 11, 5437.	1.6	18
7	A Kinetic Pump Integrated Microfluidic Plate (KIM-Plate) with High Usability for Cell Culture-Based Multiorgan Microphysiological Systems. <i>Micromachines</i> , 2021, 12, 1007.	1.4	16
8	A novel method for successful induction of interdigitating process formation in conditionally immortalized podocytes from mice, rats, and humans. <i>Biochemical and Biophysical Research Communications</i> , 2021, 570, 47-52.	1.0	2
9	Bioprinting Scaffolds for Vascular Tissues and Tissue Vascularization. <i>Bioengineering</i> , 2021, 8, 178.	1.6	14
10	Epstein-Barr virus NK and T cell lymphoproliferative disease: report of a 2018 international meeting. <i>Leukemia and Lymphoma</i> , 2020, 61, 808-819.	0.6	42
11	A Microfluidic Probe Integrated Device for Spatiotemporal 3D Chemical Stimulation in Cells. <i>Micromachines</i> , 2020, 11, 691.	1.4	2
12	<i>C. elegans</i> episodic swimming is driven by multifractal kinetics. <i>Scientific Reports</i> , 2020, 10, 14775.	1.6	7
13	A pharmacokinetic–pharmacodynamic model based on multi-organ-on-a-chip for drug–drug interaction studies. <i>Biomicrofluidics</i> , 2020, 14, 044108.	1.2	28
14	Diversity in self-organized forms and migration modes in isolated epithelial cells. <i>Artificial Life and Robotics</i> , 2020, 25, 523-528.	0.7	0
15	Visualization and isolation of zone-specific murine hepatocytes that maintain distinct cytochrome P450 oxidase expression in primary culture. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 420-425.	1.0	2
16	Measurement and modelling of tensile moduli of polymer blend thin films with phase separated structures. <i>Polymer</i> , 2020, 190, 122233.	1.8	10
17	OP50, a bacterial strain conventionally used as food for laboratory maintenance of <i>C. elegans</i> , is a biofilm formation defective mutant. <i>MicroPublication Biology</i> , 2020, 2020, .	0.1	0
18	In vitro spermatogenesis in two-dimensionally spread mouse testis tissues. <i>Reproductive Medicine and Biology</i> , 2019, 18, 362-369.	1.0	23

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19	Microphysiological Systems (MPSs) based on Microfluidics as a Platform for Drug Discovery. Drug Delivery System, 2019, 34, 243-248.	0.0	0
20	A monolayer microfluidic device supporting mouse spermatogenesis with improved visibility. Biochemical and Biophysical Research Communications, 2018, 500, 885-891.	1.0	39
21	Development of a microbioreactor for glycoconjugate synthesis. Bioorganic and Medicinal Chemistry, 2018, 26, 2092-2098.	1.4	6
22	Organ/body-on-a-chip based on microfluidic technology for drug discovery. Drug Metabolism and Pharmacokinetics, 2018, 33, 43-48.	1.1	334
23	Quantitative analysis of sensitivity to a Wnt3a gradient in determination of the pole-epsilon axis of mitotic cells by using a microfluidic device. FEBS Open Bio, 2018, 8, 1920-1935.	1.0	1
24	An optimal serum-free defined condition for in vitro culture of kidney organoids. Biochemical and Biophysical Research Communications, 2018, 501, 996-1002.	1.0	6
25	Effect of fluid shear stress on in vitro cultured ureteric bud cells. Biomicrofluidics, 2018, 12, 044107.	1.2	11
26	Neonatal testis growth recreated in vitro by two-dimensional organ spreading. Biotechnology and Bioengineering, 2018, 115, 3030-3041.	1.7	37
27	Overview of EBV-Associated T/NK-Cell Lymphoproliferative Diseases. Frontiers in Pediatrics, 2018, 6, 417.	0.9	37
28	ZnO-Based Microfluidic pH Sensor: A Versatile Approach for Quick Recognition of Circulating Tumor Cells in Blood. ACS Applied Materials & Interfaces, 2017, 9, 5193-5203.	4.0	53
29	Identification of a novel alpha-fetoprotein-expressing cell population induced by the Jagged1/Notch2 signal in murine fibrotic liver. Hepatology Communications, 2017, 1, 215-229.	2.0	31
30	Pumpless microfluidic system driven by hydrostatic pressure induces and maintains mouse spermatogenesis in vitro. Scientific Reports, 2017, 7, 15459.	1.6	86
31	Development of in vitro embryo production device with sperm sorting function. Transactions of the JSME (in Japanese), 2017, 83, 16-00560-16-00560.	0.1	0
32	Society of Internal Medicine, 2017, 106, 1783-1788.	0.0	0
33	Long-term ex vivo maintenance of testis tissues producing fertile sperm in a microfluidic device. Scientific Reports, 2016, 6, 21472.	1.6	147
34	Spatial Chemical Stimulation Control in Microenvironment by Microfluidic Probe Integrated Device for Cell-Based Assay. PLoS ONE, 2016, 11, e0168158.	1.1	6
35	Surface modification on polydimethylsiloxane-based microchannels with fragmented poly(L-lactic) Tj ETQq1 1 0.784314 rgBT /Overloc	1.2	4
36	An On-Chip Small Intestine-Liver Model for Pharmacokinetic Studies. Journal of the Association for Laboratory Automation, 2015, 20, 265-273.	2.8	101

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37	A novel effect of parylene-based surface coating on HepG2 cell function. Materials Science and Engineering C, 2015, 46, 190-194.	3.8	1
38	Pinpoint chemical stimulation at a single-cell scale by microfluidic technology. , 2014, , .		0
39	Evaluation of enzyme immobilization methods on microglucose sensors integrated to a microfluidic device. , 2014, , .		0
40	Current research on chronic active <i>E</i> steinâ€“B virus infection in <i>J</i> apan. Pediatrics International, 2014, 56, 159-166.	0.2	71
41	Combination of microwell structures and direct oxygenation enables efficient and sizeâ€“regulated aggregate formation of an insulinâ€“secreting pancreatic Î² cell line. Biotechnology Progress, 2014, 30, 178-187.	1.3	41
42	Image-based evaluations of distribution and cytotoxicity of Irinotecan (CPT-11) in a multi-compartment micro-cell coculture device. Journal of Bioscience and Bioengineering, 2014, 117, 756-762.	1.1	13
43	A High-Throughput Device for Patterned Differentiation of Embryoid Bodies. Journal of Robotics and Mechatronics, 2013, 25, 623-630.	0.5	3
44	5PM3-PMN-029 High-throughput antibody screening device toward embryo assay. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2013, 2013.5, 75-76.	0.0	0
45	Epstein-Barr virus-associated lymphoid malignancies: the expanding spectrum of hematopoietic neoplasms. Nagoya Journal of Medical Science, 2013, 75, 169-79.	0.6	21
46	Hydroa Vacciniforme Is Associated with Increased Numbers of Epsteinâ€“Barr Virusâ€“Infected T Cells. Journal of Investigative Dermatology, 2012, 132, 1401-1408.	0.3	58
47	Induction of alternative fate other than default neuronal fate of embryonic stem cells in a membrane-based two-chambered microreactor by cell-secreted BMP4. Biomicrofluidics, 2012, 6, 014117.	1.2	2
48	Spatiotemporally controlled delivery of soluble factors for stem cell differentiation. Lab on A Chip, 2012, 12, 4508.	3.1	45
49	Development of a well-of-the-well system-based embryo culture plate with an oxygen sensing photoluminescent probe. Sensors and Actuators B: Chemical, 2012, 162, 278-283.	4.0	8
50	Application of flow cytometric <i>in situ</i> hybridization assay to <i>E</i> steinâ€“B virusâ€“associated <i>T</i> /natural killer cell lymphoproliferative diseases. Cancer Science, 2012, 103, 1481-1488.	1.7	27
51	Bile canaliculi formation by aligning rat primary hepatocytes in a microfluidic device. Biomicrofluidics, 2011, 5, 22212.	1.2	141
52	Enhanced effects of secreted soluble factor preserve better pluripotent state of embryonic stem cell culture in a membrane-based compartmentalized micro-bioreactor. Biomedical Microdevices, 2010, 12, 1097-1105.	1.4	7
53	Microfluidic Device with Integrated Glucose Sensor for Cell-Based Assay in Toxicology. Journal of Robotics and Mechatronics, 2010, 22, 594-600.	0.5	4
54	On-chip Glucose Sensor for Online Measurement of Cell Activities. IEJ Transactions on Sensors and Micromachines, 2010, 130, 476-483.	0.0	1

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55	Development of On-chip Coculture System for Cytotoxicity Test Using Caco-2 and Hep G2. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 252-258.	0.0	1
56	Identification of Epstein-Barr Virus (EBV)-Infected Lymphocyte Subtypes by Flow Cytometric In Situ Hybridization in EBV-Associated Lymphoproliferative Diseases. Journal of Infectious Diseases, 2009, 200, 1078-1087.	1.9	63
57	On-Chip Single Embryo Coculture With Microporous-Membrane-Supported Endometrial Cells. IEEE Transactions on Nanobioscience, 2009, 8, 318-324.	2.2	23
58	Study of Automated Embryo Manipulation Using Dynamic Microarray: Trapping, Culture and Collection. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 245-251.	0.0	2
59	Experimental Study of Web Communication about High-Level Radioactive Waste Analysis of the Changes in Attitudes of the Participants in the ORCAT System. Transactions of the Atomic Energy Society of Japan, 2009, 8, 197-210.	0.2	2
60	Proposed categorization of pathological states of EBV-associated T/natural killer-cell lymphoproliferative disorder (LPD) in children and young adults: Overlap with chronic active EBV infection and infantile fulminant EBV T-LPD. Pathology International, 2008, 58, 209-217.	0.6	224
61	An integrated microfluidic system for long-term perfusion culture and on-line monitoring of intestinal tissue models. Lab on A Chip, 2008, 8, 741.	3.1	257
62	Cell-free Protein Synthesis Conducted by Template DNA with Repetitive Sequence. Chemistry Letters, 2008, 37, 648-649.	0.7	0
63	Development of a Multi-Compartment Micro-Cell Culture Device as a Future On-Chip Human: Fabrication of a Three-Compartment Device and Immobilization of Mature Rat Adipocytes for the Evaluation of Chemical Distributions. Journal of Robotics and Mechatronics, 2007, 19, 544-549.	0.5	6
64	Microfluidic Perfusion Culture of Human Hepatocytes. Journal of Robotics and Mechatronics, 2007, 19, 550-556.	0.5	3
65	Differences between T Cell-Type and Natural Killer Cell-Type Chronic Active Epstein-Barr Virus Infection. Journal of Infectious Diseases, 2005, 191, 531-539.	1.9	119
66	Fatal natural killer cell lymphoma arising in a patient with a crop of Epstein-Barr virus-associated disorders. European Journal of Dermatology, 2005, 15, 503-6.	0.3	13
67	Clinical and virologic characteristics of chronic active Epstein-Barr virus infection. Blood, 2001, 98, 280-286.	0.6	381