

# Ken-ichiro Kamei

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

2,615  
citations

304743

22  
h-index

189892

50  
g-index

101  
all docs

101  
docs citations

101  
times ranked

4239  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocasting of fibrous morphology on a substrate for long-term propagation of human induced pluripotent stem cells. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 025014.	3.3	1
2	Generation and Gene Expression Profiles of Grevy's Zebra Induced Pluripotent Stem Cells. <i>Stem Cells and Development</i> , 2022, 31, 250-257.	2.1	3
3	In vitro culture at 39°C during hepatic maturation of human ES cells facilitates hepatocyte-like cell functions. <i>Scientific Reports</i> , 2022, 12, 5155.	3.3	1
4	An efficient simplified method for the generation of corneal epithelial cells from human pluripotent stem cells. <i>Human Cell</i> , 2022, 35, 1016-1029.	2.7	5
5	Design strategy of electrode patterns based on finite element analysis in microfluidic device for Trans-epithelial Electrical Resistance (TEER) measurement. <i>Electronics and Communications in Japan</i> , 2021, 104, e12296.	0.5	6
6	Nanofiber Extracellular Matrices in Regenerative Medicine. <i>Fundamental Biomedical Technologies</i> , 2021, , 235-251.	0.2	0
7	Highly Accurate Measurement of Trans-Epithelial Electrical Resistance in Organ-on-a-Chip. , 2021, , .		1
8	Response of human induced pluripotent stem cells to terahertz radiation. , 2021, , .		0
9	Cyclo olefin polymer-based solvent-free mass-productive microphysiological systems. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 035009.	3.3	7
10	Evaluation of the Effects of Solvents Used in the Fabrication of Microfluidic Devices on Cell Cultures. <i>Micromachines</i> , 2021, 12, 550.	2.9	8
11	Multilayered Microfluidic Device for Controllable Flow Perfusion of Gut-Liver on a Chip. , 2021, , .		1
12	A Design Method of Organ-on-a-Chip with Highly Accurate Measurement of Trans-Epithelial Electrical Resistance. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2021, 141, 237-244.	0.1	0
13	Untargeted LC-MS Metabolomics for the Analysis of Micro-scaled Extracellular Metabolites from Hepatocytes. <i>Analytical Sciences</i> , 2021, 37, 1049-1052.	1.6	6
14	Spatiotemporal determination of metabolite activities in the corneal epithelium on a chip. <i>Experimental Eye Research</i> , 2021, 209, 108646.	2.6	13
15	Triglyceride-Mimetic Structure-Gated Prodrug Nanoparticles for Smart Cancer Therapy. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15936-15948.	6.4	12
16	In vitro nonalcoholic fatty liver disease model with cyclo-olefin-polymer-based microphysiological systems. <i>Organs-on-a-Chip</i> , 2021, 3, 100010.	3.2	3
17	Bi-phasic effect of gelatin in myogenesis and skeletal muscle regeneration. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	2.4	3
18	Recapitulation of Human Embryonic Heartbeat to Promote Differentiation of Hepatic Endoderm to Hepatoblasts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 568092.	4.1	3

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19	Genetic Signatures of Evolution of the Pluripotency Gene Regulating Network across Mammals. <i>Genome Biology and Evolution</i> , 2020, 12, 1806-1818.	2.5	10
20	Multi-corneal barrier-on-a-chip to recapitulate eye blinking shear stress forces. <i>Lab on A Chip</i> , 2020, 20, 1410-1417.	6.0	47
21	Terahertz pulse-altered gene networks in human induced pluripotent stem cells. <i>Optics Letters</i> , 2020, 45, 6078.	3.3	20
22	Fabrication of parylene-based microelectrode arrays for body-on-a-chip to monitor extracellular field potentials of cardiomyocytes. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2020, 2020.11, 26P2-MN1-2.	0.0	0
23	Randomness and optimality in enhanced DNA ligation with crowding effects. <i>Physical Review Research</i> , 2020, 2, .	3.6	0
24	Design Strategy of Electrode Patterns Based on Finite Element Analysis in Microfluidic Device for Trans-Epithelial Electrical Resistance (TEER) Measurement. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2020, 140, 285-292.	0.1	1
25	Terahertz pulse-altered gene networks in human induced pluripotent stem cells. <i>Optics Letters</i> , 2020, 45, 6078-6081.	3.3	9
26	Three-dimensional cultured liver-on-a-Chip with mature hepatocyte-like cells derived from human pluripotent stem cells. <i>Biomedical Microdevices</i> , 2019, 21, 73.	2.8	29
27	Novel microfluidic device integrated with a fluidic capacitor to mimic heart beating for generation of functional liver organoids. <i>Electronics and Communications in Japan</i> , 2019, 102, 41-49.	0.5	5
28	A microfluidic device to investigate the effect of shear stress on metastasis. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2019, 2019.10, 19am3PN321.	0.0	0
29	Novel Microfluidic Device Integrated with a Fluidic-Capacitor to Mimic Heart Beating for Generation of Functional Liver Organoids. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2019, 139, 209-216.	0.1	0
30	Improved sensitivity of ionic liquid-based pressure sensor for body-on-a-chip using simulation-based 3D lithography. , 2018, , .		0
31	Fabrication of a Multiplexed Artificial Cellular MicroEnvironment Array. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	1
32	Genetic signatures of lipid metabolism evolution in Cetacea since the divergence from terrestrial ancestor. <i>Journal of Evolutionary Biology</i> , 2018, 31, 1655-1665.	1.7	18
33	Fabrication of ionic liquid-based pressure sensor with high sensitivity utilizing three-dimensional lithography and its characterization. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , 2018, 2018.9, 31am3PN133.	0.0	0
34	Nano-on-micro fibrous extracellular matrices for scalable expansion of human ES/iPS cells. <i>Biomaterials</i> , 2017, 124, 47-54.	11.4	40
35	Microfluidic Nanofiber Hybrid Array for Screening of Cellular Microenvironments. <i>Small</i> , 2017, 13, 1603104.	10.0	10
36	Integrated heart/cancer on a chip to reproduce the side effects of anti-cancer drugs in vitro. <i>RSC Advances</i> , 2017, 7, 36777-36786.	3.6	98

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37	Microfabrication of Embedding a Flexible Parylene-Based Microelectrode Array within Body-on-a-Chip. Proceedings (mdpi), 2017, 1, 302.	0.2	2
38	Sensitivity characterization of pressure sensor using ionic liquid by finite element analysis. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2017, 2017.8, PN-98.	0.0	0
39	Characterization of Phenotypic and Transcriptional Differences in Human Pluripotent Stem Cells under 2D and 3D Culture Conditions. Advanced Healthcare Materials, 2016, 5, 2951-2958.	7.6	32
40	Development of a Body-on-a-Chip Using 3-D Microstructuring Technique. IEJ Transactions on Sensors and Micromachines, 2016, 136, 229-236.	0.1	0
41	Oscillation and collective conveyance of water-in-oil droplets by microfluidic bolus flow. Applied Physics Letters, 2015, 107, .	3.3	6
42	3D printing of soft lithography mold for rapid production of polydimethylsiloxane-based microfluidic devices for cell stimulation with concentration gradients. Biomedical Microdevices, 2015, 17, 36.	2.8	159
43	Microfluidic device to interconnect multiple organs via fluidic circulation: Towards body-on-a-chip. , 2015, , .		3
44	Directing and Boosting of Cell Migration by the Entropic Force Gradient in Polymer Solution. Langmuir, 2015, 31, 12567-12572.	3.5	15
45	Microfluidic Image Cytometry for Single-Cell Phenotyping of Human Pluripotent Stem Cells. Methods in Molecular Biology, 2015, 1346, 85-98.	0.9	1
46	Nanofibrous gelatin substrates for long-term expansion of human pluripotent stem cells. Biomaterials, 2014, 35, 6259-6267.	11.4	54
47	Fibrous Architectures of Porous Coordination Polymersâ€“Alumina Composites Fabricated by Coordination Replication. Chemistry Letters, 2014, 43, 1052-1054.	1.3	15
48	Fabrication of gelatin nanopatterns for cell culture studies. Microelectronic Engineering, 2013, 110, 70-74.	2.4	14
49	Stem Cells: Phenotypic and Transcriptional Modulation of Human Pluripotent Stem Cells Induced by Nano/Microfabrication Materials (Adv. Healthcare Mater. 2/2013). Advanced Healthcare Materials, 2013, 2, 234-234.	7.6	0
50	Integration of Porous Coordination Polymers and Gold Nanorods into Coreâ€“Shell Mesoscopic Composites toward Light-Induced Molecular Release. Journal of the American Chemical Society, 2013, 135, 10998-11005.	13.7	171
51	Phenotypic and Transcriptional Modulation of Human Pluripotent Stem Cells Induced by Nano/Microfabrication Materials. Advanced Healthcare Materials, 2013, 2, 287-291.	7.6	23
52	Body on a Chip: Re-Creation of a Living System In Vitro. IEEE Nanotechnology Magazine, 2013, 7, 6-14.	1.3	7
53	Cutting-Edge Microfabricated Biomedical Tools for Human Pluripotent Stem Cell Research. Journal of the Association for Laboratory Automation, 2013, 18, 469-481.	2.8	8
54	Localized cell stimulation by nitric oxide using a photoactive porous coordination polymer platform. Nature Communications, 2013, 4, 2684.	12.8	122

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55	Chemically-defined scaffolds created with electrospun synthetic nanofibers to maintain mouse embryonic stem cell culture under feeder-free conditions. <i>Biotechnology Letters</i> , 2012, 34, 1951-1957.	2.2	24
56	mESC and hiPSC Proliferation on Negative Photoresists for Microfluidics. <i>Procedia Engineering</i> , 2011, 25, 1233-1236.	1.2	2
57	Integrated and diffusion-based micro-injectors for open access cell assays. <i>Lab on A Chip</i> , 2011, 11, 2612.	6.0	10
58	Microfluidic Image Cytometry. <i>Methods in Molecular Biology</i> , 2011, 706, 191-206.	0.9	0
59	Delivery of Intact Transcription Factor by Using Self-Assembled Supramolecular Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3058-3062.	13.8	66
60	Selective Inhibition of Human Brain Tumor Cells through Multifunctional Quantum-Dot-Based siRNA Delivery. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 103-107.	13.8	136
61	A differential cell capture assay for evaluating antibody interactions with cell surface targets. <i>Analytical Biochemistry</i> , 2010, 401, 173-181.	2.4	8
62	A Microfluidic Platform for Systems Pathology: Multiparameter Single-Cell Signaling Measurements of Clinical Brain Tumor Specimens. <i>Cancer Research</i> , 2010, 70, 6128-6138.	0.9	106
63	A Rapid Pathway Toward a Superb Gene Delivery System: Programming Structural and Functional Diversity into a Supramolecular Nanoparticle Library. <i>ACS Nano</i> , 2010, 4, 6235-6243.	14.6	122
64	A small library of DNA-encapsulated supramolecular nanoparticles for targeted gene delivery. <i>Chemical Communications</i> , 2010, 46, 1851-1853.	4.1	51
65	Compensatory hypertrophy induced by ventricular cardiomyocyte-specific COX-2 expression in mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 88-94.	1.9	25
66	Microfluidic image cytometry for quantitative single-cell profiling of human pluripotent stem cells in chemically defined conditions. <i>Lab on A Chip</i> , 2010, 10, 1113.	6.0	47
67	A Supramolecular Approach for Preparation of Size-Controlled Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4344-4348.	13.8	172
68	Three-Dimensional Nanostructured Substrates toward Efficient Capture of Circulating Tumor Cells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8970-8973.	13.8	462
69	Integrated microfluidic devices for combinatorial cell-based assays. <i>Biomedical Microdevices</i> , 2009, 11, 547-555.	2.8	45
70	An integrated microfluidic culture device for quantitative analysis of human embryonic stem cells. <i>Lab on A Chip</i> , 2009, 9, 555-563.	6.0	99
71	Design and characterization of a biomedical device capable of pico-CI level beta detection for the study of cell metabolism. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008, , .	0.0	2
72	A microfluidic platform for sequential ligand labeling and cell binding analysis. <i>Biomedical Microdevices</i> , 2007, 9, 301-305.	2.8	6

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73	Transgenic mouse for conditional, tissue-specific Cox-2 overexpression. <i>Genesis</i> , 2006, 44, 177-182.	1.6	17
74	Construction and use of an electrochemical NO sensor in a cell-based assessing system. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 106-112.	7.8	11
75	The construction of endothelial cellular biosensing system for the control of blood pressure drugs. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1121-1124.	10.1	17
76	Cellular biosensing system for assessing immunomodulating effects on the inducible nitric oxide synthase (iNOS) cascade. <i>Biotechnology Letters</i> , 2003, 25, 321-325.	2.2	7
77	Development of immune cellular biosensing system for assessing chemicals on inducible nitric oxide synthase signaling activator. <i>Analytical Biochemistry</i> , 2003, 320, 75-81.	2.4	10
78	Cellular sensing devices for assessing chemicals. , 0, , .		0