Ken-ichiro Kamei

List of Publications by Year
in descending order

78	2,615	304743	189892
papers	citations	22 h-index	50 g-index

101	101	101	4239
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Threeâ€Dimensional Nanostructured Substrates toward Efficient Capture of Circulating Tumor Cells. Angewandte Chemie - International Edition, 2009, 48, 8970-8973.	13.8	462
2	A Supramolecular Approach for Preparation of Sizeâ€Controlled Nanoparticles. Angewandte Chemie - International Edition, 2009, 48, 4344-4348.	13.8	172
3	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
4	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
5	Selective Inhibition of Human Brain Tumor Cells through Multifunctional Quantumâ€Dotâ€Based siRNA Delivery. Angewandte Chemie - International Edition, 2010, 49, 103-107.	13.8	136
6	A Rapid Pathway Toward a Superb Gene Delivery System: Programming Structural and Functional Diversity into a Supramolecular Nanoparticle Library. ACS Nano, 2010, 4, 6235-6243.	14.6	122
7	Localized cell stimulation by nitric oxide using a photoactive porous coordination polymer platform. Nature Communications, 2013, 4, 2684.	12.8	122
8	A Microfluidic Platform for Systems Pathology: Multiparameter Single-Cell Signaling Measurements of Clinical Brain Tumor Specimens. Cancer Research, 2010, 70, 6128-6138.	0.9	106
9	An integrated microfluidic culture device for quantitative analysis of human embryonic stem cells. Lab on A Chip, 2009, 9, 555-563.	6.0	99
10	Integrated heart/cancer on a chip to reproduce the side effects of anti-cancer drugs in vitro. RSC Advances, 2017, 7, 36777-36786.	3.6	98
11	Delivery of Intact Transcription Factor by Using Selfâ€Assembled Supramolecular Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 3058-3062.	13.8	66
12	Nanofibrous gelatin substrates for long-term expansion of human pluripotent stem cells. Biomaterials, 2014, 35, 6259-6267.	11.4	54
13	A small library of DNA-encapsulated supramolecular nanoparticles for targeted gene delivery. Chemical Communications, 2010, 46, 1851-1853.	4.1	51
14	Microfluidic image cytometry for quantitative single-cell profiling of human pluripotent stem cells in chemically defined conditions. Lab on A Chip, 2010, 10, 1113.	6.0	47
15	Multi-corneal barrier-on-a-chip to recapitulate eye blinking shear stress forces. Lab on A Chip, 2020, 20, 1410-1417.	6.0	47
16	Integrated microfluidic devices for combinatorial cell-based assays. Biomedical Microdevices, 2009, 11, 547-555.	2.8	45
17	Nano-on-micro fibrous extracellular matrices for scalable expansion of human ES/iPS cells. Biomaterials, 2017, 124, 47-54.	11.4	40
18	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

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19	Three-dimensional cultured liver-on-a-Chip with mature hepatocyte-like cells derived from human pluripotent stem cells. Biomedical Microdevices, 2019, 21, 73.	2.8	29
20	Compensatory hypertrophy induced by ventricular cardiomyocyte-specific COX-2 expression in mice. Journal of Molecular and Cellular Cardiology, 2010, 49, 88-94.	1.9	25
21	Chemically-defined scaffolds created with electrospun synthetic nanofibers to maintain mouse embryonic stem cell culture under feeder-free conditions. Biotechnology Letters, 2012, 34, 1951-1957.	2.2	24
22	Phenotypic and Transcriptional Modulation of Human Pluripotent Stem Cells Induced by Nano/Microfabrication Materials. Advanced Healthcare Materials, 2013, 2, 287-291.	7.6	23
23	Terahertz pulse-altered gene networks in human induced pluripotent stem cells. Optics Letters, 2020, 45, 6078.	3.3	20
24	Genetic signatures of lipid metabolism evolution in Cetacea since the divergence from terrestrial ancestor. Journal of Evolutionary Biology, 2018, 31, 1655-1665.	1.7	18
25	The construction of endothelial cellular biosensing system for the control of blood pressure drugs. Biosensors and Bioelectronics, 2004, 19, 1121-1124.	10.1	17
26	Transgenic mouse for conditional, tissue-specific Cox-2 overexpression. Genesis, 2006, 44, 177-182.	1.6	17
27	Fibrous Architectures of Porous Coordination Polymersâ€“Alumina Composites Fabricated by Coordination Replication. Chemistry Letters, 2014, 43, 1052-1054.	1.3	15
28	Directing and Boosting of Cell Migration by the Entropic Force Gradient in Polymer Solution. Langmuir, 2015, 31, 12567-12572.	3.5	15
29	Fabrication of gelatin nanopatterns for cell culture studies. Microelectronic Engineering, 2013, 110, 70-74.	2.4	14
30	Spatiotemporal determination of metabolite activities in the corneal epithelium on a chip. Experimental Eye Research, 2021, 209, 108646.	2.6	13
31	Triglyceride-Mimetic Structure-Gated Prodrug Nanoparticles for Smart Cancer Therapy. Journal of Medicinal Chemistry, 2021, 64, 15936-15948.	6.4	12
32	Construction and use of an electrochemical NO sensor in a cell-based assessing system. Sensors and Actuators B: Chemical, 2004, 99, 106-112.	7.8	11
33	Development of immune cellular biosensing system for assessing chemicals on inducible nitric oxide synthase signaling activator. Analytical Biochemistry, 2003, 320, 75-81.	2.4	10
34	Integrated and diffusion-based micro-injectors for open access cell assays. Lab on A Chip, 2011, 11, 2612.	6.0	10
35	Microfluidicâ€Nanofiber Hybrid Array for Screening of Cellular Microenvironments. Small, 2017, 13, 1603104.	10.0	10
36	Genetic Signatures of Evolution of the Pluripotency Gene Regulating Network across Mammals. Genome Biology and Evolution, 2020, 12, 1806-1818.	2.5	10

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37	Terahertz pulse-altered gene networks in human induced pluripotent stem cells. Optics Letters, 2020, 45, 6078-6081.	3.3	9
38	A differential cell capture assay for evaluating antibody interactions with cell surface targets. Analytical Biochemistry, 2010, 401, 173-181.	2.4	8
39	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
40	Evaluation of the Effects of Solvents Used in the Fabrication of Microfluidic Devices on Cell Cultures. Micromachines, 2021, 12, 550.	2.9	8
41	Cellular biosensing system for assessing immunomodulating effects on the inducible nitric oxide synthase (iNOS) cascade. Biotechnology Letters, 2003, 25, 321-325.	2.2	7
42	Body on a Chip: Re-Creation of a Living System In Vitro. IEEE Nanotechnology Magazine, 2013, 7, 6-14.	1.3	7
43	Cyclo olefin polymer-based solvent-free mass-productive microphysiological systems. Biomedical Materials (Bristol), 2021, 16, 035009.	3.3	7
44	A microfluidic platform for sequential ligand labeling and cell binding analysis. Biomedical Microdevices, 2007, 9, 301-305.	2.8	6
45	Oscillation and collective conveyance of water-in-oil droplets by microfluidic bolus flow. Applied Physics Letters, 2015, 107, .	3.3	6
46	Design strategy of electrode patterns based on finite element analysis in microfluidic device for Transâ€Epithelial Electrical Resistance (TEER) measurement. Electronics and Communications in Japan, 2021, 104, e12296.	0.5	6
47	Untargeted LC-MS Metabolomics for the Analysis of Micro-scaled Extracellular Metabolites from Hepatocytes. Analytical Sciences, 2021, 37, 1049-1052.	1.6	6
48	Novel microfluidic device integrated with a fluidicâ€capacitor to mimic heart beating for generation of functional liver organoids. Electronics and Communications in Japan, 2019, 102, 41-49.	0.5	5
49	An efficient simplified method for the generation of corneal epithelial cells from human pluripotent stem cells. Human Cell, 2022, 35, 1016-1029.	2.7	5
50	Microfluidic device to interconnect multiple organs via fluidic circulation: Towards body-on-a-chip. , 2015, , .		3
51	Recapitulation of Human Embryonic Heartbeat to Promote Differentiation of Hepatic Endoderm to Hepatoblasts. Frontiers in Bioengineering and Biotechnology, 2020, 8, 568092.	4.1	3
52	In vitro nonalcoholic fatty liver disease model with cyclo-olefin-polymer-based microphysiological systems. Organs-on-a-Chip, 2021, 3, 100010.	3.2	3
53	Bi-phasic effect of gelatin in myogenesis and skeletal muscle regeneration. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	3
54	Generation and Gene Expression Profiles of Grevy's Zebra Induced Pluripotent Stem Cells. Stem Cells and Development, 2022, 31, 250-257.	2.1	3

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55	Design and characterization of a biomedical device capable of pico-CI level beta detection for the study of cell metabolism. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	2
56	mESC and hiPSC Proliferation on Negative Photoresists for Microfluidics. Procedia Engineering, 2011, 25, 1233-1236.	1.2	2
57	Microfabrication of Embedding a Flexible Parylene-Based Microelectrode Array within Body-on-a-Chip. Proceedings (mdpi), 2017, 1, 302.	0.2	2
58	Microfluidic Image Cytometry for Single-Cell Phenotyping of Human Pluripotent Stem Cells. Methods in Molecular Biology, 2015, 1346, 85-98.	0.9	1
59	Fabrication of a Multiplexed Artificial Cellular MicroEnvironment Array. Journal of Visualized Experiments, 2018, , .	0.3	1
60	Highly Accurate Measurement of Trans-Epithelial Electrical Resistance in Organ-on-a-Chip. , 2021, , .		1
61	Multilayered Microfluidic Device for Controllable Flow Perfusion of Gut-Liver on a Chip. , 2021, , .		1
62	Design Strategy of Electrode Patterns Based on Finite Element Analysis in Microfluidic Device for Trans-Epithelial Electrical Resistance (TEER) Measurement. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 285-292.	0.1	1
63	Nanocasting of fibrous morphology on a substrate for long-term propagation of human induced pluripotent stem cells. Biomedical Materials (Bristol), 2022, 17, 025014.	3.3	1
64	In vitro culture at 39ÂÂ°C during hepatic maturation of human ES cells facilitates hepatocyte-like cell functions. Scientific Reports, 2022, 12, 5155.	3.3	1
65	Cellular sensing devices for assessing chemicals. , 0, , .		0
66	Microfluidic Image Cytometry. Methods in Molecular Biology, 2011, 706, 191-206.	0.9	0
67	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
68	Improved sensitivity of ionic liquid-based pressure sensor for body-on-a-chip using simulation-based 3D lithography. , 2018, , .		0
69	Nanofiber Extracellular Matrices in Regenerative Medicine. Fundamental Biomedical Technologies, 2021, , 235-251.	0.2	0
70	Response of human induced pluripotent stem cells to terahertz radiation. , 2021, , .		0
71	A Design Method of Organ-on-a-Chip with Highly Accurate Measurement of Trans-Epithelial Electrical Resistance. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 237-244.	0.1	0
72	Development of a Body-on-a-Chip Using 3-D Microstructuring Technique. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 229-236.	0.1	0

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73	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
74	Fabrication of ionic liquid-based pressure sensor with high sensitivity utilizing three-dimensional lithography and its characterization. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2018, 2018.9, 31am3PN133.	0.0	0
75	A microfluidic device to investigate the effect of shear stress on metastasis. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2019, 2019.10, 19am3PN321.	0.0	0
76	Novel Microfluidic Device Integrated with a Fluidic-Capacitor to Mimic Heart Beating for Generation of Functional Liver Organoids. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 209-216.	0.1	0
77	Fabrication of parylene-based microelectrode arrays for body-on-a-chip to monitor extracellular field potentials of cardiomyocytes. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2020, 2020.11, 26P2-MN1-2.	0.0	0
78	Randomness and optimality in enhanced DNA ligation with crowding effects. Physical Review Research, 2020, 2, .	3.6	0