Yuji Nashimoto

List of Publications by Year
in descending order

46 papers	1,213 citations	516710 16 h-index	395702 33 g-index
50 all docs	50 docs citations	50 times ranked	1390 citing authors

#	Article	IF	Citations
1	Bipolar Electrodeâ€based Electrochromic Devices for Analytical Applications â€“ A Review. Electroanalysis, 2022, 34, 212-226.	2.9	13
2	Electrochemical Glue for Binding Chitosanâ€“Alginate Hydrogel Fibers for Cell Culture. Micromachines, 2022, 13, 420.	2.9	4
3	Electrochemiluminescence imaging of cellular adhesion in vascular endothelial cells during tube formation on hydrogel scaffolds. Electrochimica Acta, 2022, 415, 140240.	5.2	12
4	Electrochemical Substrates and Systems for Enzyme-Based Bioassays. Bunseki Kagaku, 2022, 71, 109-117.	0.2	0
5	Electrodeposition of Thiolated Polymer-based Hydrogels via Disulfide Formation Using Electrogenerated Benzoquinone. Chemistry Letters, 2021, 50, 256-259.	1.3	0
6	Micropipet-Based Navigation in a Microvascular Model for Imaging Endothelial Cell Topography Using Scanning Ion Conductance Microscopy. Analytical Chemistry, 2021, 93, 4902-4908.	6.5	14
7	A Droplet Array Device for Electrochemical Detection of Methylene Blue Based on Local Redox Cycling. Bunseki Kagaku, 2021, 70, 183-189.	0.2	1
8	Electrochemiluminescence imaging of respiratory activity of cellular spheroids using sequential potential steps. Biosensors and Bioelectronics, 2021, 181, 113123.	10.1	26
9	Topography and Permeability Analyses of Vasculatureâ€onâ€aâ€Chip Using Scanning Probe Microscopies. Advanced Healthcare Materials, 2021, 10, e2101186.	7.6	6
10	Ion Conductance-Based Perfusability Assay of Vascular Vessel Models in Microfluidic Devices. Micromachines, 2021, 12, 1491.	2.9	2
11	Electrochemical Imaging of Endothelial Permeability Using a Large-Scale Integration-Based Device. ACS Omega, 2021, 6, 35476-35483.	3.5	8
12	Vascularized cancer on a chip: The effect of perfusion on growth and drug delivery of tumor spheroid. Biomaterials, 2020, 229, 119547.	11.4	201
13	Closed Bipolar Electrode Array for On-Chip Analysis of Cellular Respiration by Cell Aggregates. ACS Sensors, 2020, 5, 740-745.	7.8	45
14	Fabrication of three-dimensional calcium alginate hydrogels using sacrificial templates of sugar. Journal of Bioscience and Bioengineering, 2020, 130, 539-544.	2.2	14
15	Oxygen consumption rate of tumour spheroids during necrotic-like core formation. Analyst, The, 2020, 145, 6342-6348.	3.5	32
16	Recent Advances in Electrochemiluminescence-Based Systems for Mammalian Cell Analysis. Micromachines, 2020, 11, 530.	2.9	39
17	Electrochemical measurement of respiratory activity for evaluation of fibroblast spheroids containing endothelial cell networks. Electrochimica Acta, 2020, 340, 135979.	5.2	14
18	Biofabrication Using Electrochemical Devices and Systems. Advanced Biology, 2020, 4, e1900234.	3.0	17

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19	A new perfusion culture method with a self-organized capillary network. PLoS ONE, 2020, 15, e0240552.	2.5	20
20	Genipin Crosslinking of Electrodeposited Chitosan/Gelatin Hydrogels for Cell Culture. Chemistry Letters, 2019, 48, 1178-1180.	1.3	9
21	Site-Specific Cytosol Sampling from a Single Cell in an Intact Tumor Spheroid Using an Electrochemical Syringe. Analytical Chemistry, 2019, 91, 8772-8776.	6.5	4
22	Electric and Electrochemical Microfluidic Devices for Cell Analysis. Frontiers in Chemistry, 2019, 7, 396.	3.6	33
23	Combination of Double-Mediator System with Large-Scale Integration-Based Amperometric Devices for Detecting NAD(P)H:quinone Oxidoreductase 1 Activity of Cancer Cell Aggregates. ACS Sensors, 2019, 4, 1619-1625.	7.8	11
24	Electrochemical fabrication of fibrin gels via cascade reaction for cell culture. Chemical Communications, 2019, 55, 5335-5338.	4.1	7
25	Electrodeposition-based rapid bioprinting of 3D-designed hydrogels with a pin art device. Biofabrication, 2019, 11, 035018.	7.1	13
26	Electrochemical Imaging of Cell Activity in Hydrogels Embedded in Grid-shaped Polycaprolactone Scaffolds Using a Large-scale Integration-based Amperometric Device. Analytical Sciences, 2019, 35, 39-43.	1.6	7
27	Differential Electrochemicolor Imaging Using LSI-based Device for Simultaneous Detection of Multiple Analytes. Sensors and Materials, 2019, 31, 13.	0.5	6
28	Electrochemical imaging using redox mediators for cell activity of three-dimensional cultured cells. , 2019, , .		1
29	Perfusable Vascular Network with a Tissue Model in a Microfluidic Device. Journal of Visualized Experiments, 2018, , .	0.3	6
30	Engineering of vascularized 3D cell constructs to model cellular interactions through a vascular network. Biomicrofluidics, 2018, 12, 042204.	2.4	42
31	Hydrogel electrodeposition based on bipolar electrochemistry. Lab on A Chip, 2018, 18, 2425-2432.	6.0	18
32	Intracellular Electrochemical Sensing. Electroanalysis, 2018, 30, 2195-2209.	2.9	21
33	Engineering a Perfusable Vascular Network in a Microfluidic Device for a Morphological Analysis. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 275-280.	0.1	1
34	Integrating perfusable vascular networks with a three-dimensional tissue in a microfluidic device. Integrative Biology (United Kingdom), 2017, 9, 506-518.	1.3	188
35	Continuous collection and simultaneous detection of picoliter volume of nucleic acid samples using a mille-feuille probe. Analytical and Bioanalytical Chemistry, 2017, 409, 961-969.	3.7	9
36	Evaluation of mRNA Localization Using Double Barrel Scanning Ion Conductance Microscopy. ACS Nano, 2016, 10, 6915-6922.	14.6	58

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37	Localized Gene Expression Analysis during Sprouting Angiogenesis in Mouse Embryoid Bodies Using a Double Barrel Carbon Probe. Analytical Chemistry, 2016, 88, 610-613.	6.5	8
38	Nanoscale Imaging of an Unlabeled Secretory Protein in Living Cells Using Scanning Ion Conductance Microscopy. Analytical Chemistry, 2015, 87, 2542-2545.	6.5	26
39	Hydrogels containing metallic glass sub-micron wires for regulating skeletal muscle cell behaviour. Biomaterials Science, 2015, 3, 1449-1458.	5.4	27
40	Isolation and quantification of messenger RNA from tissue models by using a double-barrel carbon probe. Analytical and Bioanalytical Chemistry, 2014, 406, 275-282.	3.7	6
41	1P265 Collection and quantification of messenger RNA from tissue models by double barrel carbon probe(21A. Genome biology: Genome analysis,Poster). Seibutsu Butsuri, 2013, 53, S149.	0.1	0
42	A microfluidic dual capillary probe to collect messenger RNA from adherent cells and spheroids. Analytical Biochemistry, 2009, 385, 138-142.	2.4	35
43	Measurement of Gene Expression from Single Adherent Cells and Spheroids Collected Using Fast Electrical Lysis. Analytical Chemistry, 2007, 79, 6823-6830.	6.5	38
44	Regulation and characterization of the polarity of cells embedded in a reconstructed basement matrix using a three-dimensional micro-culture system. Biotechnology and Bioengineering, 2007, 97, 615-621.	3.3	8
45	A multicellular spheroid array to realize spheroid formation, culture, and viability assay on a chip. Biomaterials, 2007, 28, 559-566.	11.4	159
46	In vitro electrochemical assays for vascular cells and organs. Electrochemical Science Advances, 0, , e2100089.	2.8	3