

Yuji Nashimoto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3534312/publications.pdf>

Version: 2024-02-01

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	Vascularized cancer on a chip: The effect of perfusion on growth and drug delivery of tumor spheroid. <i>Biomaterials</i> , 2020, 229, 119547.	11.4	201
2	Integrating perfusable vascular networks with a three-dimensional tissue in a microfluidic device. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 506-518.	1.3	188
3	A multicellular spheroid array to realize spheroid formation, culture, and viability assay on a chip. <i>Biomaterials</i> , 2007, 28, 559-566.	11.4	159
4	Evaluation of mRNA Localization Using Double Barrel Scanning Ion Conductance Microscopy. <i>ACS Nano</i> , 2016, 10, 6915-6922.	14.6	58
5	Closed Bipolar Electrode Array for On-Chip Analysis of Cellular Respiration by Cell Aggregates. <i>ACS Sensors</i> , 2020, 5, 740-745.	7.8	45
6	Engineering of vascularized 3D cell constructs to model cellular interactions through a vascular network. <i>Biomicrofluidics</i> , 2018, 12, 042204.	2.4	42
7	Recent Advances in Electrochemiluminescence-Based Systems for Mammalian Cell Analysis. <i>Micromachines</i> , 2020, 11, 530.	2.9	39
8	Measurement of Gene Expression from Single Adherent Cells and Spheroids Collected Using Fast Electrical Lysis. <i>Analytical Chemistry</i> , 2007, 79, 6823-6830.	6.5	38
9	A microfluidic dual capillary probe to collect messenger RNA from adherent cells and spheroids. <i>Analytical Biochemistry</i> , 2009, 385, 138-142.	2.4	35
10	Electric and Electrochemical Microfluidic Devices for Cell Analysis. <i>Frontiers in Chemistry</i> , 2019, 7, 396.	3.6	33
11	Oxygen consumption rate of tumour spheroids during necrotic-like core formation. <i>Analyst, The</i> , 2020, 145, 6342-6348.	3.5	32
12	Hydrogels containing metallic glass sub-micron wires for regulating skeletal muscle cell behaviour. <i>Biomaterials Science</i> , 2015, 3, 1449-1458.	5.4	27
13	Nanoscale Imaging of an Unlabeled Secretory Protein in Living Cells Using Scanning Ion Conductance Microscopy. <i>Analytical Chemistry</i> , 2015, 87, 2542-2545.	6.5	26
14	Electrochemiluminescence imaging of respiratory activity of cellular spheroids using sequential potential steps. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113123.	10.1	26
15	Intracellular Electrochemical Sensing. <i>Electroanalysis</i> , 2018, 30, 2195-2209.	2.9	21
16	A new perfusion culture method with a self-organized capillary network. <i>PLoS ONE</i> , 2020, 15, e0240552.	2.5	20
17	Hydrogel electrodeposition based on bipolar electrochemistry. <i>Lab on A Chip</i> , 2018, 18, 2425-2432.	6.0	18
18	Biofabrication Using Electrochemical Devices and Systems. <i>Advanced Biology</i> , 2020, 4, e1900234.	3.0	17

#	ARTICLE	IF	CITATIONS
19	Fabrication of three-dimensional calcium alginate hydrogels using sacrificial templates of sugar. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 539-544.	2.2	14
20	Electrochemical measurement of respiratory activity for evaluation of fibroblast spheroids containing endothelial cell networks. <i>Electrochimica Acta</i> , 2020, 340, 135979.	5.2	14
21	Micropipet-Based Navigation in a Microvascular Model for Imaging Endothelial Cell Topography Using Scanning Ion Conductance Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 4902-4908.	6.5	14
22	Electrodeposition-based rapid bioprinting of 3D-designed hydrogels with a pin art device. <i>Biofabrication</i> , 2019, 11, 035018.	7.1	13
23	Bipolar Electrode-Based Electrochromic Devices for Analytical Applications – A Review. <i>Electroanalysis</i> , 2022, 34, 212-226.	2.9	13
24	Electrochemiluminescence imaging of cellular adhesion in vascular endothelial cells during tube formation on hydrogel scaffolds. <i>Electrochimica Acta</i> , 2022, 415, 140240.	5.2	12
25	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. <i>ACS Sensors</i> , 2019, 4, 1619-1625.	7.8	11
26	Continuous collection and simultaneous detection of picoliter volume of nucleic acid samples using a mille-feuille probe. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 961-969.	3.7	9
27	Genipin Crosslinking of Electrodeposited Chitosan/Gelatin Hydrogels for Cell Culture. <i>Chemistry Letters</i> , 2019, 48, 1178-1180.	1.3	9
28	Regulation and characterization of the polarity of cells embedded in a reconstructed basement matrix using a three-dimensional micro-culture system. <i>Biotechnology and Bioengineering</i> , 2007, 97, 615-621.	3.3	8
29	Localized Gene Expression Analysis during Sprouting Angiogenesis in Mouse Embryoid Bodies Using a Double Barrel Carbon Probe. <i>Analytical Chemistry</i> , 2016, 88, 610-613.	6.5	8
30	Electrochemical Imaging of Endothelial Permeability Using a Large-Scale Integration-Based Device. <i>ACS Omega</i> , 2021, 6, 35476-35483.	3.5	8
31	Electrochemical fabrication of fibrin gels via cascade reaction for cell culture. <i>Chemical Communications</i> , 2019, 55, 5335-5338.	4.1	7
32	Electrochemical Imaging of Cell Activity in Hydrogels Embedded in Grid-shaped Polycaprolactone Scaffolds Using a Large-scale Integration-based Amperometric Device. <i>Analytical Sciences</i> , 2019, 35, 39-43.	1.6	7
33	Isolation and quantification of messenger RNA from tissue models by using a double-barrel carbon probe. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 275-282.	3.7	6
34	Perfusable Vascular Network with a Tissue Model in a Microfluidic Device. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	6
35	Topography and Permeability Analyses of Vasculature-on-a-Chip Using Scanning Probe Microscopies. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101186.	7.6	6
36	Differential Electrochemicolor Imaging Using LSI-based Device for Simultaneous Detection of Multiple Analytes. <i>Sensors and Materials</i> , 2019, 31, 13.	0.5	6

#	ARTICLE	IF	CITATIONS
37	Site-Specific Cytosol Sampling from a Single Cell in an Intact Tumor Spheroid Using an Electrochemical Syringe. <i>Analytical Chemistry</i> , 2019, 91, 8772-8776.	6.5	4
38	Electrochemical Glue for Binding Chitosan-Alginate Hydrogel Fibers for Cell Culture. <i>Micromachines</i> , 2022, 13, 420.	2.9	4
39	In vitro electrochemical assays for vascular cells and organs. <i>Electrochemical Science Advances</i> , 0, , e2100089.	2.8	3
40	Ion Conductance-Based Perfusability Assay of Vascular Vessel Models in Microfluidic Devices. <i>Micromachines</i> , 2021, 12, 1491.	2.9	2
41	A Droplet Array Device for Electrochemical Detection of Methylene Blue Based on Local Redox Cycling. <i>Bunseki Kagaku</i> , 2021, 70, 183-189.	0.2	1
42	Engineering a Perfusable Vascular Network in a Microfluidic Device for a Morphological Analysis. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2018, 138, 275-280.	0.1	1
43	Electrochemical imaging using redox mediators for cell activity of three-dimensional cultured cells. , 2019, , .		1
44	1P265 Collection and quantification of messenger RNA from tissue models by double barrel carbon probe(21A. <i>Genome biology: Genome analysis,Poster</i>). <i>Seibutsu Butsuri</i> , 2013, 53, S149.	0.1	0
45	Electrodeposition of Thiolated Polymer-based Hydrogels via Disulfide Formation Using Electrogenerated Benzoquinone. <i>Chemistry Letters</i> , 2021, 50, 256-259.	1.3	0
46	Electrochemical Substrates and Systems for Enzyme-Based Bioassays. <i>Bunseki Kagaku</i> , 2022, 71, 109-117.	0.2	0