

Kuniaki Nagamine

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,873
citations

257450

24
h-index

265206

42
g-index

69
all docs

69
docs citations

69
times ranked

2527
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Conductive Stretchable and Biocompatible Electrode-Hydrogel Hybrids for Advanced Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2014, 3, 1919-1927.	7.6	138
2	Conducting Polymer Electrodes Printed on Hydrogel. <i>Journal of the American Chemical Society</i> , 2010, 132, 13174-13175.	13.7	136
3	Organic Transdermal Iontophoresis Patch with Built-in Biofuel Cell. <i>Advanced Healthcare Materials</i> , 2015, 4, 506-510.	7.6	94
4	Topographic imaging of convoluted surface of live cells by scanning ion conductance microscopy in a standing approach mode. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10012.	2.8	91
5	Noninvasive Sweat-Lactate Biosensor Employing a Hydrogel-Based Touch Pad. <i>Scientific Reports</i> , 2019, 9, 10102.	3.3	90
6	Spatiotemporally controlled contraction of micropatterned skeletal muscle cells on a hydrogel sheet. <i>Lab on A Chip</i> , 2011, 11, 513-517.	6.0	80
7	Intrinsically Stretchable Electrochromic Display by a Composite Film of Poly(3,4-ethylenedioxythiophene) and Polyurethane. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19513-19518.	8.0	78
8	Porous polymer microneedles with interconnecting microchannels for rapid fluid transport. <i>RSC Advances</i> , 2016, 6, 48630-48635.	3.6	74
9	Microfluidic co-cultures of retinal pigment epithelial cells and vascular endothelial cells to investigate choroidal angiogenesis. <i>Scientific Reports</i> , 2017, 7, 3538.	3.3	69
10	Electrochemical mutagen screening using microbial chip. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1202-1209.	10.1	60
11	Electrically induced contraction of C2C12 myotubes cultured on a porous membrane-based substrate with muscle tissue-like stiffness. <i>Biomaterials</i> , 2010, 31, 6981-6986.	11.4	60
12	Micropatterning contractile C ₂ C ₁₂ myotubes embedded in a fibrin gel. <i>Biotechnology and Bioengineering</i> , 2010, 105, 1161-1167.	3.3	53
13	A Printed Organic Amplification System for Wearable Potentiometric Electrochemical Sensors. <i>Scientific Reports</i> , 2018, 8, 3922.	3.3	52
14	Electrochemical Monitoring of Cellular Signal Transduction with a Secreted Alkaline Phosphatase Reporter System. <i>Analytical Chemistry</i> , 2006, 78, 7625-7631.	6.5	51
15	Electrophoretic Cell Manipulation and Electrochemical Gene-Function Analysis Based on a Yeast Two-Hybrid System in a Microfluidic Device. <i>Analytical Chemistry</i> , 2008, 80, 3722-3727.	6.5	48
16	An array of porous microneedles for transdermal monitoring of intercellular swelling. <i>Biomedical Microdevices</i> , 2017, 19, 68.	2.8	43
17	A Printed Organic Circuit System for Wearable Amperometric Electrochemical Sensors. <i>Scientific Reports</i> , 2018, 8, 6368.	3.3	43
18	Totally shape-conformable electrode/hydrogel composite for on-skin electrophysiological measurements. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 49-53.	7.8	41

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19	Printed Organic Transistor-Based Enzyme Sensor for Continuous Glucose Monitoring in Wearable Healthcare Applications. <i>ChemElectroChem</i> , 2018, 5, 3881-3886.	3.4	36
20	Conducting Polymer Microelectrodes Anchored to Hydrogel Films. <i>ACS Macro Letters</i> , 2012, 1, 400-403.	4.8	35
21	Respiration activity of <i>Escherichia coli</i> entrapped in a cone-shaped microwell and cylindrical micropore monitored by scanning electrochemical microscopy (SECM). <i>Analyst, The</i> , 2004, 129, 529.	3.5	34
22	On-chip electrochemical measurement of β -galactosidase expression using a microbial chip. <i>Chemical Communications</i> , 2004, , 248-249.	4.1	30
23	On-Chip Transformation of Bacteria. <i>Analytical Chemistry</i> , 2005, 77, 4278-4281.	6.5	29
24	Printed Organic Transistor-based Biosensors for Non-invasive Sweat Analysis. <i>Analytical Sciences</i> , 2020, 36, 291-302.	1.6	26
25	Portable Micropatterns of Neuronal Cells Supported by Thin Hydrogel Films. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 329-334.	5.2	22
26	A fully screen-printed potentiometric chloride ion sensor employing a hydrogel-based touchpad for simple and non-invasive daily electrolyte analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1883-1891.	3.7	21
27	Amperometric detection of the bacterial metabolic regulation with a microbial array chip. <i>Biosensors and Bioelectronics</i> , 2005, 21, 145-151.	10.1	20
28	Influence of Tip Size on Single Yeast Cell Imaging Using Scanning Electrochemical Microscopy. <i>Electroanalysis</i> , 2011, 23, 1168-1174.	2.9	20
29	Contractile Skeletal Muscle Cells Cultured with a Conducting Soft Wire for Effective, Selective Stimulation. <i>Scientific Reports</i> , 2018, 8, 2253.	3.3	20
30	Detection of 1,5-anhydroglucitol as a Biomarker for Diabetes Using an Organic Field-Effect Transistor-Based Biosensor. <i>Technologies</i> , 2018, 6, 77.	5.1	20
31	Application of microbial chip for amperometric detection of metabolic alteration in bacteria. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 676-682.	7.8	19
32	Cytokine assay on a cellular chip by combining collagen gel embedded culture with scanning electrochemical microscopy. <i>Analytica Chimica Acta</i> , 2006, 566, 55-59.	5.4	19
33	Hydrogel Microchambers Integrated with Organic Electrodes for Efficient Electrical Stimulation of Human iPSC-Derived Cardiomyocytes. <i>Macromolecular Bioscience</i> , 2019, 19, 1900060.	4.1	19
34	Fabrication of microbial chip using collagen gel microstructure. <i>Lab on A Chip</i> , 2003, 3, 313.	6.0	18
35	Electrochemical characterization of enzymatic activity of yeast cells entrapped in a poly(dimethylsiloxane) microwell on the basis of limited diffusion system. <i>Analyst, The</i> , 2009, 134, 182-187.	3.5	16
36	Electrochemical screening of recombinant protein solubility in <i>Escherichia coli</i> using scanning electrochemical microscopy (SECM). <i>Biotechnology and Bioengineering</i> , 2007, 96, 1008-1013.	3.3	15

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37	Organic-transistor-based biosensors interfaced with human skin for non-invasive perspiration analysis. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130778.	7.8	15
38	Stretchable, transparent and molecular permeable honeycomb electrodes and their hydrogel hybrids prepared by the breath figure method and sputtering of metals. <i>RSC Advances</i> , 2015, 5, 88414-88418.	3.6	14
39	Electrochemical Characterization of TEMPO Radical in Ionic Liquids. <i>Electrochemistry</i> , 2020, 88, 34-38.	1.4	13
40	Electric Charge Detection of Sparse Organic Acid Molecules Using an Organic Field-Effect Transistor (OFET)-Based Sensor. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1020-1025.	3.2	12
41	Minimally-invasive transepidermal potentiometry with microneedle salt bridge. <i>Biomedical Microdevices</i> , 2016, 18, 55.	2.8	10
42	A Microbial Chip for Glucose Sensing Studied with Scanning Electrochemical Microscopy (SECM). <i>Electrochemistry</i> , 2003, 71, 436-438.	1.4	10
43	Microfluidic Devices for Electrochemical Measurement of Photosynthetic Activity of Cyanobacteria Microcystis Cells. <i>Analytical Sciences</i> , 2012, 28, 69-72.	1.6	9
44	Electrochemical enzyme biosensor for carnitine detection based on cathodic stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128473.	7.8	9
45	Electrodes Combined with an Agarose Stamp for Addressable Micropatterning. <i>Langmuir</i> , 2010, 26, 11526-11529.	3.5	7
46	Detection of Odorant Molecules in the Gaseous Phase Using $\hat{1}\pm$, $\hat{1}^2$, and $\hat{1}^3$ -Cyclodextrin Films on a Quartz Crystal Microbalance. <i>Technologies</i> , 2018, 6, 63.	5.1	7
47	An electrochemical device with microwells for determining the photosynthetic activity of a single cyanobacterium. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 474-478.	7.8	6
48	Hydrogel-based bioassay sheets for in vitro evaluation of contraction-dependent metabolic regulation in skeletal muscle cells. <i>Biomaterials Science</i> , 2014, 2, 252-256.	5.4	6
49	Charge-accumulative Potentiometric Measurements for Ammonia Detection Using an Enzymatic Cascade Reaction on a Prussian Blue Electrode. <i>Chemistry Letters</i> , 2018, 47, 1412-1415.	1.3	6
50	Bonding of synthetic hydrogels with fibrin as the glue to engineer hydrogel-based biodevices. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 94-97.	2.2	4
51	Electroporation of Adherent Cells by Direct Lamination of Hydrogel-based Microelectrode Substrates. <i>Chemistry Letters</i> , 2014, 43, 444-446.	1.3	4
52	Constructive Optimization of a Multienzymatic Film Based on a Cascade Reaction for Electrochemical Biosensors. <i>ACS Omega</i> , 2020, 5, 32844-32851.	3.5	4
53	Skin Patches: Organic Transdermal Iontophoresis Patch with Built-in Biofuel Cell (Adv. Healthcare) <i>Tj ETQq1 1 0.784314 rgBT /Overlaid</i>	7.6	3
54	Highly stretchable cell-cultured hydrogel sheet. <i>RSC Advances</i> , 2015, 5, 66334-66338.	3.6	3

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55	Development of a highly sensitive Prussian-blue-based enzymatic biosensor for l-carnitine employing the thiol/disulfide exchange reaction. <i>Analytical Sciences</i> , 2022, 38, 963-968.	1.6	3
56	An Oxygen Responsive Microparticle-Patterned Hydrogel Sheet for Enzyme Activity Imaging. <i>Electrochemistry</i> , 2012, 80, 318-320.	1.4	2
57	Flexible and printed biosensors based on organic TFT devices. , 2019, , 291-306.		2
58	Hydrogel-based sealed microchamber arrays for rapid medium exchange and drug testing of cell spheroids. <i>Biomedical Microdevices</i> , 2020, 22, 49.	2.8	2
59	Hydrogel-supported skeletal muscle cell-based bioassay system. , 2011, , .		1
60	Stable Immobilization of Mediator in Porous Carbon Material via Capping Technique for Fabricating Sensitive Enzyme-based Glucose Sensor. <i>Sensors and Materials</i> , 2021, 33, 3245.	0.5	1
61	Stretchable patches and devices toward electronics on the skin. , 2016, , .		0
62	Hydrogel-based electrical stimulation culture system to control the engineered cellular activities driven by nano biomolecules. , 2016, , .		0
63	Organic skin patch with built-in enzymatic battery. , 2016, , .		0
64	A heat-melt adhesive-assisted transferable electrode films. <i>Scientific Reports</i> , 2021, 11, 36.	3.3	0
65	2C42 Development of the transdermal drug delivery patch driven by enzymatic reaction. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2015, 2015.27, 417-418.	0.0	0
66	Development of Electrical Device for Evaluation and Control of Skin Function. <i>The Proceedings of the JSME Conference on Frontiers in Bioengineering</i> , 2017, 2017.28, 2B12.	0.0	0
67	Development of the printed organic transistor-based biosensors for non-invasive physiological sensing. <i>Denki Kagaku</i> , 2020, 88, 326-330.	0.0	0
68	Printed Electronics-Enabled Wearable/Portable Physical and Chemical Sensors for Personal Digital Healthcare Usage. , 2021, , .		0