

Kikuo Komori

List of Publications by Year in descending order

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47
papers

973
citations

516710

16
h-index

454955

30
g-index

50
all docs

50
docs citations

50
times ranked

1632
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro enzymatic electrochemical monitoring of glucose metabolism and production in rat primary hepatocytes on highly O ₂ permeable plates. <i>Bioelectrochemistry</i> , 2022, 143, 107972.	4.6	1
2	Coculture with hiPS-derived intestinal cells enhanced human hepatocyte functions in a pneumatic-pressure-driven two-organ microphysiological system. <i>Scientific Reports</i> , 2021, 11, 5437.	3.3	18
3	Bioelectrochemical detection of histamine release from basophilic leukemia cell line based on histamine dehydrogenase-modified cup-stacked carbon nanofibers. <i>Bioelectrochemistry</i> , 2021, 138, 107719.	4.6	4
4	Application of a Thin-Film Transistor Array for Cellular-Resolution Electrophysiology and Electrochemistry. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 2041-2048.	3.0	4
5	Toward the development of a label-free multiple immunosensor based on thin film transistor microelectrode arrays. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 115002.	2.6	3
6	Biodegradable and hollowed micro-scaffolds for improved modular assembly-based tissue engineering: Design, 3D fabrication, and feasibility in randomly packed perfusion culture. <i>Biochemical Engineering Journal</i> , 2019, 149, 107239.	3.6	4
7	Toward the Development of In Vitro Bioassay Systems Integrated with Electrochemical Biosensors. , 2018, , .		0
8	Integration of an oxygen sensor into a polydimethylsiloxane hepatic culture device for two-dimensional gradient characterization. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1062-1069.	7.8	12
9	Graphene-Polyaniline composite based ultra-sensitive electrochemical sensor for non-enzymatic detection of urea. <i>Electrochimica Acta</i> , 2017, 233, 44-51.	5.2	125
10	Controlled direct electron transfer kinetics of fructose dehydrogenase at cup-stacked carbon nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27795-27800.	2.8	17
11	Enhanced self-organization of size-controlled hepatocyte aggregates on oxygen permeable honeycomb microwell sheets. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 045016.	1.2	7
12	Amperometric pH Sensor Based on Graphene-Polyaniline Composite. <i>IEEE Sensors Journal</i> , 2017, 17, 5038-5043.	4.7	34
13	Electrochemical properties of seamless three-dimensional carbon nanotubes-grown graphene modified with horseradish peroxidase. <i>Bioelectrochemistry</i> , 2016, 111, 57-61.	4.6	16
14	Oxygenated Cup-Stacked Carbon Nanofibers/TiO ₂ Composite Films with Enhanced Photocatalytic Currents. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 603-607.	3.2	3
15	Novel integrative methodology for engineering large liver tissue equivalents based on three-dimensional scaffold fabrication and cellular aggregate assembly. <i>Biofabrication</i> , 2016, 8, 035016.	7.1	14
16	Direct Electron Transfer Kinetics of Peroxidase at Edge Plane Sites of Cup-Stacked Carbon Nanofibers and Their Comparison with Single-Walled Carbon Nanotubes. <i>Langmuir</i> , 2016, 32, 9163-9170.	3.5	24
17	Bioelectrochemistry of Heme Peptide at Seamless Three-Dimensional Carbon Nanotubes/Graphene Hybrid Films for Highly Sensitive Electrochemical Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3647-3654.	8.0	39
18	New physiologically-relevant liver tissue model based on hierarchically cocultured primary rat hepatocytes with liver endothelial cells. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1412-1422.	1.3	28

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19	Electrochemically Functionalized Seamless Three-Dimensional Graphene-Carbon Nanotube Hybrid for Direct Electron Transfer of Glucose Oxidase and Bioelectrocatalysis. <i>Langmuir</i> , 2015, 31, 13054-13061.	3.5	61
20	Combination of microwell structures and direct oxygenation enables efficient and size-regulated aggregate formation of an insulin-secreting pancreatic β -cell line. <i>Biotechnology Progress</i> , 2014, 30, 178-187.	2.6	41
21	Oxygen-permeable membrane-based direct oxygenation remarkably enhances functions and gene expressions of rat hepatocytes in both 3D and sandwich cultures. <i>Biochemical Engineering Journal</i> , 2014, 91, 99-109.	3.6	9
22	Electrochemical properties of oxygenated cup-stacked carbon nanofiber-modified electrodes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12209-12213.	2.8	14
23	The importance of physiological oxygen concentrations in the sandwich cultures of rat hepatocytes on gas-permeable membranes. <i>Biotechnology Progress</i> , 2014, 30, 1401-1410.	2.6	27
24	Formation and harvesting of thick pancreatic β -cell sheets on a highly O ₂ -permeable plate modified with poly(N-isopropylacrylamide). <i>Biomaterials Science</i> , 2013, 1, 510.	5.4	12
25	Peroxidase-modified cup-stacked carbon nanofiber networks for electrochemical biosensing with adjustable dynamic range. <i>RSC Advances</i> , 2012, 2, 1444-1449.	3.6	23
26	Direct Synthesis of Cup-Stacked Carbon Nanofiber Microspheres by the Catalytic Pyrolysis of Poly(ethylene glycol). <i>Langmuir</i> , 2012, 28, 8760-8766.	3.5	11
27	Liver tissue engineering based on aggregate assembly: efficient formation of endothelialized rat hepatocyte aggregates and their immobilization with biodegradable fibres. <i>Biofabrication</i> , 2012, 4, 045004.	7.1	21
28	Development of a well-of-the-well system-based embryo culture plate with an oxygen sensing photoluminescent probe. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 278-283.	7.8	8
29	Phthalocyanine-based fluorescence probes for detecting ascorbic acid: phthalocyaninatosilicon covalently linked to TEMPO radicals. <i>Chemical Communications</i> , 2011, 47, 4932.	4.1	59
30	Cytotoxicity evaluation of reactive metabolites using rat liver homogenate microsome-encapsulated alginate gel microbeads. <i>Journal of Bioscience and Bioengineering</i> , 2011, 111, 454-458.	2.2	2
31	Electrochemical biosensor for the detection of H ₂ O ₂ from living cancer cells based on ZnO nanosheets. <i>Analytica Chimica Acta</i> , 2010, 670, 57-62.	5.4	124
32	Simultaneous evaluation of toxicities using a mammalian cell array chip prepared by photocatalytic lithography. <i>Analytica Chimica Acta</i> , 2009, 653, 222-227.	5.4	7
33	A rapid and simple evaluation system for gas toxicity using luminous bacteria entrapped by a polyion complex membrane. <i>Chemosphere</i> , 2009, 77, 1106-1112.	8.2	9
34	A micropatterned cell array with an integrated oxygen -sensitive fluorescent membrane. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1529-1533.	2.9	11
35	Initial Characterization of a Fibroblast-loaded Porous Elastin Film Reconstituted by a Novel Crosslinker, Dode-DSP. <i>Chemistry Letters</i> , 2009, 38, 878-879.	1.3	0
36	Enhanced maintenance and functions of rat hepatocytes induced by combination of on-site oxygenation and coculture with fibroblasts. <i>Journal of Biotechnology</i> , 2008, 133, 253-260.	3.8	58

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37	Development of an in vitro Batch-type Closed Gas Exposure Device with an Alveolar Epithelial Cell Line, A549, for Toxicity Evaluations of Gaseous Compounds. <i>Analytical Sciences</i> , 2008, 24, 957-962.	1.6	16
38	Development of a disposable multi-compartment micro-cell culture device. , 2007, , .		0
39	Electrochemiluminescence of Ru(II) Complexes Immobilized on a Magnetic Microbead Surface:Â Distribution of Magnetic Microbeads on the Electrode Surface and Effect of Azide Ion. <i>Langmuir</i> , 2007, 23, 6446-6452.	3.5	16
40	Electrodes Modified with the Phase Transition Polymer and Heme Peptide:Â Biocatalysis and Biosensing with Tunable Activity and Dynamic Range. <i>Langmuir</i> , 2006, 22, 478-483.	3.5	12
41	Towards the development of a multi-compartment micro-cell culture device. , 2006, , .		0
42	Toward Selectivity Control of a Heme Peptide Electrode by Modification with a Phase-Transition Polymer. <i>Analytical Sciences</i> , 2005, 21, 351-353.	1.6	5
43	Control of heme peptide activity by using phase transition polymers modified with inhibitors. <i>Bioelectrochemistry</i> , 2005, 65, 129-134.	4.6	16
44	Peroxidase model electrodes: Self-mediation of heme peptide multilayer-modified electrodes and its application to biosensing with adjustable dynamic range. <i>Journal of Electroanalytical Chemistry</i> , 2005, 585, 89-96.	3.8	14
45	Activity regulation of tyrosinase by using photoisomerizable inhibitors. <i>Journal of Biotechnology</i> , 2004, 108, 11-16.	3.8	14
46	Interference-Based Electrochemical Biosensor for the Measurement of the Concentration and Isomer Ratio of Urocanic Acid. <i>Analytical Chemistry</i> , 2002, 74, 5154-5156.	6.5	7
47	Disposable test plates with tyrosinase and Î²-glucosidases for cyanide and cyanogenic glycosides. <i>Analytica Chimica Acta</i> , 2000, 408, 233-240.	5.4	22