

Kousuke Tsukada

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,044
citations

516561

16
h-index

414303

32
g-index

51
all docs

51
docs citations

51
times ranked

1441
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Measurement of Erythrocyte Deformability in Diabetes Mellitus with a Transparent Microchannel Capillary Model and High-Speed Video Camera System. <i>Microvascular Research</i> , 2001, 61, 231-239.	1.1	212
2	Perivascular nitric oxide gradients normalize tumor vasculature. <i>Nature Medicine</i> , 2008, 14, 255-257.	15.2	161
3	Roles of Hemoglobin Allosteric in Hypoxia-induced Metabolic Alterations in Erythrocytes. <i>Journal of Biological Chemistry</i> , 2007, 282, 10731-10741.	1.6	83
4	Image correlation method for measuring blood flow velocity in microcirculation: correlation 'window' simulation and in vivo image analysis. <i>Physiological Measurement</i> , 2000, 21, 459-471.	1.2	60
5	Development of catheter-type optical oxygen sensor and applications to bioinstrumentation. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1439-1445.	5.3	53
6	Near-Infrared Laser Adjuvant for Influenza Vaccine. <i>PLoS ONE</i> , 2013, 8, e82899.	1.1	39
7	Fenofibrate, a Peroxisome Proliferator-Activated Receptor α Agonist, Improves Hepatic Microcirculatory Patency and Oxygen Availability in a High-Fat-Diet-Induced Fatty Liver in Mice. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 77-82.	0.8	35
8	An in vitro hepatic zonation model with a continuous oxygen gradient in a microdevice. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 767-771.	1.0	34
9	Biodegradable polycaprolactone nanofibres with β -chitosan and calcium carbonate produce a hemostatic effect. <i>Polymer</i> , 2017, 123, 194-202.	1.8	34
10	Red blood cell velocity and oxygen tension measurement in cerebral microvessels by double-wavelength photoexcitation. <i>Journal of Applied Physiology</i> , 2004, 96, 1561-1568.	1.2	26
11	Facile design of plant-oil-infused fine surface asperity for transparent blood-repelling endoscope lens. <i>RSC Advances</i> , 2016, 6, 47579-47587.	1.7	26
12	Near-Infrared 1064 nm Laser Modulates Migratory Dendritic Cells To Augment the Immune Response to Intradermal Influenza Vaccine. <i>Journal of Immunology</i> , 2017, 199, 1319-1332.	0.4	24
13	Platelet adhesion and arteriolar dilation in the photothrombosis: observation with the rat closed cranial and spinal windows. <i>Journal of the Neurological Sciences</i> , 2002, 194, 59-69.	0.3	22
14	Optical Bioimaging: From Living Tissue to a Single Molecule: Imaging and Functional Analysis of Blood Flow in Organic Microcirculation. <i>Journal of Pharmacological Sciences</i> , 2003, 93, 227-233.	1.1	19
15	Accuracy and safety verification of ovarian reserve assessment technique for ovarian tissue transplantation using optical coherence tomography in mice ovary. <i>Scientific Reports</i> , 2017, 7, 43550.	1.6	18
16	Brief Exposure of Skin to Near-Infrared Laser Modulates Mast Cell Function and Augments the Immune Response. <i>Journal of Immunology</i> , 2018, 201, 3587-3603.	0.4	18
17	Semiconductor diode laser device adjuvanting intradermal vaccine. <i>Vaccine</i> , 2017, 35, 2404-2412.	1.7	16
18	Leukocyte plugging and cortical capillary flow after subarachnoid hemorrhage. <i>Acta Neurochirurgica</i> , 2016, 158, 1057-1067.	0.9	15

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19	Hypoxia-Inducible Factor-1 Is a Determinant of Lobular Structure and Oxygen Consumption in the Liver. <i>Microcirculation</i> , 2013, 20, 385-393.	1.0	14
20	Cortical microcirculatory disturbance in the super acute phase of subarachnoid hemorrhage - In vivo analysis using two-photon laser scanning microscopy. <i>Journal of the Neurological Sciences</i> , 2016, 368, 326-333.	0.3	14
21	Erythrocytes with T-State-“Stabilized Hemoglobin as a Therapeutic Tool for Postischemic Liver Dysfunction. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 1847-1855.	2.5	11
22	Preliminary human application of optical coherence tomography for quantification and localization of primordial follicles aimed at effective ovarian tissue transplantation. <i>Journal of Assisted Reproduction and Genetics</i> , 2018, 35, 627-636.	1.2	11
23	Real-time Imaging of Vaccine Biodistribution Using Zwitterionic NIR Nanoparticles. <i>Advanced Healthcare Materials</i> , 2019, 8, 1900035.	3.9	10
24	High-throughput single-cell live imaging of photobiomodulation with multispectral near-infrared lasers in cultured T cells. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	10
25	Carbon Monoxide as a Guardian against Hepatobiliary Dysfunction. <i>Alcoholism: Clinical and Experimental Research</i> , 2005, 29, 134S-139S.	1.4	9
26	Phosphorescence-Assisted Microvascular O ₂ Measurements Reveal Alterations of Oxygen Demand in Human Metastatic Colon Cancer in the Liver of Superimmunodeficient NOG Mice. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 423-429.	0.8	9
27	Generation of an Oxygen Gradient in a Microfluidic Device and Cellular Analysis in Hypoxia. <i>Advanced Biomedical Engineering</i> , 2013, 2, 143-149.	0.4	7
28	Co-culture Microdevice with Oxygen Gradient for Tumor Microenvironment Model and Metastasis Imaging. <i>American Journal of Biomedical Engineering</i> , 2012, 2, 175-180.	0.9	7
29	T-state Stabilization of Hemoglobin by Nitric Oxide to Form Î±-Nitrosyl Heme Causes Constitutive Release of ATP from Human Erythrocytes. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 109-114.	0.8	6
30	Increasing surface-enhanced Raman scattering density using gold-coated magnetic nanoparticles controlled via a magnetic field for sensitive and efficient biomarker detection. <i>AIP Advances</i> , 2019, 9, .	0.6	6
31	Development of a Patch-Type Flexible Oxygen Partial Pressure Sensor. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2020, 8, 1-7.	2.2	6
32	Bacterial proteolytic activity improves drug delivery in tumors in a size, pharmacokinetic, and binding affinity dependent manner - A mechanistic understanding. <i>Journal of Controlled Release</i> , 2020, 321, 348-362.	4.8	6
33	Visualization and Analysis of Blood Flow and Oxygen Consumption in Hepatic Microcirculation: Application to an Acute Hepatitis Model. <i>Journal of Visualized Experiments</i> , 2012, , e3996.	0.2	4
34	Micro/nano particle-based oxygen sensing film for monitoring respiration of cells cultured in a microfluidic device. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SDDK03.	0.8	4
35	pH-taxis drives aerobic bacteria in duodenum to migrate into the pancreas with tumors. <i>Scientific Reports</i> , 2022, 12, 1783.	1.6	4
36	Analysis of elasticity and deformability of erythrocytes using micro-channel flow system and atomic force microscope. , 0, , .		3

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37	Convolutional neural network-based automatic detection of follicle cells in ovarian tissue using optical coherence tomography. Biomedical Physics and Engineering Express, 2020, 6, 065026.	0.6	3
38	Spatiotemporal measurement of tumor oxygenation reveals repeat hypoxic phenomenon in mice. , 2011, 2011, 5965-8.		2
39	Simultaneous mapping of unevenly distributed tissue hypoxia and vessel permeability in tumor microenvironment. Biomedical Physics and Engineering Express, 2016, 2, 065017.	0.6	1
40	Immobilized Monolayer Nanoparticles in a Microfluidic Device for Surface Enhanced Raman Scattering Measurement. Advanced Biomedical Engineering, 2017, 6, 122-128.	0.4	1
41	Simultaneous measurement of blood flow distribution and oxygen tension by photo-excitation in organ microcirculation. , 0, , .		0
42	Microscopic Local Measurement of Blood Flow and Oxygen Tension in Brain Microcirculation. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1529-1536.	0.1	0
43	Optical Scanning of Tissue Oxygen Tension and Hypoxia Imaging in Solid Tumors. Advanced Biomedical Engineering, 2014, 3, 65-71.	0.4	0
44	Hypoxia Imaging of Tumor and Spatiotemporal Analysis during Oxygen Inhalation. Electronics and Communications in Japan, 2014, 97, 17-23.	0.3	0
45	Respiration and Heat Shock Protein After Short-Term Heating/Stretch-Fixing on Smooth Muscle Cells. Cardiovascular Engineering and Technology, 2020, 11, 308-315.	0.7	0
46	Simultaneous Measurement of Blood Flow Distribution and Oxygen Tension by Photoexcitation in Organ Microcirculation. IEEJ Transactions on Electronics, Information and Systems, 2001, 121, 1415-1421.	0.1	0
47	Measurement of Elasticity of Erythrocytes Using Atomic Force Microscope. IEEJ Transactions on Electronics, Information and Systems, 2002, 122, 1664-1671.	0.1	0
48	Abstract LB-288: Restoration of peri-vascular nitric oxide gradient radio-sensitizes murine breast cancers via vascular normalization.. , 2011, , .		0
49	Hypoxia Imaging of Tumor and Spatiotemporal Analysis during Oxygen Inhalation. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1602-1607.	0.1	0
50	Ex vivo sensing of primordial follicles in ovarian tissues by spectral-domain optical coherence tomography. , 2022, , .		0