Satoko Kawauchi

List of Publications by Year
in descending order

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57	555	623734	642732
papers	citations	14 h-index	23 g-index

58	58	58	642
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Targeted increase in cerebral blood flow by transcranial nearâ€infrared laser irradiation. Lasers in Surgery and Medicine, 2010, 42, 566-576.	2.1	115
2	Pathophysiology of the inner ear after blast injury caused by laser-induced shock wave. Scientific Reports, 2016, 6, 31754.	3.3	40
3	Diffuse light reflectance signals as potential indicators of loss of viability in brain tissue due to hypoxia: charge-coupled-device-based imaging and fiber-based measurement. Journal of Biomedical Optics, 2013, 18, 015003.	2.6	38
4	Real-Time Optical Diagnosis of the Rat Brain Exposed to a Laser-Induced Shock Wave: Observation of Spreading Depolarization, Vasoconstriction and Hypoxemia-Oligemia. PLoS ONE, 2014, 9, e82891.	2.5	37
5	Simultaneous measurement of changes in light absorption due to the reduction of cytochrome c oxidase and light scattering in rat brains during loss of tissue viability. Applied Optics, 2008, 47, 4164.	2.1	35
6	Nanosecond, high-intensity pulsed laser ablation of myocardium tissue at the ultraviolet, visible, and near-infrared wavelengths: In-vitro study. Lasers in Surgery and Medicine, 2001, 29, 464-473.	2.1	34
7	Light scattering change precedes loss of cerebral adenosine triphosphate in a rat global ischemic brain model. Neuroscience Letters, 2009, 459, 152-156.	2.1	25
8	Multispectral imaging of absorption and scattering properties ofin vivoexposed rat brain using a digital red-green-blue camera. Journal of Biomedical Optics, 2015, 20, 051026.	2.6	23
9	Real-time photoacoustic imaging system for burn diagnosis. Journal of Biomedical Optics, 2014, 19, 086013.	2.6	22
10	Evaluation of Cerebral Hemodynamics and Tissue Morphology of In Vivo Rat Brain Using Spectral Diffuse Reflectance Imaging. Applied Spectroscopy, 2017, 71, 866-878.	2.2	21
11	Light-scattering signal may indicate critical time zone to rescue brain tissue after hypoxia. Journal of Biomedical Optics, 2011, 16, 027002.	2.6	17
12	Highly site-selective transvascular drug delivery by the use of nanosecond pulsed laser-induced photomechanical waves. Journal of Controlled Release, 2014, 192, 228-235.	9.9	15
13	Evaluation of light scattering and absorption properties ofin vivorat liver using a single-reflectance fiber probe during preischemia, ischemiaâ€“reperfusion, and postmortem. Journal of Biomedical Optics, 2015, 20, 076010.	2.6	14
14	Correlation Between Oxygen Consumption and Photobleaching During In Vitro Photodynamic Treatment with ATX-S10Â·Na(II) Using Pulsed Light Excitation: Dependence of Pulse Repetition Rate and Irradiation TimeÂ¶. Photochemistry and Photobiology, 2004, 80, 216.	2.5	11
15	RGB camera-based imaging of cerebral tissue oxygen saturation, hemoglobin concentration, and hemodynamic spontaneous low-frequency oscillations in rat brain following induction of cortical spreading depression. Biomedical Optics Express, 2018, 9, 933.	2.9	8
16	In Vivo Evaluation of Cerebral Hemodynamics and Tissue Morphology in Rats during Changing Fraction of Inspired Oxygen Based on Spectrocolorimetric Imaging Technique. International Journal of Molecular Sciences, 2018, 19, 491.	4.1	8
17	A novel mouse model of mild traumatic brain injury using laser-induced shock waves. Neuroscience Letters, 2020, 721, 134827.	2.1	8
18	Multispectral imaging of cortical vascular and hemodynamic responses to a shock wave: observation of spreading depolarization and oxygen supply-demand mismatch. Journal of Biomedical Optics, 2019, 24, 1.	2.6	8

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19	Thoracic shock wave injury causes behavioral abnormalities in mice. Acta Neurochirurgica, 2015, 157, 2111-2120.	1.7	7
20	Correlation between oxygen consumption and photobleaching during in vitro photodynamic treatment with ATX-S10Â·Na(II) using pulsed light excitation: Dependence of pulse repetition rate and irradiation time. Photochemistry and Photobiology, 2004, 80, 216-23.	2.5	7
21	Blood-oxygen-level-dependent (BOLD) functional magnetic resonance imaging (fMRI) during transcranial near-infrared laser irradiation. Brain Stimulation, 2017, 10, 1136-1138.	1.6	6
22	Intracellular kinetics of ATX-S10â‹…Na(II) and its correlation with photochemical reaction dynamics during a pulsed photosensitization process: effect of pulse repetition rate. Journal of Biomedical Optics, 2006, 11, 014005.	2.6	3
23	Near-infrared diffuse reflectance imaging of infarct core and peri-infarct depolarization in a rat middle cerebral artery occlusion model. , 2014, , .		3
24	Time courses of BOLD responses during transcranial near-infrared laser irradiation. Brain Stimulation, 2019, 12, 778-780.	1.6	3
25	In Vivo Determination of Tissue Optical Properties using Single Reflectance Fiber Probe with Two Source-collector Geometries. Nippon Laser Igakkaishi, 2012, 32, 394-401.	0.0	2
26	Nearâ€infrared diffuse reflectance signals for monitoring spreading depolarizations and progression of the lesion in a male rat focal cerebral ischemia model. Journal of Neuroscience Research, 2018, 96, 875-888.	2.9	2
27	In vivo diffuse reflectance spectroscopic analysis of fatty liver with inflammation in mice. Surgery Open Science, 2021, 6, 21-28.	1.2	2
28	Evaluation of the Stage of Hemorrhage Using Optical Diffuse Reflectance Spectroscopy: An In Vivo Study. Acta Neurochirurgica Supplementum, 2013, 118, 45-48.	1.0	2
29	Changes in intrinsic optical signals during loss of tissue viability of brains in rats: effect of brain temperature. , 2007, , .		1
30	Correlation Between Oxygen Consumption and Photobleaching During In Vitro Photodynamic Treatment with ATXâ€S10â€Na(II) Using Pulsed Light Excitation: Dependence of Pulse Repetition Rate and Irradiation Time^{Â¶}. Photochemistry and Photobiology, 2004, 80, 216-223.	2.5	1
31	Near-infrared scattering imaging of depolarization waves in a rat hypoxic brain model and its application to assessment of brain tissue reversibility. , 2011, , .		1
32	Optical monitoring of shock wave-induced spreading depolarization and concomitant hypoxemia in rat brain. , 2014, , .		1
33	In vivoimaging of scattering and absorption properties of exposed brain using a digital red-green-blue camera. Proceedings of SPIE, 2014, , .	0.8	1
34	In vivo imaging of cerebral hemodynamics and regional oxygen saturation in rats with a digital red-green-blue camera. Proceedings of SPIE, 2016, , .	0.8	1
35	In vivo imaging of tissue scattering parameter and cerebral hemodynamics in rat brain with a digital red-green-blue camera. , 2017, , .		1
36	Simultaneous Evaluation of Cerebral Hemodynamics and Light Scattering Properties of the In Vivo Rat Brain Using Multispectral Diffuse Reflectance Imaging. Journal of Visualized Experiments, 2017, , .	0.3	1

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37	Real-time Monitoring of Hypoxic-Ischemic Brain Damage in Neonatal Rats Using Diffuse Light Reflectance Spectroscopy. Reproductive Sciences, 2020, 27, 172-181.	2.5	1
38	Pulsed photodynamic inactivation of gram-negative bacteria :. Nippon Laser Igakkaishi, 2004, 25, 129-134.	0.0	1
39	Effects of Isolated and Combined Exposure of the Brain and Lungs to a Laser-Induced Shock Wave(s) on Physiological and Neurological Responses in Rats. Journal of Neurotrauma, 2022, 39, 1533-1546.	3.4	1
40	Correlation between light scattering signal and tissue reversibility in rat brain exposed to hypoxia. , 2010, , .		0
41	Dynamic Phenomena caused by a Shock Wave in the Brain: Real-Time Diagnoses of the Rat Exposed to a Laser-Induced Shock Wave. Nippon Laser Igakkaishi, 2014, 35, 132-139.	0.0	0
42	Multichannel fiber-based diffuse reflectance spectroscopy for the rat brain exposed to a laser-induced shock wave: comparison between ipsi- and contralateral hemispheres. , 2015, , .		0
43	In vivoestimation of light scattering and absorption properties of rat brain using single reflectance fiber probe during anoxic depolarization. Proceedings of SPIE, 2015, , .	0.8	0
44	In vivo multispectral imaging of the absorption and scattering properties of exposed brain using a digital redâ€“greenâ€“blue camera. Optical Review, 2015, 22, 374-384.	2.0	0
45	Validation of IRFEL-induced vibrational excitation effects on ester using fluorescent dye. The Review of Laser Engineering, 2001, 29, 221-222,224.	0.0	0
46	Mechanism of Photodynamic Cytotoxicity with Nanosecond Pulsed Light Excitation. The Review of Laser Engineering, 2007, 35, 498-502.	0.0	0
47	Evaluation of Light Absorption and Scattering Properties of in vivo Rat Brain Using Single Refl ection Probe with Multiple Fibers. The Review of Laser Engineering, 2012, 40, 299.	0.0	0
48	Optical Monitoring of Brain Tissue Viability. The Review of Laser Engineering, 2012, 40, 236.	0.0	0
49	Effects of Transcranial Near-Infrared Light on Cerebral Blood Flow. The Review of Laser Engineering, 2012, 40, 265.	0.0	0
50	Measuring and Imaging of Optical Properties of Brain Tissue by Diffuse Refl ectance Spectroscopy. The Review of Laser Engineering, 2013, 41, 596.	0.0	0
51	1C02 Investigation of the mechanism of blast-induced TBI by use of laser-induced shock wave. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 81-82.	0.0	0
52	J023016 Endoscopic molecular delivery system based on photomechanical waves. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J023016-1-_J023016-3.	0.0	0
53	Visualization of hemodynamics and light scattering in exposed brain of rat using multispectral image reconstruction based on Wiener estimation method. , 2015, , .		0
54	In vivo Estimation of Optical Coefficients of Rat Brain based on Diffuse Reflectance Spectroscopy. The Review of Laser Engineering, 2016, 44, 225.	0.0	0

#	Article	IF	Citations
55	Study on the cellular and molecular responses to a shock wave in the rat brain. , 2019, , .		0
56	Spectral Diffuse Reflectance Imaging Based on Numerical Simulation for Light Transport in Biological Tissues. Nippon Laser Igakkaishi, 2020, 40, 359-368.	0.0	0
57	Rabbit Model without Intubation for Cardiac Surgery. Ika Kikaigaku, 2001, 71, 425-430.	0.0	0