Emiyu Ogawa

List of Publications by Year
in descending order

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69	199	1162889 8	1058333 14
papers	citations	h-index	g-index

71	71	71	167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonthermal Cardiac Catheter Ablation Using Photodynamic Therapy. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 1025-1031.	2.1	35
2	A Three-Compartment Pharmacokinetic Model to Predict the Interstitial Concentration of Talaporfin Sodium in the Myocardium for Photodynamic Therapy: A Method Combining Measured Fluorescence and Analysis of the Compartmental Origin of the Fluorescence. Bioengineering, 2019, 6, 1.	1.6	30
3	Detailed in vitro study of the photosensitization reaction of extracellular talaporfin sodium in rat myocardial cells. Lasers in Surgery and Medicine, 2013, 45, 660-667.	1.1	20
4	Optimal conditions for cardiac catheter ablation using photodynamic therapy. Europace, 2015, 17, 1309-1315.	0.7	18
5	Effects of albumin binding on photocytotoxicity of extracellular photosensitization reaction using talaporfin sodium to rat myocardial cells. Photodiagnosis and Photodynamic Therapy, 2015, 12, 252-257.	1.3	15
6	Electrical superior vena cava isolation using photodynamic therapy in a canine model. Europace, 2016, 18, 294-300.	0.7	15
7	Skin fluorescence following photodynamic therapy with NPe6 photosensitizer. Photodiagnosis and Photodynamic Therapy, 2017, 20, 210-214.	1.3	11
8	Dependence of damage within 10 min to myocardial cells by a photodynamic reaction with a high concentration of talaporfin sodium outside cells in vitro on parameters of laser irradiation. Photodiagnosis and Photodynamic Therapy, 2016, 15, 1-5.	1.3	9
9	Comparison of myocardial cell survival 2 h and 24 h after extracellular talaporfin sodium-induced photodynamic reaction. Photodiagnosis and Photodynamic Therapy, 2016, 13, 196-200.	1.3	8
10	Irradiance dependence of the conduction block of an in vitro cardiomyocyte wire. Photodiagnosis and Photodynamic Therapy, 2017, 19, 93-97.	1.3	5
11	Clinical application of the mirror irradiation technique in photodynamic therapy for malignant glioma. Photodiagnosis and Photodynamic Therapy, 2020, 31, 101956.	1.3	5
12	Evaluation of human and bovine serum albumin on oxidation characteristics by a photosensitization reaction under complete binding of talaporfin sodium. Photodiagnosis and Photodynamic Therapy, 2015, 12, 408-413.	1.3	4
13	Development of a practical animal model of photodynamic therapy using a high concentration of extracellular talaporfin sodium in interstitial fluid: influence of albumin animal species on myocardial cell photocytotoxicity in vitro. Lasers in Medical Science, 2017, 32, 2105-2109.	1.0	3
14	Diffused light attenuation at 664 nm for PDT in salted cadaver brain. Photodiagnosis and Photodynamic Therapy, 2020, 29, 101593.	1.3	3
15	Oxygen-Enriched Photosensitizer Medium with Red Blood Cells to Study Tissue Interaction of Photosensitization Reaction. Photomedicine and Laser Surgery, 2018, 36, 146-150.	2.1	2
16	Continuous Optical Monitoring of Red Blood Cells During a Photosensitization Reaction. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 110-116.	0.7	2
17	Short-Time Impedance Spectroscopy Using a Mode-Switching Nonsinusoidal Oscillator: Applicability to Biological Tissues and Continuous Measurement. Sensors, 2021, 21, 6951.	2.1	2
18	Electrophysiological and histological effects on canine right atrium by photosensitization reaction under catheterizationin vivo. Proceedings of SPIE, 2013, , .	0.8	1

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19	Acute cell death rate of vascular smooth muscle cells during or after short heating up to 20s ranging 50 to 60Â°C as a basic study of thermal angioplasty. , 2014, , .		1
20	Temperature Influence on Myocardial Cell Cytotoxicity of the Extracellular Photosensitization Reaction with Talaporfin Sodium and Serum Proteins at 17Â°â€“37Â°C. Photomedicine and Laser Surgery, 2017, 35, 555-559.	2.1	1
21	Modified optical coefficient measurement system for bulk tissue using an optical fiber insertion with varying field of view and depth at the fiber tip. Lasers in Medical Science, 2019, 34, 1613-1618.	1.0	1
22	Extracellular talaporfin sodium-induced photosensitization reaction with various albumin animal species on myocardial cells in vitro. , 2017, , .		1
23	Continuous optical measurement system of hemolysis during a photosensitization reaction using absorption spectrum. , 2018, , .		1
24	Optical coefficient measurements using bulk living tissue by an optical fiber puncture with FOV change. , 2018, , .		1
25	Effect of Interactive Pressure on Drug Delivery to Ex Vivo Heated Porcine Carotid Artery Walls. Advanced Biomedical Engineering, 2019, 8, 38-44.	0.4	1
26	Heat Enhances Ex Vivo Paclitaxel Delivery to Porcine Carotid Artery Wall. Advanced Biomedical Engineering, 2019, 8, 30-37.	0.4	1
27	Increase of NMR/MIR signals under ultra-low B fields with hyperpolarized Xe using 1W CW single-frequency Ti:Sapphire laser. , 2019, , .		1
28	Preventing spin relaxation of optically pumped alkali metal atoms by atomically-thin hybrid polymer film coating. , 2019, , .		1
29	Fundamental study on photodynamic therapy for atrial fibrillation: effect of photosensitization reaction parameters on myocardial necrosis in vitro. Proceedings of SPIE, 2012, , .	0.8	0
30	Detection of singlet oxygen luminescence generated in photosensitization reaction excited by CW laser in vitro. , 2013, , .		0
31	Study of photosensitization reaction progress in a 96 well plate with photosensitizer rich condition using Talaporfin sodium. Proceedings of SPIE, 2013, , .	0.8	0
32	Extracellular photosensitization reaction progress and effect on myocardial cell necrosis for arrhythmia treatment application. Proceedings of SPIE, 2013, , .	0.8	0
33	Immediate response and cytotoxicity effect on myocardial cells by extracellular photosensitization reaction varying irradiance. , 2014, 2014, 5316-9.		0
34	Prediction of myocardial damage depth induced by extracellular photosensitization reaction using fluorescence measurementin vivo. , 2014, , .		0
35	Conduction block in novel cardiomyocyte electrical conduction line by photosensitization reaction. , 2014, 2014, 4787-90.		0
36	Photosensitization reaction along depth of a culture well with high concentration of talaporfin sodium for extra-cellular photodynamic therapy study. , 2014, , .		0

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37	Comparison of human serum and bovine serum albumins on oxidation dynamics induced by talaporfin sodium photosensitization reaction with albumin rich conditions: solution experiments. Proceedings of SPIE, 2014, , .	0.8	0
38	Immediate response of Ca2+concentration in myocardial cells against oxidation stress by extracellular photosensitization reaction using Talaporfin sodium for the arrhythmia treatment application. , 2014, , .		0
39	Time response of electrical conduction block in novel cardiomyocyte wire by extra-cellular photosensitization reaction at various irradiances. Proceedings of SPIE, 2015, , .	0.8	0
40	Talaporfin sodium binding and photocytotoxicity of photosensitization reaction on myocardial cell under various albumin concentrations and temperature. , 2015, 2015, 1295-8.		0
41	Cytotoxicity change with albumin binding of talaporfin sodium in extracellular photosensitization reaction on cardiomyocyte. Proceedings of SPIE, 2015, , .	0.8	0
42	The novel drug delivery to vascular wall using laser driven thermal balloon: basic study ex vivo. Proceedings of SPIE, 2016, , .	0.8	0
43	Patency of heart blood vessels under photosensitization reaction shortly after intravenous injection of talaporfin sodium in canine model. Proceedings of SPIE, 2016, , .	0.8	0
44	Influence of temperature on the myocardial cells death by an extracellular talaporfin sodium-induced photosensitization reaction. , 2016, , .		0
45	Phototoxicity of Vascular Endothelial Cells Caused by Contact with Talaporfin Sodium for 15â€“120 Min: In Vitro and In Vivo Studies. Photomedicine and Laser Surgery, 2017, 35, 305-310.	2.1	0
46	Laser driven short-term thermal angioplasty: enhancement of drug delivery performance by heating with tension. Proceedings of SPIE, 2017, , .	0.8	0
47	Evaluation of electrical propagation delay with cardiomyocytes by photosensitization reaction in vitro. , 2017, , .		0
48	Effect of a photosensitization reaction performed during the first 3Âmin after exposure of rat myocardial cells to talaporfin sodium in vitro. Lasers in Medical Science, 2017, 32, 1873-1878.	1.0	0
49	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
50	Mechanism of Damage by Extracellular Photosensitization Reaction and Its Application. Nippon Laser Igakkaishi, 2021, 41, 356-362.	0.0	0
51	A three-compartment non-linear model of myocardial cell conduction block during photosensitization. Medical and Biological Engineering and Computing, 2021, 59, 703-710.	1.6	0
52	New Application of Photosensitization Reaction for a Non-Thermal Arrhythmia Ablation Treatment. The Review of Laser Engineering, 2016, 44, 169.	0.0	0
53	Photosensitization reaction induced hemolysis in a cuvette observed with hemoglobin absorption spectrum of various species. , 2017, , .		0
54	3-compartment dynamic model of talaporfin sodium pharmacokinetics in silico. , 2017, , .		0

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55	Mechanism to preserve phrenic nerve function during photosensitization reaction: drug uptake and photosensitization reaction effect on electric propagation. , 2018, , .		0
56	Myocardial electrical conduction blockade time dominated by irradiance on photodynamic reaction: in vitro and in silico study. , 2018, , .		0
57	3-compartment talaporfin sodium pharmacokinetic model by optimization using fluorescence measurement data from canine skin to estimate the concentration in interstitial space. , 2018, , .		0
58	The NPe6 fluorescence measurements by using a fluorescence sensing system for skin photosensitivity risk assessment after photodynamic therapy. , 2018, , .		0
59	Dependence of perpendicular pressure to luminal surface on heating drug delivery performance using a laser-mediated thermal balloon with porcine carotid artery walls ex vivo. , 2018, , .		0
60	Modified optical coefficient measurements using a single high-NA fiber with detection parameter changes at a tip. , 2018, , .		0
61	Time dependence of myocardial cell necrosis during photodynamic therapy with various photosensitizer contact time. , 2018, , .		0
62	Collagen reversible denaturation by a weak near-infrared laser light irradiation for vascular softening. , 2018, , .		0
63	Comparison of an in vivo Model with an in vitro Model Based on the Electrical Potential Decrease in the Myocardium or Myocardial Cells by an Extracellular Photosensitization Reaction. Nippon Laser Igakkaishi, 2019, 39, 303-314.	0.0	0
64	Drug contact time dominates a necessary time for myocardial cells necrosis by a photodynamic reaction. , 2019, , .		0
65	Talaporfin Sodium Pharmacokinetics in Skin Tissues for Skin Photosensitivity Risk Assessment. Nippon Laser Igakkaishi, 2019, 40, 1-6.	0.0	0
66	Monitoring System Development for Skin Photosensitivity Measurement in Laserphyrin PDT. Nippon Laser Igakkaishi, 2019, 40, 67-71.	0.0	0
67	Activity of smooth muscle cells after short-term heating/stretch-fixing up to 96 hours. , 2019, , .		0
68	Salted cadaver brain measurement for light attenuation of PDT. , 2020, , .		0
69	Pathological Findings after Transbronchial PDT for the Peripheral Lung. Nippon Laser Igakkaishi, 2022, , .	0.0	0