

tetsuya kodama

List of Publications by Year in descending order

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86
papers

2,912
citations

136950

32
h-index

175258

52
g-index

89
all docs

89
docs citations

89
times ranked

2956
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of cavitation bubbles with a free surface. <i>Journal of Applied Physics</i> , 2001, 89, 8225-8237.	2.5	187
2	Cavitation bubble behavior and bubble-shock wave interaction near a gelatin surface as a study of in vivo bubble dynamics. <i>Applied Physics B: Lasers and Optics</i> , 2000, 70, 139-149.	2.2	143
3	The Keap1/Nrf2 Protein Axis Plays a Role in Osteoclast Differentiation by Regulating Intracellular Reactive Oxygen Species Signaling. <i>Journal of Biological Chemistry</i> , 2013, 288, 23009-23020.	3.4	141
4	Dynamic behavior of bubbles during extracorporeal shock-wave lithotripsy. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 723-738.	1.5	109
5	Structural Change in Lipid Bilayers and Water Penetration Induced by Shock Waves: Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2006, 91, 2198-2205.	0.5	89
6	Interaction of laser-induced cavitation bubbles with composite surfaces. <i>Journal of Applied Physics</i> , 2003, 94, 2809-2816.	2.5	88
7	Transfection effect of microbubbles on cells in superposed ultrasound waves and behavior of cavitation bubble. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 905-914.	1.5	88
8	A novel strategy utilizing ultrasound for antigen delivery in dendritic cell-based cancer immunotherapy. <i>Journal of Controlled Release</i> , 2009, 133, 198-205.	9.9	85
9	Optimisation of ultrasound-mediated gene transfer (sonoporation) in skeletal muscle cells. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 1523-1529.	1.5	83
10	Photothermal therapy of tumors in lymph nodes using gold nanorods and near-infrared laser light. <i>Journal of Controlled Release</i> , 2013, 172, 879-884.	9.9	78
11	The cavitation threshold of human tissue exposed to 0.2-MHz pulsed ultrasound: Preliminary measurements based on a study of clinical lithotripsy. <i>Ultrasound in Medicine and Biology</i> , 1995, 21, 405-417.	1.5	75
12	Low-intensity ultrasound and microbubbles enhance the antitumor effect of cisplatin. <i>Cancer Science</i> , 2008, 99, 2525-2531.	3.9	74
13	Herpes Simplex Virus Thymidine Kinase-Mediated Suicide Gene Therapy Using Nano/Microbubbles and Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 425-434.	1.5	70
14	Enhanced Sonographic Imaging to Diagnose Lymph Node Metastasis: Importance of Blood Vessel Volume and Density. <i>Cancer Research</i> , 2013, 73, 2082-2092.	0.9	63
15	Characterization of the Arterial Anatomy of the Murine Hindlimb: Functional Role in the Design and Understanding of Ischemia Models. <i>PLoS ONE</i> , 2013, 8, e84047.	2.5	63
16	Shock wave-mediated molecular delivery into cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2002, 1542, 186-194.	4.1	62
17	Peritumoral apparent diffusion coefficients for prediction of lymphovascular invasion in clinically node-negative invasive breast cancer. <i>European Radiology</i> , 2016, 26, 331-339.	4.5	55
18	Shock wave-bubble interaction near soft and rigid boundaries during lithotripsy: numerical analysis by the improved ghost fluid method. <i>Physics in Medicine and Biology</i> , 2011, 56, 6421-6440.	3.0	51

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19	Lymphatic mapping of mice with systemic lymphoproliferative disorder: Usefulness as an inter-lymph node metastasis model of cancer. <i>Journal of Immunological Methods</i> , 2013, 389, 69-78.	1.4	51
20	Evaluation of the enhanced permeability and retention effect in the early stages of lymph node metastasis. <i>Cancer Science</i> , 2017, 108, 846-852.	3.9	51
21	Morphological study of acoustic liposomes using transmission electron microscopy. <i>Journal of Electron Microscopy</i> , 2010, 59, 187-196.	0.9	46
22	Mouse Model of Lymph Node Metastasis via Afferent Lymphatic Vessels for Development of Imaging Modalities. <i>PLoS ONE</i> , 2013, 8, e55797.	2.5	44
23	Photothermal therapy of tumors in lymph nodes using gold nanorods and near-infrared laser light with controlled surface cooling. <i>Nano Research</i> , 2015, 8, 3842-3852.	10.4	43
24	Delivery of Na/I Symporter Gene into Skeletal Muscle Using Nanobubbles and Ultrasound: Visualization of Gene Expression by PET. <i>Journal of Nuclear Medicine</i> , 2010, 51, 951-958.	5.0	41
25	New concept for the prevention and treatment of metastatic lymph nodes using chemotherapy administered via the lymphatic network. <i>Scientific Reports</i> , 2016, 6, 32506.	3.3	41
26	Liquid jets, accelerated thrombolysis: a study for revascularization of cerebral embolism. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 977-983.	1.5	38
27	Self-Organization of a Stable Pore Structure in a Phospholipid Bilayer. <i>Physical Review Letters</i> , 2010, 105, 018105.	7.8	38
28	Molecular dynamics simulation of structural changes of lipid bilayers induced by shock waves: Effects of incident angles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1423-1428.	2.6	36
29	Damage to red blood cells induced by acoustic cavitation. <i>Ultrasound in Medicine and Biology</i> , 1995, 21, 105-111.	1.5	35
30	Spinal gene transfer using ultrasound and microbubbles. <i>Journal of Controlled Release</i> , 2007, 117, 267-272.	9.9	35
31	The Combination of Intralymphatic Chemotherapy with Ultrasound and Nano-/Microbubbles Is Efficient in the Treatment of Experimental Tumors in Mouse Lymph Nodes. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1237-1249.	1.5	35
32	Secondary cavitation due to interaction of a collapsing bubble with a rising free surface. <i>Applied Physics Letters</i> , 1991, 59, 274-276.	3.3	34
33	Investigating the Effect of Polymeric Approaches on Circulation Time and Physical Properties of Nanobubbles. <i>Pharmaceutical Research</i> , 2011, 28, 494-504.	3.5	32
34	Volumetric and Angiogenic Evaluation of Antitumor Effects with Acoustic Liposome and High-Frequency Ultrasound. <i>Cancer Research</i> , 2011, 71, 6957-6964.	0.9	32
35	Communication between lymphatic and venous systems in mice. <i>Journal of Immunological Methods</i> , 2015, 424, 100-105.	1.4	32
36	Delivery of oligodeoxynucleotides into human saphenous veins and the adjunct effect of ultrasound and microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1683-1691.	1.5	31

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37	Visualization of fluid drainage pathways in lymphatic vessels and lymph nodes using a mouse model to test a lymphatic drug delivery system. <i>Biomedical Optics Express</i> , 2015, 6, 124.	2.9	30
38	Innovative technology for tissue disruption by explosive-induced shock waves. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 1459-1466.	1.5	29
39	Evaluation of antitumor effects following tumor necrosis factor α gene delivery using nanobubbles and ultrasound. <i>Cancer Science</i> , 2011, 102, 2082-2089.	3.9	29
40	Delivery of ribosome-inactivating protein toxin into cancer cells with shock waves. <i>Cancer Letters</i> , 2003, 189, 69-75.	7.2	27
41	Activation of latent metastases in the lung after resection of a metastatic lymph node in a lymph node metastasis mouse model. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 543-548.	2.1	27
42	A Novel Treatment Method for Lymph Node Metastasis Using a Lymphatic Drug Delivery System with Nano/Microbubbles and Ultrasound. <i>Journal of Cancer</i> , 2015, 6, 1282-1294.	2.5	26
43	Evaluation of Transfection Efficiency in Skeletal Muscle Using Nano/Microbubbles and Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1196-1205.	1.5	25
44	Delivery of Molecules to the Lymph Node via Lymphatic Vessels Using Ultrasound and Nano/Microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1411-1421.	1.5	25
45	Quantitative Analysis of Contrast-Enhanced Ultrasound Imaging in Invasive Breast Cancer: A Novel Technique to Obtain Histopathologic Information of Microvessel Density. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 607-614.	1.5	25
46	A new technology for revascularization of cerebral embolism using liquid jet impact. <i>Physics in Medicine and Biology</i> , 1997, 42, 2355-2367.	3.0	23
47	Periodontal Gene Transfer by Ultrasound and Nano/Microbubbles. <i>Journal of Dental Research</i> , 2009, 88, 1008-1013.	5.2	23
48	Cavitation Bubbles Mediated Molecular Delivery During Sonoporation. <i>Journal of Biomechanical Science and Engineering</i> , 2009, 4, 124-140.	0.3	22
49	Development of Localized Gene Delivery Using a Dual-Intensity Ultrasound System in the Bladder. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1867-1875.	1.5	22
50	Contrast-enhanced high-frequency ultrasound imaging of early stage liver metastasis in a preclinical mouse model. <i>Cancer Letters</i> , 2013, 339, 208-213.	7.2	20
51	Early diagnosis of lymph node metastasis: Importance of intranodal pressures. <i>Cancer Science</i> , 2016, 107, 224-232.	3.9	20
52	Therapeutic effect of cisplatin given with a lymphatic drug delivery system on false-negative metastatic lymph nodes. <i>Cancer Science</i> , 2017, 108, 2115-2121.	3.9	19
53	Simple green synthesis of amino acid functionalised CdTe/CdSe/ZnSe core-multi shell with improved cell viability for cellular imaging. <i>Materials Letters</i> , 2017, 189, 168-171.	2.6	18
54	Direct Delivery of a Cytotoxic Anticancer Agent into the Metastatic Lymph Node Using Nano/Microbubbles and Ultrasound. <i>PLoS ONE</i> , 2015, 10, e0123619.	2.5	17

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55	Monitoring transplanted islets by high-frequency ultrasound. <i>Islets</i> , 2011, 3, 259-266.	1.8	12
56	Lymph node resection induces the activation of tumor cells in the lungs. <i>Cancer Science</i> , 2019, 110, 509-518.	3.9	12
57	Treatment of false-negative metastatic lymph nodes by a lymphatic drug delivery system with 5-fluorouracil. <i>Cancer Medicine</i> , 2019, 8, 2241-2251.	2.8	12
58	Study of the physicochemical properties of drugs suitable for administration using a lymphatic drug delivery system. <i>Cancer Science</i> , 2021, 112, 1735-1745.	3.9	12
59	Optimization of Acoustic Liposomes for Improved In Vitro and In Vivo Stability. <i>Pharmaceutical Research</i> , 2013, 30, 218-224.	3.5	11
60	Distinctive role of vasohibin-1A and its splicing variant vasohibin-1B in tumor angiogenesis. <i>Cancer Gene Therapy</i> , 2016, 23, 133-141.	4.6	11
61	Temporal effect of inertial cavitation with and without microbubbles on surface deformation of agarose S gel in the presence of 1-MHz focused ultrasound. <i>Ultrasonics</i> , 2015, 55, 1-5.	3.9	10
62	Characterizing perfusion defects in metastatic lymph nodes at an early stage using high-frequency ultrasound and micro-CT imaging. <i>Clinical and Experimental Metastasis</i> , 2021, 38, 539-549.	3.3	9
63	Interaction of a Bubble Attached to a Gelatine Wall with a Shock Wave. A Study of Tissue Damage Caused by Bubble Collapse. 880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1993, 59, 1431-1435.	0.2	8
64	Imaging of transplanted islets by positron emission tomography, magnetic resonance imaging, and ultrasonography. <i>Islets</i> , 2013, 5, 179-187.	1.8	8
65	High-Accuracy Ultrasound Contrast Agent Detection Method for Diagnostic Ultrasound Imaging Systems. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 3120-3130.	1.5	8
66	Enhanced Ultrasonography Using a Nano/Microbubble Contrast Agent for Islet Transplantation. <i>American Journal of Transplantation</i> , 2015, 15, 1531-1542.	4.7	8
67	Imaging of the Mouse Lymphatic Sinus during Early Stage Lymph Node Metastasis Using Intranodal Lymphangiography with X-ray Micro-computed Tomography. <i>Molecular Imaging and Biology</i> , 2019, 21, 825-834.	2.6	8
68	The Therapeutic Effect of Second Near-Infrared Absorbing Gold Nanorods on Metastatic Lymph Nodes via Lymphatic Delivery System. <i>Pharmaceutics</i> , 2021, 13, 1359.	4.5	8
69	Intranodal pressure of a metastatic lymph node reflects the response to lymphatic drug delivery system. <i>Cancer Science</i> , 2020, 111, 4232-4241.	3.9	7
70	Diagnosis of Prostate Cancer and Prostatitis Using near Infra-Red Fluorescent AgInSe/ZnS Quantum Dots. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12514.	4.1	7
71	Intranodal delivery of modified docetaxel: Innovative therapeutic method to inhibit tumor cell growth in lymph nodes. <i>Cancer Science</i> , 2022, 113, 1125-1139.	3.9	6
72	Graphene Oxide-Gold Nanorods Nanocomposite-Porphyrin Conjugate as Promising Tool for Cancer Phototherapy Performance. <i>Pharmaceutics</i> , 2021, 14, 1295.	3.8	6

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73	Synthesis of NIR-II Absorbing Gelatin Stabilized Gold Nanorods and Its Photothermal Therapy Application against Fibroblast Histiocytoma Cells. <i>Pharmaceuticals</i> , 2021, 14, 1137.	3.8	4
74	A non-invasive tissue-specific molecular delivery method of cancer gene therapy. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2006, 15, 226-229.	1.2	3
75	MCh-Ipr/Ipr-RA1 mice: A novel spontaneous mouse model of autoimmune sialadenitis. <i>Immunology Letters</i> , 2021, 237, 3-10.	2.5	3
76	Molecular Dynamics Simulation of Water Pore Formation in Lipid Bilayer Induced by Shock Waves. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	2
77	Optimum conditions of ultrasound-mediated destruction of bubble liposome for siRNA transfer in bladder cancer. <i>Therapeutic Delivery</i> , 2010, 1, 247-255.	2.2	2
78	Molecular Delivery into a Lipid Bilayer with a Single Shock Waves Using Molecular Dynamic Simulation. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
79	Interaction of Impulsive Pressures of Cavitation Bubbles with Cell Membranes during Sonoporation. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
80	Visualization of Microcirculation Based on Brightness Variation in Contrast-Enhanced Ultrasound. , 2010, , .		1
81	Temporal and steady state acoustic field in a cell culture well: simulation. , 2013, 2013, 1934-5.		1
82	Development of diagnostic imaging system for regional lymph node micrometastasis with high-frequency ultrasound. , 2008, , .		0
83	FDG imaging of 1mm tumor with an ultra high resolution animal PET. , 2008, , .		0
84	Contrast-enhanced high-frequency ultrasound imaging of liver metastases in preclinical models. , 2008, , .		0
85	Effects of the liposomal formulation on the behavior and physical characteristics of acoustic liposomes. , 2012, , .		0
86	Detecting contrast agents in ultrasound image sequences for tumor diagnosis. , 2014, , .		0