

# Katsuro Tachibana

## List of Publications by Year in descending order

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110  
papers

4,815  
citations

101384

36  
h-index

98622

67  
g-index

114  
all docs

114  
docs citations

114  
times ranked

3440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasound-Induced DNA Damage and Cellular Response: Historical Review, Mechanisms Analysis, and Therapeutic Implications. <i>Radiation Research</i> , 2022, 197, .	0.7	1
2	Influence of Nanobubble Size Distribution on Ultrasound-Mediated Plasmid DNA and Messenger RNA Gene Delivery. <i>Frontiers in Pharmacology</i> , 2022, 13, .	1.6	9
3	Research on gene therapy using ultrasound and nanobubbles. <i>Neurosonology</i> , 2021, 34, 77-79.	0.0	0
4	Recent Trends in Application of Encapsulated Ultrafine Bubbles in Medicine. , 2021, , 215-235.		2
5	Low-intensity ultrasound inhibits melanoma cell proliferation in vitro and tumor growth in vivo. <i>Journal of Medical Ultrasonics (2001)</i> , 2021, 48, 451-461.	0.6	2
6	High-Intensity Focused Ultrasound in the Treatment of Breast Cancer. <i>Current Medicinal Chemistry</i> , 2021, 28, 5179-5188.	1.2	17
7	Where and what damage occurs at the acromial undersurface in patients with rotator cuff tears?. <i>Journal of Shoulder and Elbow Surgery</i> , 2020, 29, 2065-2071.	1.2	5
8	Enhanced effect of recombinant human soluble thrombomodulin by ultrasound irradiation in acute liver failure. <i>Scientific Reports</i> , 2020, 10, 1742.	1.6	4
9	Nanobubble Mediated Gene Delivery in Conjunction With a Hand-Held Ultrasound Scanner. <i>Frontiers in Pharmacology</i> , 2020, 11, 363.	1.6	21
10	Echographic and physical characterization of albumin-stabilized nanobubbles. <i>Heliyon</i> , 2019, 5, e01907.	1.4	12
11	Predictors of safety margin for coracoid transfer: a cadaveric morphometric analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 174.	0.9	10
12	Anatomical study of the position and orientation of the coracoclavicular ligaments: Differences in bone tunnel position by gender. <i>Orthopaedics and Traumatology: Surgery and Research</i> , 2019, 105, 275-280.	0.9	10
13	Part 19. How to become a good medical ultrasound scientist. <i>Choonpa Igaku</i> , 2019, 46, 333-336.	0.0	0
14	Effects of polyphenols on doxorubicin-induced oral keratinocyte cytotoxicity and anticancer potency against oral cancer cells. <i>Journal of Oral Pathology and Medicine</i> , 2018, 47, 368-374.	1.4	15
15	Apoptotic and genotoxic effects of low-intensity ultrasound on healthy and leukemic human peripheral mononuclear blood cells. <i>Journal of Medical Ultrasonics (2001)</i> , 2018, 45, 31-39.	0.6	5
16	Enhanced cell killing and apoptosis of oral squamous cell carcinoma cells with ultrasound in combination with cetuximab coated albumin microbubbles. <i>Journal of Drug Targeting</i> , 2018, 26, 278-288.	2.1	16
17	Notice of Removal: Novel non-shelled nanobubbles as a new ultrasound imaging and drug delivery tool. , 2018, , .		0
18	Cavitation-threshold Determination and Rheological-parameters Estimation of Albumin-stabilized Nanobubbles. <i>Scientific Reports</i> , 2018, 8, 7472.	1.6	20

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19	Numerical Simulation for Generation Mechanism of Ultrafine Bubble by High-Speed Stirring. Japanese Journal of Multiphase Flow, 2018, 32, 247-253.	0.1	0
20	Hyperthermia enhances bortezomib-induced apoptosis in human white blood cancer cells. Journal of Thermal Biology, 2017, 67, 9-14.	1.1	8
21	Efficient delivery of signal-responsive gene carriers for disease-specific gene expression via bubble liposomes and sonoporation. Colloids and Surfaces B: Biointerfaces, 2017, 160, 60-64.	2.5	4
22	Differences in the Behavior of Attached and Floating Cells Subjected to Low Intensity Ultrasound. International Journal of Pharma Medicine and Biological Sciences, 2017, 6, 7-10.	0.1	2
23	Reparable Cell Sonoporation in Suspension: Theranostic Potential of Microbubble. Theranostics, 2016, 6, 446-455.	4.6	36
24	Induction of Apoptosis in U937 Cells by Using a Combination of Bortezomib and Low-Intensity Ultrasound. Medical Science Monitor, 2016, 22, 5049-5057.	0.5	1
25	Study of cellular response induced by low intensity ultrasound frequency sweep pattern on myelomonocytic lymphoma U937 cells. Journal of Ultrasound, 2016, 19, 167-174.	0.7	12
26	Acute effects of sono-activated photocatalytic titanium dioxide nanoparticles on oral squamous cell carcinoma. Ultrasonics Sonochemistry, 2016, 32, 95-101.	3.8	43
27	Study of cellular response induced by frequency change of low intensity ultrasound. , 2015, , .		2
28	Enhanced mechanical damage to in vitro cancer cells by high-intensity-focused ultrasound in the presence of microbubbles and titanium dioxide. Journal of Medical Ultrasonics (2001), 2015, 42, 449-455.	0.6	6
29	Azaspirene analogs inhibit the growth of human uterine carcinosarcoma in vitro and in vivo. Anticancer Research, 2015, 35, 2739-46.	0.5	6
30	Advanced Chemoembolization by Anti-angiogenic Calcium-Phosphate Ceramic Microspheres Targeting the Vascular Heterogeneity of Cancer Xenografts. Anticancer Research, 2015, 35, 4757-64.	0.5	3
31	Bio-effects of non-ionizing electromagnetic fields in context of cancer therapy. Frontiers in Bioscience - Elite, 2014, E6, 175-184.	0.9	10
32	Low-intensity pulsed ultrasound enhances cell killing induced by X-irradiation. Ultrasonics Sonochemistry, 2014, 21, 40-42.	3.8	5
33	1A44 Cell membrane poration by microbubble oscillation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 43.	0.0	0
34	Basic research on a new therapy system combining ultrasound and drug delivery. Choonpa Igaku, 2013, 40, 463-471.	0.0	0
35	Ultrasound stimulation restores impaired neovascularization-related capacities of human circulating angiogenic cells. Cardiovascular Research, 2012, 95, 448-459.	1.8	25
36	Use of ultrasound in drug delivery systems: emphasis on experimental methodology and mechanisms. International Journal of Hyperthermia, 2012, 28, 282-289.	1.1	22

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37	Selective Gene Transfer to the Retina Using Intravitreal Ultrasound Irradiation. Journal of Ophthalmology, 2012, 2012, 1-5.	0.6	19
38	Prophylactic immunization with Bubble liposomes and ultrasound-treated dendritic cells provided a four-fold decrease in the frequency of melanoma lung metastasis. Journal of Controlled Release, 2012, 160, 362-366.	4.8	51
39	Abstract 139: Ultrasound Stimulation Restores Impaired Neovascularization-Related Capacities of Human Circulating Angiogenic Cells. Circulation Research, 2012, 111, .	2.0	0
40	Ultrasound-mediated interferon $\beta$ gene transfection inhibits growth of malignant melanoma. Biochemical and Biophysical Research Communications, 2011, 411, 137-142.	1.0	16
41	Optical observation of cell sonoporation with low intensity ultrasound. Biochemical and Biophysical Research Communications, 2011, 413, 218-223.	1.0	51
42	Turbidity measurements on suspended lipid microbubble populations subjected to ultrasound. , 2011, , .		0
43	Influence of Waveform on Cell Viability during Ultrasound Exposure. , 2011, , .		0
44	Metronomic irinotecan chemotherapy combined with ultrasound irradiation for a human uterine sarcoma xenograft. Cancer Science, 2011, 102, 452-459.	1.7	10
45	Ultrasound activation of TiO <sub>2</sub> in melanoma tumors. Journal of Controlled Release, 2011, 149, 190-195.	4.8	145
46	Differential cytotoxicity and sonosensitization by sanazole: effect of cell type and acoustic parameters. Journal of Medical Ultrasonics (2001), 2011, 38, 65-72.	0.6	7
47	Synergistic effect of ultrasound and antibiotics against Chlamydia trachomatis-infected human epithelial cells in vitro. Ultrasonics Sonochemistry, 2011, 18, 425-430.	3.8	18
48	Synergistic inhibition of malignant melanoma proliferation by melphalan combined with ultrasound and microbubbles. Ultrasonics Sonochemistry, 2011, 18, 1218-1224.	3.8	25
49	Transdermal delivery of insulin by ultrasonic vibration. Journal of Pharmacy and Pharmacology, 2011, 43, 270-271.	1.2	101
50	Sonoporation for Gene Transfer into Embryos. Cold Spring Harbor Protocols, 2011, 2011, prot5581.	0.2	1
51	Combination of ultrasound and bubble liposome enhance the effect of doxorubicin and inhibit murine osteosarcoma growth. Cancer Biology and Therapy, 2011, 12, 270-277.	1.5	54
52	A study of the efficacy of ultrasonic waves in removing biofilms. Gerodontology, 2010, 27, 199-206.	0.8	30
53	The Sonochemical and Biological Effects of Three Clinically-Used Contrast Agents. Japanese Journal of Applied Physics, 2010, 49, 07HF23.	0.8	5
54	Hypotonia-induced cell swelling enhances ultrasound-induced mechanical damage to cancer cells. Journal of Medical Ultrasonics (2001), 2010, 37, 3-8.	0.6	13

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55	Development of therapeutics using ultrasound techniques. <i>Neurosonology</i> , 2010, 23, 97-100.	0.0	0
56	A novel strategy utilizing ultrasound for antigen delivery in dendritic cell-based cancer immunotherapy. <i>Journal of Controlled Release</i> , 2009, 133, 198-205.	4.8	85
57	Growth inhibition of neurofibroma by ultrasound-mediated interferon $\hat{I}^3$ transfection. <i>Journal of Medical Ultrasonics</i> (2001), 2009, 36, 3-8.	0.6	3
58	Low-intensity ultrasound adjuvant therapy: enhancement of doxorubicin-induced cytotoxicity and the acoustic mechanisms involved. <i>Journal of Medical Ultrasonics</i> (2001), 2009, 36, 61.	0.6	15
59	Sonothrombolysis for Intraocular Fibrin Formation in an Animal Model. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, 1845-1853.	0.7	13
60	1498: Hypotonia-Induced Cell Swelling Enhances Ultrasound-Induced Mechanical Damage on Cancers Cells. <i>Ultrasound in Medicine and Biology</i> , 2009, 35, S235.	0.7	0
61	Evaluation and comparison of three novel microbubbles: Enhancement of ultrasound-induced cell death and free radicals production. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 372-378.	3.8	31
62	Therapeutic potential of low-intensity ultrasound (part 1): thermal and sonomechanical effects. <i>Journal of Medical Ultrasonics</i> (2001), 2008, 35, 153-160.	0.6	17
63	Therapeutic potential of low-intensity ultrasound (part 2): biomolecular effects, sonotransfection, and sonopermeabilization. <i>Journal of Medical Ultrasonics</i> (2001), 2008, 35, 161-167.	0.6	7
64	Sonodynamic therapy. <i>Ultrasonics</i> , 2008, 48, 253-259.	2.1	189
65	Genetic networks responsive to low-intensity pulsed ultrasound in human lymphoma U937 cells. <i>Cancer Letters</i> , 2008, 270, 286-294.	3.2	40
66	Biomolecular Effects of Low-Intensity Ultrasound: Apoptosis, Sonotransfection, and Gene Expression. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 4435.	0.8	24
67	Inhibition of melanoma by ultrasound-microbubble-aided drug delivery suggests membrane permeabilization. <i>Cancer Biology and Therapy</i> , 2007, 6, 1282-1289.	1.5	46
68	Cessation of gastrulation is mediated by suppression of epithelial-mesenchymal transition at the ventral ectodermal ridge. <i>Development (Cambridge)</i> , 2007, 134, 4315-4324.	1.2	57
69	In Vivo-Simulated Sonotransfection and the Effect of Gamma Interferon Gene on Neurofibroma Proliferation. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
70	Identification of genes responsive to low intensity pulsed ultrasound in a human leukemia cell line Molt-4. <i>Cancer Letters</i> , 2007, 246, 149-156.	3.2	63
71	Molecular Therapy Using Ultrasound : Mechanisms Involved in Drug Activation, Apoptosis Induction, Gene Transfer, and Alterations of Gene Expression. <i>Thermal Medicine</i> , 2007, 23, 113-122.	0.0	3
72	Antitumor effect of TNP-470, an angiogenesis inhibitor, combined with ultrasound irradiation for human uterine sarcoma xenografts evaluated using contrast color Doppler ultrasound. <i>Cancer Science</i> , 2007, 98, 929-935.	1.7	19

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73	Optimized ultrasound-mediated gene transfection in cancer cells. <i>Cancer Science</i> , 2006, 97, 1111-1114.	1.7	54
74	Confirmation of enhanced expression of heme oxygenase-1 gene induced by ultrasound and its mechanism: analysis by cDNA microarray system, real-time quantitative PCR, and Western blotting. <i>Journal of Medical Ultrasonics</i> (2001), 2006, 33, 3-10.	0.6	6
75	EMERGING TECHNOLOGIES USING ULTRASOUND FOR DRUG DELIVERY. , 2006, , 131-166.		2
76	Biological Effects of Ultrasound: Sonomechanical Mechanism, and Its Implications on Therapy and Biosafety. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
77	Gene Transfer to Corneal Epithelium and Keratocytes Mediated by Ultrasound with Microbubbles. , 2006, 47, 558.		106
78	Emerging Technologies in Therapeutic Ultrasound. <i>Choonpa Igaku</i> , 2006, 33, 631-639.	0.0	2
79	Gene therapy for hepatocellular carcinoma using sonoporation enhanced by contrast agents. <i>Cancer Gene Therapy</i> , 2005, 12, 884-889.	2.2	80
80	An efficient gene transfer method mediated by ultrasound and microbubbles into the kidney. <i>Journal of Gene Medicine</i> , 2005, 7, 108-116.	1.4	103
81	Local delivery of E2F decoy oligodeoxynucleotides using ultrasound with microbubble agent (Optison) inhibits intimal hyperplasia after balloon injury in rat carotid artery model. <i>Biochemical and Biophysical Research Communications</i> , 2004, 317, 508-514.	1.0	73
82	Ultrasound therapy for stroke and regenerative medicine. <i>International Congress Series</i> , 2004, 1274, 153-158.	0.2	3
83	Emerging Technologies in Therapeutic Ultrasound: Thermal Ablation to Gene Delivery. <i>Human Cell</i> , 2004, 17, 7-15.	1.2	35
84	Optimization of enhancement of therapeutic efficacy of ultrasound: Frequency-dependent effects on iodine formation from KI-starch solutions and ultrasound-induced killing of rat thymocytes. <i>Journal of Medical Ultrasonics</i> (2001), 2003, 30, 93-101.	0.6	7
85	Microbubble-enhanced sonoporation: Efficient gene transduction technique for chick embryos. <i>Genesis</i> , 2003, 37, 91-101.	0.8	57
86	Enhancement of ultrasound-induced apoptosis and cell lysis by echo-contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 331-337.	0.7	156
87	Induction of Reparative Dentin Formation by Ultrasound-Mediated Gene Delivery of Growth/Differentiation Factor 11. <i>Human Gene Therapy</i> , 2003, 14, 591-597.	1.4	127
88	Gene Transfer with Echo-enhanced Contrast Agents: Comparison between Alburnex, Optison, and Levovist in Mice—Initial Results. <i>Radiology</i> , 2003, 229, 423-428.	3.6	215
89	Therapeutic Ultrasound. <i>Neurosonology</i> , 2003, 16, 146-151.	0.0	1
90	In Vivo Gene Transfer into Muscle via Electro-Sonoporation. <i>Human Gene Therapy</i> , 2002, 13, 2079-2084.	1.4	73

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91	Local Delivery of Plasmid DNA Into Rat Carotid Artery Using Ultrasound. <i>Circulation</i> , 2002, 105, 1233-1239.	1.6	475
92	In vitro transfer of antisense oligodeoxynucleotides into coronary endothelial cells by ultrasound. <i>Biochemical and Biophysical Research Communications</i> , 2002, 298, 587-590.	1.0	43
93	Sound waves and antineoplastic drugs: The possibility of an enhanced combined anticancer therapy. <i>Journal of Medical Ultrasonics</i> (2001), 2002, 29, 173-187.	0.6	38
94	Targeted sonodynamic therapy of cancer using a photosensitizer conjugated with antibody against carcinoembryonic antigen. <i>Anticancer Research</i> , 2002, 22, 1575-80.	0.5	36
95	High-resolution scanning electron microscopic evaluation of cell-membrane porosity by ultrasound. <i>Medical Electron Microscopy: Official Journal of the Clinical Electron Microscopy Society of Japan</i> , 2001, 34, 249-253.	1.8	63
96	The Use of Ultrasound for Drug Delivery. <i>Echocardiography</i> , 2001, 18, 323-328.	0.3	111
97	Enhanced cytotoxic effect of Ara-C by low intensity ultrasound to HL-60 cells. <i>Cancer Letters</i> , 2000, 149, 189-194.	3.2	91
98	Application of Ultrasound Energy as a New Drug Delivery System. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 3014-3019.	0.8	76
99	Induction of cell-membrane porosity by ultrasound. <i>Lancet, The</i> , 1999, 353, 1409.	6.3	419
100	Elimination of adult T cell leukemia cells by ultrasound in the presence of porfimer sodium. <i>Anti-Cancer Drugs</i> , 1997, 8, 329-335.	0.7	24
101	Eliminating adult T-cell leukaemia cells with ultrasound. <i>Lancet, The</i> , 1997, 349, 325.	6.3	54
102	T-stem cell leukemia/lymphoma with both myeloid lineage conversion and T-specific $\hat{\tau}$ recombination. <i>Leukemia Research</i> , 1997, 21, 763-773.	0.4	15
103	Scanning electron microscopic evaluation of the skin surface after ultrasound exposure. , 1997, 247, 455-461.		55
104	Ultrasound Energy for Enhancement of Fibrinolysis and Drug Delivery: Special Emphasis on the Use of a Transducer-Tipped Ultrasound System. <i>Developments in Cardiovascular Medicine</i> , 1996, , 121-133.	0.1	6
105	Albumin Microbubble Echo-Contrast Material as an Enhancer for Ultrasound Accelerated Thrombolysis. <i>Circulation</i> , 1995, 92, 1148-1150.	1.6	299
106	Liver tissue damage by ultrasound in combination with the photosensitizing drug, Photofrin II. <i>Cancer Letters</i> , 1994, 78, 177-181.	3.2	23
107	Enhancement of cell killing of HL-60 cells by ultrasound in the presence of the photosensitizing drug Photofrin II. <i>Cancer Letters</i> , 1993, 72, 195-199.	3.2	61
108	Use of Ultrasound to Enhance the Local Anesthetic Effect of Topically Applied Aqueous Lidocaine. <i>Anesthesiology</i> , 1993, 78, 1091-1096.	1.3	81

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109	Enhancement of Fibrinolysis with Ultrasound Energy. Journal of Vascular and Interventional Radiology, 1992, 3, 299-303.	0.2	102
110	Transdermal delivery of insulin to alloxan-diabetic rabbits by ultrasound exposure. Pharmaceutical Research, 1992, 09, 952-954.	1.7	144