

# Kiyoshi Yoshinaka

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

568  
citations

840776

11  
h-index

713466

21  
g-index

72  
all docs

72  
docs citations

72  
times ranked

546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Contact and friction between catheter and blood vessel. Tribology International, 2007, 40, 319-328.	5.9	94
2	The final stage of the collapse of a cloud of bubbles close to a rigid boundary. Ultrasonics Sonochemistry, 2011, 18, 59-64.	8.2	76
3	An endoscopic tactile sensor for low invasive surgery. Sensors and Actuators A: Physical, 2005, 119, 372-383.	4.1	36
4	Focus Control Aided by Numerical Simulation in Heterogeneous Media for High-Intensity Focused Ultrasound Treatment. Japanese Journal of Applied Physics, 2013, 52, 07HF01.	1.5	34
5	Visual servoing for a US-guided therapeutic HIFU system by coagulated lesion tracking: a phantom study. International Journal of Medical Robotics and Computer Assisted Surgery, 2011, 7, 237-247.	2.3	22
6	Micro-bubble enhanced HIFU. Physics Procedia, 2010, 3, 305-314.	1.2	21
7	Low invasive propulsion of medical devices by traction using mucus. Wear, 1997, 209, 179-183.	3.1	19
8	Locomotion of medical micro robot with spiral ribs using mucus. , 0, , .		18
9	Numerical analysis and experimental observation of guidewire motion in a blood vessel model. Medical Engineering and Physics, 2014, 36, 1672-1683.	1.7	17
10	A control framework for the non-invasive ultrasound theragnostic system. , 2009, , .		14
11	A Novel High Intensity Focused Ultrasound Robotic System for Breast Cancer Treatment. Lecture Notes in Computer Science, 2013, 16, 388-395.	1.3	14
12	Ultrasound-mediated gene transfection <i>in vitro</i> : Effect of ultrasonic parameters on efficiency and cell viability. International Journal of Hyperthermia, 2012, 28, 290-299.	2.5	13
13	Development of an In Vitro Tracking System with Poly (vinyl alcohol) Hydrogel for Catheter Motion. Journal of Biomechanical Science and Engineering, 2010, 5, 11-17.	0.3	12
14	Three-dimensional computer-controlled acoustic pressure scanning and quantification of focused ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 883-891.	3.0	12
15	A new medical microrobot for minimal invasive surgery. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2001, 215, 215-220.	1.8	11
16	Development of Computer-based Simulator for Catheter Navigation in Blood Vessels (1st Report,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2006, 72, 2137-2145.	0.2	10
17	A novel robust template matching method to track and follow body targets for NIUTS. , 2014, , .		10
18	Feed-Forward Controller for the Integrated Non-Invasive Ultrasound Diagnosis and Treatment. Journal of Robotics and Mechatronics, 2008, 20, 89-97.	1.0	10

#	ARTICLE	IF	CITATIONS
19	Development of Computer-Based Simulator for Catheter Navigation in Blood Vessels (2nd Report,) Tj ETQq1 1 0.784314 rgBT /Overlock Japan Society of Mechanical Engineers, Part C, 2007, 73, 2988-2995.	0.2	9
20	Real-time feedback control for high-intensity focused ultrasound system using localized motion imaging. Japanese Journal of Applied Physics, 2015, 54, 07HD15.	1.5	7
21	Evaluation of the effect of catheter on the guidewire motion in a blood vessel model by physical and numerical simulations. Journal of Biomechanical Science and Engineering, 2017, 12, 17-00181-17-00181.	0.3	7
22	Numerical simulations and lab tests for design of MR-compatible robots. , 0, , .		6
23	Temperature distributions measurement of high intensity focused ultrasound using a thin-film thermocouple array and estimation of thermal error caused by viscous heating. , 2013, 2013, 3722-5.		6
24	Biplane US-Guided Real-Time Volumetric Target Pose Estimation Method for Theragnostic HIFU System. Journal of Robotics and Mechatronics, 2011, 23, 400-407.	1.0	6
25	Heating Location Control of HIFU Treatment Enhanced with Microbubbles. , 2011, , .		5
26	Numerical estimation of HIFU focal error for breast cancer treatment. , 2013, , .		5
27	Construction Methodology for NIUTS " Bed Servoing System for Body Targets ". Journal of Robotics and Mechatronics, 2013, 25, 1088-1096.	1.0	5
28	Technologizing and Digitalizing of Medical Professional Skills for a Non-Invasive Ultrasound Theragnostic System. , 2012, , .		5
29	A visualization method for a wide range of rising temperature induced by high-intensity focused ultrasound using a tissue-mimicking phantom. International Journal of Hyperthermia, 2022, 39, 22-33.	2.5	5
30	Experimental study to control the insertion resistance of internal medical instrument using magnetic field oscillation. Tribology International, 2007, 40, 339-344.	5.9	4
31	Integration of diagnostics and therapy by ultrasound and robot technology. , 2010, , .		4
32	Ultrasound-Mediated Gene TransfectionIn vitro: Enhanced Efficiency by Complexation of Plasmid DNA. Japanese Journal of Applied Physics, 2012, 51, 07GF29.	1.5	4
33	Servoing Performance Enhancement via a Respiratory Organ Motion Prediction Model for a Non-Invasive Ultrasound Theragnostic System. Journal of Robotics and Mechatronics, 2017, 29, 434-446.	1.0	4
34	HIFU Beam Imaging Based on Scattering Signals from Focal Area. Procedia CIRP, 2013, 5, 282-285.	1.9	3
35	Localization control to enhance sensisitivity for small coagulated area using optimal modulartion frequency of radiation force. , 2013, , .		3
36	A novel redundant motion control mechanism in accordance with medical diagnostic and therapeutic task functions for a NIUTS. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
37	Development of HIFU Therapy System for Lower Extremity Varicose Veins. , 2009, , .		2
38	Development of Noninvasive Vascular Occlusion Method with HIFU. , 2010, , .		2
39	Development of HIFU Treatment for Lower Extremity Varicose Veins. AIP Conference Proceedings, 2011, , .	0.4	2
40	Measurements of HIFU-induced Lesions in BSA Gel Phantoms for HIFU Treatment of Varicose Veins of Lower Extremity. , 2011, , .		2
41	A Mechanical System Identification Method for Non-Invasive Ultrasound Theragnostic System. Procedia CIRP, 2013, 5, 315-320.	1.9	2
42	HIFU beam visualization using beam profile extraction from tissue speckle pattern. , 2014, , .		2
43	Construction of kidney phantom model with acoustic shadow by rib bones and respiratory organ motion. AIP Conference Proceedings, 2017, , .	0.4	2
44	Evaluation of effect of aneurysm model material on coil contact force and catheter movement. Journal of Biomechanical Science and Engineering, 2022, 17, 21-00261-21-00261.	0.3	2
45	Evaluation of Contact Force between Aneurysm Model and Coil for Embolization of Intracranial Aneurysms. Journal of Neuroendovascular Therapy, 2021, 15, 233-239.	0.1	2
46	Technologizing and Digitalizing Medical Professional Skills for a Non-Invasive Ultrasound Theragnostic System “ Technologizing and Digitalizing Kidney Stone Extraction Skills “. Journal of Robotics and Mechatronics, 2012, 24, 379-388.	1.0	2
47	System Identification Method for Non-Invasive Ultrasound Theragnostic System Incorporating Mechanical Oscillation Part. International Journal of Automation Technology, 2014, 8, 110-119.	1.0	2
48	Experimental study of hydrodynamic propulsion of a medical device with a spiral ribbed impeller. Wear, 1998, 220, 141-144.	3.1	1
49	Analysis of microbubble dynamics under ultrasound exposure. , 2010, , .		1
50	Temperature distribution in heating experiment using HIFU and microbubbles. , 2010, , .		1
51	A Study of Micro-bubble Enhanced Sonoporation. , 2011, , .		1
52	Ultrasound-mediated gene transfection: A comparison between cells irradiated in suspension and attachment status. AIP Conference Proceedings, 2012, , .	0.4	1
53	Localized elasticity measurement for detection of coagulation during HIFU therapy. , 2013, 2013, 6273-6.		1
54	Two-dimensional manipulation of microbubbles using primary Bjerknes force. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
55	An extremely robust US based focal lesion servo system incorporating a servo recovery algorithm for a NIUTS. , 2015, , .		1
56	A study for tracking focal lesions in non-invasive ultrasound theragnostic system. , 2017, , .		1
57	Vision-based Tactile Sensor for Endoscopy. , 2007, , 13-23.		1
58	Ultrasonic Bone Curette in Vestibular Schwannoma Surgery. Practica Otologica, 2009, 102, 900-901.	0.0	1
59	Framework of US-guided therapeutic HIFU system for renal diseases. , 2010, , .		1
60	Reduction method of surface friction of internal medical instrument using magnetic field oscillation. International Congress Series, 2005, 1281, 1360.	0.2	0
61	Ultrasound Gene Transfer into Fibroblast Cells using Microbubbles. , 2009, , .		0
62	Development of HIFU treatment in which the heating location is controlled using microbubbles. , 2009, , .		0
63	Micro-bubble Enhanced Sonoporation. , 2010, , .		0
64	Development of computer controlled HIFU focal model scanning system. , 2010, , .		0
65	Ultrasound -Assisted Gene Transfer to Adipose Tissue-Derived Stemâ~•Progenitor Cells (ASCs). , 2011, , .		0
66	Analysis for Acoustic Characterization of Microbubbles under Ultrasound Exposure. , 2011, , .		0
67	Optimization of HIFU treatment on the basis of temperature distributions measured by a thin-film thermocouple array. , 2012, , .		0
68	Construction Methodology for the Non-Invasive Ultrasound Theragnostic System (4th report) -Bed-Type Servoing System for Body Targets. Procedia CIRP, 2013, 5, 294-299.	1.9	0
69	The Localized Elasticity Measurement for Coagulation Detection during HIFU Therapy. Procedia CIRP, 2013, 5, 325-328.	1.9	0
70	B202 Vision and touch fusion system using vision-based tactile sensor. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2007, 2007.18, 115-116.	0.0	0
71	Medical and bio are new digitals - Realization of ultrasound diagnosis and treatment with ultra-high precision by Me-DigIT-. Choonpa Igaku, 2018, 45, 173-182.	0.0	0