

# Ryosuke Tsumura

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1443760/publications.pdf>

Version: 2024-02-01

33  
papers

185  
citations

1307594

7  
h-index

1372567

10  
g-index

33  
all docs

33  
docs citations

33  
times ranked

86  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic-resolution photoacoustic microscope based on compact and low-cost delta configuration actuator. <i>Ultrasonics</i> , 2022, 118, 106549.	3.9	12
2	Mirror-integrated ultrasound image-guided access. , 2022, , .		3
3	Actuated Reflector-Based 3-D Ultrasound Imaging With Synthetic Aperture Focusing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 2437-2446.	3.0	5
4	Tele-Operative Low-Cost Robotic Lung Ultrasound Scanning Platform for Triage of COVID-19 Patients. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 4664-4671.	5.1	24
5	Heart Position Estimation based on Bone Distribution toward Autonomous Robotic Fetal Ultrasonography. , 2021, , .		2
6	Robot-to-image Registration with Geometric Marker for CT-guided Robotic Needle Insertion. , 2021, , .		0
7	Anatomical Feature-Based Lung Ultrasound Image Quality Assessment Using Deep Convolutional Neural Network. , 2021, , .		0
8	Robotic Cytology using Extra-Fine Needles : -Proposal of Puncture Control Strategy for Increasing Collection Amount-. , 2021, 2021, 1452-1456.		0
9	Fine needle insertion method for minimising deflection in lower abdomen: In vivo evaluation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020, 16, 1-12.	2.3	6
10	Reflector-based Transrectal 3D Ultrasound Imaging System for Transperineal Needle Intervention. , 2020, , .		2
11	Development of a Needle Deflection Detection System for a CT Guided Robot. , 2020, , .		3
12	Robotic fetal ultrasonography platform with a passive scan mechanism. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1323-1333.	2.8	32
13	The Proposal of Spiral Ascending Scanning Method for Pregnant Woman Ultrasound Support Robot, Built through the Analyzation of Mechanism of Contact Point of It. <i>Journal of the Robotics Society of Japan</i> , 2020, 38, 667-674.	0.1	0
14	Development of ultrasonography assistance robot for prenatal care. , 2020, , .		9
15	Ring-arrayed forward-viewing ultrasound imaging system: a feasibility study. , 2020, 11319, .		5
16	Compact and Low-Cost Acoustic-Resolution Photoacoustic Microscopy Based on Delta Configuration Actuator. , 2020, , .		0
17	Estimation of Fetal Position and Orientation based on Skeletal Distribution with Robotic Ultrasonography. , 2020, , .		0
18	Forward-Viewing Ultrasound Imaging with Concentric-Ring Arrays for Registration-Free Needle Intervention. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Intermittent Insertion Control Method with Fine Needle for Adapting Lung Deformation due to Breathing Motion. , 2020, , .		0
20	Quantitative Evaluation of Bleeding during Blood Vessel Puncture Caused by Fine Needle in Lower Abdomen*. , 2019, 2019, 5862-5866.		1
21	Needle Insertion Control Method for Minimizing Both Deflection and Tissue Damage. Journal of Medical Robotics Research, 2019, 04, 1842005.	1.2	9
22	Mechanical-Based Model for Extra-Fine Needle Tip Deflection Until Breaching of Tissue Surface. Journal of Medical and Biological Engineering, 2018, 38, 697-706.	1.8	1
23	Preoperative Needle Insertion Path Planning for Minimizing Deflection in Multilayered Tissues. IEEE Robotics and Automation Letters, 2018, 3, 2129-2136.	5.1	21
24	Needle Insertion Path Planning System for Lower Abdominal Insertion Based on CT Images. , 2018, , .		2
25	Trajectory Planning for Abdominal Fine Needle Insertion Based on Insertion Angles. IEEE Robotics and Automation Letters, 2017, 2, 1226-1231.	5.1	13
26	Inverse Innovation: Ripple Railway Model to Acquire Local Industries Based on User's Viewpoint in Thailand. , 2017, , .		0
27	Development of registration marker for CT-guided needle insertion robot. , 2017, , .		1
28	Methods of control for minimizing extra-fine needle deflection with a combination of vibration and rotation in the lower abdomen. Journal of Biomechanical Science and Engineering, 2017, 12, 16-00468-16-00468.	0.3	7
29	Insertion method for minimizing fine needle deflection in bowel insertion based on experimental analysis. , 2017, , .		6
30	Histological evaluation of tissue damage caused by rotational needle insertion. , 2016, 2016, 5120-5123.		15
31	Novel Social Innovation Concept Based on the Viewpoint of the Infrastructure User. , 2015, , .		2
32	Objective evaluation of oral presentation skills using Inertial Measurement Units. , 2015, 2015, 3117-20.		1
33	3P1-D03 Development of a CT-guided Needle Insertion Robot with Extra Fine Needle : Reducing of Needle Deflection on Complex Tissue(Medical Robotics and Mechatronics (2)). The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2014, 2014, _3P1-D03_1-_3P1-D03_2.	0.0	0