

# Takashi Tsukamoto

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

313  
citations

1307594

7  
h-index

1125743

13  
g-index

53  
all docs

53  
docs citations

53  
times ranked

105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triple Mass Resonator for Electrostatic Quality Factor Tuning. Journal of Microelectromechanical Systems, 2022, 31, 194-203.	2.5	5
2	A Mode Localized Force Transducer with Reduced Feedthrough via 1:2 Internal Resonance Actuation. , 2022, , .		2
3	Feedback Controlled Pzt Micromirror with Integrated Buried Piezoresistors. , 2022, , .		3
4	Mode-Matched Multi-Ring Disk Resonator Using (100) Single Crystal Silicon. , 2022, , .		3
5	A Novel Quality Factor Trimming Method for Multi-Ring MEMS Resonators Based on Thermoelastic Dissipation. , 2022, , .		3
6	Real Time Q-Factor Mismatch Detection For Rate Integrating Gyroscope Using Amplitude Modulated Driving Signal. , 2022, , .		0
7	Frequency Modulated MEMS Lorentz Force Magnetometer Using CW/CCW Modes. , 2022, , .		2
8	A mechanically coupled three degree-of-freedom resonator with tunable stiffness sensitivity. Sensors and Actuators A: Physical, 2022, 344, 113713.	4.1	1
9	A Novel three Degree-of-Freedom Resonator with High Stiffness Sensitivity Utilizing Mode Localization. , 2021, , .		3
10	PZT MEMS Actuator with Integrated Buried Piezoresistors for Position Control. , 2021, , .		2
11	Rate Integrating Gyroscope Using Independently Controlled CW and CCW Modes on Single Resonator. Journal of Microelectromechanical Systems, 2021, 30, 15-23.	2.5	20
12	Mode-Matched Multi-Ring Disk Resonator Using Single Crystal (100) Silicon. , 2021, , .		2
13	Theoretical Consideration of Mismatch Compensation for MEMS Resonator Having Unaligned Principle Axes. , 2021, , .		2
14	Quad Mass Resonator With Frequency Mismatch of 3 ppm Trimmed by Focused Ion Beam. Journal of Microelectromechanical Systems, 2021, 30, 392-400.	2.5	14
15	Design of Electromagnetic Ring Resonator with Zero Anchorloss. , 2021, , .		0
16	Feedback control of thin film PZT MEMS actuator with integrated buried piezoresistors. Sensors and Actuators A: Physical, 2021, 332, 113131.	4.1	10
17	Quality factor trimming method using thermoelastic dissipation for multi-ring resonator. Sensors and Actuators A: Physical, 2021, 332, 113044.	4.1	9
18	Frequency and Quality Factor Matched 2-Axis Dual Mass Resonator. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
19	Dual-Mass Resonator with Dynamically Balanced Structure for Roll/Pitch Rate Integrating Gyroscope. , 2021, , .		1
20	Frequency Trimming Method for a Disk Resonator Using Flexural Rigidity. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 402-408.	0.1	1
21	Roll/Pitch Rate Integrating MEMS Gyroscope Using Dynamically Balanced Dual-Mass Resonator. , 2020, , .		4
22	Quality Factor Trimming Method Using Thermoelastic Dissipation for Ring-Shape MEMS Resonator. , 2020, , .		6
23	Triple Mass Resonator with High Capacity to Tune Frequency and Quality Factor. , 2020, , .		8
24	Fabrication Technology of Quartz Glass Resonator Using Sacrificial Metal Support Structure. , 2020, , .		1
25	Fabrication method of micromachined quartz glass resonator using sacrificial supporting structures. Sensors and Actuators A: Physical, 2020, 305, 111922.	4.1	5
26	Integration of buried piezoresistive sensors and PZT thin film for dynamic and static position sensing of MEMS actuator. Journal of Micromechanics and Microengineering, 2020, 30, 115020.	2.6	6
27	Efficient trimming method of the quality factor mismatch of a disk resonator using thermoelastic dissipation. The Proceedings of Conference of Tohoku Branch, 2020, 2020.55, 183_paper.	0.0	0
28	Design of Ring Resonator with Reduced Anchor-Loss. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2020, 2020.11, 26A3-MN2-3.	0.0	0
29	PZT THIN FILM ACTUATOR WITH INTEGRATED BURIED PIEZORESISTOR FOR HIGH STABILITY POSITION CONTROL. The Proceedings of Conference of Tohoku Branch, 2020, 2020.55, 181_paper.	0.0	0
30	Fabrication method of quartz glass ring resonator using sacrificial support structure. Journal of Micromechanics and Microengineering, 2020, 30, 115018.	2.6	1
31	Laterally vibrating MEMS resonant vacuum sensor based on cavity-SOI process for evaluation of wide range of sealed cavity pressure. Microsystem Technologies, 2019, 25, 487-497.	2.0	21
32	Quad Mass Gyroscope with 16 ppm Frequency Mismatch Trimmed by Focus Ion Beam. , 2019, , .		12
33	MEMS Rate Integrating Gyroscope with Temperature Corrected Virtual Rotation. , 2019, , .		7
34	Automated frequency and quality factor matching method for frequency modulated / rate integrating gyroscope. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2019, 209, 57-63.	0.4	0
35	Automated Frequency and Quality Factor Mismatch Compensation Method for MEMS Rate Integrating Gyroscope. , 2019, , .		8
36	Aptamer-Based Allergen Sensing System for Food Safety. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Printable on-chip micro battery. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1416-1421.	1.4	1
38	Fabrication method of micromachined quartz glass resonator using temporal Au supporting structures. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2019, 2019.10, 19pm5PN342.	0.0	0
39	Quality Factor Trimming Method Using Thermoelastic Dissipation for Ring-Shape MEMS Resonator. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2019, 2019.10, 21pm1PN318.	0.0	0
40	Automated Frequency and Quality-Factor Matching Method for Frequency Modulated / Rate Integrating Gyroscope. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 219-224.	0.1	1
41	Piezoelectric Moonie-type Resonant Microactuator. Electronics and Communications in Japan, 2018, 101, 3-10.	0.5	5
42	Wireless Sensor Chip Platform Using On-Chip Electrochromic Micro Display. IEICE Transactions on Electronics, 2018, E101.C, 870-873.	0.6	0
43	Fully Differential Single Resonator FM Gyroscope Using CW/CCW Mode Separator. Journal of Microelectromechanical Systems, 2018, 27, 985-994.	2.5	48
44	Virtually rotated MEMS whole angle gyroscope using independently controlled CW/CCW oscillations. , 2018, , .		16
45	2-axis Resonant Microstage Using Single Piezoelectric Moonie-type Microactuator. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 516-522.	0.1	7
46	Fully-differential single resonator FM/whole angle gyroscope using CW/CCW mode separator. , 2017, , .		29
47	FM/rate integrating MEMS gyroscope using independently controlled CW/CCW mode oscillations on a single resonator. , 2017, , .		18
48	Stylus type MEMS texture sensor covered with corrugated diaphragm. Journal of Micromechanics and Microengineering, 2017, 27, 095006.	2.6	5
49	On-chip electrochromic micro display for a disposable bio-sensor chip. Journal of Micromechanics and Microengineering, 2017, 27, 125012.	2.6	7
50	System development of biosensing module using CMOS hall sensor array for disposable wireless diagnosis device. , 2017, , .		0
51	Piezoelectric Moonie-type Resonant Microactuator. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 95-100.	0.1	6
52	High Sensitive TSP for Optical Readout Infrared Thermal Imaging Devices. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 443-447.	0.1	0
53	Thermal imaging device based on IR-to-visible conversion using temperature sensitive phosphor. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, F042006.	0.0	0