

Takashi Tsukamoto

List of Publications by Year in descending order

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53
papers

313
citations

1307594

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53
all docs

53
docs citations

53
times ranked

105
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully Differential Single Resonator FM Gyroscope Using CW/CCW Mode Separator. Journal of Microelectromechanical Systems, 2018, 27, 985-994.	2.5	48
2	Fully-differential single resonator FM/whole angle gyroscope using CW/CCW mode separator. , 2017, , .		29
3	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
4	Rate Integrating Gyroscope Using Independently Controlled CW and CCW Modes on Single Resonator. Journal of Microelectromechanical Systems, 2021, 30, 15-23.	2.5	20
5	FM/rate integrating MEMS gyroscope using independently controlled CW/CCW mode oscillations on a single resonator. , 2017, , .		18
6	Virtually rotated MEMS whole angle gyroscope using independently controlled CW/CCW oscillations. , 2018, , .		16
7	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
8	Quad Mass Gyroscope with 16 ppm Frequency Mismatch Trimmed by Focus Ion Beam. , 2019, , .		12
9	Feedback control of thin film PZT MEMS actuator with integrated buried piezoresistors. Sensors and Actuators A: Physical, 2021, 332, 113131.	4.1	10
10	Quality factor trimming method using thermoelastic dissipation for multi-ring resonator. Sensors and Actuators A: Physical, 2021, 332, 113044.	4.1	9
11	Automated Frequency and Quality Factor Mismatch Compensation Method for MEMS Rate Integrating Gyroscope. , 2019, , .		8
12	Triple Mass Resonator with High Capacity to Tune Frequency and Quality Factor. , 2020, , .		8
13	On-chip electrochromic micro display for a disposable bio-sensor chip. Journal of Micromechanics and Microengineering, 2017, 27, 125012.	2.6	7
14	MEMS Rate Integrating Gyroscope with Temperature Corrected Virtual Rotation. , 2019, , .		7
15	2-axis Resonant Microstage Using Single Piezoelectric Moonie-type Microactuator. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 516-522.	0.1	7
16	Quality Factor Trimming Method Using Thermoelastic Dissipation for Ring-Shape MEMS Resonator. , 2020, , .		6
17	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
18	Piezoelectric Moonie-type Resonant Microactuator. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 95-100.	0.1	6

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19	Frequency and Quality Factor Matched 2-Axis Dual Mass Resonator. , 2021, , .		6
20	Stylus type MEMS texture sensor covered with corrugated diaphragm. Journal of Micromechanics and Microengineering, 2017, 27, 095006.	2.6	5
21	Piezoelectric Moonieâ€type Resonant Microactuator. Electronics and Communications in Japan, 2018, 101, 3-10.	0.5	5
22	Fabrication method of micromachined quartz glass resonator using sacrificial supporting structures. Sensors and Actuators A: Physical, 2020, 305, 111922.	4.1	5
23	Triple Mass Resonator for Electrostatic Quality Factor Tuning. Journal of Microelectromechanical Systems, 2022, 31, 194-203.	2.5	5
24	Roll/Pitch Rate Integrating MEMS Gyroscope Using Dynamically Balanced Dual-Mass Resonator. , 2020, , .		4
25	A Novel three Degree-of-Freedom Resonator with High Stiffness Sensitivity Utilizing Mode Localization. , 2021, , .		3
26	Feedback Controlled Pzt Micromirror with Integrated Buried Piezoresistors. , 2022, , .		3
27	Mode-Matched Multi-Ring Disk Resonator Using (100) Single Crystal Silicon. , 2022, , .		3
28	A Novel Quality Factor Trimming Method for Multi-Ring MEMS Resonators Based on Thermoelastic Dissipation. , 2022, , .		3
29	Aptamer-Based Allergen Sensing System for Food Safety. , 2019, , .		2
30	PZT MEMS Actuator with Integrated Buried Piezoresistors for Position Control. , 2021, , .		2
31	Mode-Matched Multi-Ring Disk Resonator Using Single Crystal (100) Silicon. , 2021, , .		2
32	Theoretical Consideration of Mismatch Compensation for MEMS Resonator Having Unaligned Principle Axes. , 2021, , .		2
33	A Mode Localized Force Transducer with Reduced Feedthrough via 1:2 Internal Resonance Actuation. , 2022, , .		2
34	Frequency Modulated MEMS Lorentz Force Magnetometer Using CW/CCW Modes. , 2022, , .		2
35	Printable onâ€chip micro battery. IEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1416-1421.	1.4	1
36	Fabrication Technology of Quartz Glass Resonator Using Sacrificial Metal Support Structure. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
37	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
38	Fabrication method of quartz glass ring resonator using sacrificial support structure. Journal of Micromechanics and Microengineering, 2020, 30, 115018.	2.6	1
39	Dual-Mass Resonator with Dynamically Balanced Structure for Roll/Pitch Rate Integrating Gyroscope. , 2021, , .		1
40	Frequency Trimming Method for a Disk Resonator Using Flexural Rigidity. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 402-408.	0.1	1
41	A mechanically coupled three degree-of-freedom resonator with tunable stiffness sensitivity. Sensors and Actuators A: Physical, 2022, 344, 113713.	4.1	1
42	System development of biosensing module using CMOS hall sensor array for disposable wireless diagnosis device. , 2017, , .		0
43	Wireless Sensor Chip Platform Using On-Chip Electrochromic Micro Display. IEICE Transactions on Electronics, 2018, E101.C, 870-873.	0.6	0
44	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
45	Design of Electromagnetic Ring Resonator with Zero Anchorloss. , 2021, , .		0
46	High Sensitive TSP for Optical Readout Infrared Thermal Imaging Devices. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 443-447.	0.1	0
47	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
48	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
49	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
50	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
51	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
52	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
53	Real Time Q-Factor Mismatch Detection For Rate Integrating Gyroscope Using Amplitude Modulated Driving Signal. , 2022, , .		0