

Masayuki Sohgawa

List of Publications by Year in descending order

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69
papers

409
citations

840776

11
h-index

888059

17
g-index

69
all docs

69
docs citations

69
times ranked

221
citing authors

#	ARTICLE	IF	CITATIONS
1	Tactile sensor array using microcantilever with nickel-chromium alloy thin film of low temperature coefficient of resistance and its application to slippage detection. <i>Sensors and Actuators A: Physical</i> , 2012, 186, 32-37.	4.1	69
2	Stability Improvement of Tactile Sensor of Normal and Shear Stresses Using Ni-Cr Thin Film Gauge. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2009, 129, 411-416.	0.1	22
3	Fabrication and Normal/Shear Stress Responses of Tactile Sensors of Polymer/Si Cantilevers Embedded in PDMS and Urethane Gel Elastomers. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008, 128, 193-197.	0.1	20
4	Development of a Tactile Sensor Array with a Microcantilever Array. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2009, 129, 411-416.	0.1	22
5	Active Touch Sensing by Multi-axial Force Measurement Using High-Resolution Tactile Sensor with Microcantilevers. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2014, 134, 58-63.	0.1	16
6	Multimodal measurement of proximity and touch force by light- and strain-sensitive multifunctional MEMS sensor. , 2014, , .		15
7	Ferroelectric Properties of $\text{Bi}_{1-x}\text{Fe}_x\text{Co}_x\text{O}_3$ Thin Films Prepared by Chemical Solution Deposition Using Iterative Rapid Thermal Annealing in N_2 and O_2 . <i>Japanese Journal of Applied Physics</i> , 2010, 49, 09MB05.	1.5	14
8	Miniaturization and High-Density Arrangement of Microcantilevers in Proximity and Tactile Sensor for Dexterous Gripping Control. <i>Micromachines</i> , 2018, 9, 301.	2.9	13
9	Electromotive Manipulator Control by Detection of Proximity, Contact, and Slipping Using MEMS Multiaxial Tactile Sensor. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Tj ETQ)</i> 101, 1, 1-7.	1.0	10
10	Crosstalk Reduction of Tactile Sensor Array with Projected Cylindrical Elastomer over Sensing Element. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GM08.	1.5	12
11	Nondestructive and Contactless Monitoring Technique of Si Surface Stress by Photoreflectance. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 2844-2848.	1.5	11
12	Fabrication and Characterization of Normal and Shear Stresses Sensitive Tactile Sensors by Using Inclined Micro-cantilevers Covered with Elastomer. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1052, 1.	0.1	11
13	Crosstalk Reduction of Tactile Sensor Array with Projected Cylindrical Elastomer over Sensing Element. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GM08.	1.5	11
14	Proximity and Tactile Sensing Using a Single MEMS Sensor with Photo- and Strain Sensitivities. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2014, 134, 229-234.	0.1	11
15	Preparation of $\text{Bi}_{0.9}\text{Co}_{0.1}\text{O}_3$ Films by Pulsed Laser Deposition under Magnetic Field. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 09NB03.	1.5	10
16	Ferroelectric and Piezoelectric Properties of Polycrystalline BiFeO_3 Thin Films Prepared by Pulsed Laser Deposition under Magnetic Field. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09MD05.	1.5	10
17	Fabrication and Noise Reduction of the Miniature Tactile Sensor Using Through-Silicon-Via Connection with Signal Amplifier. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 06GL08.	1.5	10
18	Detection of Amyloid Beta Fibril Growth by Liposome-Immobilized Micro-Cantilever With NiCr Thin-Film Strain Gauge. <i>IEEE Sensors Journal</i> , 2015, 15, 7135-7141.	4.7	9

#	ARTICLE	IF	CITATIONS
19	Ferroelectric and Piezoelectric Properties of Polycrystalline BiFeO ₃ Thin Films Prepared by Pulsed Laser Deposition under Magnetic Field. Japanese Journal of Applied Physics, 2012, 51, 09MD05.	1.5	9
20	Micromachining of Titanium using a Desktop DRIE. IEEJ Transactions on Sensors and Micromachines, 2014, 134, 96-99.	0.1	8
21	Studies on Curvature Deformation Control of Bilayer Cantilever Fabricated by Surface Micromachining of SOI Wafer. Materials Research Society Symposia Proceedings, 2006, 969, 1.	0.1	6
22	Identification of various kinds of papers using multi-axial tactile sensor with micro-cantilevers. , 2013, , .		6
23	Tactile sensor using a microcantilever embedded in fluoroelastomer with resistance to cleaning and antiseptic solutions. Sensors and Actuators A: Physical, 2020, 301, 111774.	4.1	6
24	Fabrication of a Flexible Array for Tactile Sensors with Microcantilevers and the Measurement of the Distribution of Normal and Shear Forces. Japanese Journal of Applied Physics, 2011, 50, 06GM02.	1.5	6
25	Fabrication of a Flexible Array for Tactile Sensors with Microcantilevers and the Measurement of the Distribution of Normal and Shear Forces. Japanese Journal of Applied Physics, 2011, 50, 06GM02.	1.5	5
26	Preparation of epitaxial BiFeO ₃ thin films on La-SrTiO ₃ substrate by using magnetic-field-assisted pulsed laser deposition. Journal of the Korean Physical Society, 2013, 62, 1041-1045.	0.7	5
27	Review of Texture Measurement of Object Surface by Tactile Sensor with Inclined Micro-cantilevers. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 147-154.	0.1	5
28	Repetition Rate Dependence of Ferroelectric Properties of Polycrystalline BiFeO ₃ Films Prepared by Pulsed Laser Deposition Method. Ferroelectrics, 2013, 453, 1-7.	0.6	4
29	Texture measurement and identification of object surface by MEMS tactile sensor. , 2014, , .		4
30	A Cantilever-based Biosensor for Real-time Monitoring of Interactions between Amyloid β (1-40) and Membranes Comprised of Phosphatidylcholine Lipids with Different Hydrophobic Acyl Chains. Electroanalysis, 2017, 29, 722-729.	2.9	4
31	Label-free, chronological and selective detection of aggregation and fibrillization of amyloid β protein in serum by microcantilever sensor immobilizing cholesterol-incorporated liposome. Biotechnology and Bioengineering, 2020, 117, 2469-2478.	3.3	4
32	Numerical Calculation and Experimental Verification of a Quartz-crystal-resonator-based Methanol Concentration Sensor. IEEJ Transactions on Sensors and Micromachines, 2014, 134, 224-228.	0.1	4
33	Non-contact Sensor for Measurement of Liquid Concentration based on Quartz Oscillator. IEEJ Transactions on Sensors and Micromachines, 2015, 135, 210-213.	0.1	4
34	Miniature Ultrasonic and Tactile Sensors for Dexterous Robot. Transactions on Electrical and Electronic Materials, 2012, 13, 215-220.	1.9	4
35	Confirmation of Gripping Status Classification using an Array of Micro Cantilever Type Tactile Sensor. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 40-42.	0.2	4
36	Contactless Characterization of Fixed Charges in HfO ₂ Thin Film from Photoreflectance. Japanese Journal of Applied Physics, 2005, 44, 2409-2414.	1.5	3

#	ARTICLE	IF	CITATIONS
37	Basic study for tactile and visual texture measurement by multimodal MEMS sensor with force and light sensitivity. , 2015, , .		3
38	Development of Dual Channel Type Contactless Liquid Sensor using a Quartz Oscillator Circuit. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 37-40.	0.1	3
39	Tactile Sensor with High-Density Microcantilever and Multiple PDMS Bumps for Contact Detection. Journal of Robotics and Mechatronics, 2020, 32, 297-304.	1.0	3
40	A New Detection of Biomarker Molecule of α -Synuclein for Parkinson Disease by Phospholipid Liposome-Immobilized Cantilever Microsensor with Temperature Stabilization. , 2019, , .		2
41	Texture Evaluation for Planed Surface of Polyoxymethylene Resin by Measuring Surface Shape and Color with Light and Strain Sensitive Tactile Sensor. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 250-256.	0.1	2
42	Tactile Sensor Using Micro-cantilever with BiFeO ₃ Piezoelectric Film. IEEJ Transactions on Sensors and Micromachines, 2015, 135, 158-164.	0.1	2
43	Measurement by Tactile Sensor and FEM Analysis of Multi-layered Flexible Model for Skin Diagnosis. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 149-154.	0.1	2
44	Heterogeneous Integration of LSI Amplifier and the Tactile Sensor Using Stacking and Through-Si-Via Techniques. Materials Research Society Symposia Proceedings, 2012, 1427, 14.	0.1	1
45	Force intensity and direction measurement in real time using miniature tactile sensor with microcantilevers embedded in PDMS. , 2013, , .		1
46	Fabrication of a true-Gaussian-shaped quartz crystal resonator. Sensors and Actuators A: Physical, 2017, 260, 58-61.	4.1	1
47	Measurement Techniques with Frequency-Modulated Probe Light for Proximity and Tactile Combo Sensor. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 146-150.	0.1	1
48	Shape Optimization of Combo Sensor using Quartz Crystal Resonator for Liquid Analysis. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 343-347.	0.1	1
49	Detection of Gripping State Using Tactile Sensors Installed on Handgrip for Tools. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 228-234.	0.1	1
50	Detection Area Evaluation of Tactile Sensor Using Microcantilever Embedded in Elastomer. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 272-277.	0.1	1
51	Fabrication of heater-integrated MEMS tactile sensor for evaluation of warm and cold sensation by touching glass. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2022, 215, .	0.4	1
52	Characterization of Ferroelectric Thin Film/SiO ₂ /Si Structure by Photoreflectance. Ferroelectrics, 2004, 303, 119-123.	0.6	0
53	Multifunctional tactile sensors using MEMS cantilevers. , 2014, , .		0
54	Fabrication of Heater-Integrated MEMS Tactile Sensor for Evaluation of Warm and Cold Sensation by Touching Glass. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 343-348.	0.1	0

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55	Development of quartz crystal complex capacitive sensor with microelectrode array for sensitization. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2021, 214, e23356.	0.4	0
56	Microheater-integrated Quartz Crystal Microbalance Array for Thermal Desorption Spectroscopy. IEEJ Transactions on Sensors and Micromachines, 2015, 135, 112-113.	0.1	0
57	Deposition and Characterization of Al ₂ O ₃ and BiFeO ₃ Thin Films on Titanium Substrates for Tough MEMS Devices. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 46-47.	0.1	0
58	Evaluation of the Heating Characteristics of Miniature QCR-based Thermogravimetric Sensor in Vacuum. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 180-184.	0.1	0
59	Evaluation of Millimeter-wave Radar Sensor in Water Level Monitoring System for Flood Disaster Prevention. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 461-465.	0.1	0
60	Fabrication and Evaluation of Quartz Oscillator Based Viscosity / Concentration Sensor for a Drop Sensing. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 81-84.	0.1	0
61	Development of Quartz Oscillator Based Liquid Concentration Sensor for Contactless Monitoring of Solution in Bottle. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 169-174.	0.1	0
62	Fabrication and Characterization of Microcantilever for Detection of Vibration Sensation in Tactile Sensing. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 375-380.	0.1	0
63	Multi-frequency Quartz Oscillator Based Liquid Concentration Sensor with External Magnetic Field for Ion Discrimination. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 349-353.	0.1	0
64	Contactless Monitoring of Water Treatment Process Using Quartz Oscillator Based Liquid Sensor. IEEJ Transactions on Sensors and Micromachines, 2020, 140, 251-255.	0.1	0
65	Preface to the Special Issue on "Sensors/Sensing Systems of IoT for Future". IEEJ Transactions on Sensors and Micromachines, 2020, 140, 221-221.	0.1	0
66	Sensitivity Enhancement of MEMS Tactile Sensor by Redesign of Microcantilever and Strain Gauge. , 2021, , .		0
67	Detection of Rigid Object Embedded in Skin Model Using Tactile Sensor for Palpation. , 2021, , .		0
68	Improvement of Durability of Insulation Film for Low-voltage Electrostatic Tactile Display. IEEJ Transactions on Sensors and Micromachines, 2022, 142, 85-90.	0.1	0
69	Redesigned Microcantilevers for Sensitivity Improvement of Microelectromechanical System Tactile Sensors. Journal of Robotics and Mechatronics, 2022, 34, 677-682.	1.0	0