

Takeshi Kanashima

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

826

citations

14

h-index

24

g-index

92

ext. papers

907

ext. citations

1.8

avg, IF

3.59

L-index

#	Paper	IF	Citations
86	Enhancement of electrical properties in polycrystalline BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2006 , 89, 192902	3.4	144
85	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	3.9	46
84	A pseudo-single-crystalline germanium film for flexible electronics. <i>Applied Physics Letters</i> , 2015 , 106, 041902	3.4	40
83	Structural and ferroelectric properties of epitaxial Bi ₅ Ti ₃ FeO ₁₅ and natural-superlattice-structured Bi ₄ Ti ₃ O ₁₂ Bi ₅ Ti ₃ FeO ₁₅ thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 074106	2.5	37
82	Pulsed Laser Deposition and Characterization of Sr and Zn Co-Substituted BiFeO ₃ Thin Films. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 09KB03	1.4	27
81	Spin transport in p-Ge through a vertically stacked Ge/Fe ₃ Si junction. <i>Applied Physics Letters</i> , 2016 , 109, 022406	3.4	22
80	Electrical properties of pseudo-single-crystalline Ge films grown by Au-induced layer exchange crystallization at 250 °C. <i>Journal of Applied Physics</i> , 2018 , 123, 215704	2.5	21
79	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	0.2	21
78	Photoluminescence of SiO ₂ films grown by photo-induced chemical vapor deposition. <i>Applied Surface Science</i> , 1994 , 79-80, 321-326	6.7	21
77	Ferroelectric and structural properties of stress-constrained and stress-relaxed polycrystalline BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2009 , 105, 061617	2.5	18
76	Basic characteristics of metal-ferroelectric-insulator-semiconductor structure using a high-k PrOx insulator layer. <i>Journal of Applied Physics</i> , 2003 , 93, 4137-4143	2.5	18
75	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	0.2	16
74	Organic ferroelectric gate field-effect transistor memory using high-mobility rubrene thin film. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 04ED11	1.4	15
73	All-epitaxial Co ₂ FeSi/Ge/Co ₂ FeSi trilayers fabricated by Sn-induced low-temperature epitaxy. <i>Journal of Applied Physics</i> , 2016 , 119, 045302	2.5	15
72	A crystalline germanium flexible thin-film transistor. <i>Applied Physics Letters</i> , 2017 , 111, 222105	3.4	14
71	Tactile array sensor with inclined chromium/silicon piezoresistive cantilevers embedded in elastomer 2009 ,		14
70	Optical characterizations of photo-induced chemical vapor deposition produced SiO ₂ films in vacuum ultraviolet, ultraviolet, and visible region. <i>Journal of Applied Physics</i> , 1993 , 74, 5742-5747	2.5	12

69	Spin-related thermoelectric conversion in lateral spin-valve devices with single-crystalline Co ₂ FeSi electrodes. <i>Applied Physics Express</i> , 2015 , 8, 043003	2.4	11
68	Multimodal measurement of proximity and touch force by light- and strain-sensitive multifunctional MEMS sensor 2014 ,		11
67	Ferroelectric Properties of Bi _{1.1} Fe _{1-x} Co _x 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	1.4	11
66	Fabrication and Characterization of Ferroelectric Poly(vinylidene fluoride/tetrafluoroethylene) Gate Field-Effect Transistor Memories. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 04DD14	1.4	11
65	Preparation of BiFeO ₃ Thin Films on SrRuO ₃ /SrTiO ₃ (001) Substrate by Dual Ion Beam Sputtering. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 09NB01	1.4	11
64	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	0.2	11
63	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	1.4	10
62	Characteristics improvement of HfO ₂ /Ge gate stack structure by fluorine treatment of germanium surface. <i>Applied Surface Science</i> , 2008 , 254, 6932-6936	6.7	10
61	Fabrication and Characterization of Ferroelectric Gate Field-Effect Transistor Memory Based on Ferroelectric/Insulator Interface Conduction. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 8608-8610	1.4	10
60	Multiferroic properties of polycrystalline Zn-substituted BiFeO ₃ thin films prepared by pulsed laser deposition. <i>Current Applied Physics</i> , 2011 , 11, S270-S273	2.6	9
59	Fabrication and Characterization of Silicon-Polymer Beam Structures for Cantilever-Type Tactile Sensors 2007 ,		9
58	Nondestructive and Contactless Monitoring Technique of Si Surface Stress by Photoreflectance. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 2844-2848	1.4	9
57	Fabrication and Basic Characteristics of Multi-axial Tactile Sensor with 3 Cantilevers. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 223-229	0.2	9
56	Low-temperature B2 ordering and magnetic properties of Fe _{100-x} Rh _x films on bcc alloys. <i>Physical Review B</i> , 2015 , 92,	3.3	8
55	Preparation of BiFe _{0.9} Co _{0.1} O ₃ Films by Pulsed Laser Deposition under Magnetic Field. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 09NB03	1.4	8
54	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	0.2	8
53	Characterization of epitaxial BiFeO ₃ thin films prepared by ion beam sputtering. <i>Current Applied Physics</i> , 2011 , 11, S244-S246	2.6	7
52	Electronic characterization of Si/SiO ₂ structure using photo-CVD SiO ₂ thin film on atomically flat Si substrate. <i>Applied Surface Science</i> , 1998 , 130-132, 214-220	6.7	7

51	Identification of various kinds of papers using multi-axial tactile sensor with micro-cantilevers 2013 ,		6
50	Effect of atomic-arrangement matching on La ₂ O ₃ /Ge heterostructures for epitaxial high-k-gate-stacks. <i>Journal of Applied Physics</i> , 2015 , 118, 225302	2.5	6
49	Influences of perforation ratio in characteristics of capacitive micromachined ultrasonic transducers in air. <i>Sensors and Actuators A: Physical</i> , 2011 , 171, 191-198	3.9	6
48	Leakage Current Reduction and Ferroelectric Property of BiFe _{1-x} CoxO ₃ Thin Films Prepared by Chemical Solution Deposition Using Iterative Rapid Thermal Annealing at Approximately 520 °C. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 095803	1.4	6
47	Crosstalk Reduction of Tactile Sensor Array with Projected Cylindrical Elastomer over Sensing Element. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 06GM08	1.4	6
46	Organic Ferroelectric Field-Effect Transistor Memory Using Flat Poly(vinylidene fluoride)tetrafluoroethylene) and Pentacene Thin Films. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BK06	1.4	6
45	Theoretical analysis of fluorine-passivated germanium surface for high-k/Ge gate stack by molecular orbital method. <i>Applied Surface Science</i> , 2010 , 257, 917-920	6.7	6
44	X-ray diffraction study of polycrystalline BiFeO ₃ thin films under electric field. <i>Applied Physics Letters</i> , 2008 , 93, 042907	3.4	6
43	Fabrication of a Flexible Array for Tactile Sensors with Microcantilevers and the Measurement of the Distribution of Normal and Shear Forces. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 06GM02	1.4	5
42	IMPROVEMENT OF MEMORY RETENTION IN METAL-FERROELECTRIC-INSULATOR-SEMICONDUCTOR STRUCTURE BY SrBi ₂ Ta ₂ O ₉ SURFACE MODIFICATION INDUCED BY NITROGEN AND OXYGEN RADICAL IRRADIATION. <i>Integrated Ferroelectrics</i> , 2006 , 84, 179-188	0.8	5
41	Preparation of fluorocarbon thin film deposited by soft X-ray ablation and its electrical characteristics and thermal stability. <i>Applied Surface Science</i> , 2006 , 252, 7774-7780	6.7	5
40	Photoluminescence and Its Excimer Laser Irradiation Effects in SiO ₂ Film Prepared by Photo-Induced Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 3113-3119	1.4	5
39	Preparation and Characterization of BiFeO ₃ Thin Film Deposited on ITO Substrate by Using Pulsed Laser Deposition. <i>Journal of the Korean Physical Society</i> , 2011 , 59, 2537-2541	0.6	5
38	Preparation of epitaxial BiFeO ₃ thin films on La-SrTiO ₃ substrate by using magnetic-field-assisted pulsed laser deposition. <i>Journal of the Korean Physical Society</i> , 2013 , 62, 1041-1045	0.6	4
37	Synergistic information encoding by combinatorial pulse operation of ferroelectrics. <i>Applied Physics Letters</i> , 2009 , 95, 202905	3.4	4
36	ENHANCEMENT OF MEMORY RETENTION TIME OF MFIS STRUCTURE WITH SBT FERROELECTRIC AND SiO ₂ BUFFER LAYERS TREATED BY NITROGEN RADICAL IRRADIATION. <i>Integrated Ferroelectrics</i> , 2008 , 96, 27-39	0.8	4
35	Review of Texture Measurement of Object Surface by Tactile Sensor with Inclined Micro-cantilevers. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2013 , 133, 147-154	0.2	4
34	Exchange coupling in metallic multilayers with a top FeRh layer. <i>AIP Advances</i> , 2016 , 6, 056115	1.5	4

33	Columnar Growth of BiFeO ₃ Films Prepared by Magnetic-field-assisted Pulsed Laser Deposition. <i>Ferroelectrics</i> , 2014 , 466, 63-73	0.6	3
32	Texture measurement and identification of object surface by MEMS tactile sensor 2014 ,		3
31	Multi-axial tactile sensor with micro-cantilever embedded in hemispherical elastomer for surface texture measurement 2013 ,		3
30	Repetition Rate Dependence of Ferroelectric Properties of Polycrystalline BiFeO ₃ Films Prepared by Pulsed Laser Deposition Method. <i>Ferroelectrics</i> , 2013 , 453, 1-7	0.6	3
29	Mutiferroic Properties of Polycrystalline Sr-Substituted BiFeO ₃ Thin Films Prepared by Pulsed Laser Deposition. <i>Ferroelectrics</i> , 2011 , 416, 119-124	0.6	3
28	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	1.4	3
27	Preparation and characterization of HfO ₂ thin films by photo-assisted MOCVD. <i>European Physical Journal Special Topics</i> , 2006 , 132, 279-283		3
26	First-Principles Study of Tetragonality Ratio and Unit-Cell Volume Influence on Spontaneous Polarization of BaTiO ₃ and PbTiO ₃ . <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2006 , 55, 169-172	0.1	3
25	Contactless Characterization of Fixed Charges in HfO ₂ Thin Film from Photoreflectance. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 2409-2414	1.4	3
24	Molecular orbital analysis of reaction processes of fluorine with H-terminated silicon (111) and (100) surfaces. <i>Journal of Applied Physics</i> , 1999 , 85, 244-248	2.5	3
23	X-ray Diffraction Study of Electric-field-induced Strains in Polycrystalline BiFeO ₃ Thin Films at Low Temperature Using Synchrotron Radiation. <i>Journal of the Korean Physical Society</i> , 2011 , 59, 2556-2559	0.6	3
22	Miniature Ultrasonic and Tactile Sensors for Dexterous Robot. <i>Transactions on Electrical and Electronic Materials</i> , 2012 , 13, 215-220	1.7	3
21	Robust spin-current injection in lateral spin valves with two-terminal Co ₂ FeSi spin injectors. <i>AIP Advances</i> , 2017 , 7, 055808	1.5	2
20	Improvement in the Property of Field Effect Transistor Having the HfO ₂ /Ge Structure Fabricated by Photoassisted Metal Organic Chemical Vapor Deposition with Fluorine Treatment. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DA11	1.4	2
19	Growth of high quality BiFeO ₃ thin films by dual ion beam sputtering 2011 ,		2
18	PREPARATION AND CHARACTERIZATION OF HAFNIUM SILICATE DIELECTRIC LAYERS BY PHOTO-ASSISTED MOCVD USING MIXED PRECURSOR OF Hf(O-t-C ₄ H ₉) ₄ AND Si(O-t-C ₄ H ₉) ₄ . <i>Integrated Ferroelectrics</i> , 2008 , 97, 103-110	0.8	2
17	Microwave Tunable Devices Composed of Coplanar Waveguide Line with (Ba _{0.6} ,Sr _{0.4})TiO ₃ /Au/Cr/(Ba _{0.6} ,Sr _{0.4})TiO ₃ Sandwich Structure. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 7500-7504	1.4	2
16	FERROELECTRIC GATE FET MEMORY BASED ON CONDUCTION OF FERROELECTRIC-INSULATOR INTERFACE. <i>Integrated Ferroelectrics</i> , 2007 , 89, 160-170	0.8	2

15	Microfocusing of soft X-ray undulator light using an elliptically bent cylinder mirror. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001 , 467-468, 287-290	1.2	2
14	Development of a Microscopic Three-Axis Tactile Sensor: Preliminary Examinations to Establish Sensing Algorithm by Using a Simulated Mockup. <i>Lecture Notes in Computer Science</i> , 2008 , 561-566	0.9	2
13	A Trial of Smell Discrimination by SnO ₂ Gas Sensor. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2006 , 55, 165-168	0.1	2
12	A low-temperature fabricated gate-stack structure for Ge-based MOSFET with ferromagnetic epitaxial Heusler-alloy/Ge electrodes. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 063001	1.4	1
11	Current conduction in single-domain BiFeO ₃ thin films. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 08NA01	1.4	1
10	Force intensity and direction measurement in real time using miniature tactile sensor with microcantilevers embedded in PDMS 2013 ,		1
9	Fabrication of tactile sensor array using microcantilever with low-TCR nickel-chromium alloy thin film for slippage detection. <i>Procedia Engineering</i> , 2011 , 25, 627-630		1
8	Heterogeneous Integration of LSI Amplifier and the Tactile Sensor Using Stacking and Through-Si-Via Techniques. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1427, 14		1
7	Passivation of Ge(100) and (111) Surfaces by Termination of Nonmetal Elements. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 04DA06	1.4	1
6	Molecular orbital calculation of surface reaction of SnO ₂ /gas sensors for aminic and carboxylic smells		1
5	Air damping effect on the air-based CMUT operation. <i>Journal of the Korean Physical Society</i> , 2015 , 67, 486-495	0.6	
4	P(VDF-TeFE)/Organic Semiconductor Structure Ferroelectric-Gate FETs. <i>Topics in Applied Physics</i> , 2016 , 187-201	0.5	
3	Structural and Ferroelectric Properties of Large c/a Phase Bismuth Ferrite Thin Films Prepared by Ion Beam Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1292, 3		
2	Characterization of Ferroelectric Thin Film/SiO ₂ /Si Structure by Photoreflectance. <i>Ferroelectrics</i> , 2004 , 303, 119-123	0.6	
1	BURST REACTION OF THIN FILMS EXCITED BY HIGH-FLUX SOFT X-RAYS. <i>Surface Review and Letters</i> , 2002 , 09, 401-405	1.1	