

Takeshi Morita

List of Publications by Year in descending order

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60
papers

1,959
citations

279798

23
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254184

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all docs

60
docs citations

60
times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Speed Control of Ultrasonic Motors Based on Deep Reinforcement Learning of a Lyapunov Function. IEEE Access, 2022, 10, 46895-46910.	4.2	3
2	Dynamic resonant frequency control system of ultrasonic transducer for non-sinusoidal waveform excitation. Sensors and Actuators A: Physical, 2021, 332, 113124.	4.1	3
3	Opposing preloads type ultrasonic linear motor with quadruped stator. Sensors and Actuators A: Physical, 2020, 301, 111764.	4.1	18
4	Rod drive type ultrasonic linear motor with quadruped stator. Japanese Journal of Applied Physics, 2020, 59, SKKD13.	1.5	11
5	Dynamic preload control of traveling wave rotary ultrasonic motors for energy efficient operation. Japanese Journal of Applied Physics, 2019, 58, SGGD04.	1.5	18
6	Stepping piezoelectric actuators with large working stroke for nano-positioning systems: A review. Sensors and Actuators A: Physical, 2019, 292, 39-51.	4.1	173
7	Double-parabolic-reflectors acoustic waveguides for high-power medical ultrasound. Scientific Reports, 2019, 9, 18493.	3.3	10
8	Resonant-type smooth impact drive mechanism actuator using lead-free piezoelectric material. Sensors and Actuators A: Physical, 2018, 274, 179-183.	4.1	38
9	Piezoelectric nonlinear vibration focusing on the second-harmonic vibration mode. Ultrasonics, 2018, 82, 233-238.	3.9	10
10	Dynamic control of the resonant frequency of ultrasonic transducer. Sensors and Actuators A: Physical, 2017, 262, 64-67.	4.1	6
11	Dynamic resonant frequency control of ultrasonic transducer for stabilizing resonant state in wide frequency band. Japanese Journal of Applied Physics, 2017, 56, 07JE08.	1.5	10
12	Optimum reaction conditions for lead zirconate titanate thick film deposition by ultrasound-assisted hydrothermal method. Japanese Journal of Applied Physics, 2016, 55, 07KC05.	1.5	10
13	Simplified determination of nonlinear coefficients in piezoelectric transducers. Japanese Journal of Applied Physics, 2015, 54, 10ND01.	1.5	6
14	Thick KNbO ₃ films deposited by ultrasonic-assisted hydrothermal method. Acoustical Science and Technology, 2015, 36, 262-264.	0.5	1
15	Wireguide driving actuator using resonant-type smooth impact drive mechanism. Sensors and Actuators A: Physical, 2015, 230, 40-44.	4.1	27
16	Nonlinear coefficients in lead-free CuO ₂ (K,Na)NbO ₃ transducers. Japanese Journal of Applied Physics, 2015, 54, 07HC01.	1.5	8
17	Resonance frequency ratio control with an additional inductor for a miniaturized resonant-type SIDM actuator. Sensors and Actuators A: Physical, 2014, 214, 142-148.	4.1	21
18	Domain-orientation-controlled potassium niobate family piezoelectric materials with hydrothermal powders. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1593-1598.	3.0	2

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19	Multi Degrees of Freedom Forceps for Ultrasonically Activated Device using Ultrasonic Motor. <i>Procedia CIRP</i> , 2013, 5, 70-73.	1.9	0
20	Study on optimizing ultrasonic irradiation period for thick polycrystalline PZT film by hydrothermal method. <i>Ultrasonics</i> , 2013, 53, 837-841.	3.9	10
21	Noncontact Operation of a Miniature Cycloid Motor by Magnetic Force. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 1563-1571.	5.8	12
22	Resonant-Type Smooth Impact Drive Mechanism Actuator Operating at Lower Input Voltages. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 07HE05.	1.5	32
23	Polycrystalline PZT film on porous Ti substrate synthesized by Ultrasonic Assisted Hydrothermal Method. , 2012, , .		0
24	Piezoelectric applications of hydrothermal lead-free (K _{0.48} Na _{0.52})NbO ₃ ceramics. , 2012, , .		0
25	Improvement of miniaturized resonant type SIDM actuator. , 2012, , .		1
26	Resonant-Type Smooth Impact Drive Mechanism Actuator with Two Langevin Transducers. <i>Advanced Robotics</i> , 2012, 26, 277-290.	1.8	23
27	A miniaturized resonant-type smooth impact drive mechanism actuator. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 188-192.	4.1	41
28	Resonant-type Smooth Impact Drive Mechanism (SIDM) actuator using a bolt-clamped Langevin transducer. <i>Ultrasonics</i> , 2012, 52, 75-80.	3.9	95
29	Ultrasonic-assisted hydrothermal deposition of ferroelectric PbZrO ₃ thin film on NiTi-based superelastic shape memory alloys. <i>Journal of Electroceramics</i> , 2012, 28, 45-52.	2.0	3
30	Piezoelectric Properties of Li-Doped (K _{0.48} Na _{0.52})NbO ₃ Ceramics Synthesized Using Hydrothermally-Derived KNbO ₃ and NaNbO ₃ Fine Powders. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09MD08.	1.5	1
31	Improved Process for Hydrothermal Lead-Free Piezoelectric Powders and Performances of Sintered (K _{0.48} Na _{0.52})NbO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 07HC01.	1.5	15
32	Improved Process for Hydrothermal Lead-Free Piezoelectric Powders and Performances of Sintered (K _{0.48} Na _{0.52})NbO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 07HC01.	1.5	18
33	(K,Na)NbO ₃ lead-free piezoelectric ceramics synthesized from hydrothermal powders. <i>Materials Letters</i> , 2010, 64, 125-128.	2.6	58
34	Piezoelectric Materials Synthesized by the Hydrothermal Method and Their Applications. <i>Materials</i> , 2010, 3, 5236-5245.	2.9	35
35	Effect of Deposition Time on Film Thickness and Their Properties for Hydrothermally-Grown Epitaxial KNbO ₃ Thick Films. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 07HF01.	1.5	9
36	Shape Memory Piezoelectric Actuator and Various Memories in Ferroelectric Materials. , 2010, , 141-152.		0

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37	Characterization of Shape Memory Piezoelectric Actuator and Investigation of the Origin of the Imprint Electrical Field. , 2010, , 195-200.		1
38	Ultrasonically assisted hydrothermal synthesis of polycrystalline PZT thin film on titanium substrate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 9-13.	3.0	12
39	Utilization of Permittivity Memory Effect for Position Detection of Shape Memory Piezoelectric Actuator. Japanese Journal of Applied Physics, 2008, 47, 217-219.	1.5	13
40	Synthesis of Nondoped Potassium Niobate Ceramics by Ultrasonic Assisted Hydrothermal Method. Japanese Journal of Applied Physics, 2008, 47, 7673-7677.	1.5	30
41	Nondoped Potassium Niobate Ceramics Synthesized by Hydrothermal Method with Optimum Temperature Condition. Japanese Journal of Applied Physics, 2008, 47, 3824-3828.	1.5	26
42	Shape memory piezoelectric actuator. Applied Physics Letters, 2007, 90, 082909.	3.3	31
43	A micro ultrasonic motor using a micro-machined cylindrical bulk PZT transducer. Sensors and Actuators A: Physical, 2006, 127, 131-138.	4.1	126
44	Piezoelectric property of an epitaxial lead titanate thin film deposited by the hydrothermal method. Applied Physics Letters, 2006, 88, 112908.	3.3	29
45	A hydrothermally deposited epitaxial lead titanate thin film on strontium ruthenium oxide bottom electrode. Applied Physics Letters, 2004, 85, 2331-2333.	3.3	45
46	Ferroelectric property of an epitaxial lead zirconate titanate thin film deposited by a hydrothermal method. Journal of Materials Research, 2004, 19, 1862-1868.	2.6	32
47	Perfectly c-axis oriented epitaxial lead titanate thin film deposited by a hydrothermal method for a data storage medium. Materials Research Society Symposia Proceedings, 2004, 830, 171.	0.1	0
48	A Hydrothermally Deposited Epitaxial PbTiO ₃ Thin Film on SrRuO ₃ Bottom Electrode for the Ferroelectric Ultra-High Density Storage Medium. Integrated Ferroelectrics, 2004, 64, 247-257.	0.7	7
49	Ferroelectric properties of an epitaxial lead zirconate titanate thin film deposited by a hydrothermal method below the Curie temperature. Applied Physics Letters, 2004, 84, 5094-5096.	3.3	52
50	Rotational feedthrough using an ultrasonic motor and its performance in ultra high vacuum conditions. Vacuum, 2003, 70, 53-57.	3.5	24
51	Miniature piezoelectric motors. Sensors and Actuators A: Physical, 2003, 103, 291-300.	4.1	280
52	Ferroelectric property of an epitaxial lead zirconate titanate thin film deposited by a hydrothermal method. Materials Research Society Symposia Proceedings, 2003, 784, 11311.	0.1	0
53	Rotational feedthrough using ultrasonic motor for high vacuum condition. Vacuum, 2002, 65, 85-90.	3.5	19
54	Three DOF parallel link mechanism utilizing smooth impact drive mechanism. Precision Engineering, 2002, 26, 289-295.	3.4	56

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55	Estimation of Resolution and Contact Force of a Longitudinally Vibrating Touch Probe Sensor Using Lead Zirconate Titanate (PZT) Thin-Film Vibrator. Japanese Journal of Applied Physics, 2001, 40, 3646-3651.	1.5	9
56	A cylindrical micro-ultrasonic motor (stator transducer size: 1.4 mm in diameter and 5.0 mm long). Ultrasonics, 2000, 38, 33-36.	3.9	47
57	A cylindrical shaped micro ultrasonic motor utilizing PZT thin film (1.4 mm in diameter and 5.0 mm) Tj ETQq1 1 0.784314 rgBT /Overlaid	4.1	125
58	Cylindrical Micro Ultrasonic Motor Utilizing Bulk Lead Zirconate Titanate (PZT). Japanese Journal of Applied Physics, 1999, 38, 3347-3350.	1.5	76
59	Single Process to Deposit Lead Zirconate Titanate (PZT) Thin Film by a Hydrothermal Method. Japanese Journal of Applied Physics, 1997, 36, 2998-2999.	1.5	95
60	An ultrasonic micromotor using a bending cylindrical transducer based on PZT thin film. Sensors and Actuators A: Physical, 1995, 50, 75-80.	4.1	96