

Michio Kadota

List of Publications by Year in descending order

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papers

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citations

304743

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80
all docs

80
docs citations

80
times ranked

463
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Substrate Structures and Processes for Practical Applications of Various Surface Acoustic Wave Devices. Japanese Journal of Applied Physics, 2005, 44, 4285-4291.	1.5	105
2	Small Surface Acoustic Wave Duplexer for Wide-Band Code-Division Multiple Access Full-Band System Having Good Temperature Characteristics. Japanese Journal of Applied Physics, 2007, 46, 4714.	1.5	98
3	Smaller Surface Acoustic Wave Duplexer for US Personal Communication Service Having Good Temperature Characteristics. Japanese Journal of Applied Physics, 2007, 46, 4760.	1.5	90
4	High-frequency lamb wave device composed of MEMS structure using LiNbO ₃ thin film and air gap. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2564-2571.	3.0	90
5	Surface Acoustic Wave Duplexer for US Personal Communication Services with Good Temperature Characteristics. Japanese Journal of Applied Physics, 2005, 44, 4527-4531.	1.5	88
6	Wideband acoustic wave resonators composed of hetero acoustic layer structure. Japanese Journal of Applied Physics, 2018, 57, 07LD12.	1.5	80
7	Surface Acoustic Wave Characteristics of a ZnO/Quartz Substrate Structure Having a Large Electromechanical Coupling Factor and a Small Temperature Coefficient. Japanese Journal of Applied Physics, 1997, 36, 3076-3080.	1.5	64
8	5.4 GHz Lamb Wave Resonator on LiNbO ₃ Thin Crystal Plate and Its Application. Japanese Journal of Applied Physics, 2011, 50, 07HD11.	1.5	53
9	Ultra-wideband and high frequency resonators using shear horizontal type plate wave in LiNbO ₃ thin plate. Japanese Journal of Applied Physics, 2014, 53, 07KD03.	1.5	48
10	Surface Acoustic Wave Resonators With Hetero Acoustic Layer (HAL) Structure Using Lithium Tantalate and Quartz. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1955-1964.	3.0	45
11	High-Frequency Lamb Wave Device Composed of LiNbO ₃ Thin Film. Japanese Journal of Applied Physics, 2009, 48, 07GG08.	1.5	40
12	Properties of Leaky, Leaky Pseudo, and Rayleigh Surface Acoustic Waves on Various Rotated Y-cut Langasite Crystal Substrates. Japanese Journal of Applied Physics, 1999, 38, 3288-3292.	1.5	38
13	Piezoelectric Properties of ZnO Films on a Sapphire Substrate Deposited by an RF-Magnetron-Mode ECR Sputtering System. Japanese Journal of Applied Physics, 1998, 37, 2923-2926.	1.5	35
14	Characteristics of Zinc Oxide Films on Glass Substrates Deposited by RF-Mode Electron Cyclotron Resonance Sputtering System. Japanese Journal of Applied Physics, 1993, 32, 2341-2345.	1.5	33
15	Very Small-Sized Resonator Filter Using Shear Horizontal Wave on Quartz. Japanese Journal of Applied Physics, 2001, 40, 3718-3721.	1.5	33
16	Tunable filters using wideband elastic resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2129-2136.	3.0	33
17	High-Frequency Resonator Using A ₁ Lamb Wave Mode in LiTaO ₃ Plate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1529-1535.	3.0	33
18	5.4 GHz Lamb Wave Resonator on LiNbO ₃ Thin Crystal Plate and Its Application. Japanese Journal of Applied Physics, 2011, 50, 07HD11.	1.5	33

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19	Shear Bulk Wave Transducer Made of (11 $\bar{2}$ 0)-Plane Epitaxial ZnO Film on R-Sapphire. Japanese Journal of Applied Physics, 2002, 41, 3281-3284.	1.5	32
20	Piezoelectric Characteristics of ZnO Films Deposited Using an Electron Cyclotron Resonance Sputtering System. Japanese Journal of Applied Physics, 1992, 31, 3013-3016.	1.5	29
21	Ultra-wideband ladder filter using SH $\bar{3}$ plate wave in thin LiNbO $\bar{3}$ plate and its application to tunable filter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 939-946.	3.0	28
22	Improved quality factor of Hetero Acoustic Layer (HAL) SAW resonator combining LiTaO $\bar{3}$ thin plate and quartz substrate. , 2017, , .		27
23	High frequency thickness expansion mode bulk acoustic wave resonator using LN single crystal thin plate. Japanese Journal of Applied Physics, 2020, 59, 036506.	1.5	26
24	Spurious-Free, Near-Zero-TCF Hetero Acoustic Layer (HAL)SAW Resonators Using LiTaO $\bar{3}$ Thin Plate on Quartz. , 2018, , .		25
25	A spurious-free, steep band rejection filter using a LiTaO $\bar{3}$ /quartz heteroacoustic layer surface acoustic wave resonator. Japanese Journal of Applied Physics, 2020, 59, SKKC11.	1.5	24
26	Determination of the Polarities of ZnO Thin Films on Polar and Nonpolar Substrates Using Scanning Nonlinear Dielectric Microscopy. Japanese Journal of Applied Physics, 2000, 39, 3121-3124.	1.5	21
27	Moving Tunable Filters Forward: A "Heterointegration" Research Project for Tunable Filters Combining MEMS and RF SAW/BAW Technologies. IEEE Microwave Magazine, 2015, 16, 89-97.	0.8	20
28	SiO $\bar{2}$ /Grooved Al Electrode/LiTaO $\bar{3}$ and Edge-Reflection Surface Acoustic Wave Structures Having Large Reflection Coefficient, Large Coupling Factor, and Excellent Temperature Characteristic Even If Al Electrodes Are Used. Japanese Journal of Applied Physics, 2006, 45, 4647-4650.	1.5	19
29	SAW substrate for Duplexer with Excellent Temperature Characteristics and Large Reflection Coefficient realized by using Flattened SiO $\bar{2}$ Film and Thick Heavy Metal Film. , 2006, , .		18
30	Transversely Coupled Resonator Filters Utilizing Reflection of Bleustein-Gulyaev-Shimizu Wave at Free Edges of Substrate. Japanese Journal of Applied Physics, 2000, 39, 3045-3048.	1.5	17
31	Small and Low-Loss Intermediate Frequency Surface Acoustic Wave Filters Using Zinc Oxide Film on Quartz Substrate. Japanese Journal of Applied Physics, 2003, 42, 3139-3142.	1.5	17
32	Small and low-loss IF SAW filters using zinc oxide film on quartz substrate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 464-469.	3.0	17
33	High-Frequency Edge Reflection Type Resonators with Excellent Temperature Characteristics. Japanese Journal of Applied Physics, 2007, 46, 4749.	1.5	16
34	Ultra Wide Band SAW Resonator Composed of Grooved Cu Electrodes and its Application to Tunable Filters. IEJ Transactions on Electronics, Information and Systems, 2011, 131, 1108-1114.	0.2	16
35	Ceramic Resonators Using BGS Waves. Japanese Journal of Applied Physics, 1992, 31, 219.	1.5	15
36	Surface Acoustic Wave Duplexer Composed of SiO $\bar{2}$ /Cu Electrode/LiNbO $\bar{3}$ Structure Having Convex and Concave Portions. Japanese Journal of Applied Physics, 2009, 48, 07GG02.	1.5	15

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37	A solidly mounted, high frequency, thickness shear mode bulk acoustic wave resonator using X-LiTaO ₃ thin plate and SiO ₂ /Ta multilayer acoustic films. Japanese Journal of Applied Physics, 2021, 60, SDDC11.	1.5	15
38	Longitudinally Coupled Resonator Filter Using Edge Reflection of Bleustein-Gulyaev-Shimizu and Shear Horizontal Waves with Various Bandwidths Realized by Selecting Substrates. Japanese Journal of Applied Physics, 2001, 40, 3722-3725.	1.5	14
39	Band-Pass-Type Tunable Filter Using Surface Acoustic Wave Resonator Composed of Grooved Cu Electrodes on LiNbO ₃ . Japanese Journal of Applied Physics, 2012, 51, 07GC14.	1.5	13
40	The Polishing Effect of ZnO Thin Films on SAW Filters. Japanese Journal of Applied Physics, 1990, 29, 159.	1.5	12
41	Acoustooptic Device Applied to Strain Sensing System with Compensated Temperature Characteristics. Japanese Journal of Applied Physics, 2008, 47, 3988-3991.	1.5	12
42	Improved quality factor of hetero acoustic layer (HAL) SAW resonator combining LiTaO ₃ thin plate and quartz substrate. , 2017, , .		12
43	Solidly mounted resonator using shear horizontal mode plate wave in LiNbO ₃ plate. , 2016, , .		11
44	Surface Acoustic Wave Characteristics on ZnO/mbYZ $\hat{\wedge}$ LiNbO ₃ Structure and Their Application to Elastic Convolver. Japanese Journal of Applied Physics, 1995, 34, 2698-2701.	1.5	10
45	Application of Acoustooptic Tunable Filter to Strain- or Vibration-Sensing System. Japanese Journal of Applied Physics, 2007, 46, 4633-4635.	1.5	10
46	Growth of <100> Epitaxial ZnO Film onY-Plane LiNbO ₃ Substrate. Japanese Journal of Applied Physics, 2008, 47, 4104-4107.	1.5	10
47	Properties of LiNbO ₃ Thin Film Deposited by Chemical Vapor Deposition and Frequency Characteristics of Film Bulk Acoustic Wave Resonator. Japanese Journal of Applied Physics, 2011, 50, 07HD10.	1.5	10
48	3.4 GHz strip-type thickness shear mode solidly-mounted bulk acoustic wave resonator using X-cut LiTaO ₃ . Japanese Journal of Applied Physics, 2022, 61, SG1041.	1.5	10
49	Radio Frequency Surface Acoustic Wave Filter Having Narrow Bandwidth and Excellent Temperature Characteristic. Japanese Journal of Applied Physics, 2008, 47, 4101-4103.	1.5	9
50	High-Frequency Surface Acoustic Wave Resonator Filter Composed of ZnO/High-Density Electrode/Quartz Structure. Japanese Journal of Applied Physics, 2009, 48, 07GG03.	1.5	9
51	Improvement of Shape Factor and Loss of Surface Acoustic Wave Resonator Filter Composed of SiO ₂ /High-Density-Electrode/LiTaO ₃ . Japanese Journal of Applied Physics, 2009, 48, 07GG05.	1.5	8
52	Solidly mounted ladder filter using shear horizontal wave in LiNbO ₃ . , 2016, , .		8
53	HAL SAW resonators using LiTaO ₃ thin plate on quartz substrate. , 2017, , .		8
54	Frequency Trimming of ZnO/Glass SAW Filters. Japanese Journal of Applied Physics, 1991, 30, 179.	1.5	8

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55	High Frequency Solidly Mounted Resonator Using LN Single Crystal Thin Plate. , 2020, , .		8
56	Tunable rejection filters with ultra-wideband using zeroth shear mode plate wave resonators. Japanese Journal of Applied Physics, 2017, 56, 07JD01.	1.5	7
57	Capability of LiTaO ₃ /Quartz HAL SAW Resonators Confirmed by Simulation and Measurement. , 2019, , .		7
58	High Frequency Strip-Type Solidly-Mounted Shear Mode Bulk Wave Resonator Using X-LT. , 2020, , .		6
59	Low Loss Intermediate-Frequency Resonator Filter Using Shear Horizontal Type Leaky Surface Acoustic Wave on Γ -Phase Heavy Metal Film/Quartz. Japanese Journal of Applied Physics, 2004, 43, 3047-3049.	1.5	5
60	Evaluation of Glass Substrates for SAW Filters by Acoustic Microscopy Technique. IEEJ Transactions on Electronics, Information and Systems, 1991, 111, 412-418.	0.2	5
61	Wideband ladder filters fully covering digital TV band based on shear horizontal plate wave. , 2015, , .		3
62	Influences and Reduction of the Stress caused at Edges of ZnO Film on the Glass Substrate for SAW Device. IEEJ Transactions on Electronics, Information and Systems, 1993, 113, 85-90.	0.2	3
63	2~8 GHz Range High Harmonic SAW Resonator with Grooved Electrodes in LiNbO ₃ . , 2021, , .		3
64	SH1 Mode Plate Wave Resonator on LiTaO ₃ Thin Plate with Phase Velocity over 13,000 m/s. , 2021, , .		3
65	Low Velocity HAL SAW Resonator Using LiNbO ₃ Thin Plate on Quartz Substrate. , 2021, , .		3
66	Ultrawide band ladder filter using SH ₀ plate wave in thin LiNbO ₃ plate and its application. , 2014, , .		2
67	First shear horizontal mode plate wave in LiNbO ₃ showing 20 km/s phase velocity. , 2015, , .		2
68	Improvement of Characteristics of Leaky Surface Acoustic Wave on LiTaO ₃ . IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1115-1119.	0.2	2
69	Quartz Crystal Microbalance (QCM) Sensor for NH ₃ Gas with the Compensation of the Humidity Drift. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 184-189.	0.1	2
70	Evaluation of Piezoelectric Ceramic Substrates for Ultrasonic Bulk Wave Filters and Resonators Using Pulse Interference Method. Japanese Journal of Applied Physics, 1994, 33, 3212-3216.	1.5	1
71	A Bleustein-Gulyaev-Shimizu Wave Resonator with 2 or 3 Resonances for Double Traps in TV and VCR (VTR). Japanese Journal of Applied Physics, 1996, 35, 3020-3023.	1.5	1
72	High velocity lamb waves in LiTaO ₃ thin plate for high frequency filters. , 2016, , .		1

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73	Investigation of Material Constants of CaTiO ₃ Doped (K,Na)NbO ₃ Film by MEMS-Based Test Elements. Micromachines, 2018, 9, 558.	2.9	1
74	Characteristic of LiTaO ₃ Film Growth by Chemical Vapor Deposition. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1188-1189.	0.2	1
75	Control of Nonlinear Piezoelectricity and Its Application to Efficiency Improvement of Surface Acoustic Wave Elastic Convolver. Japanese Journal of Applied Physics, 1994, 33, 3031-3034.	1.5	0
76	Properties of zinc oxide films deposited by a radio-frequency magnetron mode electron cyclotron resonance sputtering system. Electronics and Communications in Japan, 1996, 79, 61-68.	0.2	0
77	Lamb wave resonators and resonator filters in periodical poled Z-cut LiTaO ₃ plate. , 2016, , .		0
78	Plasma half dicing based on micro-loading effect for ultra-thin LiNbO ₃ plate wave devices on Si substrate. , 2016, , .		0
79	Eight Channels of Passive Wireless SAW Temperature Sensors for Specific Low Power Wireless Station. IEEJ Transactions on Sensors and Micromachines, 2021, 141, 90-95.	0.1	0
80	Passive Wireless SAW Temperature Sensor System Specified Low-Power Radio Stations. IEEJ Transactions on Sensors and Micromachines, 2019, 139, 103-108.	0.1	0