

Andrey A Teplykh

List of Publications by Year in descending order

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48
papers

222
citations

1163117

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1058476

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g-index

48
all docs

48
docs citations

48
times ranked

104
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid sensor based on a piezoelectric lateral electric field-excited resonator. Ultrasonics, 2015, 63, 179-183.	3.9	37
2	Effect of a liquid on the characteristics of antisymmetric lamb waves in thin piezoelectric plates. Acoustical Physics, 2007, 53, 557-563.	1.0	19
3	The study of piezoelectric lateral-electric-field-excited resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 166-172.	3.0	18
4	Characteristics of fundamental acoustic wave modes in thin piezoelectric plates. Ultrasonics, 2006, 44, e787-e791.	3.9	15
5	Hybridization of acoustic waves in piezoelectric plates. Acoustical Physics, 2007, 53, 64-69.	1.0	15
6	The power flow angle of acoustic waves in thin piezoelectric plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1984-1991.	3.0	15
7	Correspondence - Acoustic waves in a structure containing two piezoelectric plates separated by an air (vacuum) gap. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2677-2681.	3.0	15
8	The peculiarities of propagation of the backward acoustic waves in piezoelectric plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1660-1664.	3.0	10
9	Array of piezoelectric lateral electric field excited resonators. Ultrasonics, 2015, 62, 200-202.	3.9	6
10	The study of the mechanical properties of thin films using piezoceramic acoustic resonators. ITM Web of Conferences, 2019, 30, 07002.	0.5	6
11	Acoustical Slot Mode Sensor for the Rapid Coronaviruses Detection. Sensors, 2021, 21, 1822.	3.8	6
12	Evaluation of Elastic Properties and Conductivity of Chitosan Acetate Films in Ammonia and Water Vapors Using Acoustic Resonators. Sensors, 2020, 20, 2236.	3.8	5
13	The Radial Electric Field Excited Circular Disk Piezoceramic Acoustic Resonator and Its Properties. Sensors, 2021, 21, 608.	3.8	5
14	Composite lateral electric field excited piezoelectric resonator. Ultrasonics, 2017, 73, 125-129.	3.9	4
15	Sensor Based on PZT Ceramic Resonator with Lateral Electric Field for Immunodetection of Bacteria in the Conducting Aquatic Environment. Sensors, 2020, 20, 3003.	3.8	4
16	A new liquid sensor based on a piezoelectric resonator with a radial electric field. Ultrasonics, 2022, 119, 106603.	3.9	4
17	Anomalous resisto-acoustic effect for leaky surface acoustic waves. Journal of Applied Physics, 2005, 97, 046102.	2.5	3
18	The peculiarities of energy characteristics of acoustic waves in piezoelectric materials and structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 605-611.	3.0	3

#	ARTICLE	IF	CITATIONS
19	Noncontact determination of thin films conductance by SH0 plate acoustic waves. Journal of Applied Physics, 2014, 115, 044504.	2.5	3
20	Lateral electric field excited resonator based on PZT ceramics. , 2015, , .		3
21	Gas Sensor Based on the Piezoelectric Resonator with Lateral Electric Field and Films of Chitosan Salts. , 2019, , .		3
22	The Experimental Registration of the Evanescent Acoustic Wave in YX LiNbO3 Plate. Sensors, 2021, 21, 2238.	3.8	3
23	Microbial Acoustical Analyzer for Antibiotic Indication. Sensors, 2022, 22, 2937.	3.8	3
24	Hybridization of acoustic waves in piezoelectric plates. Technical Physics Letters, 2003, 29, 781-783.	0.7	2
25	Effect of metallization on the power flow angle of SH0 waves in thin piezoelectric plates. Technical Physics Letters, 2006, 32, 1033-1035.	0.7	2
26	The plate acoustic wave sensor for detection of bacterial cells in liquid phase. , 2015, , .		2
27	A composite piezoelectric resonator with a lateral electric field. Technical Physics Letters, 2015, 41, 1030-1033.	0.7	2
28	6C-4 Theoretical and Experimental Investigation of the Influence of Electrical Shorting of the Surface on PFA of SH0 Wave in Thin Piezoelectric Plates. , 2006, , .		1
29	A new approach to definition of the energy density of plane acoustic waves. Doklady Physics, 2007, 52, 10-12.	0.7	1
30	Plate acoustic waves for low frequency delay line delaying signals up to 0.5 ms. Physics Procedia, 2010, 3, 533-539.	1.2	1
31	Acoustic waves of zero order in piezoelectric cylinders and tubes bordered with non-conducting viscous liquid. , 2012, , .		1
32	Hydroacoustical emitter based on zero-order antisymmetric Lamb wave in a piezoelectric plate. Journal of Applied Physics, 2012, 112, .	2.5	1
33	The effect of nanocomposite polymeric layer on the radiation of antisymmetric zero-order Lamb wave in a piezoelectric plate contacting with liquid. Journal of Applied Physics, 2013, 113, 224507.	2.5	1
34	Features of propagation and conversion of acoustic waves in plates with nonuniform thickness. Journal of Communications Technology and Electronics, 2015, 60, 1338-1340.	0.5	1
35	The Biological Sensor for Detection of Bacterial Cells in Liquid Phase Based on Plate Acoustic Wave. Physics Procedia, 2015, 70, 1157-1160.	1.2	1
36	Determination of the Acoustic Properties of a Phenolic Resin Film Using a Radial Electric Field Excited Piezoceramic Resonator. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
37	4G-6 Energy Characteristics of Acoustic Waves in Piezoelectric Materials and Structures. , 2006, , .		0
38	Diffraction divergence of SH0 wave in thin piezoelectric plate of lithium niobate. , 2008, , .		0
39	High frequency shear horizontal plate acoustic wave devices. Ultrasonics, 2009, 49, 760-764.	3.9	0
40	Acoustic waves in two piezoelectric plates separated by a vacuum gap. , 2012, , .		0
41	The acoustic method of the noncontact determination of thin films conductivity. , 2013, , .		0
42	Compressional acoustic waves in structure “Piezocylinder - viscoelastic layer - liquid”. , 2013, , .		0
43	Composite lateral electric field excited piezoelectric resonator. , 2015, , .		0
44	Numerical Model of Lateral Electric Field Excited Resonator on Piezoelectric Plate Bordered with Viscous and Conductive Liquid. Physics Procedia, 2015, 70, 227-230.	1.2	0
45	Notice of Removal: The influence of surface conductivity of thin layer near the free side of piezoelectric resonator with lateral electric field on its characteristics. , 2017, , .		0
46	Notice of Removal: The influence of viscous and conducting liquids on slot wave in the device based on delay line with shear - Horizontal acoustic wave of zero order. , 2017, , .		0
47	Acoustic sensor for detection and identification of microbial cells directly in the liquid phase. , 2019, , .		0
48	The influence of metal film, placed near a piezoelectric lateral electric field resonator on its characteristics. , 2019, , .		0