

Ruy Alberto Pisani Altafim

List of Publications by Year in descending order

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40
papers

545
citations

840776

11
h-index

794594

19
g-index

40
all docs

40
docs citations

40
times ranked

301
citing authors

#	ARTICLE	IF	CITATIONS
1	Template-based fluoroethylenepropylene piezoelectrets with tubular channels for transducer applications. Journal of Applied Physics, 2009, 106, .	2.5	141
2	Piezoelectrets from thermo-formed bubble structures of fluoropolymer-electret films. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 979-985.	2.9	80
3	Influence of the solvent evaporation rate on the crystalline phases of solution-cast poly(vinylidene fluoride)/polyethylene glycol. Journal of Applied Physics, 2009, 106, 044103.	2.6	52
4	Treatment with orthophosphoric acid enhances the thermal stability of the piezoelectricity in low-density polyethylene ferroelectrets. Journal of Applied Physics, 2012, 111, .	2.5	33
5	Laminated tubular-channel ferroelectret systems from low-density polyethylene films and from fluoroethylene-propylene copolymer films - A comparison. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1116-1123.	2.9	25
6	Piezoelectrets from thermo-formed bubble structures of fluoropolymer-electret films. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 979-985.	2.9	24
7	Piezoelectricity in multi-air voids electrets. , 0, , .		20
8	Fluoropolymer piezoelectrets with tubular channels: resonance behavior controlled by channel geometry. Applied Physics A: Materials Science and Processing, 2012, 107, 965-970.	2.3	18
9	Piezoelectrets with well-defined cavities produced from 3D-printed acrylonitrile butadiene styrene structures. Electronics Letters, 2015, 51, 2028-2030.	1.0	14
10	Hydrophone based on 3D printed polypropylene (PP) piezoelectret. Electronics Letters, 2019, 55, 203-204.	1.0	14
11	Piezoelectret-based hydrophone: an alternative device for vibro-acoustography. Measurement Science and Technology, 2015, 26, 095102.	2.6	12
12	Piezoelectrets: A Brief Introduction. IEEE Sensors Journal, 2021, 21, 22317-22328.	4.7	12
13	Unipolar ferroelectrets - Following the example of the electret microphone more closely. , 2014, , .		10
14	Space charge deposition in tubular channel ferroelectrets: A combined fluorescence imaging/LIMM study with finite element analysis. Journal of Applied Physics, 2017, 121, 244103.	2.5	9
15	Three-layer ferroelectrets from perforated Teflon®-PTFE films fused between two homogeneous Teflon®-FEP films. , 2007, , .		8
16	Wood cross-arms coated with polyurethane resin - tests and numerical simulations. Materials Research, 2006, 9, 77-81.	1.3	6
17	Template-based fluoroethylenepropylene ferroelectrets with enhanced thermal stability of piezoelectricity. Journal of Applied Physics, 2018, 124, .	2.5	6
18	Low-cost electro-acoustic system based on ferroelectret transducer for characterizing liquids. Measurement: Journal of the International Measurement Confederation, 2019, 131, 42-49.	5.0	6

#	ARTICLE	IF	CITATIONS
19	Piezoelectric sensor based on electret thermoforming technology. , 2010, , .		5
20	Template-based fluoropolymer ferroelectrets with multiple layers of tubular channels. , 2010, , .		5
21	Study of timber crossarms coated with castor oil-based polyurethane resins: electrical and mechanical tests. , 0, , .		4
22	Piezoelectret sensors detect geometry-related modifications of the acoustical signatures from partial discharges in an electrical equipment chamber. , 2012, , .		4
23	Ferroelectret-based Hydrophone Employed in Oil Identificationâ€”A Machine Learning Approach. Sensors, 2020, 20, 2979.	3.8	4
24	Piezoelectric-magnetic behavior of ferroelectrets coated with magnetic layer. Applied Physics Letters, 2021, 119, .	3.3	4
25	Well-defined piezoelectrets fabricated with 3D printing technology. , 2016, , .		3
26	Low-cost lightning current peak detector for installation on communication towers. , 2016, , .		3
27	One-port nonlinear electric circuit for simulating grounding systems under impulse current. Electric Power Systems Research, 2016, 130, 259-265.	3.6	3
28	Investigation of Water Content in Power Transformer Oils through Ultrasonic Measurements. , 2018, , .		3
29	Discharge patterns in three-layer ferroelectret systems with perforated polymer films. , 2008, , .		2
30	Multi-layers fluoroethylenepropylene (FEP) films bounded with adhesive tape to create piezoelectrets with controlled cavities. , 2011, , .		2
31	Different piezoelectric structures applied to acoustic detection of impulse and corona partial discharges. , 2013, , .		2
32	Laminated composite based on polyester geotextile fibers and polyurethane resin for coating wood structures. Materials Research, 2013, 16, 1140-1147.	1.3	2
33	Comparative analysis between impulsive detection methods applied on partial discharge acoustic signals. , 2014, , .		2
34	Unipolar TeflonÂ®-FEP ferroelectrets - choice of negative electret charge enhances stability. , 2015, , .		2
35	Dielectric resonance spectroscopy of piezoelectrets with tubular channels: Channel dimensions control resonances. , 2010, , .		1
36	Fluoroethylenepropylene ferroelectrets with superimposed multi-layer tubular void channels. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
37	A comparison of polymer piezoelectrets with open and closed tubular channels: Pressure dependence, resonance frequency, and behavior under humidity. , 2011, , .		1
38	Images from high-voltage impulse discharges evaluated with a developed graphical software. , 2014, , .		1
39	Thermo-formed piezoelectrets with open-tubular channels produced from water-filled FEP pads. , 2015, , .		1
40	An accelerometer based on thermoformed piezoelectrets with open-tubular channels. , 2020, , .		0