

Petr Sedlář

List of Publications by Year in descending order

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papers

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567281

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all docs

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docs citations

43
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpretation of field emission current–voltage data: Background theory and detailed simulation testing of a user-friendly webtool. <i>Materials Today Communications</i> , 2022, 31, 103654.	1.9	8
2	Case Study of Polyvinylidene Fluoride Doping by Carbon Nanotubes. <i>Materials</i> , 2021, 14, 1428.	2.9	50
3	PVDF Fibers Modification by Nitrate Salts Doping. <i>Polymers</i> , 2021, 13, 2439.	4.5	27
4	Surface Analyses of PVDF/NMP/[EMIM][TFSI] Solid Polymer Electrolyte. <i>Polymers</i> , 2021, 13, 2678.	4.5	17
5	An Electrochemical Amperometric Ethylene Sensor with Solid Polymer Electrolyte Based on Ionic Liquid. <i>Sensors</i> , 2021, 21, 711.	3.8	14
6	Structure Tuning and Electrical Properties of Mixed PVDF and Nylon Nanofibers. <i>Materials</i> , 2021, 14, 6096.	2.9	14
7	Preparation of Nitrogen Dioxide Sensor Utilizing Aerosol Jet Printing Technology. , 2020, , .		0
8	Effect of the different crystallinity of ionic liquid based solid polymer electrolyte on the performance of amperometric gas sensor. , 2020, , .		0
9	The effect of thermal treatment on ac/dc conductivity and current fluctuations of PVDF/NMP/[EMIM][TFSI] solid polymer electrolyte. <i>Scientific Reports</i> , 2020, 10, 21140.	3.3	16
10	Aluminum Nitride Nanofilms by Atomic Layer Deposition Using Alternative Precursors Hydrazinium Chloride and Triisobutylaluminum. <i>Coatings</i> , 2020, 10, 954.	2.6	15
11	The Effect of the Orientation Towards Analyte Flow on Electrochemical Sensor Performance and Current Fluctuations. <i>Sensors</i> , 2020, 20, 1038.	3.8	13
12	Performance analysis of GaAs based solar cells under gamma irradiation. <i>Applied Surface Science</i> , 2020, 510, 145329.	6.1	29
13	Analysis of color shift on butterfly wings by Fourier transform of images from atomic force microscopy. <i>Microscopy Research and Technique</i> , 2019, 82, 2007-2013.	2.2	6
14	Effect of various flow rate on current fluctuations of amperometric gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 321-328.	7.8	17
15	Investigation of structure of AlN thin films using Fourier-transform infrared spectroscopy. <i>Procedia Structural Integrity</i> , 2019, 23, 601-606.	0.8	6
16	A Simple Analytical Model of Capacity Fading for Lithium–Sulfur Cells. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 5779-5786.	7.9	8
17	Efficient Processing of Data Acquired Using Microscopy Techniques. , 2018, , .		1
18	Low frequency noise of electrochemical power sources. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Current Fluctuation Measurements of Amperometric Gas Sensors Constructed with Three Different Technology Procedures. Metrology and Measurement Systems, 2016, 23, 531-543.	1.4	8
20	Supercapacitor Degradation Assessment by Power Cycling and Calendar Life Tests. Metrology and Measurement Systems, 2016, 23, 345-358.	1.4	25
21	Voltage Dependence of Supercapacitor Capacitance. Metrology and Measurement Systems, 2016, 23, 403-411.	1.4	28
22	Investigation of adsorption-desorption phenomenon by using current fluctuations of amperometric NO ₂ gas sensor. , 2015, , .		0
23	SEM and AFM imaging of solar cells defects. Proceedings of SPIE, 2015, , .	0.8	0
24	Noise in piezoresistive pressure sensors. , 2015, , .		3
25	Quantitative fluctuation-enhanced sensing in amperometric NO ₂ sensors. Chemical Physics, 2015, 456, 111-117.	1.9	15
26	Analytical fluctuation enhanced sensing by resistive gas sensors. Sensors and Actuators B: Chemical, 2015, 213, 390-396.	7.8	17
27	Supercapacitor equivalent electrical circuit model based on charges redistribution by diffusion. Journal of Power Sources, 2015, 286, 58-65.	7.8	113
28	Analysis of Acoustic Emission Signals during Tensile Deformation of Fe-Si Steels with Various Silicon Contents. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3623-3634.	2.2	7
29	Acoustic emission localization in thin multi-layer plates using first-arrival determination. Mechanical Systems and Signal Processing, 2013, 36, 636-649.	8.0	84
30	Estimation of the long-term stability of piezoresistive LTCC pressure sensors by means of low-frequency noise measurements. Sensors and Actuators A: Physical, 2013, 199, 334-343.	4.1	18
31	Noise in amperometric NO ₂ sensor. , 2013, , .		2
32	Analysis of Noise and Non-Linearity of I-V Characteristics of Positive Temperature Coefficient Chip Thermistors. Metrology and Measurement Systems, 2013, 20, 635-644.	1.4	1
33	Adsorption-desorption noise in QCM gas sensors. Sensors and Actuators B: Chemical, 2012, 166-167, 264-268.	7.8	19
34	Noise in quartz crystal microbalance. , 2011, , .		1
35	Comparison of effectiveness of gas sensing by low frequency fluctuations in resistance and microbalance quartz gas sensors. , 2011, , .		1
36	Ultrasonic Spectroscopy of Silicon Single Crystal. Metrology and Measurement Systems, 2011, 18, .	1.4	3

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37	Nyquist Relation and Its Validity for Piezoelectric Ceramics Considering Temperature. , 2009, , .		4
38	New automatic localization technique of acoustic emission signals in thin metal plates. Ultrasonics, 2009, 49, 254-262.	3.9	90
39	Acoustic and electromagnetic emission as a tool for crack localization. Measurement Science and Technology, 2008, 19, 045701.	2.6	20
40	Mathematical Model for Electrical Noise of Piezoelectric Sensor. AIP Conference Proceedings, 2007, , .	0.4	3
41	Noise in Piezoceramics. AIP Conference Proceedings, 2007, , .	0.4	5
42	A FPGA-PC Based Acoustic Emission System with Logarithmic Preamplifier for Fracture Monitoring. Key Engineering Materials, 0, 592-593, 541-544.	0.4	1
43	Using Acoustic Emission in Fracture Monitoring of Cementitious Composites. Key Engineering Materials, 0, 592-593, 521-524.	0.4	0