

Petr Sedlář

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8356341/publications.pdf>

Version: 2024-02-01

43
papers

710
citations

567281

15
h-index

552781

26
g-index

43
all docs

43
docs citations

43
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercapacitor equivalent electrical circuit model based on charges redistribution by diffusion. Journal of Power Sources, 2015, 286, 58-65.	7.8	113
2	New automatic localization technique of acoustic emission signals in thin metal plates. Ultrasonics, 2009, 49, 254-262.	3.9	90
3	Acoustic emission localization in thin multi-layer plates using first-arrival determination. Mechanical Systems and Signal Processing, 2013, 36, 636-649.	8.0	84
4	Case Study of Polyvinylidene Fluoride Doping by Carbon Nanotubes. Materials, 2021, 14, 1428.	2.9	50
5	Performance analysis of GaAs based solar cells under gamma irradiation. Applied Surface Science, 2020, 510, 145329.	6.1	29
6	Voltage Dependence of Supercapacitor Capacitance. Metrology and Measurement Systems, 2016, 23, 403-411.	1.4	28
7	PVDF Fibers Modification by Nitrate Salts Doping. Polymers, 2021, 13, 2439.	4.5	27
8	Supercapacitor Degradation Assessment by Power Cycling and Calendar Life Tests. Metrology and Measurement Systems, 2016, 23, 345-358.	1.4	25
9	Acoustic and electromagnetic emission as a tool for crack localization. Measurement Science and Technology, 2008, 19, 045701.	2.6	20
10	Adsorption-desorption noise in QCM gas sensors. Sensors and Actuators B: Chemical, 2012, 166-167, 264-268.	7.8	19
11	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
12	Analytical fluctuation enhanced sensing by resistive gas sensors. Sensors and Actuators B: Chemical, 2015, 213, 390-396.	7.8	17
13	Effect of various flow rate on current fluctuations of amperometric gas sensors. Sensors and Actuators B: Chemical, 2019, 283, 321-328.	7.8	17
14	Surface Analyses of PVDF/NMP/[EMIM][TFSI] Solid Polymer Electrolyte. Polymers, 2021, 13, 2678.	4.5	17
15	The effect of thermal treatment on ac/dc conductivity and current fluctuations of PVDF/NMP/[EMIM][TFSI] solid polymer electrolyte. Scientific Reports, 2020, 10, 21140.	3.3	16
16	Quantitative fluctuation-enhanced sensing in amperometric NO ₂ sensors. Chemical Physics, 2015, 456, 111-117.	1.9	15
17	Aluminum Nitride Nanofilms by Atomic Layer Deposition Using Alternative Precursors Hydrazinium Chloride and Triisobutylaluminum. Coatings, 2020, 10, 954.	2.6	15
18	An Electrochemical Amperometric Ethylene Sensor with Solid Polymer Electrolyte Based on Ionic Liquid. Sensors, 2021, 21, 711.	3.8	14

#	ARTICLE	IF	CITATIONS
19	Structure Tuning and Electrical Properties of Mixed PVDF and Nylon Nanofibers. <i>Materials</i> , 2021, 14, 6096.	2.9	14
20	The Effect of the Orientation Towards Analyte Flow on Electrochemical Sensor Performance and Current Fluctuations. <i>Sensors</i> , 2020, 20, 1038.	3.8	13
21	Current Fluctuation Measurements of Amperometric Gas Sensors Constructed with Three Different Technology Procedures. <i>Metrology and Measurement Systems</i> , 2016, 23, 531-543.	1.4	8
22	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
23	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
24	Analysis of Acoustic Emission Signals during Tensile Deformation of Fe-Si Steels with Various Silicon Contents. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3623-3634.	2.2	7
25	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
26	Investigation of structure of AlN thin films using Fourier-transform infrared spectroscopy. <i>Procedia Structural Integrity</i> , 2019, 23, 601-606.	0.8	6
27	Noise in Piezoceramics. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	5
28	Nyquist Relation and Its Validity for Piezoelectric Ceramics Considering Temperature. , 2009, , .		4
29	Mathematical Model for Electrical Noise of Piezoelectric Sensor. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	3
30	Noise in piezoresistive pressure sensors. , 2015, , .		3
31	Ultrasonic Spectroscopy of Silicon Single Crystal. <i>Metrology and Measurement Systems</i> , 2011, 18, .	1.4	3
32	Noise in amperometric NO ₂ sensor. , 2013, , .		2
33	Noise in quartz crystal microbalance. , 2011, , .		1
34	Comparison of effectiveness of gas sensing by low frequency fluctuations in resistance and microbalance quartz gas sensors. , 2011, , .		1
35	A FPGA-PC Based Acoustic Emission System with Logarithmic Pre-amplifier for Fracture Monitoring. <i>Key Engineering Materials</i> , 0, 592-593, 541-544.	0.4	1
36	Analysis of Noise and Non-Linearity of I-V Characteristics of Positive Temperature Coefficient Chip Thermistors. <i>Metrology and Measurement Systems</i> , 2013, 20, 635-644.	1.4	1

#	ARTICLE	IF	CITATIONS
37	Low frequency noise of electrochemical power sources. , 2017, , .		1
38	Efficient Processing of Data Acquired Using Microscopy Techniques. , 2018, , .		1
39	Using Acoustic Emission in Fracture Monitoring of Cementitious Composites. Key Engineering Materials, 0, 592-593, 521-524.	0.4	0
40	Investigation of adsorption-desorption phenomenon by using current fluctuations of amperometric NO$\times 2$ gas sensor. , 2015, , .		0
41	SEM and AFM imaging of solar cells defects. Proceedings of SPIE, 2015, , .	0.8	0
42	Preparation of Nitrogen Dioxide Sensor Utilizing Aerosol Jet Printing Technology. , 2020, , .		0
43	Effect of the different crystallinity of ionic liquid based solid polymer electrolyte on the performance of amperometric gas sensor. , 2020, , .		0