

Nikolay Mukhin

List of Publications by Year in descending order

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26
papers

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times ranked

147
citing authors

#	ARTICLE	IF	CITATIONS
1	Class-ceramic ferroelectric composite material BaTiO ₃ /KFeSi for microwave applications. <i>Composite Structures</i> , 2022, 281, 114992.	5.8	4
2	Two-Dimensional Phononic Crystal Based Sensor for Characterization of Mixtures and Heterogeneous Liquids. <i>Sensors</i> , 2022, 22, 2816.	3.8	10
3	Optical Chemical Sensor Based on Fast-Protein Liquid Chromatography for Regular Peritoneal Protein Loss Assessment in End-Stage Renal Disease Patients on Continuous Ambulatory Peritoneal Dialysis. <i>Chemosensors</i> , 2022, 10, 232.	3.6	4
4	Label-Free Protein Detection by Micro-Acoustic Biosensor Coupled with Electrical Field Sorting. Theoretical Study in Urine Models. <i>Sensors</i> , 2021, 21, 2555.	3.8	6
5	Phononic Crystal Sensors: A New Class of Resonant Sensors – Chances and Challenges for the Determination of Liquid Properties. <i>Frontiers in Mechanical Engineering</i> , 2021, 7, .	1.8	18
6	Enhanced sensitivity of resonant liquid sensors by phononic crystals. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	10
7	Periodic Tubular Structures and Phononic Crystals towards High-Q Liquid Ultrasonic Inline Sensors for Pipes. <i>Sensors</i> , 2021, 21, 5982.	3.8	7
8	Tubular phononic crystal sensor. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	11
9	Topology Challenge for the Assessment of Living Cell Deposits with Shear Bulk Acoustic Biosensor. <i>Nanomaterials</i> , 2020, 10, 2079.	4.1	7
10	Structural Dependent Eu ³⁺ Luminescence, Photoelectric and Hysteresis Effects in Porous Strontium Titanate. <i>Materials</i> , 2020, 13, 5767.	2.9	8
11	Barium-Strontium Titanate/Porous Glass Structures for Microwave Applications. <i>Materials</i> , 2020, 13, 5639.	2.9	5
12	Milk as a Complex Multiphase Polydisperse System: Approaches for the Quantitative and Qualitative Analysis. <i>Journal of Composites Science</i> , 2020, 4, 151.	3.0	11
13	Composite Ferroelectric Coatings Based on a Heat-Resistant Polybenzoxazole Polymer Matrix. <i>Coatings</i> , 2020, 10, 286.	2.6	5
14	Sensor for the evaluation of dielectric properties of sulfur-containing heteroatomic hydrocarbon compounds in petroleum based liquids at a microfluidic scale. <i>AIP Advances</i> , 2020, 10, .	1.3	4
15	Narrow Band Solid-Liquid Composite Arrangements: Alternative Solutions for Phononic Crystal-Based Liquid Sensors. <i>Sensors</i> , 2019, 19, 3743.	3.8	37
16	Microstructure and Properties of PZT Films with Different PbO Content – Ionic Mechanism of Built-In Fields Formation. <i>Materials</i> , 2019, 12, 2926.	2.9	11
17	QCM based sensor for detecting volumetric properties of liquids. <i>Current Applied Physics</i> , 2019, 19, 679-682.	2.4	14
18	Thiophene Determination in Liquid Hydrocarbons by In-line Acoustic Measurements. <i>Journal of the Russian Universities Radioelectronics</i> , 2019, 22, 82-88.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Microfluidic Acoustic Metamaterial SAW Based Sensor. Journal of the Russian Universities Radioelectronics, 2019, 22, 75-81.	0.2	1
20	Study of liquid resonances in solid-liquid composite periodic structures (phononic crystals) – theoretical investigations and practical application for in-line analysis of conventional petroleum products. Sensors and Actuators B: Chemical, 2018, 257, 469-477.	7.8	22
21	Towards macroporous phononic crystal based structures for FBAR applications. Theoretical investigation of technologically competitive solutions. Microsystem Technologies, 2018, 24, 2389-2399.	2.0	4
22	Heat-Resistant Ferroelectric-Polymer Nanocomposite with High Dielectric Constant. Materials, 2018, 11, 1439.	2.9	9
23	Surface modification of ZnO for solar converters by NdYAG Laser. , 2018, , .		0
24	Laser surface modification of ZnO for solar converters. , 2017, , .		2
25	SAW-Based Phononic Crystal Microfluidic Sensor – Microscale Realization of Velocimetry Approaches for Integrated Analytical Platform Applications. Sensors, 2017, 17, 2187.	3.8	18
26	Thin-film heterostructures based on oxides of copper and zinc obtained by RF magnetron sputtering in one vacuum cycle. Journal of Physics: Conference Series, 2016, 729, 012013.	0.4	2