

Andrey V Shalunov

List of Publications by Year in descending order

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102
papers

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g-index

102
all docs

102
docs citations

102
times ranked

77
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasonic Transducer With Increased Exposure Power and Frequency up to 100 kHz. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1773-1782.	3.0	7
2	Physical Mechanisms and Theoretical Computation of Efficiency of Submicron Particles Agglomeration by Nonlinear Acoustic Influence. Aerosol and Air Quality Research, 2021, 21, 200063.	2.1	3
3	Summation of high-frequency Langevin transducers vibrations for increasing of ultrasonic radiator power. Ultrasonics, 2021, 114, 106413.	3.9	16
4	Improving the performance of air purification efficiency from fine-dispersed particles by ultrasonic exposure in swirling flow. International Journal of Environmental Science and Technology, 2020, 17, 3927-3934.	3.5	5
5	Improving the separation efficient of particles smaller than 2.5 micrometer by combining ultrasonic agglomeration and swirling flow techniques. PLoS ONE, 2020, 15, e0239593.	2.5	4
6	Method for Producing Fine Liquid-Drop Systems in Ultrasound Fields. Theoretical Foundations of Chemical Engineering, 2019, 53, 419-431.	0.7	0
7	Study of Ultrasonic Coagulation of Dispersed Particles in the Implementation of the Standing Wave Mode. , 2019, , .		1
8	Experimental Stand for the Research of the Process of Ultrasonic Coagulation of Aerosols. , 2019, , .		3
9	Mass Transfer Rate Increasing by Ultrasonic Oscillations in "Gas-Liquid" Systems. , 2019, , .		0
10	Experimental Study of the Influence of the Ultrasonic Cavitation on Raw Components of the Polymer Composite Material. , 2019, , .		1
11	Development of the Device for Ultrasonic Cleaning of Small-Sized Products. , 2019, , .		0
12	Investigation of the Thickness Effect of Spray Liquid on the Frequency Characteristics of an Oscillatory System. , 2019, , .		0
13	Development of the Ultrasonic Tool for Welding of Thin-Walled Products. , 2019, , .		0
14	Development of the Acoustic Isolation Node of the Ultrasonic Oscillatory System. , 2019, , .		0
15	Theoretical Study Coagulation of Aerosols in Thin Resonant Gaps. , 2019, , .		1
16	Investigation of the thickness effect of a sprayed liquid layer on the frequency characteristics of an oscillatory system. Science Bulletin of the Novosibirsk State Technical University, 2019, , 97-114.	0.0	1
17	Increasing of Efficiency of Ultrasonic Vibration System Work for Cavitation Treating of Liquid. , 2018, , .		2
18	Ultrasonic Disk Radiators at High Temperatures. , 2018, , .		1

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19	Increasing the Uniformity of Amplitude Oscillations of Anisotropic Ultrasonic Disc Emitters for Gas Media. , 2018, , .		2
20	The Study of Regularities of Ultrasonic Coagulation of Two-Phase Aerosol in Gas Flow. , 2018, , .		3
21	Features of Designing of a Specialized High-Frequency Ultrasonic Sprayer. , 2018, , .		2
22	Spray Shape Formation at Ultrasonic Spraying Process. , 2018, , .		0
23	Improving the Performance of the Processes in the Systems "Gas-Liquid" Methods of High-Intensity Ultrasonic Effects. , 2018, , .		0
24	Application of Discrete-Phase Model for Gas-Cleaning Efficiency Calculation. , 2018, , .		0
25	Experimental Study of the Process of Low-Temperature Drying of Waste Wood By the Application of Ultrasonic Fields. , 2018, , .		0
26	Apparatus for Ultrasonic Drying of Disperse Materials. , 2018, , .		0
27	Experimental Researches of Process of Trapping of Particles by Centrifugal-Acoustic Gas-Cleaning Equipment. , 2018, , .		0
28	Radiators for Forming of High-Intensive Ultrasonic Vibrations in Gaseous Media. , 2018, , .		3
29	Providing the Efficiency and Dispersion Characteristics of Aerosols in Ultrasonic Atomization. Journal of Engineering Physics and Thermophysics, 2017, 90, 831-844.	0.6	20
30	Theoretical determination of treating modes providing the formation of high-disperse aerosol at two-stage ultrasonic atomization. , 2017, , .		6
31	Determination of optimum construction of the ultrasonic radiator for cavitation-acoustic intensification of the absorption processes by mathematical and computer modeling methods. , 2017, , .		1
32	Ultrasonic drying of textile materials. , 2017, , .		2
33	Study of the influence of secondary modes of vibrations on the uniformity of the distribution of working ring disk of ultrasonic disk radiators. , 2017, , .		11
34	Study of the influence of the anisotropy of the mechanical properties of the material on the distribution of ultrasonic vibrations disk radiators. , 2017, , .		2
35	Ultrasonic coagulation to improve the efficiency of the gas cleaning systems. , 2017, , .		9
36	Determination of the Modes and the Conditions of Ultrasonic Spraying Providing Specified Productivity and Dispersed Characteristics of the Aerosol. Journal of Applied Fluid Mechanics, 2017, 10, 1409-1419.	0.2	16

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37	Evaluation of optimum modes of ultrasonic pulsed influence for coagulation in liquid-dispersed medium. , 2016, , .		4
38	The measurements of acoustic power introduced into gas medium by the ultrasonic apparatuses with the disk-type radiators. , 2016, , .		12
39	Development of two-step centrifugal acoustic gas-purifying equipment. , 2016, , .		4
40	Studies of spray drying process of sour milk products with the application of ultrasonic vibrations. , 2016, , .		7
41	Efficiency increase of centrifugal separation of gas-dispersed flow by the application of ultrasonic vibrations. , 2016, , .		6
42	Efficiency Increase of Wet Gas Cleaning from Dispersed Admixtures by the Application of Ultrasonic Fields. Archives of Acoustics, 2016, 41, 757-771.	0.8	28
43	Determination of optimum conditions of ultrasonic cavitation treatment of high-viscous and non-Newtonian liquid media. , 2015, , .		13
44	Efficiency increase of the dust-extraction plant by high-intensity ultrasonic action. , 2015, , .		10
45	Development of the waveguide-tool for the action on wounds and wound infection. , 2015, , .		0
46	Ultrasonic radiators for the action on gaseous media at high temperatures. , 2015, , .		24
47	The use of converse ultrasonic capillary effect for the extraction of wound contents from capillary-porous human tissue. , 2015, , .		0
48	Technical Note. Development and Research of Concentrator-Sonotrode with Increased Radiating Surface. Archives of Acoustics, 2015, 40, 129-135.	0.8	2
49	Development of the rectangular ultrasonic radiator of the stair-step form. , 2014, , .		11
50	Revealing of optimum modes of ultrasonic coagulation of submicron particles and determining of the shape of the aggregates by mathematical modeling. , 2014, , .		9
51	Designing of multi-frequency source of ultrasonic action with radiator in form of stair-step disc. , 2014, , .		9
52	Automated line for ultrasonic spraying of anticoagulant into the blood collection tubes. , 2014, , .		7
53	Determination of ultrasonic effect mode providing formation of cavitation area in high-viscous and non-Newtonian liquids. , 2014, , .		12
54	Increase of separation efficiency in the inertial gas-purifying equipment by high-intensity ultrasonic vibrations. , 2014, , .		11

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55	Study of the process of liquid atomization from the ultrasonic disk radiator. , 2013, , .		13
56	The development of the agglomerator for efficiency increase of the separation of nanoscale particles. , 2013, , .		8
57	The control of the ultrasonic coagulation of dispersed nanoscale particles. , 2013, , .		15
58	Development of the construction of the apparatus for centrifugal acoustic collection of nanoscale aerosols. , 2013, , .		7
59	Development of the equipment for ultrasonic treatment of biological tissues with simultaneous spraying of medicines. , 2013, , .		7
60	Modes and conditions of efficient ultrasonic influence on high-viscosity media in the technological volumes. , 2013, , .		1
61	Optimization of these modes and conditions of ultrasonic influence on various technological mediums by mathematical modeling. , 2012, , .		8
62	The development of the equipment for ultrasonic defoaming for industrial application. , 2012, , .		0
63	Revelation of optimum modes of ultrasonic influence for atomization of viscous liquids by mathematical modelling. , 2012, , .		7
64	Study of possibility of ultrasonic coagulation in air flow. , 2012, , .		4
65	Development of equipment for ultrasonic defoaming and determination of its functional capabilities. , 2011, , .		0
66	Compact ultrasonic drier for low temperature dehydration of products in food industry. , 2011, , .		3
67	Ultrasonic atomizers of nanomaterials. , 2011, , .		4
68	Studies of ultrasonic dehydration efficiency. Journal of Zhejiang University: Science A, 2011, 12, 247-254.	2.4	32
69	Practical investigations of the method for indirect control of acoustic load parameters. , 2011, , .		6
70	Compact ultrasonic atomizer having possibilities to spray in layer and in fountain. , 2010, , .		1
71	Investigation of influence of high-frequency ultrasonic vibrations on industrial mists. , 2010, , .		0
72	Method of analysis of ultrasonic radiators on the base of flexural vibrations of disks with step-variable form. , 2010, , .		7

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73	Design features of electronic generators for radiators intended for influence on gas media. , 2010, , .		5
74	Ultrasonic device for hair drying. , 2010, , .		0
75	Ultrasonic coagulation on the basis of piezoelectric vibrating system with focusing radiator in the form of step-variable plate. , 2010, , .		5
76	Development of equipment for fine-dispersed atomization of viscous liquids. , 2010, , .		3
77	Theoretical study of acoustic coagulation of gas-dispersed systems. , 2010, , .		14
78	Development and investigation of the ultrasonic coagulation camera. , 2009, , .		3
79	Development of design procedure of liquid media dispenser for the atomizing drier. , 2009, , .		4
80	Investigation and development of devices for ultrasonic laparoscopy. , 2009, , .		0
81	Measuring bench for investigation of mixing process in ultrasonic mass-transfer apparatus. , 2009, , .		0
82	Compact ultrasonic drier. , 2009, , .		5
83	Multifrequency ultrasonic transducer with stepped-plate disk. , 2009, , .		15
84	Software realization of various working modes of ultrasonic generators. , 2008, , .		1
85	Test bench for flow cavitation processing of liquid media. , 2008, , .		0
86	The acoustical coagulation of aerosols. , 2008, , .		8
87	The compact ultrasonic dryer for capillary-porous and loose materials. , 2008, , .		5
88	Ultrasonic oscillating system for radiators of gas media. , 2008, , .		9
89	Laparoscopy Ultrasonic Complex. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	1
90	Technique of Define Limiting Parameters of Ultrasonic Electronic Generators. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	0

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91	Increasing Efficiency of a Chemical-Mechanical Polishing of the Silicon Wafer. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2006, , .	0.0	1
92	The Cavitation Spraying of the Viscous Liquids. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2006, , .	0.0	2
93	Measurement of Parameters and Automatic Selection of Optimal Modes During Ultrasonic Welding of Thermoplastic Materials. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2006, , .	0.0	1
94	Development of the New Principle of Batching of Energy at Ultrasonic Welding and Creation of the Equipment for Connection of Thermoplastic Materials. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2006, , .	0.0	1
95	The process of ultrasonic calibration of a bearing element of a fiber-optical cable. , 2002, , .		1
96	Method of ultrasonic capsulation of polymeric containers for collection, storage and processing of components of blood. , 2002, , .		1
97	The system of checking and operating power of ultrasonic technological apparatus. , 0, , .		2
98	The power features meter. , 0, , .		2
99	Ultrasonic impregnation of polymeric fiber glass composites. , 0, , .		2
100	Adjusting and calibration electronic ultrasonic generators. , 0, , .		5
101	Method of ultrasonic liposuction process control. , 0, , .		4
102	Automation of advanced cavitation mode obtaining process in liquid mediums [ultrasonics]. , 0, , .		1