

Andrey V Shalunov

List of Publications by Year in descending order

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102
papers

515
citations

1478505

6
h-index

1199594

12
g-index

102
all docs

102
docs citations

102
times ranked

77
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies of ultrasonic dehydration efficiency. Journal of Zhejiang University: Science A, 2011, 12, 247-254.	2.4	32
2	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
3	Ultrasonic radiators for the action on gaseous media at high temperatures. , 2015, , .		24
4	Providing the Efficiency and Dispersion Characteristics of Aerosols in Ultrasonic Atomization. Journal of Engineering Physics and Thermophysics, 2017, 90, 831-844.	0.6	20
5	Summation of high-frequency Langevin transducers vibrations for increasing of ultrasonic radiator power. Ultrasonics, 2021, 114, 106413.	3.9	16
6	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
7	Multifrequency ultrasonic transducer with stepped-plate disk. , 2009, , .		15
8	The control of the ultrasonic coagulation of dispersed nanoscale particles. , 2013, , .		15
9	Theoretical study of acoustic coagulation of gas-dispersed systems. , 2010, , .		14
10	Study of the process of liquid atomization from the ultrasonic disk radiator. , 2013, , .		13
11	Determination of optimum conditions of ultrasonic cavitation treatment of high-viscous and non-Newtonian liquid media. , 2015, , .		13
12	Determination of ultrasonic effect mode providing formation of cavitation area in high-viscous and non-Newtonian liquids. , 2014, , .		12
13	The measurements of acoustic power introduced into gas medium by the ultrasonic apparatuses with the disk-type radiators. , 2016, , .		12
14	Development of the rectangular ultrasonic radiator of the stair-step form. , 2014, , .		11
15	Increase of separation efficiency in the inertial gas-purifying equipment by high-intensity ultrasonic vibrations. , 2014, , .		11
16	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
17	Efficiency increase of the dust-extraction plant by high-intensity ultrasonic action. , 2015, , .		10
18	Ultrasonic oscillating system for radiators of gas media. , 2008, , .		9

#	ARTICLE	IF	CITATIONS
19	Revealing of optimum modes of ultrasonic coagulation of submicron particles and determining of the shape of the aggregates by mathematical modeling. , 2014, , .		9
20	Designing of multi-frequency source of ultrasonic action with radiator in form of stair-step disc. , 2014, , .		9
21	Ultrasonic coagulation to improve the efficiency of the gas cleaning systems. , 2017, , .		9
22	The acoustical coagulation of aerosols. , 2008, , .		8
23	Optimization of these modes and conditions of ultrasonic influence on various technological mediums by mathematical modeling. , 2012, , .		8
24	The development of the agglomerator for efficiency increase of the separation of nanoscale particles. , 2013, , .		8
25	Method of analysis of ultrasonic radiators on the base of flexural vibrations of disks with step-variable form. , 2010, , .		7
26	Revelation of optimum modes of ultrasonic influence for atomization of viscous liquids by mathematical modelling. , 2012, , .		7
27	Development of the construction of the apparatus for centrifugal acoustic collection of nanoscale aerosols. , 2013, , .		7
28	Development of the equipment for ultrasonic treatment of biological tissues with simultaneous spraying of medicines. , 2013, , .		7
29	Automated line for ultrasonic spraying of anticoagulant into the blood collection tubes. , 2014, , .		7
30	Studies of spray drying process of sour milk products with the application of ultrasonic vibrations. , 2016, , .		7
31	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
32	Practical investigations of the method for indirect control of acoustic load parameters. , 2011, , .		6
33	Efficiency increase of centrifugal separation of gas-dispersed flow by the application of ultrasonic vibrations. , 2016, , .		6
34	Theoretical determination of treating modes providing the formation of high-disperse aerosol at two-stage ultrasonic atomization. , 2017, , .		6
35	Adjusting and calibration electronic ultrasonic generators. , 0, , .		5
36	The compact ultrasonic dryer for capillary-porous and loose materials. , 2008, , .		5

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37	Compact ultrasonic drier. , 2009, , .		5
38	Design features of electronic generators for radiators intended for influence on gas media. , 2010, , .		5
39	Ultrasonic coagulation on the basis of piezoelectric vibrating system with focusing radiator in the form of step-variable plate. , 2010, , .		5
40	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
41	Method of ultrasonic liposuction process control. , 0, , .		4
42	Development of design procedure of liquid media dispenser for the atomizing drier. , 2009, , .		4
43	Ultrasonic atomizers of nanomaterials. , 2011, , .		4
44	Study of possibility of ultrasonic coagulation in air flow. , 2012, , .		4
45	Evaluation of optimum modes of ultrasonic pulsed influence for coagulation in liquid-dispersed medium. , 2016, , .		4
46	Development of two-step centrifugal acoustic gas-purifying equipment. , 2016, , .		4
47	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
48	Development and investigation of the ultrasonic coagulation camera. , 2009, , .		3
49	Development of equipment for fine-dispersed atomization of viscous liquids. , 2010, , .		3
50	Compact ultrasonic drier for low temperature dehydration of products in food industry. , 2011, , .		3
51	The Study of Regularities of Ultrasonic Coagulation of Two-Phase Aerosol in Gas Flow. , 2018, , .		3
52	Experimental Stand for the Research of the Process of Ultrasonic Coagulation of Aerosols. , 2019, , .		3
53	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
54	Radiators for Forming of High-Intensive Ultrasonic Vibrations in Gaseous Media. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
55	The system of checking and operating power of ultrasonic technological apparatus. , 0, , .		2
56	The power features meter. , 0, , .		2
57	Ultrasonic impregnation of polymeric fiber glass composites. , 0, , .		2
58	The Cavitation Spraying of the Viscous Liquids. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2006, , .	0.0	2
59	Technical Note. Development and Research of Concentrator-Sonotrode with Increased Radiating Surface. Archives of Acoustics, 2015, 40, 129-135.	0.8	2
60	Ultrasonic drying of textile materials. , 2017, , .		2
61	Study of the influence of the anisotropy of the mechanical properties of the material on the distribution of ultrasonic vibrations disk radiators. , 2017, , .		2
62	Increasing of Efficiency of Ultrasonic Vibration System Work for Cavitation Treating of Liquid. , 2018, , .		2
63	Increasing the Uniformity of Amplitude Oscillations of Anisotropic Ultrasonic Disc Emitters for Gas Media. , 2018, , .		2
64	Features of Designing of a Specialized High-Frequency Ultrasonic Sprayer. , 2018, , .		2
65	The process of ultrasonic calibration of a bearing element of a fiber-optical cable. , 2002, , .		1
66	Method of ultrasonic capsulation of polymeric containers for collection, storage and processing of components of blood. , 2002, , .		1
67	Automation of advanced cavitation mode obtaining process in liquid mediums [ultrasonics]. , 0, , .		1
68	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
69	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
70	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
71	Laparoscopy Ultrasonic Complex. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	1
72	Software realization of various working modes of ultrasonic generators. , 2008, , .		1

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73	Compact ultrasonic atomizer having possibilities to spray in layer and in fountain. , 2010, , .		1
74	Modes and conditions of efficient ultrasonic influence on high-viscosity media in the technological volumes. , 2013, , .		1
75	Determination of optimum construction of the ultrasonic radiator for cavitation-acoustic intensification of the absorption processes by mathematical and computer modeling methods. , 2017, , .		1
76	Ultrasonic Disk Radiators at High Temperatures. , 2018, , .		1
77	Study of Ultrasonic Coagulation of Dispersed Particles in the Implementation of the Standing Wave Mode. , 2019, , .		1
78	Experimental Study of the Influence of the Ultrasonic Cavitation on Raw Components of the Polymer Composite Material. , 2019, , .		1
79	Theoretical Study Coagulation of Aerosols in Thin Resonant Caps. , 2019, , .		1
80	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
81	Technique of Define Limiting Parameters of Ultrasonic Electronic Generators. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	0
82	Test bench for flow cavitation processing of liquid media. , 2008, , .		0
83	Investigation and development of devices for ultrasonic laparoscopy. , 2009, , .		0
84	Measuring bench for investigation of mixing process in ultrasonic mass-transfer apparatus. , 2009, , .		0
85	Investigation of influence of high-frequency ultrasonic vibrations on industrial mists. , 2010, , .		0
86	Ultrasonic device for hair drying. , 2010, , .		0
87	Development of equipment for ultrasonic defoaming and determination of its functional capabilities. , 2011, , .		0
88	The development of the equipment for ultrasonic defoaming for industrial application. , 2012, , .		0
89	Development of the waveguide-tool for the action on wounds and wound infection. , 2015, , .		0
90	The use of converse ultrasonic capillary effect for the extraction of wound contents from capillary-porous human tissue. , 2015, , .		0

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91	Spray Shape Formation at Ultrasonic Spraying Process. , 2018, , .		0
92	Improving the Performance of the Processes in the Systems "Gas-Liquid" Methods of High-Intensity Ultrasonic Effects. , 2018, , .		0
93	Application of Discrete-Phase Model for Gas-Cleaning Efficiency Calculation. , 2018, , .		0
94	Experimental Study of the Process of Low-Temperature Drying of Waste Wood By the Application of Ultrasonic Fields. , 2018, , .		0
95	Apparatus for Ultrasonic Drying of Disperse Materials. , 2018, , .		0
96	Experimental Researches of Process of Trapping of Particles by Centrifugal-Acoustic Gas-Cleaning Equipment. , 2018, , .		0
97	Method for Producing Fine Liquid-Drop Systems in Ultrasound Fields. Theoretical Foundations of Chemical Engineering, 2019, 53, 419-431.	0.7	0
98	Mass Transfer Rate Increasing by Ultrasonic Oscillations in "Gas-Liquid" Systems. , 2019, , .		0
99	Development of the Device for Ultrasonic Cleaning of Small-Sized Products. , 2019, , .		0
100	Investigation of the Thickness Effect of Spray Liquid on the Frequency Characteristics of an Oscillatory System. , 2019, , .		0
101	Development of the Ultrasonic Tool for Welding of Thin-Walled Products. , 2019, , .		0
102	Development of the Acoustic Isolation Node of the Ultrasonic Oscillatory System. , 2019, , .		0