

# Viktor A Nesterov

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

374  
citations

1478505

6  
h-index

1281871

11  
g-index

78  
all docs

78  
docs citations

78  
times ranked

59  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ultrasonic radiators for the action on gaseous media at high temperatures. , 2015, , .		24
3	Providing the Efficiency and Dispersion Characteristics of Aerosols in Ultrasonic Atomization. Journal of Engineering Physics and Thermophysics, 2017, 90, 831-844.	0.6	20
4	Summation of high-frequency Langevin transducers vibrations for increasing of ultrasonic radiator power. Ultrasonics, 2021, 114, 106413.	3.9	16
5	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
6	The control of the ultrasonic coagulation of dispersed nanoscale particles. , 2013, , .		15
7	Study of the process of liquid atomization from the ultrasonic disk radiator. , 2013, , .		13
8	Determination of optimum conditions of ultrasonic cavitation treatment of high-viscous and non-Newtonian liquid media. , 2015, , .		13
9	The measurements of acoustic power introduced into gas medium by the ultrasonic apparatuses with the disk-type radiators. , 2016, , .		12
10	Development of the rectangular ultrasonic radiator of the stair-step form. , 2014, , .		11
11	Increase of separation efficiency in the inertial gas-purifying equipment by high-intensity ultrasonic vibrations. , 2014, , .		11
12	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
13	Efficiency increase of the dust-extraction plant by high-intensity ultrasonic action. , 2015, , .		10
14	Revealing of optimum modes of ultrasonic coagulation of submicron particles and determining of the shape of the aggregates by mathematical modeling. , 2014, , .		9
15	Development of ultrasonic welding technology by hand tool. , 2016, , .		9
16	Ultrasonic coagulation to improve the efficiency of the gas cleaning systems. , 2017, , .		9
17	The development of experimental sample of ultrasonic equipment for the intake of lunar soil. , 2012, , .		8
18	The development of the agglomerator for efficiency increase of the separation of nanoscale particles. , 2013, , .		8

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19	Study of interaction of cavitation zone with interphase boundary for the determination of efficient modes of ultrasonic intensification of physical-chemical processes. , 2015, , .		8
20	The Limits of Fine Particle Ultrasonic Coagulation. Symmetry, 2021, 13, 1607.	2.2	8
21	The development of ultrasonic welder for the formation of continuous welding seams. , 2012, , .		7
22	Development of the construction of the apparatus for centrifugal acoustic collection of nanoscale aerosols. , 2013, , .		7
23	Development of the equipment for ultrasonic treatment of biological tissues with simultaneous spraying of medicines. , 2013, , .		7
24	Automated line for ultrasonic spraying of anticoagulant into the blood collection tubes. , 2014, , .		7
25	Studies of spray drying process of sour milk products with the application of ultrasonic vibrations. , 2016, , .		7
26	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
27	Efficiency increase of centrifugal separation of gas-dispersed flow by the application of ultrasonic vibrations. , 2016, , .		6
28	Theoretical determination of treating modes providing the formation of high-disperse aerosol at two-stage ultrasonic atomization. , 2017, , .		6
29	Longitudinally oscillating ultrasonic emitter for influencing gas-dispersed systems. Journal of Physics: Conference Series, 2020, 1679, 022008.	0.4	6
30	Efficiency increase of the ultrasonic emitter designed for dust coagulation in ash collecting units. , 2017, , .		5
31	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
32	Development of two-step centrifugal acoustic gas-purifying equipment. , 2016, , .		4
33	Ultrasonic Dehydration of Food Products with Moisture Removal without Phase Transition. Food Processing: Techniques and Technology, 2021, 51, 363-373.	1.0	4
34	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
35	The Study of Regularities of Ultrasonic Coagulation of Two-Phase Aerosol in Gas Flow. , 2018, , .		3
36	Experimental Stand for the Research of the Process of Ultrasonic Coagulation of Aerosols. , 2019, , .		3

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37	Increasing the uniformity of distribution of the oscillations of the disc ultrasound radiators for gas media. IOP Conference Series: Materials Science and Engineering, 2020, 862, 062079.	0.6	3
38	Radiators for Forming of High-Intensive Ultrasonic Vibrations in Gaseous Media. , 2018, , .		3
39	Study of the influence of the anisotropy of the mechanical properties of the material on the distribution of ultrasonic vibrations disk radiators. , 2017, , .		2
40	Increasing of Efficiency of Ultrasonic Vibration System Work for Cavitation Treating of Liquid. , 2018, , .		2
41	Increasing the Uniformity of Amplitude Oscillations of Anisotropic Ultrasonic Disc Emitters for Gas Media. , 2018, , .		2
42	Features of Designing of a Specialized High-Frequency Ultrasonic Sprayer. , 2018, , .		2
43	Raising the Efficiency of Coagulation of Dispersed Particles by the Action of Ultrasonic Vibrations on Gas-Dispersed Flows in Inertial Dust Collectors. Journal of Engineering Physics and Thermophysics, 2020, 93, 1335-1346.	0.6	2
44	Исследование влияния анизотропии механических свойств материала на распределение ультразвуковых колебаний в дисковых излучателях. , 2017, , .		2
45	The development of ultrasonic vibrating system for continuous seam welding. , 2012, , .		1
46	Determination of requirements and development of experimental setup for studying of ultrasonic absorption intensification. , 2017, , .		1
47	Ultrasonic Disk Radiators at High Temperatures. , 2018, , .		1
48	Development of Ultrasonic Oscillatory System for the Lunar Soil Drilling. , 2019, , .		1
49	Study of Ultrasonic Coagulation of Dispersed Particles in the Implementation of the Standing Wave Mode. , 2019, , .		1
50	Theoretical Study Coagulation of Aerosols in Thin Resonant Gaps. , 2019, , .		1
51	Combined acoustic-convective drying of plant products. Journal of Physics: Conference Series, 2020, 1679, 052052.	0.4	1
52	Ultrasonic coagulation of suspended particles in resonant gas gaps. Journal of Physics: Conference Series, 2020, 1679, 022024.	0.4	1
53	Research of the influence of ultrasonic oscillation on the drying of textile materials. Journal of Physics: Conference Series, 2020, 1679, 022027.	0.4	1
54	Investigation of ultrasonic surface treatment of metals. , 2010, , .		0

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55	Influence of surface friction on continuous ultrasonic welding of thin polymer films. , 2011, , .		0
56	Research of transformation of longitudinal ultrasonic vibrations into radial ones. , 2011, , .		0
57	Development of the waveguide-tool for the action on wounds and wound infection. , 2015, , .		0
58	Development of semi-automated lines for welding of polymer film with simultaneous cutting down with using of ultrasound. , 2017, , .		0
59	Ultrasonic Devices for Aluminum Melt Processing. , 2018, , .		0
60	Realization of Results of Laboratory Researches in Industrial Scales. , 2018, , .		0
61	Spray Shape Formation at Ultrasonic Spraying Process. , 2018, , .		0
62	Improving the Performance of the Processes in the Systems "Gas-Liquid"•Methods of High-Intensity Ultrasonic Effects. , 2018, , .		0
63	Experimental Study of the Process of Low-Temperature Drying of Waste Wood By the Application of Ultrasonic Fields. , 2018, , .		0
64	Apparatus for Ultrasonic Drying of Disperse Materials. , 2018, , .		0
65	Experimental Researches of Process of Trapping of Particles by Centrifugal-Acoustic Gas-Cleaning Equipment. , 2018, , .		0
66	The Ultrasonic Device and the Positioning System of the Welding Tool for Welding of Automobile Bumpers. , 2018, , .		0
67	Method for Producing Fine Liquid-Drop Systems in Ultrasound Fields. Theoretical Foundations of Chemical Engineering, 2019, 53, 419-431.	0.7	0
68	The Study of the Superposition of Vibrations on the Large Thin-Walled Structures. , 2019, , .		0
69	The Complex of Multi-Frequency Ultrasonic Apparatuses for the Generation of Mechanical Vibrations of the Physical Objects. , 2019, , .		0
70	The Installation of the Filtering Membranes into the Packets for the Mushroom Beds by the Ultrasonic Welding. , 2019, , .		0
71	Development of the Device for Ultrasonic Cleaning of Small-Sized Products. , 2019, , .		0
72	Investigation of the Thickness Effect of Spray Liquid on the Frequency Characteristics of an Oscillatory System. , 2019, , .		0

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73	Development of the Ultrasonic Tool for Welding of Thin-Walled Products. , 2019, , .		0
74	Development of the Acoustic Isolation Node of the Ultrasonic Oscillatory System. , 2019, , .		0
75	Ultrasonic tool for the realization of combined action during the drilling of extraterrestrial objects. Journal of Physics: Conference Series, 2020, 1679, 042033.	0.4	0
76	Дієд>Д-ДсДДД—Д'ДіДіДіД'ДД- ДіДіДД“ДіД>Д-Д  Д-Д- Д' Д;ДіДДіД'Д'Д•ДДД¥ Д'Д•ДДсДіДД': ДіД;ДіД'Д•ДДДіД;ДсД- ДД•ДД>		
77	Investigation of modes and conditions for superimposing ultrasonic vibration on heat exchangers. Journal of Physics: Conference Series, 2020, 1679, 022011.	0.4	0
78	Study of coagulation efficiency of highly dispersed particles under the influence of high intensity ultrasonic vibrations. Journal of Physics: Conference Series, 2020, 1679, 022013.	0.4	0