

# Viktor A Nesterov

## List of Publications by Year in descending order

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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	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	Ultrasonic Dehydration of Food Products with Moisture Removal without Phase Transition. Food Processing: Techniques and Technology, 2021, 51, 363-373.	1.0	4
3	Summation of high-frequency Langevin transducers vibrations for increasing of ultrasonic radiator power. Ultrasonics, 2021, 114, 106413.	3.9	16
4	The Limits of Fine Particle Ultrasonic Coagulation. Symmetry, 2021, 13, 1607.	2.2	8
5	Улучшение характеристик ультразвуковых излучателей с помощью резонансных систем. Ультразвук, 2021, 114, 106413.	3.9	16
6	Longitudinally oscillating ultrasonic emitter for influencing gas-dispersed systems. Journal of Physics: Conference Series, 2020, 1679, 022008.	0.4	6
7	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
8	Combined acoustic-convective drying of plant products. Journal of Physics: Conference Series, 2020, 1679, 052052.	0.4	1
9	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
10	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
11	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
12	Улучшение характеристик ультразвуковых излучателей с помощью резонансных систем. Ультразвук, 2021, 114, 106413.	3.9	16
13	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
14	Investigation of modes and conditions for superimposing ultrasonic vibration on heat exchangers. Journal of Physics: Conference Series, 2020, 1679, 022011.	0.4	0
15	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
16	Ultrasonic coagulation of suspended particles in resonant gas gaps. Journal of Physics: Conference Series, 2020, 1679, 022024.	0.4	1
17	Research of the influence of ultrasonic oscillation on the drying of textile materials. Journal of Physics: Conference Series, 2020, 1679, 022027.	0.4	1
18	Method for Producing Fine Liquid-Drop Systems in Ultrasound Fields. Theoretical Foundations of Chemical Engineering, 2019, 53, 419-431.	0.7	0

#	ARTICLE	IF	CITATIONS
19	Development of Ultrasonic Oscillatory System for the Lunar Soil Drilling. , 2019, , .		1
20	The Study of the Superposition of Vibrations on the Large Thin-Walled Structures. , 2019, , .		0
21	Study of Ultrasonic Coagulation of Dispersed Particles in the Implementation of the Standing Wave Mode. , 2019, , .		1
22	The Complex of Multi-Frequency Ultrasonic Apparatuses for the Generation of Mechanical Vibrations of the Physical Objects. , 2019, , .		0
23	Experimental Stand for the Research of the Process of Ultrasonic Coagulation of Aerosols. , 2019, , .		3
24	The Installation of the Filtering Membranes into the Packets for the Mushroom Beds by the Ultrasonic Welding. , 2019, , .		0
25	Development of the Device for Ultrasonic Cleaning of Small-Sized Products. , 2019, , .		0
26	Investigation of the Thickness Effect of Spray Liquid on the Frequency Characteristics of an Oscillatory System. , 2019, , .		0
27	Development of the Ultrasonic Tool for Welding of Thin-Walled Products. , 2019, , .		0
28	Development of the Acoustic Isolation Node of the Ultrasonic Oscillatory System. , 2019, , .		0
29	Theoretical Study Coagulation of Aerosols in Thin Resonant Gaps. , 2019, , .		1
30	Ultrasonic Devices for Aluminum Melt Processing. , 2018, , .		0
31	Increasing of Efficiency of Ultrasonic Vibration System Work for Cavitation Treating of Liquid. , 2018, , .		2
32	Realization of Results of Laboratory Researches in Industrial Scales. , 2018, , .		0
33	Ultrasonic Disk Radiators at High Temperatures. , 2018, , .		1
34	Increasing the Uniformity of Amplitude Oscillations of Anisotropic Ultrasonic Disc Emitters for Gas Media. , 2018, , .		2
35	The Study of Regularities of Ultrasonic Coagulation of Two-Phase Aerosol in Gas Flow. , 2018, , .		3
36	Features of Designing of a Specialized High-Frequency Ultrasonic Sprayer. , 2018, , .		2

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37	Spray Shape Formation at Ultrasonic Spraying Process. , 2018, , .		0
38	Improving the Performance of the Processes in the Systems "Gas-Liquid" Methods of High-Intensity Ultrasonic Effects. , 2018, , .		0
39	Experimental Study of the Process of Low-Temperature Drying of Waste Wood By the Application of Ultrasonic Fields. , 2018, , .		0
40	Apparatus for Ultrasonic Drying of Disperse Materials. , 2018, , .		0
41	Experimental Researches of Process of Trapping of Particles by Centrifugal-Acoustic Gas-Cleaning Equipment. , 2018, , .		0
42	The Ultrasonic Device and the Positioning System of the Welding Tool for Welding of Automobile Bumpers. , 2018, , .		0
43	Radiators for Forming of High-Intensive Ultrasonic Vibrations in Gaseous Media. , 2018, , .		3
44	Providing the Efficiency and Dispersion Characteristics of Aerosols in Ultrasonic Atomization. Journal of Engineering Physics and Thermophysics, 2017, 90, 831-844.	0.6	20
45	Theoretical determination of treating modes providing the formation of high-disperse aerosol at two-stage ultrasonic atomization. , 2017, , .		6
46	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
47	Determination of requirements and development of experimental setup for studying of ultrasonic absorption intensification. , 2017, , .		1
48	Development of semi-automated lines for welding of polymer film with simultaneous cutting down with using of ultrasound. , 2017, , .		0
49	Study of the influence of the anisotropy of the mechanical properties of the material on the distribution of ultrasonic vibrations disk radiators. , 2017, , .		2
50	Efficiency increase of the ultrasonic emitter designed for dust coagulation in ash collecting units. , 2017, , .		5
51	Ultrasonic coagulation to improve the efficiency of the gas cleaning systems. , 2017, , .		9
52	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
53	The measurements of acoustic power introduced into gas medium by the ultrasonic apparatuses with the disk-type radiators. , 2016, , .		12
54	Development of two-step centrifugal acoustic gas-purifying equipment. , 2016, , .		4

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55	Development of ultrasonic welding technology by hand tool. , 2016, , .		9
56	Studies of spray drying process of sour milk products with the application of ultrasonic vibrations. , 2016, , .		7
57	Efficiency increase of centrifugal separation of gas-dispersed flow by the application of ultrasonic vibrations. , 2016, , .		6
58	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
59	Study of interaction of cavitation zone with interphase boundary for the determination of efficient modes of ultrasonic intensification of physical-chemical processes. , 2015, , .		8
60	Determination of optimum conditions of ultrasonic cavitation treatment of high-viscous and non-Newtonian liquid media. , 2015, , .		13
61	Efficiency increase of the dust-extraction plant by high-intensity ultrasonic action. , 2015, , .		10
62	Development of the waveguide-tool for the action on wounds and wound infection. , 2015, , .		0
63	Ultrasonic radiators for the action on gaseous media at high temperatures. , 2015, , .		24
64	Development of the rectangular ultrasonic radiator of the stair-step form. , 2014, , .		11
65	Revealing of optimum modes of ultrasonic coagulation of submicron particles and determining of the shape of the aggregates by mathematical modeling. , 2014, , .		9
66	Automated line for ultrasonic spraying of anticoagulant into the blood collection tubes. , 2014, , .		7
67	Increase of separation efficiency in the inertial gas-purifying equipment by high-intensity ultrasonic vibrations. , 2014, , .		11
68	Study of the process of liquid atomization from the ultrasonic disk radiator. , 2013, , .		13
69	The development of the agglomerator for efficiency increase of the separation of nanoscale particles. , 2013, , .		8
70	The control of the ultrasonic coagulation of dispersed nanoscale particles. , 2013, , .		15
71	Development of the construction of the apparatus for centrifugal acoustic collection of nanoscale aerosols. , 2013, , .		7
72	Development of the equipment for ultrasonic treatment of biological tissues with simultaneous spraying of medicines. , 2013, , .		7

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73	The development of ultrasonic vibrating system for continuous seam welding. , 2012, , .		1
74	The development of ultrasonic welder for the formation of continuous welding seams. , 2012, , .		7
75	The development of experimental sample of ultrasonic equipment for the intake of lunar soil. , 2012, , .		8
76	Influence of surface friction on continuous ultrasonic welding of thin polymer films. , 2011, , .		0
77	Research of transformation of longitudinal ultrasonic vibrations into radial ones. , 2011, , .		0
78	Investigation of ultrasonic surface treatment of metals. , 2010, , .		0