Vladimir L Yusha

List of Publications by Year
in descending order

78	249	1163117 8	1058476 14
papers	citations	h-index	g-index

78	78	78	23
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of the Prospects of Development of Medium-Pressure Single-Stage Piston Compressor Units. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	37
2	The Estimation of Thermal Conditions of Highly-cooled Long-stroke Stages in Reciprocating Compressors. Procedia Engineering, 2015, 113, 264-269.	1.2	29
3	The Experimental Research of the Thermal Conditions in Slow Speed Stage of Air Reciprocating Compressor. Procedia Engineering, 2016, 152, 297-302.	1.2	20
4	The experimental research of the operating processes in slow speed stages of air reciprocating medium-pressure compressors. AIP Conference Proceedings, 2017, , .	0.4	18
5	Modeling the Work Processes of Slow-Speed, Long-Stroke Piston Compressors. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie), 2015, 51, 177-182.	0.3	13
6	Numerical Analysis of Gas Dynamic Efficiency of Short Diffusers with Internal Guiding Blades. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537 Td (M	0.3	11
7	Analysis of Thermal State of Intensely Cooled Long-Stroke Low-Speed Piston Compressor Stage. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.3	10
8	Experimental research of the operating processes Ð¾f slow-speed long-stroke oil-free reciprocating compressor stages at discharge pressures up to 10â€…MPa. AIP Conference Proceedings, 2018, , .	0.4	9
9	Verification of the operating processes calculation technique for slow speed oil-free stages of reciprocating medium-pressure compressors. AIP Conference Proceedings, 2017, , .	0.4	7
10	Development of Methods of Gas Flow Computation in Short Diffusers. Procedia Engineering, 2015, 113, 259-263.	1.2	6
11	Calculating and parametric analysis of the work of the air single-stage medium pressure reciprocating compressor of on the basis of the oil-free long-stroke slow-speed stage. AIP Conference Proceedings, 2017, , .	0.4	6
12	Analysis of the operating cycle efficiency of the long-stroke slow stage under the changing ratio of the piston forward and backward stroke time. AIP Conference Proceedings, 2018, , .	0.4	6
13	The study of the mobile compressor unit heat losses recovery system waste heat exchanger thermal insulation types influence on the operational efficiency. AIP Conference Proceedings, 2017, , .	0.4	5
14	Theoretical Analysis of Changing Gas Dynamic Characteristics of the Dust Filter with a Short Diffuser While in Operation. Procedia Engineering, 2016, 152, 270-275.	1.2	4
15	Assessment of the relationship between the law of motion of the slow-speed long-stroke stage piston and the characteristics of the compressor unit drive. AIP Conference Proceedings, 2019, , .	0.4	4
16	Experimental study of the short diffuser design influence on the efficiency of air cooled condenser. AIP Conference Proceedings, 2017, , .	0.4	3
17	Increase in efficiency of the air heat exchanger with the short diffuser for compressed air cooling. AIP Conference Proceedings, 2017, , .	0.4	3
18	Experimental Evaluation of the Efficiency of Long-Stroke, Low-Speed Reciprocating Compressor Stages in Compression of Different Gases. Chemical and Petroleum Engineering (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	0.3	3

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19	Development of a numerical method for studying heat exchange and temperature fields in a self-lubricating turbocharger bearing under cooling. AIP Conference Proceedings, 2018, , .	0.4	3
20	Assessment of faulty sealing in automatic valves with elastomer structural elements and its impact on the operating process of slow-speed reciprocating compressor stages. AIP Conference Proceedings, 2018, , .	0.4	3
21	Increase in efficiency of gas filters with a short diffuser when operating in a swirling flow. AIP Conference Proceedings, 2018, , .	0.4	3
22	Numerical analysis of gas-dynamic efficiency of the flow part of compact air heat exchangers and filters for mobile compressor units. IOP Conference Series: Materials Science and Engineering, 2019, 604, 012038.	0.6	3
23	Developing teamwork skills for students trained in compressors and refrigeration programs. IOP Conference Series: Materials Science and Engineering, 2019, 604, 012040.	0.6	3
24	Comparative Evaluation of Methods for Calculating the Dynamics of Self-Acting Valves in Reciprocating Compressor Units. Chemical and Petroleum Engineering (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537	0.3	3
25	The efficiency theoretical analysis of the ammonia refrigeration cycle based on the compression in the wet vapor region. AIP Conference Proceedings, 2020, , .	0.4	3
26	Developing of Computational Investigation Methodology of Newtonian Fluid in the Crescent-shaped Gap of Turbogenerator Oil-free Bearing. Procedia Engineering, 2015, 113, 306-311.	1.2	2
27	The Definition Limits Technique for the Efficient Regulation of the Â«Diesel Engine â€“ Pressurized TurbocompressorÂ» System for Mobile Compressor Units. Procedia Engineering, 2015, 113, 152-157.	1.2	2
28	The Efficiency Analysis for the Heat Losses Recuperation System of the Mobile Refrigeration Unit. Procedia Engineering, 2016, 152, 339-347.	1.2	2
29	Influence of Oil Injection System on Efficiency of Speed-Controlled Screw Refrigeration Compressor. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3	0.3	2
30	Influence of wall thickness and properties of structural materials on the discharge temperature and strength characteristics of slow-speed long-stroke stages. AIP Conference Proceedings, 2017, , .	0.4	2
31	The mobile compressor unit heat losses recovery system compactness improving possibility evaluation. AIP Conference Proceedings, 2017, , .	0.4	2
32	Modeling of the processes of heating organic coolant in the system of heat losses recuperation of the mobile compressor unit on the basis of a low-speed single-stage. Journal of Physics: Conference Series, 2017, 858, 012008.	0.4	2
33	Analysis of the efficiency of external cooling of slow-speed long-stroke oil-free reciprocating compressor stages with asymmetric design scheme. AIP Conference Proceedings, 2018, , .	0.4	2
34	The engineering technique for calculating the design parameters of the guides in the flowing part of gas filters short diffusers. AIP Conference Proceedings, 2018, , .	0.4	2
35	Selection of the parameters of CFD calculation model of high-pressure centrifugal compressor stage with the inlet guide vanes. AIP Conference Proceedings, 2019, , .	0.4	2
36	Influence exerted by efficiency of heat-exchange systems for gas-catalytic production on characteristics of compressor equipment. Chemical and Petroleum Engineering (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.3	1

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37	Reduction of weight-size parameters for heat-exchange equipment in mobile compressor plants. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.3	1
38	Contactless surface-temperature measurement for the rotating shaft of an unlubricated bearing. Russian Engineering Research, 2012, 32, 242-243.	0.6	1
39	Thermodynamic analysis of structural schemes of mobile compressor power plants with the system of heat loses recuparation. , 2014, , .		1
40	Theoretical analysis of short diffusers implementation efficiency in compact heat exchangers. , 2014, , .		1
41	The application efficiency analysis of the main heat carrier as the mobile compressor unit recovery system elements Â«activeÂ» thermal insulation. AIP Conference Proceedings, 2018, , .	0.4	1
42	The efficiency comparative analysis of the mobile compressor unit heat losses recovery system flow part elements thermal insulation different types. AIP Conference Proceedings, 2018, , .	0.4	1
43	The analysis of the recuperative Rankine cycle boiling pressure impact on the efficiency of the mobile compressor unit with the heat losses recovery system. AIP Conference Proceedings, 2018, , .	0.4	1
44	Experimental research of horizontal air cooling apparatus. AIP Conference Proceedings, 2019, , .	0.4	1
45	Analysis of the thermal efficiency of solid and vacuum thermal insulation in an exchanger of the heat losses recovery system in mobile compressor units. AIP Conference Proceedings, 2019, , .	0.4	1
46	Research method of high-temperature low-flow turbine units self-lubricating bearing friction units temperature deformations. AIP Conference Proceedings, 2019, , .	0.4	1
47	Experimental research of the efficiency of gas filters with a short diffuser. AIP Conference Proceedings, 2019, , .	0.4	1
48	Heat loss recovery system of the mobile compressor unit based on the absorption refrigerating machine. AIP Conference Proceedings, 2020, , .	0.4	1
49	Analysis of the applicability of schematization based on the porous zone function for the numerical calculation of the flowing part of an air filter with a short diffuser. AIP Conference Proceedings, 2020, , .	0.4	1
50	Indexing a dual-rotor compressor with nonlinear rotor synchronization. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie), 1994, 30, 10-12.	0.3	0
51	Effect of microribbing on the instantaneous convective heat transfer coefficient in the working chamber of an unlubricated piston compressor. Chemical and Petroleum Engineering (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	0
52	Constructional Design of Polymeric Cooled Bearings. Procedia Engineering, 2016, 152, 288-296.	1.2	0
53	Verification of a Numerical Technique for Investigating the Flow of a Cooling Medium in a Crescent-Shaped Gap of the Self-Lubricating Bearing of a Turbine Unit. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I Neftyanoe Mashinostroenie), 2017, 52, 620-626.	0.3	0
54	The influence analysis of cooling medium and condensation node construction for refrigeration units specifications for the oil and gas offshore supply bases. AIP Conference Proceedings, 2017, , .	0.4	0

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55	Mathematical modeling of working processes of variable frequency screw compressor with differentiated oil supply into the working chamber. IOP Conference Series: Materials Science and Engineering, 2018, 425, 012003.	0.6	0
56	The heat losses recovery system efficiency analysis of the mobile compressor unit with the additional cooling loop. AIP Conference Proceedings, 2018, , .	0.4	0
57	Increasing the efficiency of the gas filter with a short diffuser by profiling its flow part. AIP Conference Proceedings, 2019, , .	0.4	0
58	Testing of temperature pile to obtain actual cooling performance. AIP Conference Proceedings, 2019, , .	0.4	0
59	Thermodynamic analysis of the heat losses combined recovery ideal cycle of the compressor several process units. AIP Conference Proceedings, 2019, , .	0.4	0
60	Problems equilibration of aggregates on the basis of slow moving stages. Journal of Physics: Conference Series, 2019, 1260, 062026.	0.4	0
61	Implementing the principles of operating processes schematization and of performance loss distribution when designing long-stroke reciprocating compressor stages. IOP Conference Series: Materials Science and Engineering, 2021, 1180, 012016.	0.6	0
62	Multipurpose conversion of marine diesel engines when creating piston motor-compressor units. Omsk Scientific Bulletin Series Aviation-Rocket and Power Engineering, 2021, 5, 14-22.	0.0	0
63	The analysis of uncertainty factors influence on mathematical modeling of ammonia compression in wet vapor area. Omsk Scientific Bulletin Series Aviation-Rocket and Power Engineering, 2021, 5, 30-38.	0.0	0
64	Numerical analysis of the influence of the coolant pressure increase and the shell-and-tube heat exchanger outer surface isolation degree on the external heat losses value. AIP Conference Proceedings, 2020, , .	0.4	0
65	Results of CFD calculations verification of high pressure centrifugal compressor stage with inlet guide vanes. AIP Conference Proceedings, 2020, , .	0.4	0
66	Relevance of condensation temperature determination for marine vapour-compression refrigeration system with a composite cooling of condensation unit. AIP Conference Proceedings, 2020, , .	0.4	0
67	Experimental study of friction power in rotary vane machines. AIP Conference Proceedings, 2020, , .	0.4	0
68	The method of numerical calculation of the design of the guides in the flowing part of the short diffuser of the air heat exchanger. AIP Conference Proceedings, 2020, , .	0.4	0
69	Self-acting shut-off valve effect of motion law schematization on calculation quality of low-speed long-stroke air piston compressor units working process. AIP Conference Proceedings, 2020, , .	0.4	0
70	Implementation Features of Multistage Compression in Air Compressor Units Based on Low-Speed Long-Stroke Stages. Chemical and Petroleum Engineering (English Translation of Khimicheskoe I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	0.3	0
71	The effect of deformation of flow part of elastomeric elements of self-acting valves on characteristics of low-speed long-stroke compressor stages. Omsk Scientific Bulletin Series Aviation-Rocket and Power Engineering, 2021, 5, 33-38.	0.0	0
72	Increasing of energy efficiency of horizontal air cooling apparatus. AIP Conference Proceedings, 2021, , .	0.4	0

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73	Analysisof the uncertainty factors influence on the mathematical modelling of ammonia compression in the wet vapor region. AIP Conference Proceedings, 2021, , .	0.4	0
74	Assessment of the prospects for the creation of low-flow compressor units of medium and high pressure on the basis of slow-speed long-stroke stages. AIP Conference Proceedings, 2021, , .	0.4	0
75	Analysis of the influence of the elastomeric valve element deformation on the integral characteristics of a slow-speed reciprocating compressor stage. AIP Conference Proceedings, 2021, , .	0.4	0
76	Experimental study of an air two-stage compressor based on low-speed long-stroke stages. AIP Conference Proceedings, 2021, , .	0.4	0
77	Thermodynamic analysis of expansion process of screw expander in wet steam area. Omsk Scientific Bulletin Series Aviation-Rocket and Power Engineering, 2021, 5, 39-47.	0.0	0
78	The analysis of influence of uncertainty factors on mathematical modeling of process of reverse expansion of ammonia in low-speed reciprocating compressor stage. Part 1. Omsk Scientific Bulletin Series Aviation-Rocket and Power Engineering, 2022, 6, 44-54.	0.0	0