

Sergey N Shevtsov

List of Publications by Year in descending order

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48
papers

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citations

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docs citations

51
times ranked

161
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric Actuators and Generators for Energy Harvesting. Innovation and Discovery in Russian Science and Engineering, 2018, , .	0.2	27
2	Optimization of the Composite Cure Process Based on the Thermo-Kinetic Model. Advanced Materials Research, 0, 569, 185-192.	0.3	24
3	On a deformation sign for identifying defects on the basis of the analysis of the forms of the natural vibrations of a cantilever with a notch. Russian Journal of Nondestructive Testing, 2013, 49, 579-583.	0.3	17
4	Random Vibration Energy Harvesting by Piezoelectric Stack Charging the Battery. Procedia Engineering, 2016, 144, 645-652.	1.2	17
5	Two-stage numerical approach for reliable recognition of dry spots at the VAP infusion of large composite parts of complex shape. Composite Structures, 2021, 259, 113437.	3.1	12
6	Experimental and Numerical Study of Vacuum Resin Infusion for Thin-Walled Composite Parts. Applied Sciences (Switzerland), 2020, 10, 1485.	1.3	11
7	Multi-Criteria Decision Approach to Design a Vacuum Infusion Process Layout Providing the Polymeric Composite Part Quality. Polymers, 2022, 14, 313.	2.0	11
8	Modeling of vibration energy harvesting system with power PZT stack loaded on Li-Ion battery. International Journal of Hydrogen Energy, 2016, 41, 12618-12625.	3.8	9
9	Correlations between parameters of acoustic-emission signals and corrosion damage in aluminum alloys. Russian Journal of Nondestructive Testing, 2007, 43, 390-396.	0.3	8
10	Direct-Mapping-Based MIMO-FBMC Underwater Acoustic Communication Architecture for Multimedia Signals. Applied Sciences (Switzerland), 2020, 10, 233.	1.3	8
11	The energy based characteristics of sperm whale clicks using the Hilbert Huang transform analysis method. Journal of the Acoustical Society of America, 2017, 142, 504-511.	0.5	7
12	On the Directivity of Lamb Waves Generated by Wedge PZT Actuator in Thin CFRP Panel. Materials, 2020, 13, 907.	1.3	7
13	Model-based multi-objective optimization of cure process control for a large CFRP panel. Engineering Computations, 2018, 35, 1085-1097.	0.7	6
14	An approach to the problem of damage identification in an elastic rod based on the Timoshenko beam model. Russian Journal of Nondestructive Testing, 2011, 47, 480-490.	0.3	4
15	Multiobjective Pareto-Based Optimization of pMUT Hydrophone With Piezoelectric Active Diaphragm. , 2014, , .		4
16	Model-Based Optimal Control of Polymeric Composite Cure in Autoclave System. IFAC-PapersOnLine, 2015, 48, 204-210.	0.5	4
17	Piezoelectric Based Lamb Waves Generation and Propagation in Orthotropic CFRP Plates: II. Influence of Interfacial Stress Distribution. Materials Science Forum, 2019, 962, 227-235.	0.3	4
18	Piezoelectric Based Lamb Waves Generation and Propagation in Orthotropic CFRP Plates: I. Influence of Material Damping. Materials Science Forum, 0, 962, 218-226.	0.3	4

#	ARTICLE	IF	CITATIONS
19	Optimization of the Electric Power Harvesting System Based on the Piezoelectric Stack Transducer. Springer Proceedings in Physics, 2016, , 639-650.	0.1	4
20	Identification of thermoset resin cure kinetics using DSC and genetic algorithm. , 2014, , .		3
21	Material Distribution Optimization for the Shell Aircraft Composite Structure. Curved and Layered Structures, 2016, 3, .	0.5	3
22	On the Directivity of Acoustic Waves Generated by the Angle Beam Wedge Actuator in Thin-Walled Structures. Actuators, 2019, 8, 64.	1.2	3
23	Influence of the geometry and connection of electrodes on electromechanical characteristics of frequency-tuned disk piezoelectric elements. Russian Journal of Nondestructive Testing, 2006, 42, 334-339.	0.3	2
24	Structural Optimization of MEMS-Based Hydrophones with Perforated Active Membrane. Applied Mechanics and Materials, 0, 300-301, 597-603.	0.2	2
25	Optimization of wall thickness and lay-up for the shell-like composite structure loaded by non-uniform pressure field. AIP Conference Proceedings, 2017, , .	0.3	2
26	Optimized Design of the Wind Turbine's Composite Blade to Flatten the Stress Distribution in the Mounting Areas. , 2016, , 335-341.		2
27	Generalized Frequency Division Multiplexing-Based Low-Power Underwater Acoustic Image Transceiver. Sensors, 2022, 22, 313.	2.1	2
28	The Multiobjective Design Optimization of pMUT Hydrophone. Applied Mechanics and Materials, 2015, 727-728, 660-665.	0.2	1
29	Modeling and optimization of two-stage composite cure with the use open-mold tooling. , 2016, , .		1
30	HHT-Based Time-Frequency Features in the Berardius Baird Whistles. Springer Proceedings in Physics, 2016, , 687-693.	0.1	1
31	Optimal cure control synthesis for FEM model of aircraft composite part with CAD imported geometry. , 2017, , .		1
32	FEM model-based optimal control synthesis for curing a large composite structure with CAD imported geometry. MATEC Web of Conferences, 2017, 130, 07001.	0.1	1
33	Direct Mapping FBMC Based Underwater Transmission Scheme for Audio Signals. Springer Proceedings in Physics, 2019, , 651-659.	0.1	1
34	Multi-Objective Optimization of Distributed RTM (Resin Transfer Molding) Process for Curing the Large Composite Structures with Varied Thickness. Springer Proceedings in Physics, 2014, , 71-85.	0.1	1
35	Evaluation of the vacuum infusion process objectives at the early stages of computer simulation. Journal of Physics: Conference Series, 2021, 2090, 012004.	0.3	1
36	Relaxation of residual stresses caused by external cyclic loads on the basis of a kinetic approach. Soviet Materials Science, 1985, 21, 53-57.	0.0	0

#	ARTICLE	IF	CITATIONS
37	The Neural Networks Approach to Identification of Local Damages in Elastic Structures. Lecture Notes in Computer Science, 2009, , 540-547.	1.0	0
38	Distributed model based thermal control for optimal curing of the large composite structures. , 2013, , .		0
39	Multiobjective Optimization of the Cantilever Type PEG with the Added Mass. , 2018, , .		0
40	Optimization of Lay-Up Stacking for a Loaded-Carrying Slender Composite Beam. , 0, , .		0
41	Propagation of Lamb waves generated by the angle beam wedge actuator in the plastic panel. AIP Conference Proceedings, 2019, , .	0.3	0
42	Numerical Optimization of Vacuum Assisted Manufacturing of Aircraft Composite Parts Using the Predictive Assessment of Objectives. , 2021, , .		0
43	Structural Optimization of Power Flexensional Piezoelectric Actuator using FE Model and Genetic Algorithm. , 2013, , .		0
44	A Probabilistic Approach to the Crack Identification in a Beam-like Structure Using Monitored Mode Shapes and Their Curvature Data with Uncertainty. Applied Condition Monitoring, 2016, , 447-461.	0.4	0
45	IMF Features of BCI FP1 EEG Signal Using EMD Methods for Cerebral Palsy. Springer Proceedings in Physics, 2017, , 565-575.	0.1	0
46	Mathematical Modeling of Piezoelectric Generators. Innovation and Discovery in Russian Science and Engineering, 2018, , 1-32.	0.2	0
47	Direct Mapping Based FBMC-LDPC Advanced Underwater Acoustic Transmission Scheme for Data Signals. Springer Proceedings in Materials, 2020, , 597-603.	0.1	0
48	On Predictive Evaluation of Sub-Objectives for Quality Assurance of Vacuum Assisted Resin Infusion of Large Composite Structures. , 2021, , .		0