

# Sergey V Panin

## List of Publications by Year in descending order

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259  
papers

1,444  
citations

471371

17  
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642610

23  
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260  
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260  
docs citations

260  
times ranked

778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wear resistance of composites based on hybrid UHMWPEâ€“PTFE matrix: Mechanical and tribotechnical properties of the matrix. <i>Journal of Friction and Wear</i> , 2015, 36, 249-256.	0.1	35
2	Combined action of crack closure and residual stress under periodic overloads: A fractographic analysis. <i>International Journal of Fatigue</i> , 2016, 82, 667-675.	2.8	32
3	Structural fracture scales in shock-loaded epoxy composites. <i>Physical Mesomechanics</i> , 2015, 18, 58-74.	1.0	31
4	Increasing wear resistance of UHMWPE by mechanical activation and chemical modification combined with addition of nanofibers. <i>Procedia Engineering</i> , 2009, 1, 67-70.	1.2	30
5	Effect of Adhesion on Mechanical and Tribological Properties of Glass Fiber Composites, Based on Ultra-High Molecular Weight Polyethylene Powders with Various Initial Particle Sizes. <i>Materials</i> , 2020, 13, 1602.	1.3	29
6	Scale levels of damage to the raceway of a spherical roller bearing. <i>Engineering Failure Analysis</i> , 2016, 59, 69-78.	1.8	27
7	Wear resistance of composites based on ultrahigh molecular weight polyethylene filled with graphite and molybdenum disulfide microparticles. <i>Journal of Friction and Wear</i> , 2014, 35, 290-296.	0.1	26
8	Impact toughness of 12Cr1MoV steel. Part1 â€“ Influence of temperature on energy and deformation parameters of fracture. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 83, 105-113.	2.1	24
9	Effect of Operating Degradation in Arctic Conditions on Physical and Mechanical Properties of 09Mn2Si Pipeline Steel. <i>Procedia Engineering</i> , 2017, 178, 597-603.	1.2	24
10	Fatigue life improvement of 12Cr1MoV steel by irradiation with Zr+ ion beam. <i>International Journal of Fatigue</i> , 2015, 76, 3-10.	2.8	23
11	Functional role of polycrystal grain boundaries and interfaces in micromechanics of metal ceramic composites under loading. <i>Computational Materials Science</i> , 2016, 116, 74-81.	1.4	23
12	Synergy of crack closure, near-tip residual stress and crack-tip blunting in crack growth under periodic overloads â€“ A fractographic study. <i>International Journal of Fatigue</i> , 2016, 93, 18-29.	2.8	21
13	Detecting acoustic-emission signals with fiber-optic interference transducers. <i>Russian Journal of Nondestructive Testing</i> , 2017, 53, 415-421.	0.3	20
14	Simulation of Frictional Wear with Account of Temperature for Polymer Composites. <i>Physical Mesomechanics</i> , 2020, 23, 147-159.	1.0	20
15	Crack tip strain localisation on mechanics of fracture of heat resistant steel after hydrogenation. <i>Theoretical and Applied Fracture Mechanics</i> , 2013, 63-64, 63-68.	2.1	19
16	Impact toughness of 12Cr1MoV steel. Part 2 â€“ Influence of high intensity ion beam irradiation on energy and deformation parameters and mechanisms of fracture. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 83, 82-92.	2.1	19
17	The role of nanoscale strain-induced defects in the sharp increase of low-temperature toughness in low-carbon and low-alloy steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 768, 138491.	2.6	19
18	Taguchi Optimization of Parameters for Feedstock Fabrication and FDM Manufacturing of Wear-Resistant UHMWPE-Based Composites. <i>Materials</i> , 2020, 13, 2718.	1.3	19

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19	Increasing Wear Resistance of UHMWPE by Loading Enforcing Carbon Fibers: Effect of Irreversible and Elastic Deformation, Friction Heating, and Filler Size. <i>Materials</i> , 2020, 13, 338.	1.3	19
20	Influence of deformation process in material at multiple cracking and fragmentation of nanocoating. <i>Theoretical and Applied Fracture Mechanics</i> , 2012, 57, 43-48.	2.1	18
21	ENHANCING PERFORMANCE CHARACTERISTICS OF EQUIPMENT OF SEA AND RIVER TRANSPORT BY USING EPOXY COMPOSITES. <i>Transport</i> , 2016, 31, 333-342.	0.6	17
22	Effect of mechanical activation of ultra-high-molecular-weight polyethylene on its mechanical and triboengineering properties. <i>Journal of Friction and Wear</i> , 2010, 31, 121-127.	0.1	15
23	Comparison of the efficiency of modification of SHMPE by nanofibers (C, Al <sub>2</sub> O <sub>3</sub> ) and nanoparticles (Cu, SiO <sub>2</sub> ) when obtaining antifriction composites. <i>Journal of Friction and Wear</i> , 2010, 31, 460-468.	0.1	15
24	Influence of long-term cold climate operation on structure, fatigue durability and impact toughness of 09Mn2Si pipe steel. <i>Engineering Failure Analysis</i> , 2019, 102, 87-101.	1.8	15
25	Mesomechanics of multiple cracking of brittle coatings in a loaded solid. <i>International Journal of Fracture</i> , 2008, 150, 37-53.	1.1	14
26	Structural and mechanical defects of materials of offshore and onshore main gas pipelines after long-term operation. <i>Open Engineering</i> , 2015, 5, .	0.7	14
27	The role of notch tip shape and radius on deformation mechanisms of 12Cr1MoV steel under impact loading. Part 1. Energy parameters of fracture. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 586-596.	1.7	14
28	Influence of energy dissipation at the interphase boundaries on impact fracture behaviour of a plain carbon steel. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 97, 478-499.	2.1	14
29	Structural Scale Levels of Plastic Deformation and Fracture of High-Strength Titanium Alloy Welds. <i>Physical Mesomechanics</i> , 2018, 21, 464-474.	1.0	14
30	Effect of Nanoscale Mesoscopic Structural States Associated with Lattice Curvature on the Mechanical Behavior of Fe-Cr-Mn Austenitic Steel. <i>Physical Mesomechanics</i> , 2019, 22, 382-391.	1.0	14
31	A Unified Approach to Determining the Effective Physicomechanical Characteristics of Filled Polymer Composites Based on Variational Principles. <i>Mechanics of Composite Materials</i> , 2019, 54, 775-788.	0.9	14
32	Scale levels of quasi-static and dynamic fracture behavior of Ti-6Al-4V parts built by various additive manufacturing methods. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 110, 102781.	2.1	14
33	High Performance Polymer Composites: A Role of Transfer Films in Ensuring Tribological Properties—A Review. <i>Polymers</i> , 2022, 14, 975.	2.0	14
34	Multiscale monitoring of localized plastic strain evolution stages in notched aluminum AA 2024 alloy tension specimens by acoustic emission and television-optical techniques. <i>Physical Mesomechanics</i> , 2010, 13, 203-211.	1.0	13
35	Abrasive wear of micro- and nanocomposites based on super-high-molecular polyethylene (SHMPE). Part 1. Composites based on shmpe filled with microparticles AlO(OH) and Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Friction and Wear</i> , 2012, 33, 381-387.	0.1	13
36	Structural levels of fatigue failure and damage estimation in 17Mn1Si steel on the basis of a multilevel approach of physical mesomechanics. <i>Acta Mechanica</i> , 2016, 227, 151-157.	1.1	13

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37	The physical basics of structure formation in electroexplosive coatings. Doklady Physics, 2017, 62, 67-70.	0.2	13
38	Mechanical Properties of Gas Main Steels after Long-Term Operation and Peculiarities of Their Fracture Surface Morphology. Materials, 2019, 12, 491.	1.3	13
39	The effect of annealing of milled carbon fibers on the mechanical and tribological properties of solid-lubricant thermoplastic polyimide-based composites. Polymer Engineering and Science, 2020, 60, 2735-2748.	1.5	13
40	Effect of Various Type of Nanoparticles on Mechanical and Tribological Properties of Wear-Resistant PEEK + PTFE-Based Composites. Materials, 2021, 14, 1113.	1.3	13
41	Deformation Behavior and Fracture Patterns of Laminated PEEK- and PI-Based Composites with Various Carbon-Fiber Reinforcement. Polymers, 2021, 13, 2268.	2.0	13
42	Fatigue damage evaluation of carbon fiber composite using aluminum foil based strain sensors. Engineering Fracture Mechanics, 2014, 129, 45-53.	2.0	12
43	Fatigue life enhancement by irradiation of 12Cr1MoV steel with a Zr+ ion beam. Mesoscale deformation and fracture. Physical Mesomechanics, 2015, 18, 261-272.	1.0	12
44	Applying an Ultrasonic Lamb Wave Based Rechnique to Testing the Condition of V96ts3T12 Aluminum Alloy. Russian Journal of Nondestructive Testing, 2017, 53, 817-829.	0.3	12
45	Scale levels of deformation and fracture and mechanical properties of 25Cr1MoV steel before and after nonisothermal loading. Physical Mesomechanics, 2011, 14, 57-65.	1.0	11
46	Effects of plastic distortion in the lattice curvature zone of a crack tip. Physical Mesomechanics, 2017, 20, 280-290.	1.0	11
47	Structure of electro-explosion resistant coatings consisting of immiscible components. Materials Letters, 2017, 188, 25-28.	1.3	11
48	Wear-resistant polyetheretherketone composites. Materials Today: Proceedings, 2018, 5, 25976-25982.	0.9	11
49	Experimental FEM Study on Effect of Tribological Load Conditions on Wear Resistance of Three-Component High-Strength Solid-Lubricant PI-Based Composites. Polymers, 2021, 13, 2837.	2.0	11
50	Estimating Low- and High-Cyclic Fatigue of Polyimide-CF-PTFE Composite through Variation of Mechanical Hysteresis Loops. Materials, 2022, 15, 4656.	1.3	11
51	Staging of a localized deformation during tension of specimens of a carbon-carbon composite material with holes of different diameters according to acoustic-emission, surface-deformation mapping, and strain-gauging data. Russian Journal of Nondestructive Testing, 2012, 48, 598-608.	0.3	10
52	Role of Micro- and Nanofillers in Abrasive Wear of Composites Based on Ultra-High Molecular Weight Polyethylene. Advanced Materials Research, 0, 1040, 148-154.	0.3	10
53	STRUCTURAL LEVELS OF THE NUCLEATION AND GROWTH OF FATIGUE CRACK IN 17MN1SI STEEL PIPELINE AFTER LONG-TERM SERVICE. Transport, 2015, 30, 15-23.	0.6	10
54	Experimental investigation of friction and wear of Mo ion implanted ferritic/pearlitic steel. Surface and Coatings Technology, 2002, 158-159, 674-679.	2.2	9

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55	Temperature effect on impact fracture of 25CrMoV ferrite-pearlite steel. <i>Physical Mesomechanics</i> , 2011, 14, 185-194.	1.0	9
56	Material fragmentation as dissipative process of micro rotation sequence formation: Hybrid model of excitable cellular automata. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	9
57	Nano- and Micro-Structured UHMWPE Composites Filled With Hydroxyapatite Irradiated by Nitrogen Ion Beams for Bio-Medical Applications. <i>Russian Physics Journal</i> , 2014, 56, 1137-1143.	0.2	9
58	Mechanisms of elastic energy dissipation in the transition layer between a coating and a substrate under contact interaction. <i>Journal of Applied Mechanics and Technical Physics</i> , 2014, 55, 318-326.	0.1	9
59	Numerical and Experimental Study of Strain Localization in Notched Specimens of a Ductile Steel on Meso- and Macroscales. <i>Advanced Engineering Materials</i> , 2016, 18, 2095-2106.	1.6	9
60	Impact of Dynamic Non-Equilibrium Processes on Fracture Mechanisms of High-Strength Titanium Alloy VT23. <i>Metals</i> , 2018, 8, 983.	1.0	9
61	Structure, as well as the Tribological and Mechanical Properties, of Extrudable Polymer-Polymer/UHMWPE Composites for 3D Printing. <i>Journal of Friction and Wear</i> , 2019, 40, 107-115.	0.1	9
62	Increasing Fatigue Life of 09Mn2Si Steel by Helical Rolling: Theoretical and Experimental Study on Governing Role of Grain Boundaries. <i>Materials</i> , 2020, 13, 4531.	1.3	9
63	Material Design Methodology for Optimized Wear-Resistant Thermoplastic Matrix Composites Based on Polyetheretherketone and Polyphenylene Sulfide. <i>Materials</i> , 2020, 13, 524.	1.3	9
64	Nanoscale Mesoscopic Structural States in Low-Alloy Steels for Martensitic Phase Formation and Low-Temperature Toughness Enhancement. <i>Physical Mesomechanics</i> , 2020, 23, 376-383.	1.0	9
65	Mesoscale deformation and cracking of surface-hardened low carbon steel. <i>Theoretical and Applied Fracture Mechanics</i> , 2000, 34, 117-121.	2.1	8
66	Comparative analysis of the influence of nano- and microfillers of oxidized Al on the frictional-mechanical characteristics of UHMWPE. <i>Journal of Friction and Wear</i> , 2010, 31, 371-377.	0.1	8
67	Antifriction nanocomposites based on chemically modified UHMWPE. Part 1. Mechanical and tribological properties of chemically modified UHMWPE. <i>Journal of Friction and Wear</i> , 2011, 32, 199-204.	0.1	8
68	Antifrictional composites based on chemically modified UHMWPE. Part 2. The effect of nanofillers on the mechanical and triboengineering properties of chemically modified UHMWPE. <i>Journal of Friction and Wear</i> , 2011, 32, 269-275.	0.1	8
69	Application of aluminum foil for strain sensing at fatigue damage evaluation of carbon fiber composite. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 59-64.	2.0	8
70	Segmentation and Statistical Processing of Geometric and Spatial Data on Self-Organized Surface Relief of Statically Deformed Aluminum Alloy. <i>Applied Mechanics and Materials</i> , 0, 770, 288-293.	0.2	8
71	Effect of long-term operation on steels of main gas pipeline. Reduction of static fracture toughness. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 38, 182-186.	2.1	8
72	Multiscaling of lattice curvature on friction surfaces of metallic materials as a basis of their wear mechanism. <i>Physical Mesomechanics</i> , 2017, 20, 69-77.	1.0	8

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73	The role of notch tip shape and radius on deformation mechanisms of 12Cr1MoV steel under impact loading. Part 2. Influence of strain localization on fracture and numeric simulations. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 1838-1853.	1.7	8
74	Development of a Wear-Resistant Extrudable Composite Material Based on an Ultrahigh-Molecular Polyethylene with Predetermined Properties. <i>Mechanics of Composite Materials</i> , 2020, 56, 15-26.	0.9	8
75	Effect of Transfer Film on Tribological Properties of Anti-Friction PEI- and PI-Based Composites at Elevated Temperatures. <i>Polymers</i> , 2022, 14, 1215.	2.0	8
76	Mesoscale measurement of strains by analyzing optical images of the surface of loaded solids. <i>Journal of Applied Mechanics and Technical Physics</i> , 2006, 47, 905-910.	0.1	7
77	Mechanical and tribological characteristics of nano- and microcomposites with UHMWPEâ€“PTFE polymerâ€“polymer matrix. <i>Journal of Friction and Wear</i> , 2015, 36, 502-508.	0.1	7
78	Comparative Analysis of Tribological and Mechanical Properties of Extrudable Polymerâ€“Polymer UHMWPE Composites Fabricated by 3D Printing and Hot-Pressing Methods. <i>Journal of Friction and Wear</i> , 2020, 41, 228-235.	0.1	7
79	Increasing the fatigue life of 12Cr1MoV steel by surface nanostructuring with a Zr+ ion beam. Structure, properties, and fracture pattern. <i>Physical Mesomechanics</i> , 2013, 16, 170-182.	1.0	6
80	Surface Layer Modification of 12Cr1MoV and 30CrMnSiNi2 Steels by Zr+ Ion Beam to Improve the Fatigue Durability. <i>Procedia Technology</i> , 2015, 19, 313-319.	1.1	6
81	Aluminum Foil Based Fatigue Sensor for Structural Health Monitoring of Carbon Fiber Composites. <i>Procedia Technology</i> , 2015, 19, 307-312.	1.1	6
82	Analysis and automated fatigue damage evaluation of a 17Mn1Si pipeline steel. <i>Procedia Structural Integrity</i> , 2016, 2, 1928-1935.	0.3	6
83	Effect of Temperature-Force Factors and Concentrator Shape on Impact Fracture Mechanisms of 17Mn1Si Steel. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-12.	1.0	6
84	Effect of long-term operation on steels of main gas pipeline: Structural and mechanical degradation. <i>Journal of King Saud University, Engineering Sciences</i> , 2018, 30, 363-367.	1.2	6
85	Design of Wear-Resistant UHMWPE-Based Composites Loaded with Wollastonite Microfibers Treated with Various Silane Coupling Agents. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4511.	1.3	6
86	Impact Damage Detection in Laminate and Honeycomb CFRPs using Lamb Wave Ultrasonic Sensing. <i>Russian Journal of Nondestructive Testing</i> , 2021, 57, 114-124.	0.3	6
87	Increasing Low-Temperature Toughness of 09Mn2Si Steel through Lamellar Structuring by Helical Rolling. <i>Metals</i> , 2021, 11, 352.	1.0	6
88	Numerical simulation of deformation and fracture in low-carbon steel coated by diffusion borating. <i>Theoretical and Applied Fracture Mechanics</i> , 2004, 41, 9-14.	2.1	5
89	Staging of a localized plastic deformation during extension of D16AT alloy specimens based on the data of acoustic emission, mapping of surface deformations, and strain gauging. 1. Specimens with holes of different diameters. <i>Russian Journal of Nondestructive Testing</i> , 2011, 47, 611-622.	0.3	5
90	Selection of parameters of the three-dimensional recursive search algorithm in constructing displacement vector fields with the use of the hierarchical approach. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2015, 51, 124-133.	0.2	5

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91	The structure and mechanical properties of VT23 laser-welded joints. AIP Conference Proceedings, 2016, , .	0.3	5
92	Influence of Nano- and Microfillers on the Mechanical and Tribotechnical Properties of UHMWPE-PTFE Composites. Key Engineering Materials, 2016, 712, 161-165.	0.4	5
93	Regularities of Impact Failure of Epoxy Composites with Al <sub>2</sub> O <sub>3</sub> Microfiller and their Analysis on the Basis of External Surface Layer Concept. Key Engineering Materials, 0, 712, 149-154.	0.4	5
94	Improvement of Wear Resistance of UHMWPE by Adding Solid Lubricating Fillers. Key Engineering Materials, 2016, 712, 155-160.	0.4	5
95	Fracture investigation of V-notch made of tungsten-copper functionally graded materials. Physical Mesomechanics, 2017, 20, 457-464.	1.0	5
96	Evaluation of dynamic fracture toughness parameters of locomotive axle steel by instrumented Charpy impact test. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 512-522.	1.7	5
97	Stress-Strain State in a Buckled Thermal Barrier Coating on an Elastic Substrate. Physical Mesomechanics, 2018, 21, 498-507.	1.0	5
98	The Effect of Physical-Chemical Nature of UHMWPE and PPS Thermoplastic Matrices on the Formation of Mechanical and Tribological Properties of their Carbon Fiber Filled Composites. Russian Physics Journal, 2020, 63, 554-562.	0.2	5
99	Effect of Shock and Vibration Loading on the Fracture Mechanisms of a VT23 Titanium Alloy. Strength of Materials, 2020, 52, 252-261.	0.2	5
100	Influence of mechanical activation, ion implantation, and filler type on the formation of a transfer film in tribounits of UHMWPE-based composites. Mechanics of Composite Materials, 2011, 47, 513-520.	0.9	4
101	Abrasive wear of micro- and nanocomposites based on ultra-high-molecular-weight polyethylene (UHMWPE): Part 2. composites based on UHMWPE filled by nanoparticles and nanofibers. Journal of Friction and Wear, 2012, 33, 453-459.	0.1	4
102	Modification of the structure of powder coatings on nickel and chromium-nickel bases by introducing nanoparticles of titanium diboride during electron-beam welding. Russian Journal of Non-Ferrous Metals, 2013, 54, 112-117.	0.2	4
103	Mechanical and Tribotechnical Characteristics of Nanocomposites Based on Mixture of Ultrahigh Molecular Weight Polyethylene and Polypropylene. Advanced Materials Research, 2013, 872, 36-44.	0.3	4
104	Smoothing of vector fields by using the Bezier surface for strain estimation by the method of digital image correlation. Optoelectronics, Instrumentation and Data Processing, 2014, 50, 61-67.	0.2	4
105	A multilevel analysis of deformation and fracture of filled polymeric coatings for tribotechnical application. Engineering Fracture Mechanics, 2014, 130, 75-82.	2.0	4
106	Physical and Chemical Aspects of Formation of Epoxy Composite Material with Microfilling Agent. Key Engineering Materials, 0, 712, 143-148.	0.4	4
107	Computer simulation of material behavior at the notch tip: Effect of microrotations on elastic energy release. AIP Conference Proceedings, 2016, , .	0.3	4
108	Effect of the mesh size of the vector displacement field on the strain estimate in the digital image correlation method. Journal of Applied Mechanics and Technical Physics, 2017, 58, 425-434.	0.1	4

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109	Effect of Structural Heterogeneity of 17Mn1Si Steel on the Temperature Dependence of Impact Deformation and Fracture. <i>Metals</i> , 2017, 7, 280.	1.0	4
110	Algorithm for J-integral measurement by digital image correlation method. , 2018, , .		4
111	UHMWPE-Based Glass-Fiber Composites Fabricated by FDM. Multiscale Aspects of Design, Manufacturing and Performance. <i>Materials</i> , 2021, 14, 1515.	1.3	4
112	Multi-purpose fatigue sensor. Part 1. Uniaxial and multiaxial fatigue. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 198-204.	0.5	4
113	Effect of surface hardened borated layer on plastic deformation behaviour at mesolevel of structural 15N3MA AND ST 3 steels. , 0, , .		3
114	Automated system for registration, processing and analysis of acoustic emission signals under deformation and fracture. , 2008, , .		3
115	Calculation of mesoscopic strain characteristics for the study of the behavior of porous ceramics under uniaxial compression. <i>Physical Mesomechanics</i> , 2009, 12, 141-149.	1.0	3
116	A mesomechanical analysis of short-fiberreinforced composites with account of the interphase layer. <i>Mechanics of Composite Materials</i> , 2012, 48, 171-178.	0.9	3
117	Antifrictional nanocomposites based on chemically modified UHMWPE. Part 3. Comparison of modification effect of compatibilizers on mechanical and tribotechnical properties. <i>Journal of Friction and Wear</i> , 2012, 33, 47-52.	0.1	3
118	Efficiency of vector field filtration algorithms in estimating material strain by the method of digital image correlation. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2013, 49, 155-163.	0.2	3
119	Application of the fractal dimension for estimating surface images obtained by various detectors. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2013, 49, 34-40.	0.2	3
120	Zr <sup>+</sup> Ion-Beam Surface Treatment of 30CrMnSiNi2 Steel for Improving its Fatigue Durability. <i>Advanced Materials Research</i> , 0, 872, 219-224.	0.3	3
121	Investigation of various criteria for evaluation of aluminum thin foil "smart sensors" images. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 66, 012024.	0.3	3
122	Stress-strain state and loss of stability of anisotropic thermal coating under thermal shock. , 2014, , .		3
123	Application of integral-type deformation pickups for evaluating the fatigue damage of carbon composites. <i>Russian Journal of Nondestructive Testing</i> , 2014, 50, 288-298.	0.3	3
124	Functionalized Composite Coatings Based on Filled Powder Paint Processed in Planetary Ball Mill. <i>Applied Mechanics and Materials</i> , 0, 770, 93-98.	0.2	3
125	Development of high resolution shearography device for non-destructive testing of composite materials. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	3
126	Defectometry Analysis of Surface Condition Damaged with Corrosion Pitting. <i>Materials Science Forum</i> , 2015, 818, 153-157.	0.3	3



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127	The investigation of ultrasonic mechanical forging influence on the structure and mechanical properties of VT23 welded joints by methods of laser and electron beam welding. AIP Conference Proceedings, 2016, , .	0.3	3
128	Fatigue failure stages of VT1-0 titanium in different structural states. Study by acoustic emission method. AIP Conference Proceedings, 2016, , .	0.3	3
129	DIC Study of Fatigue Crack Growth after Single Overloads and Underloads. Procedia Structural Integrity, 2017, 5, 889-895.	0.3	3
130	Algorithm of fatigue crack detection and determination of its tip position in optical images. Optoelectronics, Instrumentation and Data Processing, 2017, 53, 237-244.	0.2	3
131	Mechanical Characterization of Composite Coatings Formed by Reactive Detonation Spraying of Titanium. Metals, 2017, 7, 355.	1.0	3
132	Thermocatalytic transformation of heavy residual feedstock in the presence of polyoxomolybdate compounds. AIP Conference Proceedings, 2018, , .	0.3	3
133	Acoustic emission study on the effect of notch shape and temperature on elastic energy release during impact testing of 17Mn1Si pipe steel. Engineering Fracture Mechanics, 2019, 210, 288-299.	2.0	3
134	Computer-Aided Design of the Composition of Extrudable Polymerâ€“Polymer UHMWPE Composites with Specified Antifriktion and Mechanical Properties. Journal of Friction and Wear, 2019, 40, 501-510.	0.1	3
135	Improving mechanical properties of wireâ€“based EBAM <scp>Tiâ€“6Alâ€“4V</scp> parts by adding <scp>TiC</scp> powders. Material Design and Processing Communications, 2021, 3, e136.	0.5	3
136	Stability Loss and Delamination of a Thermal Barrier Coating from the Substrate under Heat Loads. Physical Mesomechanics, 2021, 24, 269-281.	1.0	3
137	A Method for Predicting the Parameters of Plastic Deformation of Dispersedly Reinforced Materials by Using a Modified Moriâ€“Tanaka Model. Mechanics of Composite Materials, 2021, 57, 153-160.	0.9	3
138	DEFORMATION AND ENERGY PARAMETERS OF FRACTURE OF STEEL OF THE MAIN GAS PIPELINE. Advances in Science and Technology Research Journal, 2015, 9, 40-46.	0.4	3
139	Effect of adhesion on mechanical properties of polyetheretherketone based laminated composites reinforced with carbon fibers. Procedia Structural Integrity, 2021, 32, 334-339.	0.3	3
140	Plastic deformation and fracture caused by coating-substrate mismatch at mesoscale. Theoretical and Applied Fracture Mechanics, 2001, 35, 1-8.	2.1	2
141	Investigation of Fatigue Damage of 20Kh13 Structural Steel and its Compositions with Fused Coatings by the Free Vibration Method. Russian Journal of Nondestructive Testing, 2003, 39, 523-535.	0.3	2
142	Quasidynamic compaction of a mesostructural material with inclusions reinforced by nanocrystalline particles. Physical Mesomechanics, 2009, 12, 94-100.	1.0	2
143	Staging of a localized plastic deformation upon the tension of Ð”16AT alloy specimens on the basis of acoustic emission, surface deformation mapping, and strain gauging data. II. Specimens with notches of different depths. Russian Journal of Nondestructive Testing, 2011, 47, 815-823.	0.3	2
144	Investigation of deformation and fracture by acoustic emission data, correlation of digital images, and strain measurements. Inorganic Materials, 2012, 48, 1369-1378.	0.2	2

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145	Simulation of the stress-strain state and stability loss of a thermal barrier coating under thermal shock. <i>Physical Mesomechanics</i> , 2012, 15, 104-111.	1.0	2
146	Brittle or Quasi-Brittle Fracture of Engineering Materials: Recent Developments and New Challenges. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-2.	1.0	2
147	Antistatic Composite Coatings on the Basis of Powder Paints. <i>Advanced Materials Research</i> , 0, 1040, 3-7.	0.3	2
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