

# Yuri V Petrov

## List of Publications by Year in descending order

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190  
papers

1,758  
citations

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193  
all docs

193  
docs citations

193  
times ranked

496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural-Temporal Peculiarities of Dynamic Deformation of Layered Materials. <i>Materials</i> , 2022, 15, 4271.	2.9	0
2	Instability effects of the dynamic crack propagation process. <i>Engineering Fracture Mechanics</i> , 2021, 242, 107438.	4.3	10
3	Effect of Impact Time Parameters on the Dynamic Strength in Spall Fracture. <i>Physical Mesomechanics</i> , 2021, 24, 9-13.	1.9	6
4	Simulation of Dynamic Crack Initiation Based on the Peridynamic Numerical Model and the Incubation Time Criterion. <i>Technical Physics</i> , 2021, 66, 422-425.	0.7	2
5	Mode Localization and Eigenfrequency Curve Veerings of Two Overhanged Beams. <i>Micromachines</i> , 2021, 12, 324.	2.9	3
6	Stabilisation effect of strain hysteresis loop for steel 45. <i>International Journal of Fatigue</i> , 2021, 145, 106133.	5.7	2
7	The Influence of Background Ultrasonic Field on the Strength of Adhesive Zones under Dynamic Impact Loads. <i>Materials</i> , 2021, 14, 3188.	2.9	4
8	Randomized approach to determine dynamic strength of ice. <i>Cybernetics and Physics</i> , 2021, , .	0.3	0
9	Fracture of saturated concrete and rocks under dynamic loading. <i>Engineering Fracture Mechanics</i> , 2020, 225, 106265.	4.3	14
10	Instability of Critical and Geometric Characteristics of the Fracture Zone under Spall Conditions. <i>Mechanics of Solids</i> , 2020, 55, 324-331.	0.7	1
11	Temporal Characteristics of Failure in High-Speed Tests. <i>Doklady Physics</i> , 2020, 65, 255-257.	0.7	0
12	Effect of Dynamic Strength of a Material on Its Erosion Resistance. <i>Physics of the Solid State</i> , 2020, 62, 1737-1740.	0.6	1
13	Peridynamic modelling of the dynamic crack initiation. <i>Procedia Structural Integrity</i> , 2020, 28, 1650-1654.	0.8	5
14	Strain Rate Dependences of the Critical Stresses in Aluminum Al-Mg Alloys upon Impact Loads. <i>Physics of the Solid State</i> , 2020, 62, 1967-1972.	0.6	0
15	Instability of critical characteristics of crack propagation. <i>Acta Mechanica</i> , 2020, 232, 1997.	2.1	4
16	Dynamic fracture effects observed in a one-dimensional discrete mechanical system. <i>E3S Web of Conferences</i> , 2020, 157, 01020.	0.5	6
17	Experimental and numerical analysis of PMMA impact fracture. <i>International Journal of Impact Engineering</i> , 2020, 143, 103597.	5.0	16
18	Delamination of the Planar Adhesion Zone under Combined Dynamic Actions. <i>Technical Physics</i> , 2020, 65, 68-72.	0.7	0

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19	Adhesive Joint Fracture Under Combined Pulsed and Vibrational Loading. Structural Integrity, 2020, , 100-105.	1.4	2
20	Dynamic fracture effects observed in discrete mechanical systems. Procedia Structural Integrity, 2020, 28, 2168-2173.	0.8	6
21	Eigenfrequency loci crossings, veerings and mode splittings of two cantilevers coupled by an overhang. Journal of Physics Communications, 2020, 4, 085010.	1.2	3
22	Effect of Plastic Strain Stabilization under Low-Cycle Deformation. Physical Mesomechanics, 2020, 23, 384-389.	1.9	5
23	Dynamic Strength Analysis of Bitumen Binders for Asphalt Concrete Mixtures in Terms of the Fracture Incubation Time Criterion. Physical Mesomechanics, 2020, 23, 538-546.	1.9	2
24	Instabilities encountered in the dynamic crack propagation process under impact loading as a natural consequence of the dynamic fracture discreteness. Procedia Structural Integrity, 2020, 28, 1975-1980.	0.8	2
25	Effects of dynamic deformation and fracture in the Klein – Gordon stress field. Procedia Structural Integrity, 2020, 28, 1303-1309.	0.8	0
26	Calculation of fracture location in multiple spalling. Procedia Structural Integrity, 2020, 28, 2026-2031.	0.8	0
27	Spatial and Temporal Discreteness as a Crucial Property of the Dynamic Fracture Process. Mechanics of Solids, 2020, 55, 673-678.	0.7	0
28	The Influence of Defects and Inclusions on Capacity for Work of Thin Plates. Structural Integrity, 2019, , 268-272.	1.4	0
29	Ultrasonically assisted drilling in marble. Journal of Sound and Vibration, 2019, 460, 114880.	3.9	8
30	Effect of the Mass Fraction of Ice on the Strain Rate Dependence of Strength under Dynamic Fracture of Frozen Soil. Journal of Applied Mechanics and Technical Physics, 2019, 60, 533-538.	0.5	2
31	Comprehensive Study of Sandstone Dynamic Strength Based on the Incubation Time Criterion. Journal of Applied Mechanics and Technical Physics, 2019, 60, 539-547.	0.5	1
32	The Strain-Rate Sensitivity of Irreversible Deformation of the Metallic Multilayer Composite GLARE. Doklady Physics, 2019, 64, 340-343.	0.7	1
33	Strength Performance of 1230 Aluminum Alloy under Tension in the Quasi-Static and Dynamic Ranges of Loading Parameters. Technical Physics, 2019, 64, 620-624.	0.7	4
34	Modeling the Time Effects of Irreversible Deformation Based on the Relaxation Plasticity Model. Physics of the Solid State, 2019, 61, 935-940.	0.6	4
35	Experimental Evaluation of Structural and Temporal Characteristics of Material Fracture Based on Magnetic Pulse Loading of Ring Samples. Technical Physics, 2019, 64, 642-646.	0.7	4
36	Effect of Ultrafine-Grained Structure of a Material on the Strength Characteristics of an Aluminum Alloy upon Impact Loads. Physics of the Solid State, 2019, 61, 1062-1066.	0.6	5

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37	Dynamic Strength Characteristics of Materials: Influence of the Specimen Size on Strain Rate. Technical Physics, 2019, 64, 523-526.	0.7	4
38	Experimental observation and numerical modelling of unstable behaviour of a fast crack velocity. Theoretical and Applied Fracture Mechanics, 2019, 101, 53-58.	4.7	14
39	Experimental and theoretical analysis of solid particle erosion of a steel compressor blade based on incubation time concept. Engineering Failure Analysis, 2018, 87, 15-21.	4.0	37
40	Prediction of the Dynamic Yield Strength of Metals Using Two Structural-Temporal Parameters. Physics of the Solid State, 2018, 60, 244-249.	0.6	11
41	The Effect of Grain Refinement on Solid Particle Erosion of Grade 5 Ti Alloy. Journal of Materials Engineering and Performance, 2018, 27, 3054-3059.	2.5	4
42	Threshold characteristics of short-pulsed loads combined with the ultrasound field causing dynamic delamination of adhesive joints. Theoretical and Applied Mechanics Letters, 2018, 8, 28-31.	2.8	2
43	Understanding of Rock Material Behavior Under Dynamic Loadings Based on Incubation Time Criteria Approach. Springer Geology, 2018, , 233-248.	0.3	1
44	Strength of the Ti-6Al-4V Titanium Alloy under Conditions of Impact and Short Pulse Loading. Physics of the Solid State, 2018, 60, 2358-2362.	0.6	3
45	Comparative Analysis of Dynamic Plasticity Models. Reviews on Advanced Materials Science, 2018, 57, 199-211.	3.3	12
46	Temporal effects of dynamic yielding under high-rate loading. Procedia Structural Integrity, 2018, 13, 700-704.	0.8	0
47	Dependence of strength characteristics of aluminum alloys on strain rate under tension. Procedia Structural Integrity, 2018, 13, 886-889.	0.8	2
48	Relation between structure of metallic materials and fracture properties under conditions of solid particle erosion. Procedia Structural Integrity, 2018, 13, 1359-1361.	0.8	0
49	Rupture of copper rings by a magnetic-pulse method over a wide range of loading times. Procedia Structural Integrity, 2018, 13, 1373-1377.	0.8	0
50	Structural-time nature of the dynamic instability of the fracture process. Procedia Structural Integrity, 2018, 13, 1620-1625.	0.8	1
51	Dynamic Deformation and Fracture Toughness of Pipe Steel. Procedia Structural Integrity, 2018, 13, 1811-1816.	0.8	3
52	The water-saturation effect for concretes and rocks subjected to high strain rates. Procedia Structural Integrity, 2018, 13, 705-709.	0.8	1
53	Relations between Parameters of Fracture Processes on Different Scale Levels. Doklady Physics, 2018, 63, 459-461.	0.7	0
54	Structural-Temporal Peculiarities of Dynamic Deformation of Nanostructured and Nanoscaled Metals. Physics of the Solid State, 2018, 60, 1813-1820.	0.6	9

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55	Effect of Pulse Shape on Spall Strength. Journal of Applied Mechanics and Technical Physics, 2018, 59, 303-309.	0.5	8
56	On the Possibility of Using the Method of Sign-Perturbed Sums for the Processing of Dynamic Test Data. Vestnik St Petersburg University: Mathematics, 2018, 51, 23-30.	0.4	9
57	Experimental and numerical analysis of the high-speed deformation and erosion damage of the titanium alloy VT-6. Physics of the Solid State, 2017, 59, 93-97.	0.6	4
58	On some principal features of data processing of spall fracture tests. Physics of the Solid State, 2017, 59, 310-315.	0.6	3
59	Dynamic fracture of the surface of an aluminum alloy under conditions of high-speed erosion. Physics of the Solid State, 2017, 59, 661-666.	0.6	2
60	High-rate erosion of Ti-6Al-4V ultrafine-grained titanium alloy obtained via intensive plastic torsional deformation. Physics of the Solid State, 2017, 59, 1794-1797.	0.6	2
61	Estimate of the limit displacement wave amplitude in the dynamic problem on an out-of-plane crack. Mechanics of Solids, 2017, 52, 397-406.	0.7	1
62	Prediction of the effect of plastic-strain stabilization under cyclic deformation based on the structural-temporal approach. Doklady Physics, 2017, 62, 475-477.	0.7	2
63	Failure-delay effect in destruction of steel samples under spalling conditions. Technical Physics, 2017, 62, 547-552.	0.7	7
64	Structural-time and pulse characteristics of dynamic fracture of some construction materials. Doklady Physics, 2017, 62, 27-29.	0.7	0
65	Structural and temporal features of high-rate deformation of metals. Doklady Physics, 2017, 62, 102-105.	0.7	2
66	Dynamic failure of dry and fully saturated limestone samples based on incubation time concept. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 125-134.	8.1	52
67	Application of nonlocal criteria for destruction in problems with a nonuniform stress field. Physics of the Solid State, 2017, 59, 1594-1599.	0.6	0
68	The structural temporal approach to dynamic and quasi-static strength of rocks and concrete. Procedia Structural Integrity, 2017, 6, 34-39.	0.8	3
69	The definition of flow stress under dynamic loading based on relaxation model of plasticity. Procedia Structural Integrity, 2017, 6, 77-82.	0.8	0
70	Experimental investigation of dynamic crack propagation in PMMA plates. Procedia Structural Integrity, 2017, 6, 83-89.	0.8	3
71	Structural-temporal approach and geometry of the fracture zone in spalling. Procedia Structural Integrity, 2017, 6, 134-139.	0.8	0
72	The investigations of the dynamics of fracture of brittle media on the basis of experimental data and theoretical analysis. Procedia Structural Integrity, 2017, 6, 161-167.	0.8	1

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73	Behavior of the grade 5 titanium alloy in different structural states in conditions of high-speed erosion. Procedia Structural Integrity, 2017, 6, 190-195.	0.8	7
74	On the temporal peculiarities of stabilization effect under cyclic deformation for steel. Procedia Structural Integrity, 2017, 6, 265-268.	0.8	0
75	Sign-perturbed sums approach for data treatment of dynamic fracture tests. , 2017, , .		4
76	The strength competition effect at different strain rates. Procedia Structural Integrity, 2016, 2, 446-451.	0.8	0
77	Deformation and fracture of metal ring samples under the explosion of conductors. Procedia Structural Integrity, 2016, 2, 1002-1006.	0.8	3
78	Effect of combined high-frequency and pulse-dynamic impact on adhesive-joint strength. Doklady Physics, 2016, 61, 384-388.	0.7	3
79	Dynamic crack propagation: quasistatic and impact loading. Procedia Structural Integrity, 2016, 2, 389-394.	0.8	5
80	Resolution of the threshold fracture energy paradox for solid particle erosion. Philosophical Magazine, 2016, 96, 3775-3789.	1.6	0
81	The dynamic strength of concrete and macroscopic temporal parameter characterized in fracture process. Procedia Structural Integrity, 2016, 2, 438-445.	0.8	9
82	Surface Roughness Investigation of Ultrafine-Grained Aluminum Alloy Subjected to High-Speed Erosion. Journal of Materials Engineering and Performance, 2016, 25, 3573-3579.	2.5	3
83	Surface roughness investigation of ultrafine-grained aluminum alloy subjected to high speed erosion. Procedia Structural Integrity, 2016, 2, 485-492.	0.8	2
84	General effects of pulse electric breakdown of dielectric gaps and dynamic failure of continuous media. Procedia Structural Integrity, 2016, 2, 430-437.	0.8	6
85	Determining characteristic plastic-relaxation times using micro- and nanocrystalline nickel as an example. Doklady Physics, 2016, 61, 143-146.	0.7	2
86	Dynamic strength properties of the surface of an ultra-fine-grained aluminum alloy under conditions of high-speed erosion. Doklady Physics, 2016, 61, 232-234.	0.7	6
87	The definition of characteristic times of plastic relaxation by dislocation slip and grain boundary sliding in copper and nickel. International Journal of Plasticity, 2016, 82, 97-111.	8.8	51
88	Time dependence of the spall strength under nanosecond loading. Technical Physics, 2015, 60, 1162-1166.	0.7	9
89	Scale and size effects in dynamic fracture of concretes and rocks. EPJ Web of Conferences, 2015, 94, 04005.	0.3	3
90	Numerical simulation of ZrO <sub>2</sub> (Y <sub>2</sub> O <sub>3</sub> ) ceramic plate penetration by cylindrical plunger. EPJ Web of Conferences, 2015, 94, 04056.	0.3	0

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91	Acoustic strength of water and effect of ultrasound on the liquid-vapor phase diagram. Technical Physics, 2015, 60, 753-756.	0.7	9
92	Structural-temporal approach for dynamic strength characterization of gabbro-dabase. EPJ Web of Conferences, 2015, 94, 01042.	0.3	3
93	Numerical implementation of the incubation time fracture criterion. Journal of Physics: Conference Series, 2015, 653, 012049.	0.4	2
94	Simulation of ceramics fracture due to high rate dynamic impact. Journal of Physics: Conference Series, 2015, 653, 012050.	0.4	1
95	Relaxation model for dynamic plastic deformation of materials. EPJ Web of Conferences, 2015, 94, 04039.	0.3	4
96	Electrical breakdown of a dielectric on the voltage pulse trailing edge: Investigation in terms of the incubation time concept. Technical Physics, 2015, 60, 1733-1737.	0.7	10
97	Relaxation mechanism of plastic deformation and its justification using the example of the sharp yield point phenomenon in whiskers. Physics of the Solid State, 2015, 57, 353-359.	0.6	38
98	Liquid-vapor phase equilibrium conditions in an ultrasonic field. Doklady Physics, 2015, 60, 229-231.	0.7	4
99	Threshold fracture energy in solid particle erosion: improved estimate for a rigid indenter impacting an elastic medium. Meccanica, 2015, 50, 2995-3011.	2.0	1
100	Fracture of metallic rings during magnetic-pulse shock loading. Technical Physics, 2014, 59, 1338-1345.	0.7	4
101	Relaxation model of dynamic plastic deformation of materials. Mechanics of Solids, 2014, 49, 635-642.	0.7	4
102	Maximum yield strength under quasi-static and high-rate plastic deformation of metals. Physics of the Solid State, 2014, 56, 2470-2479.	0.6	22
103	Metallic Ring Fracture Induced by Magnetic Pulse Loading of Short Duration. , 2014, 3, 906-911.		1
104	Dynamic fragmentation of solid particles interacting with a rigid barrier. Technical Physics, 2014, 59, 194-198.	0.7	2
105	Energy of a solid sphere under nonstationary oscillations. Science China: Physics, Mechanics and Astronomy, 2014, 57, 469-476.	5.1	1
106	Freezing of water under intense short-time shock. Doklady Physics, 2014, 59, 283-285.	0.7	2
107	Simulation of the behavior of the cutting force during ultrasonic rotary machining of materials using structure-time fracture mechanics. Technical Physics, 2014, 59, 852-856.	0.7	3
108	Dynamic Strength of Limestone in Terms of the Incubation Fracture Time Criterion. , 2014, 3, 778-783.		7

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109	Fracture, Electric Breakdown and Phase Transformations under Impact Loading. , 2014, 3, 467-472.		5
110	Structural-time criterion of pulsed electric strength. Doklady Physics, 2014, 59, 56-58.	0.7	3
111	Simulation of dynamic crack propagation under quasi-static loading. Doklady Physics, 2014, 59, 99-102.	0.7	11
112	Fracture of solid particles during interaction with a rigid obstacle. Doklady Physics, 2014, 59, 181-183.	0.7	0
113	Fracture of Metal Ring Samples Caused by Magnetic Pulse Loading in a Wide Time Range of Durations. , 2014, 3, 686-690.		3
114	Dependence of the type of fracture on temperature and strain rate. Technical Physics, 2013, 58, 989-993.	0.7	15
115	On the effect of the geometrical shape of a particle on threshold energy in erosion damage. Technical Physics, 2013, 58, 388-392.	0.7	4
116	Dynamic strengths and toughness of an ultra high performance fibre reinforced concrete. Engineering Fracture Mechanics, 2013, 110, 477-488.	4.3	83
117	Temporal peculiarities of brittle fracture of rocks and concrete. Frattura Ed Integrita Strutturale, 2013, 7, 112-118.	0.9	10
118	Threshold fracture energy in solid particle erosion. Philosophical Magazine, 2013, 93, 2485-2496.	1.6	5
119	Structural-temporal approach to modeling of fracture dynamics in brittle media. , 2013, , 101-110.		2
120	On the dependence of the threshold energy of small erodent particles on their geometry in erosion fracture. Mechanics of Solids, 2012, 47, 491-497.	0.7	7
121	Electrical contact resistance and dynamic contact stiffness for a cluster of microcontacts: cross-property connection in the low-frequency range. Philosophical Magazine, 2012, 92, 1764-1776.	1.6	3
122	Criterion of shock-wave initiation of detonation in solid explosives. Doklady Physics, 2012, 57, 288-290.	0.7	2
123	High-rate deformation and fracture of fiber reinforced concrete. Journal of Applied Mechanics and Technical Physics, 2012, 53, 926-933.	0.5	30
124	Multi-scale dynamic fracture model for quasi-brittle materials. International Journal of Engineering Science, 2012, 61, 3-9.	5.0	48
125	Structural-temporal theory of fracture as a multiscale process. Physical Mesomechanics, 2012, 15, 232-237.	1.9	32
126	Incubation time approach in rock fracture dynamics. Science China: Physics, Mechanics and Astronomy, 2012, 55, 78-85.	5.1	12



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127	Metal-ring stretching under magnetic-pulse shock action. Doklady Physics, 2011, 56, 452-454.	0.7	3
128	Impact failure of metallic rings by a magnetic pulse technique. Technical Physics, 2011, 56, 797-802.	0.7	6
129	Transient near tip fields in crack dynamics. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1309-1318.	5.1	5
130	Existence of Optimal Energy Saving Parameters for Different Industrial Processes. Applied Mechanics and Materials, 2011, 82, 208-213.	0.2	0
131	Multiscale Fracture Model for Quasi-Brittle Materials. Applied Mechanics and Materials, 2011, 82, 160-165.	0.2	2
132	Energy-Based Analysis of Ultrasonically Assisted Turning. Shock and Vibration, 2011, 18, 333-341.	0.6	21
133	Energy aspects of ultrasonic intensification of treatment of metals. Doklady Physics, 2010, 55, 184-185.	0.7	1
134	On the effects of growth and stabilization of dynamic spall strength under short-pulse actions. Doklady Physics, 2010, 55, 524-527.	0.7	0
135	Interrelation between the threshold characteristics of erosion and spall fracture. Technical Physics, 2010, 55, 230-235.	0.7	11
136	Effects of strain-rate strength dependence in nanosecond load duration range. Mechanics of Solids, 2010, 45, 476-484.	0.7	29
137	Threshold erosion fracture in the case of oblique incidence. Journal of Friction and Wear, 2009, 30, 176-181.	0.5	6
138	Minimization of fracture-pulse energy under contact interaction. Doklady Physics, 2009, 54, 322-324.	0.7	1
139	Cavitation resistance of cryogenic liquids: Incubation time criterion. Technical Physics, 2009, 54, 1708-1710.	0.7	2
140	Thermal Effect in Dynamic Yielding and Fracture of Metals and Alloys. Mathematics and Mechanics of Solids, 2009, 14, 72-87.	2.4	38
141	Dynamic fracture as a process of nonlinear damage wave propagation. International Journal of Fracture, 2008, 150, 227-240.	2.2	4
142	Behavior of particle-filled polymer composite under static and dynamic loading. Engineering Fracture Mechanics, 2008, 75, 136-152.	4.3	10
143	Martensitic inelasticity of TiNi-shape memory alloy under pulsed loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 105-108.	5.6	8
144	Simulating the SMART1 orbiter impact on the Moon's surface. Doklady Physics, 2008, 53, 152-155.	0.7	0

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145	A criterion for detonation initiation in gas mixtures. Doklady Physics, 2008, 53, 507-509.	0.7	2
146	Features of the dynamic fracture of one-dimensional linear chains. Doklady Physics, 2008, 53, 595-599.	0.7	2
147	Cavitation breakup of low-and high-viscosity liquids. Technical Physics, 2008, 53, 291-295.	0.7	17
148	Optimizing energy input for fracture by analysis of the energy required to initiate dynamic mode I crack growth. International Journal of Solids and Structures, 2007, 44, 2371-2380.	2.7	37
149	Prediction of the threshold fracture energy in impact cratering mechanics. Doklady Physics, 2007, 52, 41-43.	0.7	2
150	Kinetic description of incubation processes under dynamic fracture. Doklady Physics, 2007, 52, 270-273.	0.7	2
151	Application of the incubation time criterion to the description of dynamic crack propagation. Doklady Physics, 2007, 52, 565-567.	0.7	5
152	Temperature dependence of the threshold impact velocity for erosion fracture. Doklady Physics, 2007, 52, 574-576.	0.7	3
153	Anomalous behavior of yield stress upon an increase in temperature under high strain rate conditions. Doklady Physics, 2007, 52, 691-694.	0.7	16
154	The incubation time criterion and the acoustic strength of sea water. Acoustical Physics, 2007, 53, 119-122.	1.0	9
155	On the incubation stage of fracture and structural transformations in continuous media under pulse energy injection. Mechanics of Solids, 2007, 42, 692-699.	0.7	11
156	Application of incubation time approach to simulate dynamic crack propagation. International Journal of Fracture, 2007, 146, 53-60.	2.2	37
157	Incubation time based testing of materials. European Journal of Mechanics, A/Solids, 2006, 25, 670-676.	3.7	16
158	Catastrophic merging of nanocracks in brittle nanocrystalline materials. Doklady Physics, 2006, 51, 69-72.	0.7	4
159	Energy approach to determination of the instantaneous damage level. Technical Physics, 2006, 51, 604-608.	0.7	5
160	Estimation of the ultimate intensity of pulsed dynamic loads in crack mechanics. Doklady Physics, 2005, 50, 59-61.	0.7	2
161	Effect of anomalous melting points upon impact loading. Doklady Physics, 2005, 50, 88-90.	0.7	1
162	Temperature dependence of spall strength and the effect of anomalous melting temperatures in shock-wave loading. Technical Physics, 2005, 50, 1034-1037.	0.7	35

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163	The principle of equal powers for multilevel fracture in continua. Doklady Physics, 2005, 50, 448-451.	0.7	8
164	Dynamic cracking resistance of structural materials predicted from impact fracture of an aircraft alloy. Technical Physics, 2004, 49, 57-60.	0.7	23
165	Incubation time criterion and the pulsed strength of continua: Fracture, cavitation, and electrical breakdown. Doklady Physics, 2004, 49, 246-249.	0.7	59
166	Energy balance in the crack growth initiation under pulsed-load conditions. Doklady Physics, 2004, 49, 338-341.	0.7	22
167	Kinetic interpretation of the structural-time criterion for fracture. Physics of the Solid State, 2004, 46, 1051-1054.	0.6	6
168	Criterion of the incubation time in the problems of pulsed fracture and electric breakdown. Technical Physics, 2004, 49, 1447-1451.	0.7	5
169	Fractal models in fracture mechanics. International Journal of Fracture, 2004, 128, 271-276.	2.2	10
170	Structural macromechanics approach in dynamics of fracture. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 363-372.	3.4	61
171	The fracture energy of materials under pulse microsecond-scale loading. Physics of the Solid State, 2003, 45, 886-889.	0.6	12
172	Quantum nature and dual character of fracture dynamics in solids. Doklady Physics, 2002, 47, 85-88.	0.7	4
173	Transition between brittle and ductile erosional fracture. Doklady Physics, 2002, 47, 525-527.	0.7	4
174	An invariant form of the dynamic criterion for yield of metals. Physics of the Solid State, 2002, 44, 2080-2082.	0.6	27
175	Fracture of spheroplastic under static and dynamic stressing. Technical Physics, 2002, 47, 1538-1542.	0.7	0
176	Fractal Fracture of an Elastic Plane Weakened by a Lunate Notch. Journal of Mathematical Sciences, 2001, 103, 247-251.	0.4	1
177	Energy estimates for phase transitions in a ball subjected to a spherically converging compression wave. Doklady Physics, 2001, 46, 291-293.	0.7	1
178	On the similarity of the initial stage of failure of solids and liquids under impulse loading. Doklady Physics, 2001, 46, 363-365.	0.7	8
179	Effect of delayed crack nucleation under threshold pulse loading. Doklady Physics, 2000, 45, 617-619.	0.7	23
180	Nonmonotone time dependence of dynamic fracture viscosity of solids. Doklady Physics, 2000, 45, 122-124.	0.7	3

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181	Dynamics of Fracture. Foundations in Engineering Mechanics, 2000, , .	0.1	77
182	On process-zone-size fracture criteria for brittle solids. Materials Science, 1999, 35, 129-131.	0.9	1
183	Problems of fracture of brittle bodies under pulse loading. Materials Science, 1996, 32, 286-295.	0.9	7
184	On the Modeling of Fracture of Brittle Solids. Journal of Applied Mechanics, Transactions ASME, 1994, 61, 710-712.	2.2	121
185	Beschleunigungsreaktionen von Neutronen. Annalen Der Physik, 1994, 506, 118-134.	2.4	1
186	Fracture at the crack tip in impact loading. Soviet Materials Science, 1989, 24, 397-399.	0.0	1
187	Dependence of the dynamic strength on loading rate. Soviet Materials Science, 1989, 25, 153-156.	0.0	84
188	Threshold Characteristics of Short Pulse Loads Causing Fracture in Concrete and Rocks. Applied Mechanics and Materials, 0, 82, 106-111.	0.2	2
189	Simulation of Dynamic Crack Propagation under Quasistatic Loading. Applied Mechanics and Materials, 0, 532, 337-341.	0.2	1
190	Study of Deformation and Failure of Bitumens for Asphalt Mixtures under Dynamic Loads. Key Engineering Materials, 0, 715, 43-47.	0.4	1