

Evgeny Morozov

List of Publications by Year in descending order

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137
papers

2,397
citations

218592

26
h-index

276775

41
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146
all docs

146
docs citations

146
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite-element modelling and buckling analysis of anisogrid composite lattice cylindrical shells. <i>Composite Structures</i> , 2011, 93, 308-323.	3.1	111
2	A combined elastoplastic damage model for progressive failure analysis of composite materials and structures. <i>Composite Structures</i> , 2012, 94, 3478-3489.	3.1	109
3	Simulating progressive failure of composite laminates including in-ply and delamination damage effects. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 61, 185-200.	3.8	97
4	Vibration-based inverse algorithms for detection of delamination in composites. <i>Composite Structures</i> , 2013, 102, 226-236.	3.1	89
5	Impact behaviour of Dyneema® fabric-reinforced composites with different resin matrices. <i>Polymer Testing</i> , 2017, 61, 17-26.	2.3	70
6	Progressive failure analysis of perforated aluminium/CFRP fibre metal laminates using a combined elastoplastic damage model and including delamination effects. <i>Composite Structures</i> , 2014, 114, 64-79.	3.1	65
7	The effect of filament-winding mosaic patterns on the strength of thin-walled composite shells. <i>Composite Structures</i> , 2006, 76, 123-129.	3.1	62
8	Structural optimisation of composite wind turbine blade structures with variations of internal geometry configuration. <i>Composite Structures</i> , 2016, 152, 158-167.	3.1	58
9	Vibration-based delamination detection in composite beams through frequency changes. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 496-512.	1.5	56
10	Vibration-based assessment of delaminations in FRP composite plates. <i>Composites Part B: Engineering</i> , 2018, 144, 254-266.	5.9	55
11	Insight into the shear behaviour of composite sandwich panels with foam core. <i>Materials & Design</i> , 2013, 50, 92-101.	5.1	50
12	Buckling analysis and design of anisogrid composite lattice conical shells. <i>Composite Structures</i> , 2011, 93, 3150-3162.	3.1	48
13	Improved methodology for design of low wind speed specific wind turbine blades. <i>Composite Structures</i> , 2015, 119, 677-684.	3.1	48
14	Buckling of composite cylindrical shells with rigid end disks under hydrostatic pressure. <i>Composite Structures</i> , 2017, 173, 136-143.	3.1	48
15	Buckling of the composite sandwich cylindrical shell with clamped ends under uniform external pressure. <i>Composite Structures</i> , 2015, 122, 209-216.	3.1	47
16	Influence of fibre type on flexural behaviour of self-compacting fibre reinforced cementitious composites. <i>Cement and Concrete Composites</i> , 2014, 51, 27-37.	4.6	45
17	Performance of outside filament-wound hybrid FRP-concrete beams. <i>Composites Part B: Engineering</i> , 2011, 42, 907-915.	5.9	35
18	Numerical analysis of the mechanical behaviour of reinforced thermoplastic pipes under combined external pressure and bending. <i>Composite Structures</i> , 2015, 131, 453-461.	3.1	35

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19	A review of the design and analysis of reinforced thermoplastic pipes for offshore applications. Journal of Reinforced Plastics and Composites, 2017, 36, 1514-1530.	1.6	35
20	Experimental, Theoretical and Numerical Investigation of the Flexural Behaviour of the Composite Sandwich Panels with PVC Foam Core. Applied Composite Materials, 2014, 21, 661-675.	1.3	34
21	Analysis of flexural behaviour of reinforced thermoplastic pipes considering material nonlinearity. Composite Structures, 2015, 119, 385-393.	3.1	34
22	Axial deformability of the composite lattice cylindrical shell under compressive loading: Application to a load-carrying spacecraft tubular body. Composite Structures, 2016, 146, 201-206.	3.1	34
23	Buckling of the SSCF rectangular orthotropic plate subjected to linearly varying in-plane loading. Composite Structures, 2011, 93, 1900-1909.	3.1	31
24	The effect of filament winding mosaic pattern on the stress state of filament wound composite flywheel disk. Composite Structures, 2014, 107, 260-275.	3.1	30
25	Buckling of uniaxially compressed composite anisogrid lattice cylindrical panel with clamped edges. Composite Structures, 2017, 160, 765-772.	3.1	29
26	Mechanics of a Composite Layer. , 2018, , 75-189.		29
27	Effect of shear keys diameter on the shear performance of composite sandwich panel with PVC and PU foam core: FE study. Composite Structures, 2013, 102, 90-100.	3.1	28
28	Effects of fabric folding and thickness on the impact behaviour of multi-ply UHMWPE woven fabrics. Journal of Materials Science, 2017, 52, 13977-13991.	1.7	28
29	On the impact response of UHMWPE woven fabrics: Experiments and simulations. International Journal of Mechanical Sciences, 2021, 204, 106574.	3.6	28
30	Determination of the shear modulus of orthotropic materials from off-axis tension tests. Composite Structures, 2003, 62, 379-382.	3.1	26
31	Behaviour of PU-foam/glass-fibre composite sandwich panels under flexural static load. Materials and Structures/Materiaux Et Constructions, 2015, 48, 1545-1559.	1.3	25
32	Impact damage tolerance of laminated composite helicopter blades. Composite Structures, 2003, 62, 367-371.	3.1	23
33	Sensitivity analysis of inverse algorithms for damage detection in composites. Composite Structures, 2017, 176, 844-859.	3.1	23
34	Buckling of uniaxially compressed composite anisogrid lattice plate with clamped edges. Composite Structures, 2016, 157, 187-196.	3.1	22
35	On the mechanical behaviour of steel wire mesh subjected to low-velocity impact. Thin-Walled Structures, 2021, 159, 107281.	2.7	22
36	Buckling of a composite cantilever circular cylindrical shell subjected to uniform external lateral pressure. Composite Structures, 2012, 94, 553-562.	3.1	21

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37	Effects of impact energy, velocity, and impactor mass on the damage induced in composite laminates and sandwich panels. <i>Composite Structures</i> , 2019, 226, 111284.	3.1	21
38	Global design and analysis of deep sea FRP composite risers under combined environmental loads. <i>Advanced Composite Materials</i> , 2017, 26, 79-98.	1.0	20
39	Modal analysis of the thin-walled composite spoke of an umbrella-type deployable space antenna. <i>Composite Structures</i> , 2009, 88, 46-55.	3.1	19
40	Fundamental frequency of the CCCF composite sandwich plate. <i>Composite Structures</i> , 2010, 92, 2747-2757.	3.1	19
41	Fundamental Frequency of Fully Clamped Composite Sandwich Plate. <i>Journal of Sandwich Structures and Materials</i> , 2010, 12, 591-619.	2.0	19
42	Fundamental frequency of a cantilever composite filament-wound anisogrid lattice cylindrical shell. <i>Composite Structures</i> , 2015, 133, 564-575.	3.1	19
43	Symmetrical Facing Wrinkling of Composite Sandwich Panels. <i>Journal of Sandwich Structures and Materials</i> , 2008, 10, 475-497.	2.0	18
44	A consistency elasto-viscoplastic damage model for progressive failure analysis of composite laminates subjected to various strain rate loadings. <i>Composite Structures</i> , 2016, 148, 224-235.	3.1	18
45	An analytical expression for fundamental frequency of the composite lattice cylindrical shell with clamped edges. <i>Composite Structures</i> , 2016, 141, 232-239.	3.1	18
46	Progressive damage modelling of SMC composite materials. <i>Composite Structures</i> , 2003, 62, 361-366.	3.1	17
47	Design and analysis of the composite lattice frame of a spacecraft solar array. <i>Composite Structures</i> , 2011, 93, 1640-1648.	3.1	17
48	Effects of ballistic impact damage on mechanical behaviour of composite honeycomb sandwich panels. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 2064-2085.	2.0	17
49	Fundamental frequency and design of the CFCF composite sandwich plate. <i>Composite Structures</i> , 2011, 93, 983-991.	3.1	16
50	Development of self-compacting strain-hardening cementitious composites by varying fly ash content. <i>Construction and Building Materials</i> , 2017, 149, 103-110.	3.2	16
51	Tensile properties of ultra-high-molecular-weight polyethylene single yarns at different strain rates. <i>Journal of Composite Materials</i> , 2020, 54, 1453-1466.	1.2	16
52	Buckling of the CCFF orthotropic rectangular plates under in-plane pure bending. <i>Composite Structures</i> , 2010, 92, 1423-1431.	3.1	15
53	Mechanics of laminates. , 2013, , 243-297.		15
54	MECHANICS OF LAMINATES. , 2007, , 255-320.		14

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55	Numerical simulation of the dynamic thermostructural response of a composite rocket nozzle throat. <i>Composite Structures</i> , 2009, 91, 412-420.	3.1	14
56	Flexure analysis of spoolable reinforced thermoplastic pipes for offshore oil and gas applications. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 533-542.	1.6	14
57	Fundamental frequency of the laminated composite cylindrical shell with clamped edges. <i>International Journal of Mechanical Sciences</i> , 2015, 92, 35-43.	3.6	14
58	Buckling of the composite anisogrid lattice plate with clamped edges under shear load. <i>Composite Structures</i> , 2017, 159, 72-80.	3.1	14
59	Tailored design of top-tensioned composite risers for deep-water applications using three different approaches. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401668427.	0.8	14
60	Buckling of the SSFF rectangular orthotropic plate under in-plane pure bending. <i>Composite Structures</i> , 2009, 90, 287-294.	3.1	13
61	A new area-specific bio-optical algorithm for the Bay of Biscay and assessment of its potential for SeaWiFS and MODIS/Aqua data merging. <i>International Journal of Remote Sensing</i> , 2010, 31, 6541-6565.	1.3	13
62	Approximate buckling analysis of the CCFF orthotropic plates subjected to in-plane bending. <i>International Journal of Mechanical Sciences</i> , 2014, 85, 38-44.	3.6	13
63	Tailored local design of deep sea FRP composite risers. <i>Advanced Composite Materials</i> , 2015, 24, 375-397.	1.0	13
64	Buckling of a rectangular composite orthotropic plate with two parallel free edges and the other two edges clamped and subjected to uniaxial compressive distributed load. <i>European Journal of Mechanics, A/Solids</i> , 2020, 81, 103960.	2.1	13
65	Mechanics of a composite layer. , 2013, , 125-241.		12
66	Influence of shear keys orientation on the shear performance of composite sandwich panel with PVC foam core: Numerical study. <i>Materials & Design</i> , 2013, 51, 1008-1017.	5.1	12
67	Buckling of the composite orthotropic clamped-clamped cylindrical shell loaded by transverse inertia forces. <i>Composite Structures</i> , 2013, 95, 471-478.	3.1	12
68	Deformation of a cantilever composite anisogrid lattice cylindrical shell loaded by transverse inertia forces. <i>Composite Structures</i> , 2015, 129, 27-35.	3.1	12
69	Design, fabrication and testing of composite sandwich integral structure of spacecraft antenna. <i>Composite Structures</i> , 2015, 134, 645-653.	3.1	12
70	Fundamental frequency of a cantilever composite cylindrical shell. <i>Composite Structures</i> , 2015, 119, 638-647.	3.1	12
71	Buckling of a uniformly compressed rectangular SSCF composite sandwich plate. <i>Composite Structures</i> , 2013, 105, 108-115.	3.1	11
72	Axial vibrations of a composite anisogrid lattice cylindrical shell with end masses. <i>Composite Structures</i> , 2017, 176, 1143-1151.	3.1	11

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73	Analysis and design of the flexible composite membrane stretched on the spacecraft solar array frame. <i>Composite Structures</i> , 2012, 94, 3106-3114.	3.1	10
74	Finite-element modelling, analysis and design of anisogrid composite lattice spoke of an umbrella-type deployable reflector of space antenna. <i>Composite Structures</i> , 2022, 286, 115323.	3.1	10
75	In-plane shear behaviour of composite sandwich panel incorporated with shear keys methodology at different orientations: finite element study. <i>Journal of Composite Materials</i> , 2014, 48, 2945-2959.	1.2	9
76	Bending of the composite lattice cylindrical shell with the midspan rigid disk loaded by transverse inertia forces. <i>Composite Structures</i> , 2016, 150, 181-190.	3.1	9
77	Surrogate-assisted optimisation design of composite riser. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 18-34.	0.7	9
78	Fundamental frequency of a composite anisogrid lattice cylindrical panel with clamped edges. <i>Composite Structures</i> , 2018, 201, 200-207.	3.1	9
79	Microstructure and hardness variation of additively manufactured Ti-6Al-4V functionally graded composites. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158976.	2.8	9
80	MECHANICS OF A COMPOSITE LAYER. , 2007, , 133-254.		8
81	Tailoring of Composite Reinforcements for Weight Reduction of Offshore Production Risers. <i>Applied Mechanics and Materials</i> , 0, 66-68, 1416-1421.	0.2	8
82	Buckling of a uniformly compressed composite rectangular CCCC sandwich plate. <i>Composite Structures</i> , 2014, 108, 332-340.	3.1	8
83	Axisymmetric vibrations of the composite orthotropic cylindrical shell with rigid weightless end disks. <i>Thin-Walled Structures</i> , 2019, 135, 463-471.	2.7	8
84	Buckling analysis and design of a uniformly compressed rectangular composite sandwich plate with two parallel simply supported edges and another two edges clamped. <i>Journal of Sandwich Structures and Materials</i> , 2014, 16, 88-107.	2.0	7
85	Applied theory of spatially reinforced composite shells. <i>Mechanics of Composite Materials</i> , 1988, 24, 393-400.	0.9	6
86	Theoretical and experimental analysis of the deformability of filament wound composite shells under axial compressive loading. <i>Composite Structures</i> , 2001, 54, 255-260.	3.1	6
87	Damage model development for SMC composites. <i>Composite Structures</i> , 2003, 62, 373-378.	3.1	6
88	Design, analysis, manufacture and testing of composite corrugated horn for the spacecraft antenna system. <i>Composite Structures</i> , 2016, 136, 505-512.	3.1	6
89	Characterization of Shear Behavior in Stainless Steel Wire Mesh Using Bias-Extension and Picture Frame Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, 04019127.	1.6	6
90	Fundamental frequency of a sandwich cylindrical panel with clamped edges. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 345-364.	2.0	6

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91	Buckling of biaxially compressed anisogrid stiffened composite cylindrical panel with clamped edges. European Journal of Mechanics, A/Solids, 2021, 85, 104090.	2.1	6
92	Independent analytical technique for analysis of the flexural behaviour of the composite sandwich panels incorporated with shear keys concept. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2455-2474.	1.3	5
93	Combined theoretical and experimental method of determining residual stresses in wound composite shells. Mechanics of Composite Materials, 1988, 23, 802-807.	0.9	4
94	Aeroelastic interaction of the shock waves with the thin-walled composite shells. Composite Structures, 2001, 54, 153-159.	3.1	4
95	Application of the boundary-layer theory to the analysis of composite shells of revolution. Composite Structures, 2001, 54, 261-265.	3.1	4
96	Fifteenth International Conference on Composite Materials (ICCM-15), 27 June–1 July 2005, Durban, South Africa. Composite Structures, 2006, 76, 1.	3.1	4
97	MECHANICS OF A UNIDIRECTIONAL PLY. , 2007, , 57-132.		4
98	The effectiveness of combined gripping method in tensile testing of UHMWPE single yarn. IOP Conference Series: Materials Science and Engineering, 2015, 87, 012109.	0.3	4
99	Buckling and vibration of composite lattice elliptical cylindrical shells. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1255-1266.	0.7	4
100	Homogenized shell element-based modeling of low-velocity impact response of stainless-steel wire mesh. Mechanics of Advanced Materials and Structures, 2020, , 1-16.	1.5	4
101	Explicit finite difference method in the dynamic analysis of composite structures. Composite Structures, 1997, 39, 215-221.	3.1	3
102	Simulating the progressive crushing of fabric reinforced composite structures. Composite Structures, 2006, 76, 130-137.	3.1	3
103	Fundamental frequency of an orthotropic rectangular plate with an internal centre point support. Composite Structures, 2011, 93, 2487-2495.	3.1	3
104	Buckling analysis of the SSCC composite sandwich cylindrical panel under axial compression. Journal of Sandwich Structures and Materials, 2021, 23, 1292-1310.	2.0	3
105	Dynamic analysis of orthotropic shells by the grid-characteristic method. Composite Structures, 2000, 48, 91-94.	3.1	2
106	Graphical Detection Method for Delaminations. Applied Mechanics and Materials, 0, 66-68, 1410-1415.	0.2	2
107	Analysis of deformability of composite laminated anisotropic cylindrical shells in the conceptual design of mechanical transducers and actuators. International Journal of Mechanical Sciences, 2019, 151, 877-886.	3.6	2
108	Buckling of compressed rectangular orthotropic plate resting on elastic foundation with nonlinear change of transverse displacement over the thickness. Composite Structures, 2021, 261, 113535.	3.1	2

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109	Nonlinear fracture analysis of hybrid polymer composite materials and structures. Composite Structures, 2000, 48, 135-138.	3.1	1
110	Computational Analysis of Low Velocity Impact Response of Composite Panels. Applied Mechanics and Materials, 2012, 157-158, 1135-1138.	0.2	1
111	Failure criteria and strength of laminates. , 2013, , 299-352.		1
112	Optimal composite structures. , 2013, , 745-796.		1
113	Shells of Revolution. , 2018, , 761-785.		1
114	Mechanics of Laminates. , 2018, , 191-242.		1
115	Failure Criteria and Strength of Laminates. , 2018, , 243-294.		1
116	Fundamental frequency of a corner-supported rectangular sandwich plate with the central lumped mass. Journal of Sandwich Structures and Materials, 2021, 23, 3966-3984.	2.0	1
117	Optimal reinforcement trajectories for a composite shell of revolution formed by the winding method. Mechanics of Composite Materials, 1985, 21, 227-231.	0.9	0
118	Thermoelasticity of spatially reinforced composite plates. Composite Structures, 2000, 48, 129-133.	3.1	0
119	FUNDAMENTALS OF MECHANICS OF SOLIDS. , 2007, , 31-56.		0
120	FAILURE CRITERIA AND STRENGTH OF LAMINATES. , 2007, , 321-357.		0
121	ENVIRONMENTAL, SPECIAL LOADING, AND MANUFACTURING EFFECTS. , 2007, , 359-435.		0
122	OPTIMAL COMPOSITE STRUCTURES. , 2007, , 437-480.		0
123	Special ICCST/6 issue of composite structures. Composite Structures, 2009, 91, 391.	3.1	0
124	Numerical Simulation of the Aerothermostructural Response of a Composite Solid Rocket Nozzle During Motor Ignition. , 2009, , .		0
125	Sensitivity of the Ignition-Period Surface Stress Response of a Composite SRM Nozzle to Ignition Rate. , 2010, , .		0
126	Simulation of impact response of multi-layered panels composed of bonded and unbonded plies. Australian Journal of Mechanical Engineering, 2011, 8, 189-196.	1.5	0

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127	Special ICMOSPS 2007 issue of Mathematics and Computers in Simulation. Mathematics and Computers in Simulation, 2012, 86, 100.	2.4	0
128	Computing, Consciously. IEEE Spectrum, 2014, 51, 29-29.	0.5	0
129	Fundamental frequency of fully clamped antisymmetric angle-ply laminated plates with structural anisotropy. Composite Structures, 2018, 202, 530-538.	3.1	0
130	Circular Cylindrical Shells. , 2018, , 687-759.		0
131	Laminated Composite Plates. , 2018, , 437-574.		0
132	Design optimization of silo structures made from composite materials Part 2: optimum design of the composite conical hopper. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2002, 216, 69-77.	0.7	0
133	Simulation Model for the Rod System Graphs Dynamics. , 2006, , .		0
134	Heat Management with Flexible Textiles. , 2020, , .		0
135	Planar Structure with High Spectrally-Selective Emittance for Passive Radiative Cooling. , 2020, , .		0
136	Simulation of Fluid-Structure Interaction Phenomena of a Composite Rocket Nozzle. , 0, , .		0
137	Structural Analysis of Composite Latticed Spoke of an Umbrella-Type Space Antenna. , 0, , .		0