

Evgeny Morozov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

1,719
citations

22
h-index

34
g-index

145
ext. papers

2,017
ext. citations

4.3
avg, IF

5.42
L-index

#	Paper	IF	Citations
130	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	5.3	1
129	Buckling of compressed rectangular orthotropic plate resting on elastic foundation with nonlinear change of transverse displacement over the thickness. <i>Composite Structures</i> , 2021 , 261, 113535	5.3	1
128	Microstructure and hardness variation of additively manufactured TiNiTi functionally graded composites. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158976	5.7	3
127	Fundamental frequency of a sandwich cylindrical panel with clamped edges. <i>Journal of Sandwich Structures and Materials</i> , 2021 , 23, 345-364	2.1	6
126	Buckling analysis of the SSCC composite sandwich cylindrical panel under axial compression. <i>Journal of Sandwich Structures and Materials</i> , 2021 , 23, 1292-1310	2.1	1
125	Buckling of biaxially compressed anisogrid stiffened composite cylindrical panel with clamped edges. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 85, 104090	3.7	3
124	On the mechanical behaviour of steel wire mesh subjected to low-velocity impact. <i>Thin-Walled Structures</i> , 2021 , 159, 107281	4.7	8
123	On the impact response of UHMWPE woven fabrics: Experiments and simulations. <i>International Journal of Mechanical Sciences</i> , 2021 , 204, 106574	5.5	6
122	Effects of ballistic impact damage on mechanical behaviour of composite honeycomb sandwich panels. <i>Journal of Sandwich Structures and Materials</i> , 2020 , 109963622090974	2.1	6
121	Homogenized shell element-based modeling of low-velocity impact response of stainless-steel wire mesh. <i>Mechanics of Advanced Materials and Structures</i> , 2020 , 1-16	1.8	4
120	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	2.4	5
119	Microstructure Evolution of Additively Manufactured TiC Reinforced Graded Metal Matrix Composite. <i>Minerals, Metals and Materials Series</i> , 2020 , 319-328	0.3	1
118	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	3.7	9
117	Fundamental frequency of a corner-supported rectangular sandwich plate with the central lumped mass. <i>Journal of Sandwich Structures and Materials</i> , 2020 , 109963622097499	2.1	0
116	Tensile properties of ultra-high-molecular-weight polyethylene single yarns at different strain rates. <i>Journal of Composite Materials</i> , 2020 , 54, 1453-1466	2.7	10
115	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	5.3	9
114	Compressive behaviour of carbon fibre reinforced thermoplastic lattice structures 2019 , 480-485		

113	Axisymmetric vibrations of the composite orthotropic cylindrical shell with rigid weightless end disks. <i>Thin-Walled Structures</i> , 2019 , 135, 463-471	4.7	5
112	Analysis of deformability of composite laminated anisotropic cylindrical shells in the conceptual design of mechanical transducers and actuators. <i>International Journal of Mechanical Sciences</i> , 2019 , 151, 877-886	5.5	2
111	Buckling and vibration of composite lattice elliptical cylindrical shells. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019 , 233, 1255-1266	1.3	2
110	Vibration-based assessment of delaminations in FRP composite plates. <i>Composites Part B: Engineering</i> , 2018 , 144, 254-266	10	38
109	Mechanics of a Composite Layer 2018 , 75-189		11
108	Mechanics of Laminates 2018 , 191-242		0
107	Fundamental frequency of fully clamped antisymmetric angle-ply laminated plates with structural anisotropy. <i>Composite Structures</i> , 2018 , 202, 530-538	5.3	
106	Circular Cylindrical Shells 2018 , 687-759		
105	Failure Criteria and Strength of Laminates 2018 , 243-294		
104	Fundamental frequency of a composite anisogrid lattice cylindrical panel with clamped edges. <i>Composite Structures</i> , 2018 , 201, 200-207	5.3	4
103	Laminated Composite Plates 2018 , 437-574		
102	Shells of Revolution 2018 , 761-785		1
101	Global design and analysis of deep sea FRP composite risers under combined environmental loads. <i>Advanced Composite Materials</i> , 2017 , 26, 79-98	2.8	15
100	Impact behaviour of Dyneema [®] fabric-reinforced composites with different resin matrices. <i>Polymer Testing</i> , 2017 , 61, 17-26	4.5	41
99	Buckling of composite cylindrical shells with rigid end disks under hydrostatic pressure. <i>Composite Structures</i> , 2017 , 173, 136-143	5.3	31
98	Development of self-compacting strain-hardening cementitious composites by varying fly ash content. <i>Construction and Building Materials</i> , 2017 , 149, 103-110	6.7	9
97	Sensitivity analysis of inverse algorithms for damage detection in composites. <i>Composite Structures</i> , 2017 , 176, 844-859	5.3	17
96	Axial vibrations of a composite anisogrid lattice cylindrical shell with end masses. <i>Composite Structures</i> , 2017 , 176, 1143-1151	5.3	7

95	A review of the design and analysis of reinforced thermoplastic pipes for offshore applications. <i>Journal of Reinforced Plastics and Composites</i> , 2017 , 36, 1514-1530	2.9	16
94	Tailored design of top-tensioned composite risers for deep-water applications using three different approaches. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401668427	1.2	9
93	Effects of fabric folding and thickness on the impact behaviour of multi-ply UHMWPE woven fabrics. <i>Journal of Materials Science</i> , 2017 , 52, 13977-13991	4.3	17
92	Buckling of uniaxially compressed composite anisogrid lattice cylindrical panel with clamped edges. <i>Composite Structures</i> , 2017 , 160, 765-772	5.3	19
91	Buckling of the composite anisogrid lattice plate with clamped edges under shear load. <i>Composite Structures</i> , 2017 , 159, 72-80	5.3	10
90	Vibration-based delamination detection in composite beams through frequency changes. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 496-512	2	43
89	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	5.3	13
88	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	5.3	6
87	An analytical expression for fundamental frequency of the composite lattice cylindrical shell with clamped edges. <i>Composite Structures</i> , 2016 , 141, 232-239	5.3	12
86	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	1.3	8
85	Axial deformability of the composite lattice cylindrical shell under compressive loading: Application to a load-carrying spacecraft tubular body. <i>Composite Structures</i> , 2016 , 146, 201-206	5.3	24
84	Design, analysis, manufacture and testing of composite corrugated horn for the spacecraft antenna system. <i>Composite Structures</i> , 2016 , 136, 505-512	5.3	4
83	Structural optimisation of composite wind turbine blade structures with variations of internal geometry configuration. <i>Composite Structures</i> , 2016 , 152, 158-167	5.3	40
82	Buckling of uniaxially compressed composite anisogrid lattice plate with clamped edges. <i>Composite Structures</i> , 2016 , 157, 187-196	5.3	11
81	Numerical analysis of the mechanical behaviour of reinforced thermoplastic pipes under combined external pressure and bending. <i>Composite Structures</i> , 2015 , 131, 453-461	5.3	26
80	Tailored local design of deep sea FRP composite risers. <i>Advanced Composite Materials</i> , 2015 , 24, 375-397.8		11
79	Deformation of a cantilever composite anisogrid lattice cylindrical shell loaded by transverse inertia forces. <i>Composite Structures</i> , 2015 , 129, 27-35	5.3	10
78	Design, fabrication and testing of composite sandwich integral structure of spacecraft antenna. <i>Composite Structures</i> , 2015 , 134, 645-653	5.3	7

77	Fundamental frequency of a cantilever composite filament-wound anisogrid lattice cylindrical shell. <i>Composite Structures</i> , 2015 , 133, 564-575	5.3	14
76	Fundamental frequency of the laminated composite cylindrical shell with clamped edges. <i>International Journal of Mechanical Sciences</i> , 2015 , 92, 35-43	5.5	11
75	Buckling of the composite sandwich cylindrical shell with clamped ends under uniform external pressure. <i>Composite Structures</i> , 2015 , 122, 209-216	5.3	36
74	Behaviour of PU-foam/glass-fibre composite sandwich panels under flexural static load. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 1545-1559	3.4	13
73	Analysis of flexural behaviour of reinforced thermoplastic pipes considering material nonlinearity. <i>Composite Structures</i> , 2015 , 119, 385-393	5.3	20
72	Fundamental frequency of a cantilever composite cylindrical shell. <i>Composite Structures</i> , 2015 , 119, 638-647	5.3	10
71	Improved methodology for design of low wind speed specific wind turbine blades. <i>Composite Structures</i> , 2015 , 119, 677-684	5.3	32
70	Independent analytical technique for analysis of the flexural behaviour of the composite sandwich panels incorporated with shear keys concept. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 2455-2474	3.4	5
69	The effectiveness of combined gripping method in tensile testing of UHMWPE single yarn. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 87, 012109	0.4	2
68	Buckling of a uniformly compressed composite rectangular CCCC sandwich plate. <i>Composite Structures</i> , 2014 , 108, 332-340	5.3	7
67	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	2.9	10
66	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	8.4	81
65	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	5.3	45
64	Approximate buckling analysis of the CCF orthotropic plates subjected to in-plane bending. <i>International Journal of Mechanical Sciences</i> , 2014 , 85, 38-44	5.5	10
63	Influence of fibre type on flexural behaviour of self-compacting fibre reinforced cementitious composites. <i>Cement and Concrete Composites</i> , 2014 , 51, 27-37	8.6	33
62	The effect of filament winding mosaic pattern on the stress state of filament wound composite flywheel disk. <i>Composite Structures</i> , 2014 , 107, 260-275	5.3	21
61	Computing, Consciously. <i>IEEE Spectrum</i> , 2014 , 51, 29-29	1.7	
60	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	2.1	6

59	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	2-7	7
58	Experimental, Theoretical and Numerical Investigation of the Flexural Behaviour of the Composite Sandwich Panels with PVC Foam Core. <i>Applied Composite Materials</i> , 2014 , 21, 661-675	2	21
57	Mechanics of laminates 2013 , 243-297		13
56	Failure criteria and strength of laminates 2013 , 299-352		1
55	Mechanics of a composite layer 2013 , 125-241		7
54	Optimal composite structures 2013 , 745-796		1
53	Vibration-based inverse algorithms for detection of delamination in composites. <i>Composite Structures</i> , 2013 , 102, 226-236	5-3	75
52	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		9
51	Effect of shear keys diameter on the shear performance of composite sandwich panel with PVC and PU foam core: FE study. <i>Composite Structures</i> , 2013 , 102, 90-100	5-3	23
50	Insight into the shear behaviour of composite sandwich panels with foam core. <i>Materials & Design</i> , 2013 , 50, 92-101		40
49	Buckling of a uniformly compressed rectangular SSCF composite sandwich plate. <i>Composite Structures</i> , 2013 , 105, 108-115	5-3	10
48	Buckling of the composite orthotropic clamped-clamped cylindrical shell loaded by transverse inertia forces. <i>Composite Structures</i> , 2013 , 95, 471-478	5-3	11
47	Analysis and design of the flexible composite membrane stretched on the spacecraft solar array frame. <i>Composite Structures</i> , 2012 , 94, 3106-3114	5-3	7
46	A combined elastoplastic damage model for progressive failure analysis of composite materials and structures. <i>Composite Structures</i> , 2012 , 94, 3478-3489	5-3	79
45	Buckling of a composite cantilever circular cylindrical shell subjected to uniform external lateral pressure. <i>Composite Structures</i> , 2012 , 94, 553-562	5-3	14
44	Computational Analysis of Low Velocity Impact Response of Composite Panels. <i>Applied Mechanics and Materials</i> , 2012 , 157-158, 1135-1138	0-3	1
43	Simulation of impact response of multi-layered panels composed of bonded and unbonded plies. <i>Australian Journal of Mechanical Engineering</i> , 2011 , 8, 189-196	1	
42	Buckling analysis and design of anisogrid composite lattice conical shells. <i>Composite Structures</i> , 2011 , 93, 3150-3162	5-3	41

41	Performance of outside filament-wound hybrid FRP-concrete beams. <i>Composites Part B: Engineering</i> , 2011 , 42, 907-915	10	32
40	Fundamental frequency and design of the CFCF composite sandwich plate. <i>Composite Structures</i> , 2011 , 93, 983-991	5.3	14
39	Finite-element modelling and buckling analysis of anisogrid composite lattice cylindrical shells. <i>Composite Structures</i> , 2011 , 93, 308-323	5.3	87
38	Design and analysis of the composite lattice frame of a spacecraft solar array. <i>Composite Structures</i> , 2011 , 93, 1640-1648	5.3	10
37	Buckling of the SSCF rectangular orthotropic plate subjected to linearly varying in-plane loading. <i>Composite Structures</i> , 2011 , 93, 1900-1909	5.3	30
36	Fundamental frequency of an orthotropic rectangular plate with an internal centre point support. <i>Composite Structures</i> , 2011 , 93, 2487-2495	5.3	2
35	Tailoring of Composite Reinforcements for Weight Reduction of Offshore Production Risers. <i>Applied Mechanics and Materials</i> , 2011 , 66-68, 1416-1421	0.3	6
34	Graphical Detection Method for Delaminations. <i>Applied Mechanics and Materials</i> , 2011 , 66-68, 1410-1415.	5.3	2
33	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	3.1	8
32	Fundamental Frequency of Fully Clamped Composite Sandwich Plate. <i>Journal of Sandwich Structures and Materials</i> , 2010 , 12, 591-619	2.1	15
31	Buckling of the CCFF orthotropic rectangular plates under in-plane pure bending. <i>Composite Structures</i> , 2010 , 92, 1423-1431	5.3	14
30	Fundamental frequency of the CCCF composite sandwich plate. <i>Composite Structures</i> , 2010 , 92, 2747-2757.	5.3	18
29	Modal analysis of the thin-walled composite spoke of an umbrella-type deployable space antenna. <i>Composite Structures</i> , 2009 , 88, 46-55	5.3	13
28	Buckling of the SSFF rectangular orthotropic plate under in-plane pure bending. <i>Composite Structures</i> , 2009 , 90, 287-294	5.3	11
27	Numerical simulation of the dynamic thermostructural response of a composite rocket nozzle throat. <i>Composite Structures</i> , 2009 , 91, 412-420	5.3	12
26	Symmetrical Facing Wrinkling of Composite Sandwich Panels. <i>Journal of Sandwich Structures and Materials</i> , 2008 , 10, 475-497	2.1	15
25	FUNDAMENTALS OF MECHANICS OF SOLIDS 2007 , 31-56		
24	MECHANICS OF A COMPOSITE LAYER 2007 , 133-254		1

23	MECHANICS OF LAMINATES 2007 , 255-320		13
22	FAILURE CRITERIA AND STRENGTH OF LAMINATES 2007 , 321-357		
21	ENVIRONMENTAL, SPECIAL LOADING, AND MANUFACTURING EFFECTS 2007 , 359-435		
20	MECHANICS OF A UNIDIRECTIONAL PLY 2007 , 57-132		2
19	OPTIMAL COMPOSITE STRUCTURES 2007 , 437-480		
18	Fifteenth International Conference on Composite Materials (ICCM-15), 27 June–1 July 2005, Durban, South Africa. <i>Composite Structures</i> , 2006 , 76, 1	5-3	3
17	The effect of filament-winding mosaic patterns on the strength of thin-walled composite shells. <i>Composite Structures</i> , 2006 , 76, 123-129	5-3	50
16	Simulating the progressive crushing of fabric reinforced composite structures. <i>Composite Structures</i> , 2006 , 76, 130-137	5-3	3
15	Design Optimisation of Wind-Loaded Cylindrical Silos Made from Composite Materials. <i>Mathematics in Industry</i> , 2006 , 371-375	0.2	
14	Damage model development for SMC composites. <i>Composite Structures</i> , 2003 , 62, 373-378	5-3	6
13	Impact damage tolerance of laminated composite helicopter blades. <i>Composite Structures</i> , 2003 , 62, 367-371	5-3	18
12	Determination of the shear modulus of orthotropic materials from off-axis tension tests. <i>Composite Structures</i> , 2003 , 62, 379-382	5-3	22
11	Progressive damage modelling of SMC composite materials. <i>Composite Structures</i> , 2003 , 62, 361-366	5-3	16
10	Aeroelastic interaction of the shock waves with the thin-walled composite shells. <i>Composite Structures</i> , 2001 , 54, 153-159	5-3	4
9	Theoretical and experimental analysis of the deformability of filament wound composite shells under axial compressive loading. <i>Composite Structures</i> , 2001 , 54, 255-260	5-3	6
8	Application of the boundary-layer theory to the analysis of composite shells of revolution. <i>Composite Structures</i> , 2001 , 54, 261-265	5-3	2
7	Dynamic analysis of orthotropic shells by the grid-characteristic method. <i>Composite Structures</i> , 2000 , 48, 91-94	5-3	2
6	Thermoelasticity of spatially reinforced composite plates. <i>Composite Structures</i> , 2000 , 48, 129-133	5-3	

- 5 Nonlinear fracture analysis of hybrid polymer composite materials and structures. *Composite Structures*, **2000**, 48, 135-138 5.3 1
- 4 Explicit finite difference method in the dynamic analysis of composite structures. *Composite Structures*, **1997**, 39, 215-221 5.3 2
- 3 Applied theory of spatially reinforced composite shells. *Mechanics of Composite Materials*, **1988**, 24, 393-400 6
- 2 Combined theoretical and experimental method of determining residual stresses in wound composite shells. *Mechanics of Composite Materials*, **1988**, 23, 802-807 1.1 4
- 1 Optimal reinforcement trajectories for a composite shell of revolution formed by the winding method. *Mechanics of Composite Materials*, **1985**, 21, 227-231 1.1