

Evgeny Morozov

List of Publications by Citations

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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 and buckling analysis of anisogrid composite lattice cylindrical shells. <i>Composite Structures</i> , 2011 , 93, 308-323	5.3	87
129	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
128	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
127	Vibration-based inverse algorithms for detection of delamination in composites. <i>Composite Structures</i> , 2013 , 102, 226-236	5.3	75
126	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
125	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
124	Vibration-based delamination detection in composite beams through frequency changes. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 496-512	2	43
123	Impact behaviour of Dyneema [®] fabric-reinforced composites with different resin matrices. <i>Polymer Testing</i> , 2017 , 61, 17-26	4.5	41
122	Buckling analysis and design of anisogrid composite lattice conical shells. <i>Composite Structures</i> , 2011 , 93, 3150-3162	5.3	41
121	Insight into the shear behaviour of composite sandwich panels with foam core. <i>Materials & Design</i> , 2013 , 50, 92-101		40
120	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
119	Vibration-based assessment of delaminations in FRP composite plates. <i>Composites Part B: Engineering</i> , 2018 , 144, 254-266	10	38
118	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
117	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
116	Improved methodology for design of low wind speed specific wind turbine blades. <i>Composite Structures</i> , 2015 , 119, 677-684	5.3	32
115	Performance of outside filament-wound hybrid FRP-concrete beams. <i>Composites Part B: Engineering</i> , 2011 , 42, 907-915	10	32
114	Buckling of composite cylindrical shells with rigid end disks under hydrostatic pressure. <i>Composite Structures</i> , 2017 , 173, 136-143	5.3	31

113	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
112	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
111	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
110	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
109	Determination of the shear modulus of orthotropic materials from off-axis tension tests. <i>Composite Structures</i> , 2003 , 62, 379-382	5.3	22
108	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
107	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
106	Analysis of flexural behaviour of reinforced thermoplastic pipes considering material nonlinearity. <i>Composite Structures</i> , 2015 , 119, 385-393	5.3	20
105	Buckling of uniaxially compressed composite anisogrid lattice cylindrical panel with clamped edges. <i>Composite Structures</i> , 2017 , 160, 765-772	5.3	19
104	Fundamental frequency of the CCCF composite sandwich plate. <i>Composite Structures</i> , 2010 , 92, 2747-2757	5.3	18
103	Impact damage tolerance of laminated composite helicopter blades. <i>Composite Structures</i> , 2003 , 62, 367-371	5.3	18
102	Sensitivity analysis of inverse algorithms for damage detection in composites. <i>Composite Structures</i> , 2017 , 176, 844-859	5.3	17
101	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
100	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
99	Progressive damage modelling of SMC composite materials. <i>Composite Structures</i> , 2003 , 62, 361-366	5.3	16
98	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
97	Fundamental Frequency of Fully Clamped Composite Sandwich Plate. <i>Journal of Sandwich Structures and Materials</i> , 2010 , 12, 591-619	2.1	15
96	Symmetrical Facing Wrinkling of Composite Sandwich Panels. <i>Journal of Sandwich Structures and Materials</i> , 2008 , 10, 475-497	2.1	15

95	Fundamental frequency of a cantilever composite filament-wound anisogrid lattice cylindrical shell. <i>Composite Structures</i> , 2015 , 133, 564-575	5-3	14
94	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
93	Fundamental frequency and design of the CFCF composite sandwich plate. <i>Composite Structures</i> , 2011 , 93, 983-991	5-3	14
92	Buckling of the CCFF orthotropic rectangular plates under in-plane pure bending. <i>Composite Structures</i> , 2010 , 92, 1423-1431	5-3	14
91	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
90	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
89	Mechanics of laminates 2013 , 243-297		13
88	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
87	MECHANICS OF LAMINATES 2007 , 255-320		13
86	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
85	Numerical simulation of the dynamic thermostructural response of a composite rocket nozzle throat. <i>Composite Structures</i> , 2009 , 91, 412-420	5-3	12
84	Tailored local design of deep sea FRP composite risers. <i>Advanced Composite Materials</i> , 2015 , 24, 375-397	2.8	11
83	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
82	Mechanics of a Composite Layer 2018 , 75-189		11
81	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
80	Buckling of the SSFF rectangular orthotropic plate under in-plane pure bending. <i>Composite Structures</i> , 2009 , 90, 287-294	5-3	11
79	Buckling of uniaxially compressed composite anisogrid lattice plate with clamped edges. <i>Composite Structures</i> , 2016 , 157, 187-196	5-3	11
78	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

77	Fundamental frequency of a cantilever composite cylindrical shell. <i>Composite Structures</i> , 2015 , 119, 638-647	5.7	10
76	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
75	Approximate buckling analysis of the CCFF orthotropic plates subjected to in-plane bending. <i>International Journal of Mechanical Sciences</i> , 2014 , 85, 38-44	5.5	10
74	Buckling of the composite anisogrid lattice plate with clamped edges under shear load. <i>Composite Structures</i> , 2017 , 159, 72-80	5.3	10
73	Buckling of a uniformly compressed rectangular SSCF composite sandwich plate. <i>Composite Structures</i> , 2013 , 105, 108-115	5.3	10
72	Design and analysis of the composite lattice frame of a spacecraft solar array. <i>Composite Structures</i> , 2011 , 93, 1640-1648	5.3	10
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	On the mechanical behaviour of steel wire mesh subjected to low-velocity impact. <i>Thin-Walled Structures</i> , 2021 , 159, 107281	4.7	8
62	Axial vibrations of a composite anisogrid lattice cylindrical shell with end masses. <i>Composite Structures</i> , 2017 , 176, 1143-1151	5.3	7
61	Design, fabrication and testing of composite sandwich integral structure of spacecraft antenna. <i>Composite Structures</i> , 2015 , 134, 645-653	5.3	7
60	Buckling of a uniformly compressed composite rectangular CCCC sandwich plate. <i>Composite Structures</i> , 2014 , 108, 332-340	5.3	7

59	Mechanics of a composite layer 2013 , 125-241		7
58	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
57	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
56	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
55	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
54	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
53	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
52	Damage model development for SMC composites. <i>Composite Structures</i> , 2003 , 62, 373-378	5.3	6
51	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
50	Applied theory of spatially reinforced composite shells. <i>Mechanics of Composite Materials</i> , 1988 , 24, 393-400		6
49	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
48	On the impact response of UHMWPE woven fabrics: Experiments and simulations. <i>International Journal of Mechanical Sciences</i> , 2021 , 204, 106574	5.5	6
47	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
46	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
45	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
44	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
43	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
42	Fundamental frequency of a composite anisogrid lattice cylindrical panel with clamped edges. <i>Composite Structures</i> , 2018 , 201, 200-207	5.3	4

41	Aeroelastic interaction of the shock waves with the thin-walled composite shells. <i>Composite Structures</i> , 2001 , 54, 153-159	5-3	4
40	Combined theoretical and experimental method of determining residual stresses in wound composite shells. <i>Mechanics of Composite Materials</i> , 1988 , 23, 802-807	1-1	4
39	Fifteenth International Conference on Composite Materials (ICCM-15), 27 June– July 2005, Durban, South Africa. <i>Composite Structures</i> , 2006 , 76, 1	5-3	3
38	Simulating the progressive crushing of fabric reinforced composite structures. <i>Composite Structures</i> , 2006 , 76, 130-137	5-3	3
37	Microstructure and hardness variation of additively manufactured TiNiTi functionally graded composites. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158976	5-7	3
36	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
35	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
34	Fundamental frequency of an orthotropic rectangular plate with an internal centre point support. <i>Composite Structures</i> , 2011 , 93, 2487-2495	5-3	2
33	Graphical Detection Method for Delaminations. <i>Applied Mechanics and Materials</i> , 2011 , 66-68, 1410-1415	0-3	2
32	Explicit finite difference method in the dynamic analysis of composite structures. <i>Composite Structures</i> , 1997 , 39, 215-221	5-3	2
31	MECHANICS OF A UNIDIRECTIONAL PLY 2007 , 57-132		2
30	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
29	Dynamic analysis of orthotropic shells by the grid-characteristic method. <i>Composite Structures</i> , 2000 , 48, 91-94	5-3	2
28	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
27	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
26	Failure criteria and strength of laminates 2013 , 299-352		1
25	Optimal composite structures 2013 , 745-796		1
24	Computational Analysis of Low Velocity Impact Response of Composite Panels. <i>Applied Mechanics and Materials</i> , 2012 , 157-158, 1135-1138	0-3	1

23	MECHANICS OF A COMPOSITE LAYER 2007 , 133-254		1
22	Nonlinear fracture analysis of hybrid polymer composite materials and structures. <i>Composite Structures</i> , 2000 , 48, 135-138	5.3	1
21	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
20	Microstructure Evolution of Additively Manufactured TiC Reinforced Graded Metal Matrix Composite. <i>Minerals, Metals and Materials Series</i> , 2020 , 319-328	0.3	1
19	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
18	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
17	Shells of Revolution 2018 , 761-785		1
16	Mechanics of Laminates 2018 , 191-242		0
15	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
14	Fundamental frequency of fully clamped antisymmetric angle-ply laminated plates with structural anisotropy. <i>Composite Structures</i> , 2018 , 202, 530-538	5.3	
13	Circular Cylindrical Shells 2018 , 687-759		
12	Failure Criteria and Strength of Laminates 2018 , 243-294		
11	Laminated Composite Plates 2018 , 437-574		
10	Computing, Consciously. <i>IEEE Spectrum</i> , 2014 , 51, 29-29	1.7	
9	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
8	FUNDAMENTALS OF MECHANICS OF SOLIDS 2007 , 31-56		
7	FAILURE CRITERIA AND STRENGTH OF LAMINATES 2007 , 321-357		
6	ENVIRONMENTAL, SPECIAL LOADING, AND MANUFACTURING EFFECTS 2007 , 359-435		

5 OPTIMAL COMPOSITE STRUCTURES **2007**, 437-480

4 Thermoelasticity of spatially reinforced composite plates. *Composite Structures*, **2000**, 48, 129-133 5.3

3 Optimal reinforcement trajectories for a composite shell of revolution formed by the winding method. *Mechanics of Composite Materials*, **1985**, 21, 227-231 1.1

2 Design Optimisation of Wind-Loaded Cylindrical Silos Made from Composite Materials. *Mathematics in Industry*, **2006**, 371-375 0.2

1 Compressive behaviour of carbon fibre reinforced thermoplastic lattice structures **2019**, 480-485