Paul m Weaver

List of Publications by Year
in descending order

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431 papers	13,590 citations	22153 59 h-index	36028 97 g-index
434 all docs	434 docs citations	434 times ranked	8624 citing authors

#	Article	IF	Citations
1	Analytical solution for arbitrary large deflection of geometrically exact beams using the homotopy analysis method. Applied Mathematical Modelling, 2022, 103, 516-542.	4.2	11
2	Manufacture and buckling test of a variable-stiffness, variable-thickness composite cylinder under axial compression. , 2022, , .		6
3	Analytical plane-stress recovery of non-prismatic beams under partial cross-sectional loads and surface forces. Engineering Structures, 2022, 252, 113169.	5.3	5
4	Design of Variable Stiffness Super Ellipsoidal Pressure Vessels under Thermo-mechanical Loading. , 2022, , .		1
5	Geometrically nonlinear analysis of non-prismatic beam structures using strong Unified Formulation. , 2022, , .		1
6	Effect of weave pattern on high strain rate performance of glass/<scp>polytetrafluoroethylene</scp> composites. Polymer Composites, 2022, 43, 1809-1822.	4.6	4
7	Experimental and numerical study of bending-induced buckling of stiffened composite plate assemblies. Composites Part B: Engineering, 2022, 233, 109642.	12.0	7
8	Exact analytical solution for static deflection of Timoshenko composite beams on two-parameter elastic foundations. Thin-Walled Structures, 2022, 172, 108812.	5.3	10
9	Inverse differential quadrature method for structural analysis of composite plates. Computers and Structures, 2022, 263, 106745.	4.4	26
10	Dynamic analysis of prestressed variable stiffness composite shell structures. Thin-Walled Structures, 2022, 175, 109193.	5.3	18
11	Experimental quality assessment of thermoplastic composite corner regions manufactured using laser-assisted tape placement. Composite Structures, 2022, 297, 115911.	5.8	1
12	Variable stiffness composite beams subject to non-uniformly distributed loads: An analytical solution. Composite Structures, 2021, 256, 112975.	5.8	14
13	A semi-analytical approach based on the variational iteration method for static analysis of composite beams. Composite Structures, 2021, 257, 113110.	5.8	10
14	A mixed inverse differential quadrature method for static analysis of constant- and variable-stiffness laminated beams based on Hellinger-Reissner mixed variational formulation. International Journal of Solids and Structures, 2021, 210-211, 66-87.	2.7	28
15	An isogeometric framework for the optimal design of variable stiffness shells undergoing large deformations. International Journal of Solids and Structures, 2021, 210-211, 18-34.	2.7	29
16	A method using beam search to design the lay-ups of composite laminates with many plies. Composites Part C: Open Access, 2021, 4, 100072.	3.2	3
17	Design considerations for composite cylindrical shells on elastic foundations subject to compression buckling. Composite Structures, 2021, 258, 113176.	5.8	5
18	Morphing of symmetric cross-ply cylindrical shells by minimising the Brazier moment: Optimised hinge folding. Thin-Walled Structures, 2021, 158, 107122.	5.3	8

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19	Continuous Tow Steering around an Elliptical Cut-out in a Composite Panel. , 2021, , .		5
20	Design Factors for Anisotropic Composite Cylindrical Shells Subject to Compression Buckling on Elastic Foundations. , 2021, , .		0
21	A generalized nonlinear strong Unified Formulation for large deflection analysis of composite beam structures. , 2021, , .		3
22	Exact Solutions for the Linear Static Response of Composite Beams Under Arbitrary Loading and Boundary Conditions. , 2021, , .		0
23	Folding of flexible hinges for aircraft wingtips and wind turbine blades. , 2021, , .		2
24	Optimisation of Imperfection-Insensitive Continuous Tow Sheared Rocket Launch Structures. , 2021, , .		5
25	Imperfection-insensitive continuous tow-sheared cylinders. Composite Structures, 2021, 260, 113445.	5.8	15
26	A repair algorithm for composite laminates to satisfy lay-up design guidelines. Composite Structures, 2021, 259, 113448.	5.8	12
27	Closed-form solutions for the coupled deflection of anisotropic Eulerâ€“Bernoulli composite beams with arbitrary boundary conditions. Thin-Walled Structures, 2021, 161, 107479.	5.3	8
28	Three-dimensional effects influencing failure in bend-free, variable stiffness composite pressure vessels. Composite Structures, 2021, 262, 113346.	5.8	16
29	Inverse differential quadrature method: mathematical formulation and error analysis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200815.	2.1	9
30	Thermal stresses in composite cylindrical lattices. Composite Structures, 2021, 266, 113747.	5.8	1
31	Efficient three-dimensional geometrically nonlinear analysis of variable stiffness composite beams using strong Unified Formulation. Thin-Walled Structures, 2021, 163, 107672.	5.3	10
32	Closed form solutions for an anisotropic composite beam on a two-parameter elastic foundation. European Journal of Mechanics, A/Solids, 2021, 88, 104245.	3.7	14
33	Flexible hinges in orthotropic cylindrical shells facilitated by nonlinear elastic deformations. Composite Structures, 2021, 268, 113726.	5.8	3
34	Eigenfrequencies of prestressed variable stiffness composite shells. Composite Structures, 2021, 270, 114019.	5.8	17
35	Static analysis of composite beams on variable stiffness elastic foundations by the Homotopy Analysis Method. Acta Mechanica, 2021, 232, 4169-4188.	2.1	7
36	Reconfigurable helical lattices via topological morphing. Materials and Design, 2021, 206, 109769.	7.0	6

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37	Abrasive wear performance of hygrothermally aged glass/PTFE composites. Polymer Testing, 2021, 103, 107369.	4.8	10
38	Efficient strong Unified Formulation for stress analysis of non-prismatic beam structures. Composite Structures, 2021, 272, 114190.	5.8	8
39	Continuous Tow Steering Around an Elliptical Cutout in a Composite Panel. AIAA Journal, 2021, 59, 5117-5129.	2.6	11
40	Effect of elastic support on the linear buckling response of quasi-isotropic cylindrical shells under axial compression. Engineering Structures, 2021, 244, 112796.	5.3	5
41	Buckling-resistant topological design using sensitivities to variations in localised nominal stiffness. Thin-Walled Structures, 2021, 167, 108150.	5.3	0
42	Stress analysis of generally asymmetric non-prismatic beams subject to arbitrary loads. European Journal of Mechanics, A/Solids, 2021, 90, 104284.	3.7	11
43	Toroidal deployment of morphing cylindrical lattices. Composite Structures, 2021, 276, 114577.	5.8	7
44	Size-dependent bending modulus of fibre composite laminates comprising unidirectional plies. International Journal of Solids and Structures, 2021, 230-231, 111162.	2.7	0
45	A variable-topology morphing composite cylindrical lattice. Composite Structures, 2021, 276, 114542.	5.8	2
46	Effective bending modulus of thin-ply composites with non-uniform fibre spacing. Composite Structures, 2021, 278, 114660.	5.8	1
47	Design of a unitized thermoplastic composite out-of-autoclave three-bay wingbox demonstrator. , 2021, , .		1
48	Effect of Wall Thickness and Node Diaphragms on the Buckling Behavior of Bamboo Culm. Advances in Intelligent Systems and Computing, 2021, , 637-647.	0.6	0
49	A semi-analytical approach for the analysis of variable-stiffness panels with curvilinear stiffeners. International Journal of Solids and Structures, 2020, 188-189, 244-260.	2.7	25
50	Morphing composite cylindrical lattices: Enhanced modelling and experiments. Journal of the Mechanics and Physics of Solids, 2020, 135, 103779.	4.8	22
51	Exact Solution for the Deflection of Composite Beams Under Non-Uniformly Distributed Loads. , 2020, , .		5
52	Morphing Composite Cylindrical Lattices: Thermal Effects and Actuation. , 2020, , .		3
53	A strain-displacement mixed formulation based on the modified couple stress theory for the flexural behaviour of laminated beams. Composites Part B: Engineering, 2020, 185, 107740.	12.0	12
54	Analytical solution for the fully coupled static response of variable stiffness composite beams. Applied Mathematical Modelling, 2020, 81, 16-36.	4.2	18

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55	Bend-free design of ellipsoids of revolution using variable stiffness composites. Composite Structures, 2020, 233, 111630.	5.8	11
56	Experimental characterisation and micromechanical models for luminescent phosphors incorporated with nonwoven veil-polymer composites. Composites Part B: Engineering, 2020, 202, 108444.	12.0	4
57	Post-buckling behaviour in variable stiffness cylindrical panels under compression loading with modal interaction effects. International Journal of Solids and Structures, 2020, 203, 92-109.	2.7	7
58	Structural Modeling of Compliance-Based Camber Morphing Structures Under Transverse Shear Loading. AIAA Journal, 2020, 58, 4941-4951.	2.6	9
59	In-line variable spreading of carbon fibre/thermoplastic pre-preg tapes for application in automatic tape placement. Materials and Design, 2020, 194, 108967.	7.0	18
60	Efficient modelling of beam-like structures with general non-prismatic, curved geometry. Computers and Structures, 2020, 240, 106339.	4.4	9
61	Efficient structural optimisation of a 20 MW wind turbine blade. Journal of Physics: Conference Series, 2020, 1618, 042025.	0.4	4
62	Morphing lattice boom for space applications. Composites Part B: Engineering, 2020, 202, 108441.	12.0	16
63	Influence of repass treatment on carbon fibre-reinforced PEEK composites manufactured using laser-assisted automatic tape placement. Composite Structures, 2020, 248, 112539.	5.8	38
64	Design considerations for variable stiffness, doubly curved composite plates. Composite Structures, 2020, 244, 112170.	5.8	10
65	An efficient semi-analytical framework to tailor snap-through loads in bistable variable stiffness laminates. International Journal of Solids and Structures, 2020, 195, 91-107.	2.7	30
66	Morphology of ply drops in thermoplastic composite materials manufactured using laser-assisted tape placement. Composite Structures, 2020, 251, 112638.	5.8	4
67	Reconsidering Laminate Nonsymmetry. AIAA Journal, 2020, 58, 1811-1820.	2.6	0
68	The role of symmetry in the post-buckling behaviour of structures. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190609.	2.1	6
69	Spreading of Carbon Fiber/Thermoplastic Pre-preg Tapes. , 2020, , .		2
70	Static deflection of fully coupled composite Timoshenko beams: An exact analytical solution. European Journal of Mechanics, A/Solids, 2020, 81, 103975.	3.7	20
71	Ritz Solution for Transient Analysis of Variable-Stiffness Shell Structures. AIAA Journal, 2020, 58, 1796-1810.	2.6	25
72	Corotational Finite Element Formulation for Static Nonlinear Analyses with Enriched Beam Elements. AIAA Journal, 2020, 58, 2276-2292.	2.6	4

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73	Bend-free design of super ellipsoids of revolution composite pressure vessels. Composite Structures, 2020, 245, 112283.	5.8	15
74	Static test of a variable stiffness thermoplastic composite wingbox under shear, bending and torsion. Aeronautical Journal, 2020, 124, 635-666.	1.6	9
75	Effective bending modulus of thin ply fibre composites with uniform fibre spacing. International Journal of Solids and Structures, 2020, 196-197, 26-40.	2.7	8
76	Mechanical and abrasive wear response of PTFE coated glass fabric composites. Wear, 2020, 450-451, 203267.	3.1	12
77	Enhanced Deterministic Performance of Panels Using Stochastic Variations of Geometry and Material. AIAA Journal, 2020, 58, 2307-2320.	2.6	6
78	Koiter Method and Solid Shell Finite Elements for Postbuckling Optimisation of Variable Angle Tow Composite Structures. Lecture Notes in Mechanical Engineering, 2020, , 1731-1742.	0.4	2
79	Piecewise linear aeroelastic rotor-tower models for efficient wind turbine simulations. Journal of Physics: Conference Series, 2020, 1618, 042033.	0.4	0
80	Large deflection of functionally graded porous beams based on a geometrically exact theory with a fully intrinsic formulation. Applied Mathematical Modelling, 2019, 76, 938-957.	4.2	39
81	Comparison of weak and strong formulations for 3D stress predictions of composite beam structures. International Journal of Solids and Structures, 2019, 178-179, 145-166.	2.7	13
82	Bistable composite helices with thermal effects. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190295.	2.1	5
83	3D static analysis of patched composite laminates using a multidomain differential quadrature method. Composite Structures, 2019, 229, 111389.	5.8	10
84	On the accuracy of localised 3D stress fields in tow-steered laminated composite structures. Composite Structures, 2019, 225, 111034.	5.8	14
85	Geometrically nonlinear finite element model for predicting failure in composite structures. Composite Structures, 2019, 225, 111068.	5.8	5
86	Progressive Failure Analysis Using Global-Local Coupling Including Intralaminar Failure and Debonding. AIAA Journal, 2019, 57, 3078-3089.	2.6	13
87	Dynamic instability of curved variable angle tow composite panel under axial compression. Thin-Walled Structures, 2019, 138, 302-312.	5.3	20
88	Postbuckling optimisation of a variable angle tow composite wingbox using a multi-modal Koiter approach. Thin-Walled Structures, 2019, 138, 183-198.	5.3	66
89	Properties of a thermoplastic composite skin-stiffener interface in a stiffened structure manufactured by laser-assisted tape placement with in situ consolidation. Composite Structures, 2019, 214, 123-131.	5.8	21
90	Making a Case for Creating Living Labs for Aging-in-Place: Enabling Socially Innovative Models for Experimentation and Complementary Economies. Frontiers in Sociology, 2019, 4, 19.	2.0	4

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91	Efficient 3D Stress Capture of Variable-Stiffness and Sandwich Beam Structures. AIAA Journal, 2019, 57, 4042-4056.	2.6	12
92	Design, Manufacture and Test of an In-Situ Consolidated Thermoplastic Variable-Stiffness Wingbox. AIAA Journal, 2019, 57, 1671-1683.	2.6	30
93	A study of the influence of processing parameters on steering of carbon Fibre/PEEK tapes using laser-assisted tape placement. Composites Part B: Engineering, 2019, 163, 243-251.	12.0	58
94	Structural Modelling of Compliance-Based Morphing Structures under Transverse Shear Loading. , 2019, , .		2
95	Concurrent design and manufacture of a thermoplastic composite stiffener. Composite Structures, 2019, 212, 271-280.	5.8	21
96	Enhanced Deterministic Performance of Panels Using Stochastic Variations of Geometric and Material Parameters. , 2019, , .		1
97	Efficient 3D Stress Capture of Variable Stiffness and Sandwich Beam Structures. , 2019, , .		2
98	Comparing the effect of geometry and stiffness on the effective load paths in non-symmetric laminates. , 2019, , .		0
99	Field testing of morphing flaps on a wind turbine blade using an outdoor rotating rig. Renewable Energy, 2019, 133, 53-65.	8.9	16
100	Transformative social innovation and (dis)empowerment. Technological Forecasting and Social Change, 2019, 145, 195-206.	11.6	281
101	Compact Telescopic Morphing Lattice Boom. , 2019, , .		2
102	Three-dimensional stress analysis for beam-like structures using Serendipity Lagrange shape functions. International Journal of Solids and Structures, 2018, 141-142, 279-296.	2.7	29
103	Optimal Postbuckling Design of Variable Angle Tow Composite Plates. AIAA Journal, 2018, 56, 2045-2061.	2.6	28
104	Tailoring Snap-through Loads in Variable Stiffness Composites. , 2018, , .		2
105	Buckling analysis of variable angle tow composite plates with a through-the-width or an embedded rectangular delamination. International Journal of Solids and Structures, 2018, 138, 166-180.	2.7	41
106	Design, optimization and manufacturing of a unitized carbon fiber/thermoplastic wingbox structure. , 2018, , .		4
107	Asymptotic homogenization for modeling of wingbox structures. , 2018, , .		0
108	Steering of Carbon Fiber/Thermoplastic Pre-preg Tapes using Laser-Assisted Tape Placement. , 2018, , .		3

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109	Thermoplastic Composite Stiffener Design with Manufacturing Considerations. , 2018, , .		2
110	Enhanced Buckling Performance of a Stiffened, Variable Angle Tow Thermoplastic Composite Panel. , 2018, , .		0
111	Interface Characterization of Thermoplastic Skin-Stiffener Composite Manufactured using Laser-Assisted Tape Placement. , 2018, , .		7
112	Static Test of a Thermoplastic Composite Wingbox Under Shear and Bending Moment. , 2018, , .		5
113	Finite Beam Elements for Variable Stiffness Structures. AIAA Journal, 2018, 56, 3362-3368.	2.6	5
114	Correction: Static Test of a Thermoplastic Composite Wingbox Under Shear and Bending Moment. , 2018, , .		5
115	Parametric structural modelling of fish bone active camber morphing aerofoils. Journal of Intelligent Material Systems and Structures, 2018, 29, 2008-2026.	2.5	17
116	Optimisation of composite structures â€“ Enforcing the feasibility of lamination parameter constraints with computationally-efficient maps. Composite Structures, 2018, 192, 605-615.	5.8	23
117	Thermo-mechanical post-buckling analysis of variable angle tow composite plate assemblies. Composite Structures, 2018, 183, 620-635.	5.8	45
118	Optimization of postbuckling behaviour of variable thickness composite panels with variable angle tows: Towards â€œBuckle-Freeâ€•design concept. International Journal of Solids and Structures, 2018, 132-133, 66-79.	2.7	61
119	Dynamics and control of twisting bi-stable structures. Smart Materials and Structures, 2018, 27, 025006.	3.5	25
120	Design and mechanical testing of a variable stiffness morphing trailing edge flap. Journal of Intelligent Material Systems and Structures, 2018, 29, 669-683.	2.5	15
121	Aerodynamic and load control performance testing of a morphing trailing edge flap system on an outdoor rotating test rig. Journal of Physics: Conference Series, 2018, 1037, 022018.	0.4	4
122	Design and testing of a passively adaptive inlet. Smart Materials and Structures, 2018, 27, 085019.	3.5	12
123	Three-dimensional stress analysis for laminated composite and sandwich structures. Composites Part B: Engineering, 2018, 155, 299-328.	12.0	46
124	Analysis of skin-stringer debonding in composite panels through a two-way global-local method. Composite Structures, 2018, 202, 1280-1294.	5.8	28
125	Simplified and Accurate Stiffness of a Prismatic Anisotropic Thin-Walled Box. The Open Mechanical Engineering Journal, 2018, 12, 1-20.	0.3	3
126	Lay-up Optimization of Laminated Composites Using a Modified Branch and Bound Method. The Open Mechanical Engineering Journal, 2018, 12, 138-150.	0.3	5

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127	Realistic Stacking Sequence Optimisation of an Aero-Engine Fan Blade-Like Structure Subjected to Frequency, Deformation and Manufacturing Constraints. The Open Mechanical Engineering Journal, 2018, 12, 151-163.	0.3	5
128	Simplified analytical model for tapered sandwich beams using variable stiffness materials. Journal of Sandwich Structures and Materials, 2017, 19, 3-25.	3.5	17
129	A novel span-wise morphing trailing edge concept. , 2017, , .		2
130	A Multifunctional Tape Spring Boom with Embedded Gas Lines and Flexible Printed Circuit Boards. , 2017, , .		1
131	Aeroelastic Tailoring using the Spars and Stringers Planform Geometry. , 2017, , .		7
132	A Finite Beam Element Framework for Variable Stiffness Structures. , 2017, , .		2
133	Investigation of failure initiation in curved composite laminates using a higher-order beam model. Composite Structures, 2017, 168, 143-152.	5.8	10
134	RAPID analysis of variable stiffness beams and plates: Legendre polynomial tripleâ€product formulation. International Journal for Numerical Methods in Engineering, 2017, 112, 86-100.	2.8	1
135	Geometricâ€“material analogy for multiscale modelling of twisted plates. International Journal of Solids and Structures, 2017, 110-111, 24-35.	2.7	2
136	Aeroelastic Tailoring of a Representative Wing Box Using Tow-Steered Composites. AIAA Journal, 2017, 55, 1425-1439.	2.6	60
137	Adaptive compliant structures for flow regulation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170334.	2.1	43
138	Robust and Reliability-Based Aeroelastic Design of Composite Plate Wings. AIAA Journal, 2017, 55, 3539-3552.	2.6	15
139	Soft Photochemical Actuation Systems: Tuning Performance Through Solvent Selection. , 2017, , .		0
140	Effects of aeroelastic tailoring on performance characteristics of wind turbine systems. Renewable Energy, 2017, 114, 887-903.	8.9	28
141	Post-buckling analysis of variable-angle tow composite plates using Koiter's approach and the finite element method. Thin-Walled Structures, 2017, 110, 1-13.	5.3	63
142	Analysis and Design for the Moderately Deep Postbuckling Behavior of Composite Plates. Journal of Aircraft, 2017, 54, 327-335.	2.4	6
143	Thermal-mechanical optimization of V-pattern folded core sandwich panels for thermal protection systems. , 2017, , .		1
144	Thermal-Mechanical Optimization of Folded Core Sandwich Panels for Thermal Protection Systems of Space Vehicles. International Journal of Aerospace Engineering, 2017, 2017, 1-12.	0.9	7

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145	Light-Triggered Soft Artificial Muscles:ÂMolecular-Level Amplification of Actuation Control Signals. Scientific Reports, 2017, 7, 9197.	3.3	41
146	Aeroelastic tailoring using crenellated skins-modelling and experiment. Advances in Aircraft and Spacecraft Science, 2017, 4, 93-124.	0.5	2
147	Interpretation of Bending/Torsion Coupling for Swept, Nonhomogenous Wings. Journal of Aircraft, 2016, 53, 892-899.	2.4	13
148	The economic crisis as a game changer? Exploring the role of social construction in sustainability transitions. Ecology and Society, 2016, 21, .	2.3	32
149	Aerodynamic and aeroacoustic performance of airfoils with morphing structures. Wind Energy, 2016, 19, 1325-1339.	4.2	59
150	Experimenting with alternative economies: four emergent counter-narratives of urban economic development. Current Opinion in Environmental Sustainability, 2016, 22, 69-74.	6.3	41
151	A computationally efficient 2D model for inherently equilibrated 3D stress predictions in heterogeneous laminated plates. Part II: Model validation. Composite Structures, 2016, 156, 186-217.	5.8	30
152	Towards imperfection insensitive buckling response of shell structures-shells with plate-like post-buckled responses. Aeronautical Journal, 2016, 120, 233-253.	1.6	42
153	Characterisation of lead barium zirconate thin films for utilisation of the electrocaloric effect. Materials Chemistry and Physics, 2016, 178, 74-81.	4.0	0
154	Stiffness tailoring of elliptical composite cylinders for axial buckling performance. Composite Structures, 2016, 150, 115-123.	5.8	43
155	Thermally Driven Morphing and Snap-Through Behavior of Hybrid Laminate Shells. AIAA Journal, 2016, 54, 1778-1788.	2.6	25
156	Biomimetic photo-actuation: progress and challenges. , 2016, , .		1
157	A computationally efficient 2D model for inherently equilibrated 3D stress predictions in heterogeneous laminated plates. Part I: Model formulation. Composite Structures, 2016, 156, 171-185.	5.8	38
158	Mixed shell element for static and buckling analysis of variable angle tow composite plates. Composite Structures, 2016, 152, 324-338.	5.8	43
159	Deleterious localized stress fields: the effects of boundaries and stiffness tailoring in anisotropic laminated plates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160391.	2.1	8
160	Higher-order beam model for stress predictions in curved beams made from anisotropic materials. International Journal of Solids and Structures, 2016, 97-98, 16-28.	2.7	26
161	Gust response of aeroelastically tailored wind turbines. Journal of Physics: Conference Series, 2016, 753, 042006.	0.4	4
162	Ferroelectric materials for fusion energy applications. Journal of Materials Chemistry A, 2016, 4, 10394-10402.	10.3	7

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163	Buckling analysis, design and optimisation of variable-stiffness sandwich panels. International Journal of Solids and Structures, 2016, 96, 217-228.	2.7	49
164	Postâ€buckling optimization of composite structures using Koiter's method. International Journal for Numerical Methods in Engineering, 2016, 108, 902-940.	2.8	39
165	Design optimization of a morphing flap device using variable stiffness materials. , 2016, , .		2
166	Impact of the Wing Sweep Angle and Rib Orientation on Wing Structural Response for Un-Tapered Wings. , 2016, , .		2
167	Effects of Long-Term Stowage on the Deployment of Bistable Tape Springs. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	55
168	Imperfection Insensitivity Analyses of Advanced Composite Tow-Steered Shells. , 2016, , .		8
169	Thermally-Driven Morphing with High Temperature Composites. , 2016, , .		1
170	Can tailored non-linearity of hierarchical structures inform future material development?. Extreme Mechanics Letters, 2016, 7, 1-9.	4.1	6
171	Optimal Postbuckling Design of Variable Angle Tow Composites using Lamination Parameters. , 2015, , .		14
172	Buckling analysis and optimization of blade stiffened variable stiffness panels. , 2015, , .		7
173	Post-buckling analyses of variable-stiffness composite cylinders in axial compression. Composite Structures, 2015, 123, 190-203.	5.8	82
174	Concept for morphing airfoil with zero torsional stiffness. Thin-Walled Structures, 2015, 94, 129-134.	5.3	22
175	A series elastic composite actuator for soft arm exosuits. , 2015, , .		18
176	Morphing structures: non-linear composite shells with irregular planforms. , 2015, , .		3
177	High temperature measurement and characterisation of piezoelectric properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 9268-9278.	2.2	17
178	Structural Efficiency Measures for Sections Under Asymmetric Bending. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	3
179	On displacement-based and mixed-variational equivalent single layer theories for modelling highly heterogeneous laminated beams. International Journal of Solids and Structures, 2015, 59, 147-170.	2.7	58
180	Buckling and postbuckling of variable angle tow composite plates under in-plane shear loading. International Journal of Solids and Structures, 2015, 58, 270-287.	2.7	58

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181	ZnO nanorod surface modification with PDDA/PSS Bi-layer assembly for performance improvement of ZnO piezoelectric energy harvesting devices. Journal of Sol-Gel Science and Technology, 2015, 73, 544-549.	2.4	9
182	Surface mapping of field-induced piezoelectric strain at elevated temperature employing full-field interferometry. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 88-96.	3.0	6
183	Mass Optimisation of Variable Angle Tow, Variable Thickness Panels with Static Failure and Buckling Constraints. , 2015, , .		16
184	Morphing shell structures: A generalised modelling approach. Composite Structures, 2015, 131, 1017-1027.	5.8	44
185	Optimization of Tow-Steered Composite Wing Laminates for Aeroelastic Tailoring. AIAA Journal, 2015, 53, 2203-2215.	2.6	52
186	Structural design of a novel aeroelastically tailored wind turbine blade. Thin-Walled Structures, 2015, 95, 7-15.	5.3	26
187	Modelling and Analysis of pH Responsive Hydrogels for the Development of Biomimetic Photo-Actuating Structures. Materials Research Society Symposia Proceedings, 2015, 1718, 65-70.	0.1	2
188	Computer aided modelling of variable angle tow composites manufactured by continuous tow shearing. Composite Structures, 2015, 129, 256-267.	5.8	54
189	Framework for the Buckling Optimization of Variable-Angle Tow Composite Plates. AIAA Journal, 2015, 53, 3788-3804.	2.6	120
190	Aeroelastic Tailoring using Rib/Spar Orientations: Experimental Investigation. , 2015, , .		8
191	On the Interpretation of Bending-Torsion Coupling for Swept, Non-Homogenous Wings. , 2015, , .		3
192	Robust Aeroelastic Design of a Composite Wing-Box. , 2015, , .		5
193	Thermally Driven Morphing with Hybrid Laminates and Metal Matrix Composites. , 2015, , .		6
194	Piezoelectric properties of template-free electrochemically grown ZnO nanorod arrays. Applied Surface Science, 2015, 356, 1214-1220.	6.1	54
195	Visible-light driven water splitting over BiFeO₃photoanodes grown via the LPCVD reaction of [Bi(O^tBu)₃] and [Fe(O^tBu)₃]₂and enhanced with a surface nickel oxygen evolution catalyst. Nanoscale, 2015, 7, 16343-16353.	5.6	55
196	Piezoelectric materials for high temperature transducers and actuators. Journal of Materials Science: Materials in Electronics, 2015, 26, 9256-9267.	2.2	109
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