

Raimund Rolfes

List of Publications by Year in descending order

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157
papers

3,973
citations

136950

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169
all docs

169
docs citations

169
times ranked

2287
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust design of composite cylindrical shells under axial compression – Simulation and validation. Thin-Walled Structures, 2008, 46, 947-962.	5.3	194
2	Modeling the inelastic deformation and fracture of polymer composites – Part I: Plasticity model. Mechanics of Materials, 2013, 59, 50-64.	3.2	140
3	IMPROVED TRANSVERSE SHEAR STRESSES IN COMPOSITE FINITE ELEMENTS BASED ON FIRST ORDER SHEAR DEFORMATION THEORY. International Journal for Numerical Methods in Engineering, 1997, 40, 51-60.	2.8	131
4	COCOMAT – improved material exploitation of composite airframe structures by accurate simulation of postbuckling and collapse. Composite Structures, 2006, 73, 175-178.	5.8	113
5	Progressive damage analysis of composite bolted joints with liquid shim layers using constant and continuous degradation models. Composite Structures, 2010, 92, 189-200.	5.8	112
6	Modeling the inelastic deformation and fracture of polymer composites – Part II: Smeared crack model. Mechanics of Materials, 2013, 59, 36-49.	3.2	103
7	Structural monitoring of wind turbines using wireless sensor networks. Smart Structures and Systems, 2010, 6, 183-196.	1.9	97
8	Multiscale progressive failure analysis of textile composites. Composites Science and Technology, 2010, 70, 61-72.	7.8	95
9	Transverse thermal conductivity of CFRP laminates: A numerical and experimental validation of approximation formulae. Composites Science and Technology, 1995, 54, 45-54.	7.8	94
10	Neural network assisted multiscale analysis for the elastic properties prediction of 3D braided composites under uncertainty. Composite Structures, 2018, 183, 550-562.	5.8	94
11	Evaluation of transverse thermal stresses in composite plates based on first-order shear deformation theory. Computer Methods in Applied Mechanics and Engineering, 1998, 167, 355-368.	6.6	79
12	POSICOSS – improved postbuckling simulation for design of fibre composite stiffened fuselage structures. Composite Structures, 2006, 73, 171-174.	5.8	71
13	Higher-order theories for thermal stresses in layered plates. International Journal of Solids and Structures, 2001, 38, 3673-3687.	2.7	68
14	A multi phase-field fracture model for long fiber reinforced composites based on the Puck theory of failure. Composite Structures, 2020, 251, 112446.	5.8	67
15	Revealing complex aspects of compressive failure of polymer composites – Part I: Fiber kinking at microscale. Composite Structures, 2017, 169, 105-115.	5.8	63
16	A phase field approach for ductile fracture of short fibre reinforced composites. Theoretical and Applied Fracture Mechanics, 2020, 106, 102495.	4.7	61
17	Efficient linear transverse normal stress analysis of layered composite plates. Computers and Structures, 1998, 68, 643-652.	4.4	60
18	Thermally induced multistable configurations of variable stiffness composite plates: Semi-analytical and finite element investigation. Composite Structures, 2018, 183, 161-175.	5.8	60

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19	PROBABILISTIC DESIGN OF AXIALLY COMPRESSED COMPOSITE CYLINDERS WITH GEOMETRIC AND LOADING IMPERFECTIONS. International Journal of Structural Stability and Dynamics, 2010, 10, 623-644.	2.4	57
20	A semi-analytical model for local post-buckling analysis of stringer- and frame-stiffened cylindrical panels. Thin-Walled Structures, 2006, 44, 102-114.	5.3	50
21	Finite deformation model for short fiber reinforced composites: Application to hybrid metal-composite clinching joints. Composite Structures, 2016, 151, 162-171.	5.8	47
22	Monitoring a 5MW offshore wind energy converterâ€™ Condition parameters and triangulation based extraction of modal parameters. Mechanical Systems and Signal Processing, 2013, 40, 322-343.	8.0	45
23	3D multiscale crack propagation using the XFEM applied to a gas turbine blade. Computational Mechanics, 2014, 53, 173-188.	4.0	43
24	Molecular modelling of epoxy resin crosslinking experimentally validated by near-infrared spectroscopy. Computational Materials Science, 2019, 161, 223-235.	3.0	41
25	High performance 3D-analysis of thermo-mechanically loaded composite structures. Composite Structures, 1999, 46, 367-379.	5.8	38
26	Design optimization of multistable variable-stiffness laminates. Mechanics of Advanced Materials and Structures, 2019, 26, 48-55.	2.6	38
27	A three-layered sandwich element with improved transverse shear stiffness and stresses based on FSDT. Computers and Structures, 2006, 84, 843-854.	4.4	37
28	An invariant-based anisotropic material model for short fiber-reinforced thermoplastics: Coupled thermo-plastic formulation. Composites Part A: Applied Science and Manufacturing, 2016, 90, 186-199.	7.6	37
29	Finite element model updating using deterministic optimisation: A global pattern search approach. Engineering Structures, 2019, 195, 373-381.	5.3	37
30	A physically based fatigue damage model for fibre-reinforced plastics under plane loading. International Journal of Fatigue, 2015, 70, 241-251.	5.7	36
31	Fast probabilistic design procedure for axially compressed composite cylinders. Composite Structures, 2011, 93, 3140-3140.	5.8	35
32	Towards a complete physically based forecast model for underwater noise related to impact pile driving. Journal of the Acoustical Society of America, 2015, 137, 1564-1575.	1.1	35
33	Revealing complex aspects of compressive failure of polymer composites â€™ Part II: Failure interactions in multidirectional laminates and validation. Composite Structures, 2017, 169, 116-128.	5.8	35
34	Elastic interphase properties of nanoparticle/epoxy nanocomposites: A molecular dynamics study. Composites Part B: Engineering, 2019, 176, 107211.	12.0	33
35	Mechanical properties of epoxy/boehmite nanocomposites in dependency of mass fraction and surface modification - An experimental and numerical approach. Polymer, 2018, 141, 34-45.	3.8	32
36	Mechanical conditions for stability and optimal convergence of mixed finite elements for linear plane elasticity. Computer Methods in Applied Mechanics and Engineering, 1990, 84, 77-95.	6.6	31

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37	Mechanical Properties of Boehmite Evaluated by Atomic Force Microscopy Experiments and Molecular Dynamic Finite Element Simulations. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-13.	2.7	31
38	A comprehensive fatigue load set reduction study for offshore wind turbines with jacket substructures. <i>Renewable Energy</i> , 2018, 118, 99-112.	8.9	31
39	Are finite elements appropriate for use in molecular dynamic simulations?. <i>Composites Science and Technology</i> , 2012, 72, 989-1000.	7.8	30
40	An efficient semi-analytical framework to tailor snap-through loads in bistable variable stiffness laminates. <i>International Journal of Solids and Structures</i> , 2020, 195, 91-107.	2.7	30
41	Hierarchical four-step global sensitivity analysis of offshore wind turbines based on aeroelastic time domain simulations. <i>Renewable Energy</i> , 2017, 111, 878-891.	8.9	29
42	Integrated thermal and mechanical analysis of composite plates and shells. <i>Composites Science and Technology</i> , 2000, 60, 2097-2106.	7.8	28
43	New layerwise theories and finite elements for efficient thermal analysis of hybrid structures. <i>Computers and Structures</i> , 2003, 81, 2525-2538.	4.4	28
44	Design of cylindrical shells using the Single Perturbation Load Approach – Potentials and application limits. <i>Thin-Walled Structures</i> , 2016, 108, 369-380.	5.3	28
45	A two-way loose coupling procedure for investigating the buckling and damage behaviour of stiffened composite panels. <i>Composite Structures</i> , 2016, 136, 513-525.	5.8	28
46	A new invariant-based thermo-plastic model for finite deformation analysis of short fibre reinforced composites: Development and numerical aspects. <i>Composites Part B: Engineering</i> , 2017, 125, 241-258.	12.0	28
47	Analysis of skin-stringer debonding in composite panels through a two-way global-local method. <i>Composite Structures</i> , 2018, 202, 1280-1294.	5.8	28
48	A review of computational modelling approaches to compressive failure in laminates. <i>Composites Science and Technology</i> , 2019, 181, 107663.	7.8	28
49	Macro-mechanical modeling and experimental validation of anisotropic, pressure- and temperature-dependent behavior of short fiber composites. <i>Composite Structures</i> , 2019, 211, 630-643.	5.8	28
50	Probabilistic perturbation load approach for designing axially compressed cylindrical shells. <i>Thin-Walled Structures</i> , 2016, 107, 648-656.	5.3	27
51	Thermo-mechanical design aspects for primary composite structures of large transport aircraft. <i>Aerospace Science and Technology</i> , 2001, 5, 135-146.	4.8	26
52	An improved two-step soil-structure interaction modeling method for dynamical analyses of offshore wind turbines. <i>Applied Ocean Research</i> , 2016, 55, 141-150.	4.1	26
53	A viscoelastic damage model for nanoparticle/epoxy nanocomposites at finite strain: A multiscale approach. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 128, 162-180.	4.8	26
54	Optimization and Antioptimization of Buckling Load for Composite Cylindrical Shells Under Uncertainties. <i>AIAA Journal</i> , 2012, 50, 1513-1524.	2.6	25

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55	Numerical modeling and experimental validation of fatigue damage in Cross-Ply CFRP composites under inhomogeneous stress states. <i>Composites Part B: Engineering</i> , 2020, 200, 108050.	12.0	25
56	High-performance four-node shell element with piezoelectric coupling for the analysis of smart laminated structures. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 70, 934-961.	2.8	23
57	FE modeling and simulation framework for the forming of hybrid metal-composites clinching joints. <i>Thin-Walled Structures</i> , 2018, 133, 134-140.	5.3	23
58	Efficient progressive failure analysis of multi-stringer stiffened composite panels through a two-way loose coupling global-local approach. <i>Composite Structures</i> , 2018, 183, 137-145.	5.8	22
59	On the progressive failure simulation and experimental validation of fiber metal laminate bolted joints. <i>Composite Structures</i> , 2019, 229, 111368.	5.8	22
60	Viscoelastic damage behavior of fiber reinforced nanoparticle-filled epoxy nanocomposites: Multiscale modeling and experimental validation. <i>Composites Part B: Engineering</i> , 2019, 174, 107005.	12.0	22
61	Numerical modelling and simulation of fatigue damage in carbon fibre reinforced plastics at different stress ratios. <i>Thin-Walled Structures</i> , 2019, 139, 219-231.	5.3	22
62	A finite deformation phase-field fracture model for the thermo-viscoelastic analysis of polymer nanocomposites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 381, 113821.	6.6	22
63	A hierarchic 3D finite element for laminated composites. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 96-116.	2.8	21
64	Fracture Probability, Crack Patterns, and Crack Widths of Multicrystalline Silicon Solar Cells in PV Modules During Mechanical Loading. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1510-1524.	2.5	21
65	Calculating 3D stresses in layered composite plates and shells. <i>Mechanics of Composite Materials</i> , 1998, 34, 355-362.	1.4	20
66	Evaluation of two finite element formulations for a rapid 3D stress analysis of sandwich structures. <i>Computers and Structures</i> , 2005, 83, 1537-1545.	4.4	19
67	Semiactive Friction Damper for Lightweight Pedestrian Bridges. <i>Journal of Structural Engineering</i> , 2014, 140, .	3.4	19
68	Material Modelling of Short Fiber Reinforced Thermoplastic for the FEA of a Clinching Test. <i>Procedia CIRP</i> , 2014, 18, 250-255.	1.9	19
69	A computational framework for the interplay between delamination and wrinkling in functionally graded thermal barrier coatings. <i>Computational Materials Science</i> , 2016, 116, 82-95.	3.0	19
70	On the nonlinear dynamics of shell structures: Combining a mixed finite element formulation and a robust integration scheme. <i>Thin-Walled Structures</i> , 2017, 118, 56-72.	5.3	19
71	A Co-Rotational Based Anisotropic Elasto-Plastic Model for Geometrically Non-Linear Analysis of Fibre Reinforced Polymer Composites: Formulation and Finite Element Implementation. <i>Materials</i> , 2019, 12, 1816.	2.9	19
72	Influence of Reversed Fatigue Loading on Damage Evolution of Cross-Ply Carbon Fibre Composites. <i>Materials</i> , 2019, 12, 1153.	2.9	19

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73	On the progressive fatigue failure of mechanical composite joints: Numerical simulation and experimental validation. <i>Composite Structures</i> , 2020, 248, 112488.	5.8	19
74	Analysis of Novel Morphing Trailing Edge Flap Actuated by Multistable Laminates. <i>AIAA Journal</i> , 2020, 58, 3149-3158.	2.6	19
75	Methodologies for fatigue assessment of offshore wind turbines considering scattering environmental conditions and the uncertainty due to finite sampling. <i>Wind Energy</i> , 2018, 21, 1092-1105.	4.2	19
76	Development of a comprehensive database of scattering environmental conditions and simulation constraints for offshore wind turbines. <i>Wind Energy Science</i> , 2017, 2, 491-505.	3.3	19
77	Modeling the noise mitigation of a bubble curtain. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 2212-2223.	1.1	18
78	Effect of temperature on the viscoelastic damage behaviour of nanoparticle/epoxy nanocomposites: Constitutive modelling and experimental validation. <i>Polymer</i> , 2020, 191, 122265.	3.8	18
79	Inverse load calculation procedure for offshore wind turbines and application to a 5â€MW wind turbine support structure. <i>Wind Energy</i> , 2017, 20, 1171-1186.	4.2	17
80	Damage and ice detection on wind turbine rotor blades using a three-tier modular structural health monitoring framework. <i>Structural Health Monitoring</i> , 2018, 17, 1289-1312.	7.5	17
81	Strain estimation for offshore wind turbines with jacket substructures using dual-band modal expansion. <i>Marine Structures</i> , 2020, 71, 102731.	3.8	16
82	Snap-through of bistable variable stiffness laminates using MFC actuators. <i>Composite Structures</i> , 2021, 266, 113694.	5.8	16
83	A new strength model for application of a physically based failure criterion to orthogonal 3D fiber reinforced plastics. <i>Composites Science and Technology</i> , 2001, 61, 1821-1832.	7.8	15
84	A Structural Design Concept for a Multi-Shell Blended Wing Body with Laminar Flow Control. <i>Energies</i> , 2018, 11, 383.	3.1	15
85	A variable-fidelity hybrid surrogate approach for quantifying uncertainties in the nonlinear response of braided composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 381, 113851.	6.6	15
86	Exploiting the structural reserve of textile composite structures by progressive failure analysis using a new orthotropic failure criterion. <i>Computers and Structures</i> , 2011, 89, 1214-1223.	4.4	14
87	Reliability analysis of fatigue damage extrapolations of wind turbines using offshore strain measurements. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 032035.	0.4	14
88	Evaluation and Modeling of the Fatigue Damage Behavior of Polymer Composites at Reversed Cyclic Loading. <i>Materials</i> , 2019, 12, 1727.	2.9	14
89	A two-step approach to damage localization at supporting structures of offshore wind turbines. <i>Structural Health Monitoring</i> , 2018, 17, 1313-1330.	7.5	13
90	Parametric Study of Hybrid Metal-Composites Clinching Joints. <i>Key Engineering Materials</i> , 0, 767, 413-420.	0.4	13

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91	Stochastic modeling techniques for textile yarn distortion and waviness with 1D random fields. Composites Part A: Applied Science and Manufacturing, 2019, 127, 105639.	7.6	13
92	Progressive Failure Analysis Using Global-Local Coupling Including Intralaminar Failure and Debonding. AIAA Journal, 2019, 57, 3078-3089.	2.6	13
93	Tailoring bistability in unsymmetrical laminates using an additional composite strip. Thin-Walled Structures, 2021, 168, 108212.	5.3	13
94	Morphing of bistable variable stiffness composites using distributed MFC actuators. Composite Structures, 2022, 289, 115396.	5.8	13
95	A thermodynamically consistent framework to couple damage and plasticity microplane-based formulations for fracture modeling: development and algorithmic treatment. International Journal of Fracture, 2017, 203, 115-134.	2.2	12
96	Non-linear viscoelasticity of epoxy resins: Molecular simulation-based prediction and experimental validation. Polymer, 2019, 180, 121722.	3.8	12
97	Monitoring of suction bucket jackets for offshore wind turbines: Dynamic load bearing behaviour and modelling. Marine Structures, 2020, 72, 102745.	3.8	12
98	Numerical life prediction of unidirectional fiber composites under block loading conditions using a progressive fatigue damage model. International Journal of Fatigue, 2021, 147, 106159.	5.7	12
99	Nonlinear dynamics of slender structures: a new object-oriented framework. Computational Mechanics, 2019, 63, 219-252.	4.0	11
100	A new conservative/dissipative time integration scheme for nonlinear mechanical systems. Computational Mechanics, 2020, 65, 405-427.	4.0	11
101	Data-driven inverse uncertainty quantification in the transverse tensile response of carbon fiber reinforced composites. Composites Science and Technology, 2021, 211, 108845.	7.8	11
102	Semi-analytic probabilistic analysis of axially compressed stiffened composite panels. Composite Structures, 2012, 94, 654-663.	5.8	10
103	Sample size dependent probabilistic design of axially compressed cylindrical shells. Thin-Walled Structures, 2014, 74, 222-231.	5.3	10
104	Experimentally supported consideration of operating point dependent soil properties in coupled dynamics of offshore wind turbines. Marine Structures, 2018, 57, 18-37.	3.8	10
105	A framework for Data-Driven Structural Analysis in general elasticity based on nonlinear optimization: The static case. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 112993.	6.6	10
106	Analysis of the influence of climate change on the fatigue lifetime of offshore wind turbines using imprecise probabilities. Wind Energy, 2021, 24, 275-289.	4.2	10
107	A finite deformation gradient-enhanced damage model for nanoparticle/polymer nanocomposites: An atomistically-informed multiscale approach. Composite Structures, 2021, 258, 113211.	5.8	10
108	MODELS AND TOOLS FOR HEAT TRANSFER, THERMAL STRESSES, AND STABILITY OF COMPOSITE AEROSPACE STRUCTURES. Journal of Thermal Stresses, 2003, 26, 641-670.	2.0	9

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109	A FEM-based virtual test rig for hybrid metal-composites clinching joints. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019, 50, 973-986.	0.9	9
110	Understanding the nonlinear dynamics of beam structures: A principal geodesic analysis approach. <i>Thin-Walled Structures</i> , 2019, 140, 357-372.	5.3	9
111	Combination of damage feature decisions with adaptive boosting for improving the detection performance of a structural health monitoring framework: Validation on an operating wind turbine. <i>Structural Health Monitoring</i> , 2021, 20, 637-660.	7.5	9
112	A framework for data-driven structural analysis in general elasticity based on nonlinear optimization: The dynamic case. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 5447-5468.	2.8	8
113	EngiO – Object-oriented framework for engineering optimization. <i>Advances in Engineering Software</i> , 2021, 153, 102959.	3.8	8
114	On noise covariance estimation for Kalman filter-based damage localization. <i>Mechanical Systems and Signal Processing</i> , 2022, 170, 108808.	8.0	8
115	A two-objective design optimisation approach for blending repairs of damaged compressor blisks. <i>Aerospace Science and Technology</i> , 2020, 105, 106022.	4.8	7
116	Semi-analytical investigations on bistable cross-ply laminates with MFC actuators. <i>Smart Materials and Structures</i> , 2021, 30, 105008.	3.5	7
117	Influence of structural design variations on economic viability of offshore wind turbines: An interdisciplinary analysis. <i>Renewable Energy</i> , 2020, 145, 1348-1360.	8.9	6
118	Optimization-based calibration of hydrodynamic drag coefficients for a semisubmersible platform using experimental data of an irregular sea state. <i>Journal of Physics: Conference Series</i> , 2020, 1669, 012023.	0.4	6
119	Enhanced Deterministic Performance of Panels Using Stochastic Variations of Geometry and Material. <i>AIAA Journal</i> , 2020, 58, 2307-2320.	2.6	6
120	A systematic approach to offshore wind turbine jacket predesign and optimization: geometry, cost, and surrogate structural code check models. <i>Wind Energy Science</i> , 2018, 3, 553-572.	3.3	6
121	A comparison study on jacket substructures for offshore wind turbines based on optimization. <i>Wind Energy Science</i> , 2019, 4, 23-40.	3.3	6
122	Instability characteristics of variable stiffness laminated composite curved panels under non-uniform periodic excitation. <i>Thin-Walled Structures</i> , 2022, 171, 108735.	5.3	6
123	Evaluation of machine learning techniques for structural health monitoring using ultrasonic guided waves under varying temperature conditions. <i>Structural Health Monitoring</i> , 2023, 22, 1308-1325.	7.5	6
124	On the modal analysis of nonlinear beam and shell structures with singular mass and stiffness matrices. <i>Thin-Walled Structures</i> , 2019, 144, 106310.	5.3	5
125	Very low frequency IEPE accelerometer calibration and application to a wind energy structure. <i>Wind Energy Science</i> , 2022, 7, 1053-1067.	3.3	5
126	Meta-models for fatigue damage estimation of offshore wind turbines jacket substructures. <i>Procedia Engineering</i> , 2017, 199, 1158-1163.	1.2	4

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127	Finite strain anisotropic elasto-plastic model for the simulation of the forming and testing of metal/short fiber reinforced polymer clinch joints at room temperature. AIP Conference Proceedings, 2017, , .	0.4	4
128	Efficient structural analysis of gas turbine blades. Aircraft Engineering and Aerospace Technology, 2018, 90, 1305-1316.	1.2	4
129	Validation of Improved Sampling Concepts for Offshore Wind Turbine Fatigue Design. Energies, 2019, 12, 603.	3.1	4
130	Robust improvement of the asymmetric post-buckling behavior of a composite panel by perturbing fiber paths. Composite Structures, 2021, 270, 114011.	5.8	4
131	Probabilistic vibration and lifetime analysis of regenerated turbomachinery blades. Advances in Aircraft and Spacecraft Science, 2016, 3, 503-521.	0.5	4
132	Effect of moisture on the nonlinear viscoelastic fracture behavior of polymer nanocomposites: a finite deformation phase-field model. Engineering With Computers, 2023, 39, 773-790.	6.1	4
133	Optimization assisted coarse-grained modeling of agglomerated nanoparticle reinforced thermosetting polymers. Polymer, 2021, 225, 123741.	3.8	3
134	IMPROVED TRANSVERSE SHEAR STRESSES IN COMPOSITE FINITE ELEMENTS BASED ON FIRST ORDER SHEAR DEFORMATION THEORY. International Journal for Numerical Methods in Engineering, 1997, 40, 51-60.	2.8	3
135	An evaluation method for extensive wind turbine sound measurement data and its application. Proceedings of Meetings on Acoustics, 2020, , .	0.3	3
136	A numerical prediction of failure probability under combined compression-shear loading for unidirectional fiber reinforced composites. Mechanics of Materials, 2022, 171, 104352.	3.2	3
137	Elucidating atomistic mechanisms underlying water diffusion in amorphous polymers: An autonomous basin climbing-based simulation method. Computational Materials Science, 2022, 212, 111565.	3.0	3
138	On the modal analysis of flexible multibody systems with singular mass and stiffness matrices. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800115.	0.2	2
139	Sparsity pattern extraction for assembly of KKT-like matrices in multibody dynamics. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800105.	0.2	2
140	Damage Localisation by Residual Energy from Multiple-Input Finite Impulse Response Prognosis. Lecture Notes in Civil Engineering, 2021, , 711-719.	0.4	2
141	A micropolar approach to microbuckling problems in unidirectionally reinforced polymer composites. Mechanics of Materials, 2022, 165, 104112.	3.2	2
142	Impact behavior and residual strength of sandwich structural elements under static and fatigue loading. , 2001, , .		1
143	Monte-Carlo simulation of the cofiring process in polycrystalline silicon solar cells: Effects of material heterogeneity and thickness uncertainties. Solar Energy Materials and Solar Cells, 2017, 170, 263-277.	6.2	1
144	Invariant-Based Finite Strain Anisotropic Material Model for Fiber-Reinforced Composites. Lecture Notes in Applied and Computational Mechanics, 2018, , 83-110.	2.2	1

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145	Metamodel-Based Uncertainty Quantification for the Mechanical Behavior of Braided Composites. PoliTO Springer Series, 2019, , 179-193.	0.5	1
146	Polymorphic uncertainty in met-ocean conditions and the influence on fatigue loads. Journal of Physics: Conference Series, 2020, 1669, 012005.	0.4	1
147	Short- and Long-Range Particle-Matrix Interphases. Research Topics in Aerospace, 2021, , 143-178.	0.7	1
148	Molecular Modeling of Epoxy Resin Crosslinking Experimentally Validated by Near-Infrared Spectroscopy. Research Topics in Aerospace, 2021, , 325-349.	0.7	1
149	On the static analysis of nonlinear beam and shell structures with singular stiffness matrices due to redundant coordinates. Thin-Walled Structures, 2021, 161, 107496.	5.3	1
150	Blend Repair Shape Optimization for Damaged Compressor Blisks. , 2018, , 1631-1642.		1
151	A numerical investigation of the statistical size effect in non-crimp fabric laminates under homogeneous compressive loads. Journal of Composite Materials, 2022, 56, 665-683.	2.4	1
152	Assessment of a standard ULS design procedure for offshore wind turbine sub-structures. Journal of Physics: Conference Series, 2018, 1104, 012013.	0.4	0
153	Post-buckling Progressive Failure Analysis of Composite Panels Using a Two-Way Global-Local Coupling Approach Including Intralaminar Failure and Debonding. PoliTO Springer Series, 2019, , 83-102.	0.5	0
154	A Multi-scale Framework for the Prediction of the Elastic Properties of Nanocomposites. Research Topics in Aerospace, 2021, , 179-207.	0.7	0
155	Modeling and Simulation of Nanocomposites and Their Manufacturing Processes. Research Topics in Aerospace, 2021, , 27-54.	0.7	0
156	Improving the fatigue life of printed structures using stochastic variations. Progress in Additive Manufacturing, 0, , 1.	4.8	0
157	Efficient generation of geodesic random fields in finite elements with application to shell buckling. Thin-Walled Structures, 2022, 179, 109646.	5.3	0