Gerald Kress

List of Publications by Year
in descending order

45	635	623734	642732
papers	citations	14 h-index	23 g-index

45	45	45	393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exact model for the response of moderately thick laminates to transverse forces. Composite Structures, 2019, 227, 111261.	5.8	1
2	Nonlinear planar model for helical structures. Computers and Structures, 2019, 224, 106111.	4.4	3
3	Experimental and numerical study of geometrically nonlinear behavior of corrugated laminated composite shells using a nonlinear layer-wise shell FE formulation. Engineering Structures, 2019, 184, 61-73.	5.3	13
4	Stress analysis of corrugated orthotropic laminates under transverse shear loading. Composite Structures, 2019, 223, 110983.	5.8	6
5	Manufacturing method for high-amplitude corrugated thin-walled laminates. Composite Structures, 2019, 222, 110925.	5.8	15
6	An analytical nonlinear morphing model for corrugated laminates. Curved and Layered Structures, 2019, 6, 57-67.	1.3	10
7	A planar finite element formulation for corrugated laminates under transverse shear loading. Composite Structures, 2018, 201, 958-967.	5.8	11
8	Corrugated diaphragm shape design study for hemocompatible pulsatile ventricular assist devices. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 399-407.	1.6	2
9	Non-classical vibration behavior of highly anisotropic corrugated laminates. Composite Structures, 2017, 168, 84-91.	5.8	3
10	Bending stiffness of transversal isotropic materials. Composite Structures, 2017, 176, 692-701.	5.8	6
11	Stiffness analysis of corrugated laminates under large deformation. Composite Structures, 2017, 160, 457-467.	5.8	10
12	Two dimensional modeling of helical structures, an application to simple strands. Computers and Structures, 2016, 174, 79-84.	4.4	16
13	Interlaminar stresses in corrugated laminates. Composite Structures, 2016, 140, 296-308.	5.8	11
14	Non-linear stiffness response of corrugated laminates in tensile loading. Composite Structures, 2016, 157, 244-255.	5.8	20
15	Highly anisotropic corrugated laminates deflection under uniform pressure. Composite Structures, 2016, 154, 31-38.	5.8	11
16	Optimal design and testing of laminated light-weight composite structures with local reinforcements considering strength constraints part I: Design. Composites Part A: Applied Science and Manufacturing, 2014, 61, 268-278.	7.6	7
17	Optimal design and testing of laminated light-weight composite structures with local reinforcements considering strength constraints. Composites Part A: Applied Science and Manufacturing, 2014, 61, 279-287.	7.6	2
18	A physically based structural model for a textile prosthetic mesh. International Journal of Solids and Structures, 2014, 51, 633-646.	2.7	8

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19	Modeling of corrugated laminates. Composite Structures, 2014, 109, 86-92.	5.8	8
20	Specific design of laminated composites regarding dynamic behavior by the application of local reinforcements. Composite Structures, 2013, 99, 433-442.	5.8	2
21	Examination of Hashinâ€™s failure criteria for Part B of the second world-wide failure exercise: Comparison with test data. Journal of Composite Materials, 2013, 47, 867-891.	2.4	15
22	Mechanical modeling of medical mesh implants at the mesoscale. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 121-122.	0.2	0
23	Investigation of local load introduction methods in aircraft pre-design. Aerospace Science and Technology, 2012, 21, 31-40.	4.8	17
24	Examination of Hashinâ€™s failure criteria for the second world-wide failure exercise. Journal of Composite Materials, 2012, 46, 2539-2561.	2.4	17
25	A sensitivity-based parameterization concept for the automated design and placement of reinforcement doublers. Composite Structures, 2012, 94, 896-903.	5.8	6
26	Influence of corrugation geometry on the substitute stiffness matrix of corrugated laminates. Composite Structures, 2012, 94, 2827-2833.	5.8	27
27	Corrugated laminate analysis: A generalized plane-strain problem. Composite Structures, 2011, 93, 1493-1504.	5.8	45
28	Mass estimation of transport aircraft wingbox structures with a CAD/CAE-based multidisciplinary process. Aerospace Science and Technology, 2011, 15, 323-333.	4.8	42
29	Finite element model updating of vibrating structures under freeâ€“free boundary conditions for modal damping prediction. Mechanical Systems and Signal Processing, 2011, 25, 2203-2218.	8.0	14
30	Corrugated laminate homogenization model. Composite Structures, 2010, 92, 795-810.	5.8	93
31	Deformation limits for corrugated cross-ply laminates. Composite Structures, 2010, 92, 1458-1468.	5.8	26
32	Honeycomb sandwich residual stress deformation pattern. Composite Structures, 2009, 89, 294-302.	5.8	14
33	Complex-shaped beam element and graph-based optimization of compliant mechanisms. Structural and Multidisciplinary Optimization, 2008, 36, 429-442.	3.5	14
34	Strength-optimal onsert shapes. Composites Science and Technology, 2008, 68, 2376-2382.	7.8	1
35	Enhanced model for interlaminar normal stress in singly curved laminates. Composite Structures, 2007, 80, 327-333.	5.8	27
36	Nonlinear fiber based retaining system. Composite Structures, 2006, 72, 227-235.	5.8	0

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37	The onsert: A new joining technology for sandwich structures. Composite Structures, 2006, 73, 196-207.	5.8	11
38	Complex-shaped beam finite element. Finite Elements in Analysis and Design, 2006, 43, 112-126.	3.2	8
39	Failure criteria and onsert shape optimization. International Journal of Adhesion and Adhesives, 2005, 25, 109-120.	2.9	4
40	Comparison between Newton and response-surface methods. Structural and Multidisciplinary Optimization, 2005, 30, 368-380.	3.5	0
41	Iterative solution methods for damage progression analysis. Composite Structures, 2005, 69, 21-33.	5.8	8
42	Model for interlaminar normal stress in singly curved laminates. Composite Structures, 2005, 69, 458-469.	5.8	39
43	Onsert strength design. International Journal of Adhesion and Adhesives, 2004, 24, 201-209.	2.9	8
44	Shape optimization of a flywheel. Structural and Multidisciplinary Optimization, 2000, 19, 74-81.	3.5	26
45	Free-Edge Influence on CFRP-Laminate Strength. International Journal of Damage Mechanics, 1994, 3, 192-211.	4.2	8