

Gerald Kress

List of Publications by Year in descending order

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45
papers

635
citations

623734

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642732

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45
all docs

45
docs citations

45
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrugated laminate homogenization model. <i>Composite Structures</i> , 2010, 92, 795-810.	5.8	93
2	Corrugated laminate analysis: A generalized plane-strain problem. <i>Composite Structures</i> , 2011, 93, 1493-1504.	5.8	45
3	Mass estimation of transport aircraft wingbox structures with a CAD/CAE-based multidisciplinary process. <i>Aerospace Science and Technology</i> , 2011, 15, 323-333.	4.8	42
4	Model for interlaminar normal stress in singly curved laminates. <i>Composite Structures</i> , 2005, 69, 458-469.	5.8	39
5	Enhanced model for interlaminar normal stress in singly curved laminates. <i>Composite Structures</i> , 2007, 80, 327-333.	5.8	27
6	Influence of corrugation geometry on the substitute stiffness matrix of corrugated laminates. <i>Composite Structures</i> , 2012, 94, 2827-2833.	5.8	27
7	Shape optimization of a flywheel. <i>Structural and Multidisciplinary Optimization</i> , 2000, 19, 74-81.	3.5	26
8	Deformation limits for corrugated cross-ply laminates. <i>Composite Structures</i> , 2010, 92, 1458-1468.	5.8	26
9	Non-linear stiffness response of corrugated laminates in tensile loading. <i>Composite Structures</i> , 2016, 157, 244-255.	5.8	20
10	Investigation of local load introduction methods in aircraft pre-design. <i>Aerospace Science and Technology</i> , 2012, 21, 31-40.	4.8	17
11	Examination of Hashin's failure criteria for the second world-wide failure exercise. <i>Journal of Composite Materials</i> , 2012, 46, 2539-2561.	2.4	17
12	Two dimensional modeling of helical structures, an application to simple strands. <i>Computers and Structures</i> , 2016, 174, 79-84.	4.4	16
13	Examination of Hashin's failure criteria for Part B of the second world-wide failure exercise: Comparison with test data. <i>Journal of Composite Materials</i> , 2013, 47, 867-891.	2.4	15
14	Manufacturing method for high-amplitude corrugated thin-walled laminates. <i>Composite Structures</i> , 2019, 222, 110925.	5.8	15
15	Complex-shaped beam element and graph-based optimization of compliant mechanisms. <i>Structural and Multidisciplinary Optimization</i> , 2008, 36, 429-442.	3.5	14
16	Honeycomb sandwich residual stress deformation pattern. <i>Composite Structures</i> , 2009, 89, 294-302.	5.8	14
17	Finite element model updating of vibrating structures under free-free boundary conditions for modal damping prediction. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 2203-2218.	8.0	14
18	Experimental and numerical study of geometrically nonlinear behavior of corrugated laminated composite shells using a nonlinear layer-wise shell FE formulation. <i>Engineering Structures</i> , 2019, 184, 61-73.	5.3	13

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19	The onsert: A new joining technology for sandwich structures. <i>Composite Structures</i> , 2006, 73, 196-207.	5.8	11
20	Interlaminar stresses in corrugated laminates. <i>Composite Structures</i> , 2016, 140, 296-308.	5.8	11
21	Highly anisotropic corrugated laminates deflection under uniform pressure. <i>Composite Structures</i> , 2016, 154, 31-38.	5.8	11
22	A planar finite element formulation for corrugated laminates under transverse shear loading. <i>Composite Structures</i> , 2018, 201, 958-967.	5.8	11
23	Stiffness analysis of corrugated laminates under large deformation. <i>Composite Structures</i> , 2017, 160, 457-467.	5.8	10
24	An analytical nonlinear morphing model for corrugated laminates. <i>Curved and Layered Structures</i> , 2019, 6, 57-67.	1.3	10
25	Free-Edge Influence on CFRP-Laminate Strength. <i>International Journal of Damage Mechanics</i> , 1994, 3, 192-211.	4.2	8
26	Onsert strength design. <i>International Journal of Adhesion and Adhesives</i> , 2004, 24, 201-209.	2.9	8
27	Iterative solution methods for damage progression analysis. <i>Composite Structures</i> , 2005, 69, 21-33.	5.8	8
28	Complex-shaped beam finite element. <i>Finite Elements in Analysis and Design</i> , 2006, 43, 112-126.	3.2	8
29	A physically based structural model for a textile prosthetic mesh. <i>International Journal of Solids and Structures</i> , 2014, 51, 633-646.	2.7	8
30	Modeling of corrugated laminates. <i>Composite Structures</i> , 2014, 109, 86-92.	5.8	8
31	Optimal design and testing of laminated light-weight composite structures with local reinforcements considering strength constraints part I: Design. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 61, 268-278.	7.6	7
32	A sensitivity-based parameterization concept for the automated design and placement of reinforcement doublers. <i>Composite Structures</i> , 2012, 94, 896-903.	5.8	6
33	Bending stiffness of transversal isotropic materials. <i>Composite Structures</i> , 2017, 176, 692-701.	5.8	6
34	Stress analysis of corrugated orthotropic laminates under transverse shear loading. <i>Composite Structures</i> , 2019, 223, 110983.	5.8	6
35	Failure criteria and onsert shape optimization. <i>International Journal of Adhesion and Adhesives</i> , 2005, 25, 109-120.	2.9	4
36	Non-classical vibration behavior of highly anisotropic corrugated laminates. <i>Composite Structures</i> , 2017, 168, 84-91.	5.8	3

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37	Nonlinear planar model for helical structures. Computers and Structures, 2019, 224, 106111.	4.4	3
38	Specific design of laminated composites regarding dynamic behavior by the application of local reinforcements. Composite Structures, 2013, 99, 433-442.	5.8	2
39	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
40	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
41	Strength-optimal onsert shapes. Composites Science and Technology, 2008, 68, 2376-2382.	7.8	1
42	Exact model for the response of moderately thick laminates to transverse forces. Composite Structures, 2019, 227, 111261.	5.8	1
43	Comparison between Newton and response-surface methods. Structural and Multidisciplinary Optimization, 2005, 30, 368-380.	3.5	0
44	Nonlinear fiber based retaining system. Composite Structures, 2006, 72, 227-235.	5.8	0
45	Mechanical modeling of medical mesh implants at the mesoscale. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 121-122.	0.2	0