Thomas Keller

List of Publications by Year
in descending order

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83 papers	3,312 citations	117625 34 h-index	161849 54 g-index
91 all docs	91 docs citations	91 times ranked	1608 citing authors

#	Article	IF	Citations
1	Thermal and mechanical performances of GFRP sandwich structures with integrated amorphous silicon photovoltaic cells. Composite Structures, 2022, 290, 115524.	5.8	3
2	Fiber-polymer composites for permanent large-scale bending-active elastica beams. Composite Structures, 2022, 294, 115809.	5.8	3
3	Thermophysical and thermomechanical properties of basalt-phenolic FRP rebars under high temperature. Construction and Building Materials, 2022, 342, 127983.	7.2	5
4	Resistance and ductility of FRP composite hybrid joints. Composite Structures, 2021, 255, 113001.	5.8	7
5	Tension-tension fatigue behavior of ductile adhesively-bonded FRP joints. Composite Structures, 2021, 268, 113925.	5.8	20
6	A novel fatigue life prediction methodology based on energy dissipation in viscoelastic materials. International Journal of Fatigue, 2021, 152, 106457.	5.7	15
7	Optimization of multi-directional fiber architecture for resistance and ductility of bolted FRP profile joints. Composite Structures, 2020, 248, 112535.	5.8	15
8	Stress ratio effect on tension-tension fatigue behavior of angle-ply GFRP laminates. International Journal of Fatigue, 2019, 126, 103-111.	5.7	23
9	Two-dimensional fatigue debonding in GFRP/balsa sandwich panels. International Journal of Fatigue, 2019, 125, 72-84.	5.7	11
10	Two-dimensional quasi-static debonding in GFRP/balsa sandwich panels. Composite Structures, 2019, 215, 391-401.	5.8	3
11	Creep effects on tension-tension fatigue behavior of angle-ply GFRP composite laminates. International Journal of Fatigue, 2019, 123, 144-156.	5.7	37
12	Temperature effect on fatigue behavior of basalt fiberâ€reinforced polymer composites. Polymer Composites, 2019, 40, 2273-2283.	4.6	32
13	Effect of stress ratios on tensionâ€“tension fatigue behavior and micro-damage evolution of basalt fiber-reinforced epoxy polymer composites. Journal of Materials Science, 2018, 53, 9545-9556.	3.7	27
14	Long-term design of FRP-PUR web-core sandwich structures in building construction. Composite Structures, 2017, 181, 214-228.	5.8	12
15	Creep of Sandwich Panels with Longitudinal Reinforcement Ribs for Civil Engineering Applications: Experiments and Composite Creep Modeling. Journal of Composites for Construction, 2017, 21, .	3.2	13
16	Effect of service temperature on the shear creep response of rigid polyurethane foam used in composite sandwich floor panels. Construction and Building Materials, 2016, 118, 235-244.	7.2	34
17	Energy dissipation and recovery in webâ€“flange junctions of pultruded GFRP decks. Composite Structures, 2016, 148, 168-180.	5.8	21
18	Effect of service temperature on the flexural creep of vacuum infused GFRP laminates used in sandwich floor panels. Composites Part B: Engineering, 2016, 90, 160-171.	12.0	13

#	ARTICLE	IF	CITATIONS
19	Post-wrinkling behavior of webs in GFRP cell-core sandwich structures. Composite Structures, 2016, 138, 276-284.	5.8	12
20	Effect of Natural Weathering on Durability of Pultruded Glass Fiberâ€“Reinforced Bridge and Building Structures. Journal of Composites for Construction, 2016, 20, .	3.2	29
21	Connection systems between composite sandwich floor panels and load-bearing walls for building rehabilitation. Engineering Structures, 2016, 106, 209-221.	5.3	13
22	A review of the fire behaviour of pultruded GFRP structural profiles for civil engineering applications. Composite Structures, 2015, 127, 267-287.	5.8	121
23	Optically-derived mechanical properties of glass fiber-reinforced polymer laminates for multifunctional load-bearing structures. Journal of Composite Materials, 2015, 49, 3539-3556.	2.4	2
24	Adhesively bonded connections between composite sandwich floor panels for building rehabilitation. Composite Structures, 2015, 134, 255-268.	5.8	33
25	Effects of elevated temperature on the shear response of PET and PUR foams used in composite sandwich panels. Construction and Building Materials, 2015, 76, 150-157.	7.2	63
26	GFRP-Balsa Sandwich Bridge Deck: Concept, Design, and Experimental Validation. Journal of Composites for Construction, 2014, 18, .	3.2	87
27	Total light transmittance of glass fiber-reinforced polymer laminates for multifunctional load-bearing structures. Journal of Composite Materials, 2014, 48, 3591-3604.	2.4	13
28	Creep behaviour of sandwich panels with rigid polyurethane foam core and glass-fibre reinforced polymer faces: Experimental tests and analytical modelling. Journal of Composite Materials, 2014, 48, 2237-2249.	2.4	27
29	Effect of thermal lag on glass transition temperature of polymers measured by DMA. International Journal of Adhesion and Adhesives, 2014, 52, 31-39.	2.9	31
30	Structural limits of FRP-balsa sandwich decks in bridge construction. Composites Part B: Engineering, 2014, 63, 77-84.	12.0	24
31	Mixed-mode fatigue failure criteria for adhesively-bonded pultruded GFRP joints. Composites Part A: Applied Science and Manufacturing, 2013, 54, 46-55.	7.6	15
32	Variable amplitude fatigue of adhesively-bonded pultruded GFRP joints. International Journal of Fatigue, 2013, 55, 22-32.	5.7	20
33	FRP-Balsa Composite Sandwich Bridge Deck with Complex Core Assembly. Journal of Composites for Construction, 2013, 17, .	3.2	21
34	Experimental investigation and modeling of mean load effect on fatigue behavior of adhesively-bonded pultruded GFRP joints. International Journal of Fatigue, 2012, 44, 245-252.	5.7	34
35	Experimental investigation of R-ratio effects on fatigue crack growth of adhesively-bonded pultruded GFRP DCB joints under CA loading. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1689-1697.	7.6	44
36	A total fatigue life model for the prediction of the R-ratio effects on fatigue crack growth of adhesively-bonded pultruded GFRP DCB joints. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1783-1790.	7.6	30

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37	Instability of thin-walled GFRP webs in cell-core sandwiches under combined bending and shear loads. Thin-Walled Structures, 2012, 53, 200-210.	5.3	8
38	Modeling the Fatigue Behavior of Fiber-Reinforced Composite Materials Under Constant Amplitude Loading. Engineering Materials and Processes, 2011, , 87-139.	0.4	4
39	Contribution to Shear Wrinkling of GFRP Webs in Cell-Core Sandwiches. Journal of Composites for Construction, 2011, 15, 833-840.	3.2	9
40	Fire Performance of Water-Cooled GFRP Columns. II: Postfire Investigation. Journal of Composites for Construction, 2011, 15, 413-421.	3.2	15
41	Fatigue of Fiber-reinforced Composites. Engineering Materials and Processes, 2011, , .	0.4	84
42	Delamination and kink-band failure of pultruded GFRP laminates under elevated temperatures and compression. Composite Structures, 2011, 93, 843-849.	5.8	23
43	Effects of thermal loading history on structural adhesive modulus across glass transition. Construction and Building Materials, 2011, 25, 2162-2168.	7.2	37
44	Experimental investigation of the fatigue behavior of adhesively-bonded pultruded GFRP joints under different load ratios. International Journal of Fatigue, 2011, 33, 1451-1460.	5.7	38
45	Fire Performance of Water-Cooled GFRP Columns. I: Fire Endurance Investigation. Journal of Composites for Construction, 2011, 15, 404-412.	3.2	31
46	Fire Performance of Water-Cooled Cellular GFRP Columns. , 2011, , 405-409.		0
47	Structural Performance of FRP Composites in Fire. Advances in Structural Engineering, 2010, 13, 793-804.	2.4	12
48	Fire protection systems for building floors made of pultruded GFRP profiles. Composites Part B: Engineering, 2010, 41, 617-629.	12.0	81
49	Influence of the constant life diagram formulation on the fatigue life prediction of composite materials. International Journal of Fatigue, 2010, 32, 659-669.	5.7	114
50	Mode I and II fracture behavior of adhesively-bonded pultruded composite joints. Engineering Fracture Mechanics, 2010, 77, 128-143.	4.3	43
51	Design of robust and ductile FRP structures incorporating ductile adhesive joints. Composites Part B: Engineering, 2010, 41, 148-156.	12.0	26
52	Fire protection systems for building floors made of pultruded GFRP profiles â€“ Part 2: Modeling of thermomechanical responses. Composites Part B: Engineering, 2010, 41, 630-636.	12.0	44
53	Effects of low and high temperatures on tensile behavior of adhesively-bonded GFRP joints. Composite Structures, 2010, 92, 1631-1639.	5.8	73
54	A computational tool for the life prediction of GFRP laminates under irregular complex stress states: Influence of the fatigue failure criterion. Computational Materials Science, 2010, 49, 483-491.	3.0	22

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55	Thermomechanical Behavior of Multifunctional GFRP Sandwich Structures with Encapsulated Photovoltaic Cells. Journal of Composites for Construction, 2010, 14, 470-478.	3.2	24
56	Time Dependence of Material Properties of FRP Composites in Fire. Journal of Composite Materials, 2009, 43, 2469-2484.	2.4	31
57	Modeling of Strength Degradation for Fiber-reinforced Polymer Composites in Fire. Journal of Composite Materials, 2009, 43, 2371-2385.	2.4	64
58	Pultruded GFRP tubes with liquid-cooling system under combined temperature and compressive loading. Composite Structures, 2009, 90, 115-121.	5.8	18
59	Modeling of mechanical response of FRP composites in fire. Composites Part A: Applied Science and Manufacturing, 2009, 40, 731-738.	7.6	47
60	Ductile double-lap joints from brittle GFRP laminates and ductile adhesives, Part I: Experimental investigation. Composites Part B: Engineering, 2008, 39, 271-281.	12.0	59
61	Modeling of thermal responses for FRP composites under elevated and high temperatures. Composites Science and Technology, 2008, 68, 47-56.	7.8	105
62	Modeling of stiffness of FRP composites under elevated and high temperatures. Composites Science and Technology, 2008, 68, 3099-3106.	7.8	172
63	Experimental investigations on temperature-dependent thermo-physical and mechanical properties of pultruded GFRP composites. Thermochimica Acta, 2008, 469, 28-35.	2.7	65
64	Structural Concept, Design, and Experimental Verification of a Glass Fiber-Reinforced Polymer Sandwich Roof Structure. Journal of Composites for Construction, 2008, 12, 454-468.	3.2	96
65	Long-Term Performance of a Glass Fiber-Reinforced Polymer Truss Bridge. Journal of Composites for Construction, 2007, 11, 99-108.	3.2	84
66	Flexural behavior of a hybrid FRP and lightweight concrete sandwich bridge deck. Composites Part A: Applied Science and Manufacturing, 2007, 38, 879-889.	7.6	116
67	Modeling of post-fire stiffness of E-glass fiber-reinforced polyester composites. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2142-2153.	7.6	39
68	Fire endurance of loaded and liquid-cooled GFRP slabs for construction. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1055-1067.	7.6	54
69	Structural response of liquid-cooled GFRP slabs subjected to fire â€“ Part I: Material and post-fire modeling. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1286-1295.	7.6	35
70	Structural response of liquid-cooled GFRP slabs subjected to fire â€“ Part II: Thermo-chemical and thermo-mechanical modeling. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1296-1308.	7.6	35
71	In-plane compression and shear performance of FRP bridge decks acting as top chord of bridge girders. Composite Structures, 2006, 72, 151-162.	5.8	34
72	System ductility and redundancy of FRP beam structures with ductile adhesive joints. Composites Part B: Engineering, 2005, 36, 586-596.	12.0	47

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73	Adhesively bonded lap joints from pultruded GFRP profiles. Part I: stressâ€“strain analysis and failure modes. Composites Part B: Engineering, 2005, 36, 331-340.	12.0	108
74	Adhesively bonded lap joints from pultruded GFRP profiles. Part II: joint strength prediction. Composites Part B: Engineering, 2005, 36, 341-350.	12.0	69
75	Tensile fatigue performance of pultruded glass fiber reinforced polymer profiles. Composite Structures, 2005, 68, 235-245.	5.8	43
76	Composite Action and Adhesive Bond between Fiber-Reinforced Polymer Bridge Decks and Main Girders. Journal of Composites for Construction, 2005, 9, 360-368.	3.2	65
77	Experimental study on the concept of liquid cooling for improving fire resistance of FRP structures for construction. Composites Part A: Applied Science and Manufacturing, 2005, 36, 1569-1580.	7.6	22
78	Adhesively Bonded and Translucent Glass Fiber Reinforced Polymer Sandwich Girders. Journal of Composites for Construction, 2004, 8, 461-470.	3.2	23
79	Plate bending behavior of a pultruded GFRP bridge deck system. Composite Structures, 2004, 64, 285-295.	5.8	65
80	Fatigue behavior of adhesively connected pultruded GFRP profiles. Composite Structures, 2004, 65, 55-64.	5.8	39
81	FATIGUE BEHAVIOR OF DOUBLE-LAP JOINTS FROM PULTRUDED GFRP LAMINATES. , 2004, , 641-648.		0
82	Recent all-composite and hybrid fibre-reinforced polymer bridges and buildings. Structural Control and Health Monitoring, 2001, 3, 132-140.	0.7	136
83	Towards Structural Forms for Composite Fibre Materials. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 1999, 9, 297-300.	0.8	35