Kent A Harries

List of Publications by Year in Descending Order

155 papers	3,748 citations	34 h-index	55 g-index
166 ext. papers	4,380 ext. citations	3.8 avg, IF	5.82 L-index

#	Paper	IF	Citations
155	Variation of mechanical properties of P. edulis (Moso) bamboo with moisture content. *Construction and Building Materials*, **2022**, 324, 126629	6.7	0
154	Toward a Practical Approach to Experimental Evaluation of Cracking Behaviour of GFRP-Reinforced Concrete. *Lecture Notes in Civil Engineering*, **2022**, 866-877	0.3	
153	Types and Characteristics of Bamboo Materials for Construction Uses **2022**, 7-30		1
152	Opportunities and Challenges for the Modern Bamboo Construction Industry in China **2022**, 261-269		1
151	Research and Development Status of Different Types of Bamboo Structures **2022**, 31-57		
150	Distribution of Bamboo Forest Resources and Species for Construction **2022**, 1-5		
149	International Organizations, Research Institutions, and Production and Processing Enterprises in China **2022**, 71-78		
148	Experimental research on wood beams strengthened with engineered bamboo laminates attached with self-tapping screws. *Journal of Building Engineering*, **2022**, 53, 104560	5.2	0
147	ASCE 41 Seismic Assessment of FRP-Repaired Concrete Columns. *Journal of Composites for Construction*, **2021**, 25, 04021001	3.3	1
146	Is the rule of mixture appropriate for assessing bamboo material properties?. *Construction and Building Materials*, **2021**, 267, 120955	6.7	7
145	Chemical modification of Dendrocalamus asper bamboo with citric acid and boron compounds: Effects on the physical-chemical, mechanical and thermal properties. *Journal of Cleaner Production*, **2021**, 279, 123871	10.3	6
144	Modelling full-culm bamboo as a naturally varying functionally graded material. *Wood Science and Technology*, **2021**, 55, 155-179	2.5	9
143	Closure to Evaluation of Pretensioned Girders with Partial-Strand Debonding by Mathew W. Bolduc, Avdhesh Gaur, Bahram M. Shahrooz, Kent A. Harries, Richard A. Miller, and Henry G. Russell. *Journal of Bridge Engineering*, **2021**, 26, 07021002	2.7	
142	Predicting Flange Local Buckling Capacity of Pultruded GFRP I-Sections Subject to Flexure. *Journal of Composites for Construction*, **2020**, 24, 04020025	3.3	14
141	Quality assessment and mechanical characterization of preservative-treated Moso bamboo (P. edulis). *European Journal of Wood and Wood Products*, **2020**, 78, 257-270	2.1	9
140	Experimental study on mechanical properties of laminated bamboo beam-to-column connections. *Engineering Structures*, **2020**, 210, 110305	4.7	14
139	Codes and standards development for nonconventional and vernacular materials **2020**, 81-100		3

138	Joints in bamboo construction **2020**, 561-596		2
137	INTEGRATING EARTHEN BUILDING MATERIALS AND METHODS INTO MAINSTREAM CONSTRUCTION. *Journal of Green Building*, **2020**, 15, 87-106	1.3	8
136	Variation of through-culm wall morphology in P. edulis bamboo strips used in glue-laminated bamboo beams. *Construction and Building Materials*, **2020**, 232, 117248	6.7	11
135	Determining rotational stiffness of flange-web junction of pultruded GFRP I-sections. *Composite Structures*, **2020**, 236, 111843	5.3	15
134	Evaluation of Pretensioned Girders with Partial-Strand Debonding. *Journal of Bridge Engineering*, **2020**, 25, 04020059	2.7	1
133	Long-term performance of lightweight aggregate reinforced concrete beams. *Construction and Building Materials*, **2020**, 264, 120231	6.7	6
132	Use of ISO 22157 mechanical test methods and the characterisation of Brazilian P. edulis bamboo. *Construction and Building Materials*, **2019**, 228, 116728	6.7	23
131	Seismic strengthening of masonry walls using bamboo components. *Advances in Structural Engineering*, **2019**, 22, 2982-2997	1.9	9
130	Screw withdrawal capacity of full-culm P. edulis bamboo. *Construction and Building Materials*, **2019**, 216, 531-541	6.7	4
129	Through-culm wall mechanical behaviour of bamboo. *Construction and Building Materials*, **2019**, 216, 485-495	6.7	32
128	Cradle to site Life Cycle Assessment (LCA) of natural vs conventional building materials: A case study on cob earthen material. *Building and Environment*, **2019**, 160, 106150	6.5	32
127	Experimental study of performance of engineered bamboo beams exposed to three-sided standard fire. *Fire Safety Journal*, **2019**, 106, 52-60	3.3	8
126	A viscoelastic model for time-dependent behavior of pultruded GFRP. *Construction and Building Materials*, **2019**, 208, 63-74	6.7	7
125	Lateral torsional buckling and section distortion of pultruded GFRP I-sections subject to flexure. *Composite Structures*, **2019**, 225, 111151	5.3	11
124	Modeling and Detailing Pretensioned Concrete Bridge Girder End Regions Using the Strut-and-Tie Approach. *Journal of Bridge Engineering*, **2019**, 24, 04018123	2.7	1
123	Experimental research on fire-damaged RC continuous T-beams subsequently strengthened with CFRP sheets. *Engineering Structures*, **2019**, 183, 135-149	4.7	9
122	Proposed design methodology for titanium reinforcing bars in concrete. *Engineering Structures*, **2019**, 178, 543-553	4.7	2
121	Flange local buckling of pultruded GFRP box beams. *Composite Structures*, **2018**, 189, 463-472	5.3	25

120	Experimental study on flexural performance of glued-laminated-timber-bamboo beams. *Materials and Structures/Materiaux Et Constructions*, **2018**, 51, 1	3.4	19
119	Determination of critical load for global flexural buckling in concentrically loaded pultruded FRP structural struts. *Engineering Structures*, **2018**, 158, 1-12	4.7	15
118	Flexural stability of pultruded glass fibre-reinforced polymer I-sections. *Proceedings of the Institution of Civil Engineers: Structures and Buildings*, **2018**, 171, 855-866	0.9	11
117	Bamboo reinforced concrete: a critical review. *Materials and Structures/Materiaux Et Constructions*, **2018**, 51, 1	3.4	38
116	Seismic performance assessment of flexure-dominate FRP-confined RC columns using plastic rotation angle. *Engineering Structures*, **2018**, 172, 453-471	4.7	7
115	Steel Coupling Beams with a Replaceable Fuse. *Journal of Structural Engineering*, **2018**, 144, 04017210	3	15
114	Uniaxial Tensile Stress-Strain Behavior of Carbon-Fiber Grid-Reinforced Engineered Cementitious Composites. *Journal of Composites for Construction*, **2018**, 22, 04018057	3.3	11
113	Geometry, material properties and bond performance of prototype titanium reinforcing bars. *Construction and Building Materials*, **2018**, 187, 1253-1266	6.7	5
112	Study of galvanic corrosion potential of NSM titanium reinforcing bars. *Case Studies in Construction Materials*, **2018**, 9, e00175	2.7	1
111	Bond Behavior of FRP-Concrete in Presence of Intermediate Crack Debonding Failure. *Journal of Composites for Construction*, **2017**, 21, 04017018	3.3	25
110	Experimental evaluation of longitudinal splitting of bamboo flexural components. *Proceedings of the Institution of Civil Engineers: Structures and Buildings*, **2017**, 170, 265-274	0.9	6
109	Basis of AASHTO Specifications for High-Strength Shear Reinforcement. *Journal of Bridge Engineering*, **2017**, 22, 04017090	2.7	4
108	Creep and creep buckling of pultruded glass-reinforced polymer members. *Composite Structures*, **2017**, 181, 315-324	5.3	10
107	Geometric and material effects on bamboo buckling behaviour. *Proceedings of the Institution of Civil Engineers: Structures and Buildings*, **2017**, 170, 236-249	0.9	27
106	Experimental study and numerical simulation of long-term behavior of timber beams strengthened with near surface mounted CFRP bars. *Materials and Structures/Materiaux Et Constructions*, **2017**, 50, 1	3.4	7
105	Combustion performance of engineered bamboo from cone calorimeter tests. *European Journal of Wood and Wood Products*, **2017**, 75, 161-173	2.1	20
104	Edge bearing tests to assess the influence of radial gradation on the transverse behavior of bamboo. *Construction and Building Materials*, **2017**, 131, 574-584	6.7	16
103	Capacity and Practical Implications of Driven Bearing H-Pile Design Using ASTM A572 Grade 50 Steel. *Journal of Bridge Engineering*, **2016**, 21, 04016036	2.7	

102	Dowelled structural connections in laminated bamboo and timber. *Composites Part B: Engineering*, **2016**, 90, 232-240	10	41
101	Bond–slip behavior of fiber-reinforced polymer/concrete interface in single shear pull-out and beam tests. *Journal of Reinforced Plastics and Composites*, **2016**, 35, 375-386	2.9	8
100	On inherent bending in tension tests of bamboo. *Wood Science and Technology*, **2015**, 49, 99-119	2.5	17
99	Bolted connections of pultruded GFRP: Implications of geometric characteristics on net section failure. *Composite Structures*, **2015**, 131, 878-884	5.3	8
98	Compressive Local Buckling of Pultruded GFRP I-Sections: Development and Numerical/Experimental Evaluation of an Explicit Equation. *Journal of Composites for Construction*, **2015**, 19, 04014042	3.3	23
97	Open-hole tension capacity of pultruded GFRP having staggered hole arrangement. *Engineering Structures*, **2015**, 95, 8-15	4.7	13
96	Bonding Behavior of Wet-Bonded GFRP-Concrete Interface. *Journal of Composites for Construction*, **2015**, 19, 04015001	3.3	20
95	Finite element guidelines for simulation of fibre-tension dominated failures in composite materials validated by case studies. *Composite Structures*, **2015**, 126, 299-313	5.3	34
94	On the use of fixed point theory to design coupled core walls. *Engineering Structures*, **2015**, 102, 61-65	4.7	
93	Combustion and charring properties of five common constructional wood species from cone calorimeter tests. *Construction and Building Materials*, **2015**, 96, 416-427	6.7	43
92	Closed-form equations for compressive local buckling of pultruded thin-walled sections. *Thin-Walled Structures*, **2014**, 79, 16-22	4.7	23
91	Prediction of prestress losses in RC beams externally strengthened with prestressed CFRP sheets/plates. *Journal of Reinforced Plastics and Composites*, **2014**, 33, 699-713	2.9	18
90	Mechanical properties of structural bamboo following immersion in water. *Engineering Structures*, **2014**, 81, 230-239	4.7	55
89	Performance of spray-applied epoxy lining system subject to infiltration. *Tunnelling and Underground Space Technology*, **2014**, 43, 389-397	5.7	2
88	Limits of Application of Externally Bonded CFRP Repairs for Impact-Damaged Prestressed Concrete Girders. *Journal of Composites for Construction*, **2014**, 18,	3.3	11
87	Creep behaviour of bamboo. *Construction and Building Materials*, **2014**, 66, 79-88	6.7	52
86	Design of coupled wall structures as evolving structural systems. *Engineering Structures*, **2014**, 73, 100-113	4.7	14
85	Compressive strength equation for GFRP square tube columns. *Composites Part B: Engineering*, **2014**, 59, 1-11	10	42

84	Repair of Prestressed-Concrete Girders Combining Internal Strand Splicing and Externally Bonded CFRP Techniques. *Journal of Bridge Engineering*, **2014**, 19, 200-209	2.7	7
83	Flexural Members with High-Strength Reinforcement: Behavior and Code Implications. *Journal of Bridge Engineering*, **2014**, 19, 04014003	2.7	20
82	CFRP strengthening of timber beams recovered from a 32 year old quonset: Element and system level tests. *Engineering Structures*, **2013**, 57, 213-221	4.7	17
81	Experimental and numerical investigation of the seismic performance of hollow rectangular bridge piers constructed with and without steel fiber reinforced concrete. *Engineering Structures*, **2013**, 48, 255-265	4.7	46
80	Crack Opening Behavior of Concrete Reinforced with High Strength Reinforcing Steel. *International Journal of Concrete Structures and Materials*, **2013**, 7, 253-264	2.8	29
79	Dilation behavior of seven-wire prestressing strand □The Hoyer effect. *Construction and Building Materials*, **2013**, 40, 650-658	6.7	19
78	Statistical Characterization of Reinforced Concrete Beams Strengthened with FRP Sheets. *Journal of Composites for Construction*, **2013**, 17, 357-370	3.3	8
77	Methods of determining transverse mechanical properties of full-culm bamboo. *Construction and Building Materials*, **2013**, 38, 627-637	6.7	50
76	Demonstration of Fiber Optic Instrumentation System for Prestressed Concrete Bridge Elements. *Journal of Performance of Constructed Facilities*, **2013**, 27, 785-795	2	3
75	Performance Evaluation of RC Beams Strengthened with an Externally Bonded FRP System under Simulated Vehicle Loads. *Journal of Bridge Engineering*, **2013**, 18, 76-82	2.7	27
74	Analysis of Eccentrically Loaded Adjacent Box Girders. *Journal of Bridge Engineering*, **2013**, 18, 15-25	2.7	4
73	Special Section on Eurocodes and Their Implications for Bridge Design: Background, Implementation, and Comparison to North American Practice. *Journal of Bridge Engineering*, **2013**, 18, 1239-1240	2.7	
72	Intermediate crack-induced debonding in RC beams externally strengthened with prestressed FRP laminates. *Journal of Reinforced Plastics and Composites*, **2013**, 32, 1842-1857	2.9	16
71	Behavior and Performance of Fiber-Reinforced Polymer-to-Steel Bond. *Transportation Research Record*, **2012**, 2313, 181-188	1.7	10
70	Fatigue Performance of High-Strength Reinforcing Steel. *Journal of Bridge Engineering*, **2012**, 17, 454-461	1.7	12
69	Effect of Fiber Gradation on the Edge Bearing Strength of Bamboo Culms. *Key Engineering Materials*, **2012**, 517, 63-70	0.4	3
68	PREDICTIVE RESPONSE OF NOTCHED STEEL BEAMS REPAIRED WITH CFRP STRIPS INCLUDING BOND-SLIP BEHAVIOR. *International Journal of Structural Stability and Dynamics*, **2012**, 12, 1-21	1.9	41
67	Prestress Losses and Flexural Behavior of Reinforced Concrete Beams Strengthened with Posttensioned CFRP Sheets. *Journal of Composites for Construction*, **2012**, 16, 207-216	3.3	44

66	Flexural Crack Widths in Concrete Girders with High-Strength Reinforcement. *Journal of Bridge Engineering*, **2012**, 17, 804-812	2.7	22
65	Experimental Buckling Capacity of Multiple-Culm Bamboo Columns. *Key Engineering Materials*, **2012**, 517, 51-62	0.4	7
64	Structural Use of Full Culm Bamboo: The Path to Standardization. *International Journal of Architecture Engineering and Construction*, **2012**, 1, 66-75	0.5	27
63	Pushover behaviour of bamboo portal frame structure. *International Wood Products Journal*, **2011**, 2, 20-28	0.9	7
62	Fatigue behavior of damaged steel beams repaired with CFRP strips. *Engineering Structures*, **2011**, 33, 1491-1502	4.7	87
61	Behavior of tee-section bracing members retrofitted with CFRP strips subjected to axial compression. *Composites Part B: Engineering*, **2011**, 42, 789-800	10	12
60	Environmental durability of externally bonded FRP materials intended for repair of concrete structures. *Construction and Building Materials*, **2011**, 25, 2528-2539	6.7	153
59	Steel-FRP Composite Structural Systems **2011**,		3
58	Redevelopment of Prestressing Force in Severed Prestressed Strands. *Journal of Bridge Engineering*, **2011**, 16, 431-437	2.7	5
57	Modeling of Steel Beams Strengthened with CFRP Strips Including Bond-Slip Properties **2011**, 873-876		2
56	Seismic Design of Hybrid Coupled Wall Systems: State of the Art. *Journal of Structural Engineering*, **2010**, 136, 755-769	3	64
55	Characterization of Splitting Behavior of Bamboo Culms. *Journal of Materials in Civil Engineering*, **2010**, 22, 1195-1199	3	54
54	Flexural Behavior and Design with High-Strength Bars and Bars without a Well-Defined Yield Point. *Transportation Research Record*, **2010**, 2172, 103-111	1.7	
53	Bond and Anchorage of High-Strength Reinforcing Steel. *Transportation Research Record*, **2010**, 2172, 96-102	1.7	1
52	Modeling of timber beams strengthened with various CFRP composites. *Engineering Structures*, **2010**, 32, 3225-3234	4.7	91
51	Effect of Variations in Practice of ASTM D7522 Standard Pull-Off Test for FRP-Concrete Interfaces. *Journal of Testing and Evaluation*, **2010**, 38, 102682	1	0
50	Structural Testing of Prestressed Concrete Girders from the Lake View Drive Bridge. *Journal of Bridge Engineering*, **2009**, 14, 78-92	2.7	23
49	Recommendations for Seismic Design of Hybrid Coupled Wall Systems **2009**,		7

48	Enhancing stability of structural steel sections using FRP. *Thin-Walled Structures*, **2009**, 47, 1092-1101	4.7	95
47	Acoustic emission monitoring of CFRP reinforced concrete slabs. *Construction and Building Materials*, **2009**, 23, 2016-2026	6.7	89
46	Fatigue behavior of externally bonded steel fiber reinforced polymer (SFRP) for retrofit of reinforced concrete. *Materials and Structures/Materiaux Et Constructions*, **2009**, 42, 271-278	3.4	9
45	A Nonlinear Acoustic Technique for Crack Detection in Metallic Structures. *Structural Health Monitoring*, **2009**, 8, 251-262	4.4	72
44	Reference-Free Damage Classification Based on Cluster Analysis. *Computer-Aided Civil and Infrastructure Engineering*, **2008**, 23, 324-338	8.4	31
43	Design Compression Forces for Coupled Wall Structures **2008**,		1
42	Strengthening of Reinforced Concrete Bridge Decks Using Carbon Fiber-Reinforced Polymer Composite Materials. *Journal of Bridge Engineering*, **2008**, 13, 455-467	2.7	15
41	A Performance-Based Design Approach for Coupled Core Wall Systems with Diagonally Reinforced Concrete Coupling Beams. *Advances in Structural Engineering*, **2008**, 11, 253-268	1.9	8
40	Advanced Ultrasonic Structural Monitoring of Waveguides. *Advances in Science and Technology*, **2008**, 56, 477-482	0.1	
39	ON THE APPLICABILITY OF FIXED POINT THEORY TO THE BEHAVIOR OF COUPLED CORE WALLS. *International Journal of Structural Stability and Dynamics*, **2008**, 08, 161-186	1.9	5
38	Acoustic emission monitoring of externally bonded FRP-reinforced concrete **2008**,		1
37	A critical steel yielding length model for predicting intermediate crack-induced debonding in FRP -strengthened RC members. *Steel and Composite Structures*, **2008**, 8, 457-473		6
36	Debonding monitoring of CFRP strengthened RC beams using active sensing and infrared imaging. *Smart Structures and Systems*, **2008**, 4, 391-406		6
35	Future Directions for Research in FRP Composites in Concrete Construction. *Journal of Composites for Construction*, **2007**, 11, 252-257	3.3	16
34	Effect on Superstructure Stress of Replacing a Composite RC Bridge Deck with a GFRP Deck. *Journal of Bridge Engineering*, **2007**, 12, 394-398	2.7	3
33	Prioritized FRP Research Needs in Civil Infrastructure **2007**, 1		2
32	Conceptual Investigation of Partially Buckling Restrained Braces **2007**, 1		3
31	Recommendations for Seismic Design of Hybrid Coupled Walls **2007**, 1		1

30	Reference-Free NDT Technique for Debonding Detection in CFRP-Strengthened RC Structures. *Journal of Structural Engineering*, **2007**, 133, 1080-1091	3	33
29	Evaluation of Effective Width and Distribution Factors for GFRP Bridge Decks Supported on Steel Girders. *Journal of Bridge Engineering*, **2006**, 11, 401-409	2.7	22
28	Debonding- and Fatigue-Related Strain Limits for Externally Bonded FRP. *Journal of Composites for Construction*, **2006**, 10, 87-90	3.3	26
27	Adoption of the International Residential Code in a High Natural Hazards Region: An Overview. *Journal of Architectural Engineering*, **2006**, 12, 1-11	1.5	1
26	The Effect of the Presence of Water on the Durability of Bond between CFRP and Concrete. *Journal of Reinforced Plastics and Composites*, **2006**, 25, 875-890	2.9	75
25	Deterioration of FRP-to-Concrete Bond under Failure Loading. *Advances in Structural Engineering*, **2006**, 9, 779-789	1.9	19
24	Full-Scale Experimental Investigation of Repair of Reinforced Concrete Interstate Bridge Using CFRP Materials. *Journal of Bridge Engineering*, **2006**, 11, 350-358	2.7	54
23	Performance-based design of high-rise coupled wall systems. *Structural Design of Tall and Special Buildings*, **2006**, 15, 289-306	1.8	25
22	Comparison of Three Flexural Retrofit Systems under Monotonic and Fatigue Loads. *Journal of Bridge Engineering*, **2005**, 10, 731-740	2.7	78
21	Computer simulations and parametric studies of GFRP bridge deck systems. *Composite Structures*, **2005**, 69, 103-115	5.3	15
20	Critical Evaluation of Strain Measurements in Glass Fiber-Reinforced Polymer Bridge Decks. *Journal of Bridge Engineering*, **2005**, 10, 704-712	2.7	19
19	Discussion of "Seismic force modification factors for the proposed 2005 edition of the National Building Code of Canada". *Canadian Journal of Civil Engineering*, **2004**, 31, 393-394	1.3	1
18	In situ structural evaluation of a GFRP bridge deck system. *Composite Structures*, **2004**, 65, 157-165	5.3	41
17	Parametric Study of Coupled Wall Behavior: Implications for the Design of Coupling Beams. *Journal of Structural Engineering*, **2004**, 130, 480-488	3	37
16	Fatigue Behavior of Carbon Fiber Reinforced Polymer-Strengthened Reinforced Concrete Bridge Girders. *Journal of Composites for Construction*, **2004**, 8, 501-509	3.3	99
15	Investigation of Bond between Fiber Reinforced Polymer and Concrete Undergoing Global Mixed Mode I/II Loading. *Journal of Engineering Mechanics - ASCE*, **2004**, 130, 1467-1475	2.4	53
14	Disbond detection with piezoelectric wafer active sensors in RC structures strengthened with FRP composite overlays. *Earthquake Engineering and Engineering Vibration*, **2003**, 2, 213-223	2	39
13	Shape and size effects on the behavior of variably confined concrete. *Cement and Concrete Research*, **2003**, 33, 881-890	10.3	99

12	Experimental investigation of the behavior of variably confined concrete. *Cement and Concrete Research*, **2003**, 33, 873-880	10.3	59
11	Fatigue Behavior of RC Beams Strengthened with GFRP Sheets. *Journal of Composites for Construction*, **2001**, 5, 246-253	3.3	89
10	Ductility and Deformability of Coupling Beams in Reinforced Concrete Coupled Walls. *Earthquake Spectra*, **2001**, 17, 457-478	3.4	57
9	Axial Behavior of Reinforced Concrete Columns Confined with FRP Jackets. *Journal of Composites for Construction*, **2001**, 5, 237-245	3.3	356
8	Field Investigation of High-Performance Concrete Bridge Decks in South Carolina. *Transportation Research Record*, **2001**, 1770, 12-19	1.7	
7	A unique experimental method for monitoring aggregate settlement in concrete. *Cement and Concrete Research*, **2000**, 30, 809-816	10.3	31
6	Structural Characterization of Built-Up Timber Columns. *Journal of Architectural Engineering*, **2000**, 6, 58-65	1.5	2
5	Behavior and Design of Reinforced Concrete, Steel, and Steel-Concrete Coupling Beams. *Earthquake Spectra*, **2000**, 16, 775-799	3.4	68
4	Nonlinear seismic response predictions of walls coupled with steel and concrete beams. *Canadian Journal of Civil Engineering*, **1998**, 25, 803-818	1.3	19
3	Seismic design of coupled walls - a case for mixed construction. *Canadian Journal of Civil Engineering*, **1997**, 24, 448-459	1.3	23
2	Seismic Response of Steel Beams Coupling Concrete Walls. *Journal of Structural Engineering*, **1993**, 119, 3611-3629	3	90
1	Development of load tables for design of full-culm bamboo. *European Journal of Wood and Wood Products*,1	2.1	