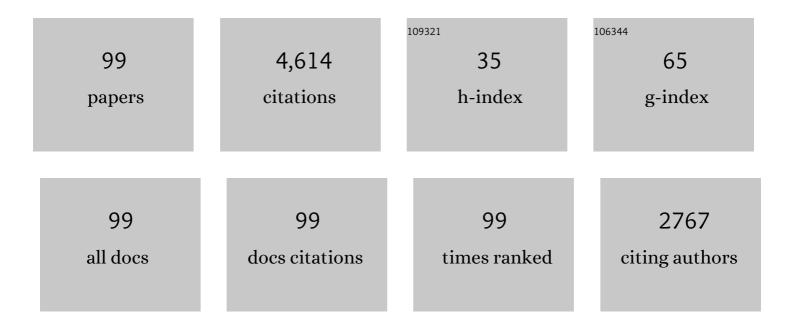
Larry B Lessard

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Damage Tolerance of Laminated Composites Containing an Open Hole and Subjected to Compressive Loadings: Part l—Analysis. Journal of Composite Materials, 1991, 25, 2-43.	2.4	331
2	Optimum stacking sequence design of composite materials Part II: Variable stiffness design. Composite Structures, 2010, 93, 1-13.	5.8	320
3	Progressive Fatigue Damage Modeling of Composite Materials, Part I: Modeling. Journal of Composite Materials, 2000, 34, 1056-1080.	2.4	283
4	Optimum stacking sequence design of composite materials Part I: Constant stiffness design. Composite Structures, 2009, 90, 1-11.	5.8	272
5	Experimental study of the effect of automated fiber placement induced defects on performance of composite laminates. Composites Part A: Applied Science and Manufacturing, 2011, 42, 484-491.	7.6	224
6	Progressive Fatigue Damage Modeling of Composite Materials, Part II: Material Characterization and Model Verification. Journal of Composite Materials, 2000, 34, 1081-1116.	2.4	161
7	Two-Dimensional Modeling of Composite Pinned-Joint Failure. Journal of Composite Materials, 1995, 29, 671-697.	2.4	121
8	Damage behavior of fiber reinforced composite plates subjected to drop weight impacts. Composites Science and Technology, 2006, 66, 61-68.	7.8	119
9	Optimization of variable stiffness composites with embedded defects induced by Automated Fiber Placement. Composite Structures, 2014, 107, 160-166.	5.8	116
10	Defect layer method to capture effect of gaps and overlaps in variable stiffness laminates made by Automated Fiber Placement. Composite Structures, 2013, 97, 245-251.	5.8	112
11	Surrogate-based multi-objective optimization of a composite laminate with curvilinear fibers. Composite Structures, 2012, 94, 2306-2313.	5.8	101
12	Parametric study of automotive composite bumper beams subjected to low-velocity impacts. Composite Structures, 2005, 68, 419-427.	5.8	91
13	Cure shrinkage characterization and modeling of a polyester resin containing low profile additives. Composites Part A: Applied Science and Manufacturing, 2007, 38, 994-1009.	7.6	91
14	Recycling of fiberglass wind turbine blades into reinforced filaments for use in Additive Manufacturing. Composites Part B: Engineering, 2019, 175, 107101.	12.0	84
15	A comparative study of metamodeling methods for the design optimization of variable stiffness composites. Composite Structures, 2014, 107, 494-501.	5.8	77
16	Characterization of mechanical properties of randomly oriented strand thermoplastic composites. Journal of Composite Materials, 2016, 50, 2833-2851.	2.4	75
17	Damage Tolerance of Laminated Composites Containing an Open Hole and Subjected to Compressive Loadings: Part Il—Experiment. Journal of Composite Materials, 1991, 25, 44-64.	2.4	74
18	Investigation of bolted/bonded composite joint behaviour using design of experiments. Composite Structures, 2017, 170, 192-201.	5.8	69

#	Article	IF	CITATIONS
19	Shear buckling of a composite drive shaft under torsion. Composite Structures, 2004, 64, 63-69.	5.8	67
20	Hybrid bonded-fastened joints and their application in composite structures: A general review. Journal of Reinforced Plastics and Composites, 2016, 35, 764-781.	3.1	67
21	Improving load sharing in hybrid bonded/bolted composite joints using an interference-fit bolt. Composite Structures, 2016, 149, 329-338.	5.8	66
22	Micro-CT measurement of fibre misalignment: Application to carbon/epoxy laminates manufactured in autoclave and by vacuum assisted resin transfer moulding. Composites Part A: Applied Science and Manufacturing, 2018, 104, 14-23.	7.6	60
23	Fatique and damage-tolerance analysis of composite laminates: Stiffness loss, damage-modelling, and life prediction. Composites Science and Technology, 1994, 51, 43-51.	7.8	58
24	Mechanical characterisation and modelling of randomly oriented strand architecture and their hybrids – A general review. Journal of Reinforced Plastics and Composites, 2018, 37, 548-580.	3.1	57
25	Load sharing in single-lap bonded/bolted composite joints. Part I: Model development and validation. Composite Structures, 2015, 129, 268-275.	5.8	53
26	Tension–tension fatigue behaviour of woven flax/epoxy composites. Journal of Reinforced Plastics and Composites, 2015, 34, 857-867.	3.1	51
27	A non-dominated sorting hybrid algorithm for multi-objective optimization of engineering problems. Engineering Optimization, 2011, 43, 39-59.	2.6	50
28	Load sharing in single-lap bonded/bolted composite joints. Part II: Global sensitivity analysis. Composite Structures, 2015, 129, 276-283.	5.8	50
29	Analytical model for prediction of strength and fracture paths characteristic to randomly oriented strand (ROS) composites. Composites Part B: Engineering, 2016, 96, 103-111.	12.0	50
30	Application of natural fiber composites to musical instrument top plates. Journal of Composite Materials, 2012, 46, 145-154.	2.4	49
31	Three-dimensional stress analysis of free-edge effects in a simple composite cross-ply laminate. International Journal of Solids and Structures, 1996, 33, 2243-2259.	2.7	48
32	Recycled Glass Fiber Composites from Wind Turbine Waste for 3D Printing Feedstock: Effects of Fiber Content and Interface on Mechanical Performance. Materials, 2019, 12, 3929.	2.9	44
33	Progressive Fatigue Damage Modeling of Cross-ply Laminates, II: Experimental Evaluation. Journal of Composite Materials, 2010, 44, 1261-1277.	2.4	40
34	Effects of Material Nonlinearity on the Three-Dimensional Stress State of Pin-Loaded Composite Laminates. Journal of Composite Materials, 1996, 30, 839-861.	2.4	39
35	Residual stiffness in cross-ply laminates subjected to cyclic loading. Composite Structures, 2008, 85, 205-212.	5.8	39
36	On the elastostatic analysis of mechanical systems. Mechanism and Machine Theory, 2012, 58, 202-216.	4.5	39

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37	Modelling of mechanical properties of randomly oriented strand thermoplastic composites. Journal of Composite Materials, 2017, 51, 831-845.	2.4	38
38	Tensile properties and interfacial shear strength of recycled fibers from wind turbine waste. Composites Part A: Applied Science and Manufacturing, 2020, 131, 105786.	7.6	37
39	Characterization of flax/epoxy prepregs before and after cure. Journal of Reinforced Plastics and Composites, 2013, 32, 777-785.	3.1	35
40	An experimental investigation of class A surface finish of composites made by the resin transfer molding process. Composites Science and Technology, 2007, 67, 3176-3186.	7.8	34
41	Optimization of RTM processing parameters for Class A surface finish. Composites Part B: Engineering, 2008, 39, 1280-1286.	12.0	33
42	Structural health monitoring of a composite skin-stringer assembly using within-the-bond strategy of guided wave propagation. Materials and Design, 2016, 90, 787-794.	7.0	33
43	Constrained Globalized Nelder—Mead Method for Simultaneous Structural and Manufacturing Optimization of a Composite Bracket. Journal of Composite Materials, 2008, 42, 717-736.	2.4	32
44	Nonlinear static analysis of a composite bonded/bolted single-lap joint using the meshfree radial point interpolation method. Composite Structures, 2015, 134, 1024-1035.	5.8	32
45	An Experimental Study of Saturated and Unsaturated Permeabilities in Resin Transfer Molding Based on Unidirectional Flow Measurements. Journal of Reinforced Plastics and Composites, 2004, 23, 1515-1536.	3.1	31
46	A parametric study on static behavior and load sharing of multi-bolt hybrid bonded/bolted composite joints. Composites Part B: Engineering, 2021, 217, 108897.	12.0	31
47	Statistical model for multiaxial fatigue behavior of unidirectional plies. Composites Science and Technology, 1999, 59, 2025-2035.	7.8	30
48	Utilization of FEA in the design of composite bicycle frames. Composites, 1995, 26, 72-74.	0.7	29
49	Effect of Load Distribution on the Fiber Buckling Strength of Unidirectional Composites. Journal of Composite Materials, 1991, 25, 65-87.	2.4	28
50	Guided wave scattering behavior in composite bonded assemblies. Composite Structures, 2016, 136, 696-705.	5.8	28
51	Injectable, Poreâ€Forming, Perfusable Doubleâ€Network Hydrogels Resilient to Extreme Biomechanical Stimulations. Advanced Science, 2022, 9, e2102627.	11.2	28
52	Evolution of mechanical properties of flexible epoxy adhesives under cyclic loading and its effects on composite hybrid bolted/bonded joint design. Composite Structures, 2018, 189, 54-60.	5.8	25
53	Mechanical characterization of a flexible epoxy adhesive for the design of hybrid bonded-bolted joints. Polymer Testing, 2019, 79, 106048.	4.8	23
54	Effect of adhesive layer compliance on strength of single-lap hybrid bonded-bolted joints. Composite Structures, 2021, 261, 113324.	5.8	23

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55	3Dâ€Printed Woodâ€Fiber Reinforced Architected Cellular Composites. Advanced Engineering Materials, 2020, 22, 2000565.	3.5	22
56	Optimum Structural and Manufacturing Design of a Braided Hollow Composite Part. Applied Composite Materials, 2010, 17, 159-173.	2.5	21
57	Testing of In-Plane Shear Properties under Fatigue Loading. Journal of Reinforced Plastics and Composites, 1995, 14, 965-987.	3.1	20
58	Title is missing!. Applied Composite Materials, 1998, 5, 289-304.	2.5	20
59	An experimental study on the mechanical behaviour of bonded and hybrid bonded-bolted composite joints using digital image correlation (DIC) technique. Composite Structures, 2021, 276, 114544.	5.8	19
60	Pareto frontier for simultaneous structural and manufacturing optimization of a composite part. Structural and Multidisciplinary Optimization, 2010, 40, 497-511.	3.5	18
61	Mechanical and thermal study of <scp>3D</scp> printing composite filaments from wind turbine waste. Polymer Composites, 2021, 42, 2305-2316.	4.6	18
62	A closed-form solution for stresses at curved free edges in composite laminates: A variational approach. Composites Science and Technology, 1997, 57, 1341-1354.	7.8	15
63	A fully non-linear 3-D constitutive relationship for the stress analysis of a pin-loaded composite laminate. Composites Science and Technology, 2002, 62, 429-439.	7.8	15
64	Application of composite materials to the chenda, an Indian percussion instrument. Applied Acoustics, 2015, 88, 1-5.	3.3	15
65	Multiscale finite element analysis of mode I delamination growth in a fabric composite. Composite Structures, 2015, 133, 157-165.	5.8	14
66	Interlaminar shear behaviour of hybrid fibre architectures of randomly oriented strands combined with laminate groups. Composite Structures, 2017, 176, 823-832.	5.8	14
67	Banana fiber/low-density polyethylene recycled composites for third world eco-friendly construction applications – Waste for life project Sri Lanka. Journal of Reinforced Plastics and Composites, 2018, 37, 1322-1331.	3.1	14
68	Numerical simulations for class A surface finish in resin transfer moulding process. Composites Part B: Engineering, 2012, 43, 819-824.	12.0	13
69	Title is missing!. Applied Composite Materials, 1998, 5, 49-64.	2.5	12
70	An Overview of Fibre-Reinforced Composites for Musical Instrument Soundboards. Acoustics Australia, 2015, 43, 117-122.	2.4	12
71	Recycling and valorization of glass fibre thermoset composite waste by cold incorporation into a sustainable inorganic polymer matrix. Composites Part B: Engineering, 2021, 223, 109120.	12.0	12
72	Progressive Fatigue Damage Modeling of Composite Materials, Part I: Modeling. Journal of Composite Materials, 2000, 34, 1056-1080.	2.4	12

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73	Durability assessment of hybrid FRP composite shell and its application to prestressed concrete girders. Construction and Building Materials, 2017, 150, 114-122.	7.2	10
74	Experimental and analytical investigation of <scp>3D</scp> printed specimens reinforced by different forms of recyclates from wind turbine waste. Polymer Composites, 2021, 42, 4533-4548.	4.6	10
75	Experimental investigation of the effect of half gap/half overlap defects on the strength of composite structures fabricated using automated fibre placement (AFP). Composites Part A: Applied Science and Manufacturing, 2021, 150, 106610.	7.6	10
76	Optimum structural design of a two-limb Schönflies motion generator. Mechanism and Machine Theory, 2014, 80, 125-141.	4.5	8
77	A new finite element method for modeling delamination propagation without additional degrees of freedom. Composite Structures, 2016, 147, 82-98.	5.8	8
78	Finite element modeling of Lamb wave propagation in composite stepped joints. Journal of Reinforced Plastics and Composites, 2016, 35, 796-806.	3.1	8
79	Multi-objective optimization of a composite rotor blade cross-section. Composite Structures, 2013, 96, 75-81.	5.8	7
80	Architected cellular fiber-reinforced composite. Composites Part B: Engineering, 2022, 238, 109894.	12.0	7
81	Constraint-wrench analysis of robotic manipulators. Multibody System Dynamics, 2013, 29, 139-168.	2.7	6
82	An overview of additive manufacturing technologies for musical wind instruments. SN Applied Sciences, 2021, 3, 1.	2.9	6
83	Polylactic acid/recycled wind turbine glass fiber composites with enhanced mechanical properties and toughness. Journal of Applied Polymer Science, 2022, 139, .	2.6	6
84	Effect of Common Chemical Treatments on the Process Kinetics and Mechanical Properties of Flax/Epoxy Composites Manufactured by Resin Infusion. Journal of Polymers and the Environment, 2015, 23, 143-155.	5.0	5
85	Elastodynamics of a two-limb Schönflies motion generator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 751-764.	2.1	5
86	Tensile behaviour of hybrid fibre architectures of randomly oriented strands combined with laminate groups. Journal of Composite Materials, 2019, 53, 3725-3740.	2.4	5
87	Bi-directional fluid-structure interaction for prediction of tip clearance influence on a composite ducted propeller. Ocean Engineering, 2020, 208, 107390.	4.3	5
88	Layer Separation for Optimization of Composite Laminates. , 2008, , .		5
89	Size-dependent behavior of laminates with curvilinear fibers made by automated fiber placement. Science and Engineering of Composite Materials, 2015, 22, 157-163.	1.4	4
90	Experimental Model of Impact Damage for Guided Wave-Based Inspection of Composites. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2018, 1, 040801-040801-8.	0.9	4

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91	3Dâ€Printed Woodâ€Fiber Reinforced Architected Cellular Composites. Advanced Engineering Materials, 2020, 22, .	3.5	4
92	Progressive Fatigue Damage Modeling of Composite Materials, Part II: Material Characterization and Model Verification. Journal of Composite Materials, 2000, 34, 1081-1116.	2.4	3
93	Selection of Structural Features for the Systematic Study of Guided Wave Propagation and Interaction with Damage. , 0, , .		2
94	Flow-control and hybridization strategies for thermoplastic stiffened panels of long discontinuous fibers. Journal of Reinforced Plastics and Composites, 2017, 36, 1327-1342.	3.1	1
95	Characterization of Guided Waves Propagation in a Composite Skin-stringer Assembly. , 0, , .		1
96	Design of a Carbon Fiber Bicycle Stem using a Novel Internal Bladder Resin Transfer Molding Technique. Advanced Composites Letters, 2010, 19, 096369351001900.	1.3	0
97	A Study of the Effect of Geometry Changes on the Structural Stiffness of a Composite D-Spar. , 2010, , .		0
98	Bond Characteristics between Fiber-Reinforced Polymer Composite Laminate and Prestressed Concrete. IABSE Symposium Report, 2013, , .	0.0	0
99	A novel flax fibre composite material for stringed instrument fingerboards. Journal of Reinforced Plastics and Composites, 2022, 41, 670-678.	3.1	0