Gin Boay Chai

List of Publications by Year
in descending order

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84	2,156	257450	243625
papers	citations	24 h-index	44 g-index

87	87	87	1584
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low velocity impact response of fibre-metal laminates â€“ A review. Composite Structures, 2014, 107, 363-381.	5.8	252
2	Mechanical properties of Nomex material and Nomex honeycomb structure. Composite Structures, 2007, 80, 588-594.	5.8	199
3	A model to predict low-velocity impact response and damage in sandwich composites. Composites Science and Technology, 2008, 68, 1348-1356.	7.8	149
4	Low-velocity impact failure of aluminium honeycomb sandwich panels. Composite Structures, 2008, 85, 20-28.	5.8	137
5	Low-velocity impact response of fibreâ€“metal laminates â€“ Experimental and finite element analysis. Composites Science and Technology, 2012, 72, 1793-1802.	7.8	95
6	Mechanical behaviors of Ti/CFRP/Ti laminates with different surface treatments of titanium sheets. Composite Structures, 2017, 163, 21-31.	5.8	93
7	Damage and failure mode maps of composite sandwich panel subjected to quasi-static indentation and low velocity impact. Composite Structures, 2013, 101, 204-214.	5.8	92
8	Influence of fiber type on the impact response of titanium-based fiber-metal laminates. International Journal of Impact Engineering, 2018, 114, 32-42.	5.0	81
9	In-plane deformation measurement using the atomic force microscope moirÃ© method. Nanotechnology, 2000, 11, 24-29.	2.6	68
10	Free vibration of laminated composite plates with a central circular hole. Composite Structures, 1996, 35, 357-368.	5.8	62
11	A review of low-velocity impact on sandwich structures. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2011, 225, 207-230.	1.1	53
12	Delamination growth behavior of a woven E-glass/bismaleimide composite in seawater environment. Composites Part B: Engineering, 2016, 106, 332-343.	12.0	44
13	High resolution AFM scanning MoirÃ© method and its application to the micro-deformation in the BGA electronic package. Microelectronics Reliability, 2002, 42, 1219-1227.	1.7	40
14	A modified energy-balance model to predict low-velocity impact response for sandwich composites. Composite Structures, 2011, 93, 1385-1393.	5.8	37
15	A layer-wise behavioral study of metal based interply hybrid composites under low velocity impact load. Composite Structures, 2014, 117, 17-31.	5.8	33
16	Finite element technique for design of stub columns. Thin-Walled Structures, 2000, 37, 97-112.	5.3	32
17	Coupling effects in bending, buckling and free vibration of generally laminated composite beams. Composites Science and Technology, 2008, 68, 1664-1670.	7.8	28
18	Determination of isoclinic and isochromatic parameters using the three-load method. Measurement Science and Technology, 2000, 11, 532-537.	2.6	26

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19	Thermal deformation measurement of electronic packages using the atomic force microscope scanning moirÃ© technique. Review of Scientific Instruments, 2001, 72, 2180-2185.	1.3	26
20	Application of additive manufacturing techniques in sports footwear. Virtual and Physical Prototyping, 2013, 8, 249-252.	10.4	26
21	On The Natural Frequencies Of Beams Carrying A Concentrated Mass. Journal of Sound and Vibration, 1993, 160, 161-166.	3.9	25
22	The effect of varying the support conditions on the buckling of laminated composite plates. Composite Structures, 1993, 24, 99-106.	5.8	25
23	Buckling of generally laminated composite plates. Composites Science and Technology, 1992, 45, 125-133.	7.8	24
24	Life prediction of woven CFRP structure subject to static and fatigue loading. Composite Structures, 2015, 119, 185-194.	5.8	24
25	Quantification of flexural fatigue life and 3D damage in carbon fibre reinforced polymer laminates. Composites Part A: Applied Science and Manufacturing, 2016, 90, 778-785.	7.6	23
26	Analytical and numerical studies on the buckling of delaminated composite beams. Composite Structures, 2007, 80, 307-319.	5.8	22
27	Free vibration of generally laminated composite plates with various edge support conditions. Composite Structures, 1994, 29, 249-258.	5.8	21
28	A study on residual stresses in polymer composites using moirÃ© interferometry. Advanced Composite Materials, 2004, 13, 237-253.	1.9	21
29	Buckling strength optimization of laminated composite plates. Computers and Structures, 1993, 46, 77-82.	4.4	20
30	A review of advances in fatigue and life prediction of fiber-reinforced composites. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2013, 227, 179-195.	1.1	19
31	Comparisons of experimental and theoretical frequencies for rectangular plates with various boundary conditions and added masses. International Journal of Mechanical Sciences, 1998, 40, 1119-1131.	6.7	18
32	Long-term life prediction of woven CFRP laminates under three point flexural fatigue. Composites Part B: Engineering, 2016, 91, 539-547.	12.0	18
33	Experimental and analytical investigations of vibration frequencies for centre-loaded beams. Computers and Structures, 1993, 48, 1157-1162.	4.4	17
34	Frequency analysis of rectangular isotropic plates carrying a concentrated mass. Computers and Structures, 1995, 56, 39-48.	4.4	17
35	Buckling of generally laminated composite plates with various edge support conditions. Composite Structures, 1994, 29, 299-310.	5.8	16
36	Fatigue Life Prediction of GLARE Composites Using Regression Tree Ensembleâ€Based Machine Learning Model. Advanced Theory and Simulations, 2020, 3, 2000048.	2.8	16

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37	An experimental study on laminated panels in compression. Composite Structures, 1991, 19, 67-87.	5.8	14
38	A similitude approach towards the understanding of low velocity impact characteristics of bi-layered hybrid composite structures. Composite Structures, 2015, 131, 183-192.	5.8	14
39	Flexural fatigue life prediction of CFRP-Nomex honeycomb sandwich beams. Composite Structures, 2018, 192, 225-231.	5.8	14
40	A finite element method to investigate the elastic properties of pillared graphene sheet under different conditions. Carbon, 2018, 140, 210-217.	10.3	14
41	Mode-I Metal-Composite Interface Fracture Testing for Fibre Metal Laminates. Advances in Materials Science and Engineering, 2018, 2018, 1-11.	1.8	13
42	The instability behaviour of laminated panels with elastically rotationally restrined edges. Composite Structures, 1991, 19, 41-65.	5.8	12
43	Influence of stress ratio and stress concentration on the fatigue behaviour of hygrothermal aged multidirectional CFRP composite laminate. International Journal of Fatigue, 2020, 137, 105651.	5.7	12
44	Quasi-Static and Low-Velocity Impact Failure of Aluminium Honeycomb Sandwich Panels. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2006, 220, 53-66.	1.1	11
45	A Numerical Study on High Velocity Impact Behavior of Titanium Based Fiber Metal Laminates. Journal of Composites Science, 2018, 2, 62.	3.0	10
46	Multiscale finite element analyses on mechanical properties of graphene-reinforced composites. Mechanics of Advanced Materials and Structures, 2019, 26, 1735-1742.	2.6	10
47	Vibration analysis of laminated composite plates: TV-holography and finite element method. Composite Structures, 1993, 23, 273-283.	5.8	9
48	Stability Study of Coupling Responses in Laminates. Journal of Composites Technology and Research, 1991, 13, 187.	0.4	9
49	EXPERIMENTAL INVESTIGATIONS AND SHAPE FUNCTIONS FOR LATERAL VIBRATION OF AXIALLY CONSTRAINED BEAMS WITH A CONCENTRATED MASS AT THE CENTRE. Journal of Sound and Vibration, 1997, 202, 446-451.	3.9	8
50	Stress distribution in sandwich beams under tension. Composite Structures, 1999, 45, 195-204.	5.8	8
51	Buckling of composite beams with two enveloped delaminations: Lower and upper bounds. Computers and Structures, 2008, 86, 2155-2165.	4.4	8
52	Large deflections of laminated composite plates. Composites Science and Technology, 1991, 42, 349-360.	7.8	7
53	Tension effects on the natural frequencies of centre-loaded clamped beams. Journal of Sound and Vibration, 1995, 181, 727-736.	3.9	7
54	Residual interlaminar deformation analysis in the carbon/epoxy composites using micro-moirÃ© interferometry. Composites Science and Technology, 2003, 63, 171-175.	7.8	7

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55	Frequency analysis of a S-C-S-C plate carrying a concentrated mass. Journal of Sound and Vibration, 1995, 179, 170-177.	3.9	6
56	A COMPARATIVE STUDY OF VIBRATING LOADED PLATES BETWEEN THE RAYLEIGH-RITZ AND EXPERIMENTAL METHODS. Journal of Sound and Vibration, 1997, 199, 285-297.	3.9	6
57	AN IMPROVED MODEL FOR PREDICTING FUNDAMENTAL FREQUENCIES OF PLATES CARRYING MULTIPLE MASSES. Journal of Sound and Vibration, 1997, 200, 235-239.	3.9	5
58	Micro-moire methods: optical and scanning techniques. , 2001, 4416, 54.		5
59	Low-velocity impact response of fiber-metal laminates â€“ A theoretical approach. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2014, 228, 301-311.	1.1	5
60	Novel full-field automated photoelastic analysis technique. Optical Engineering, 2000, 39, 2689.	1.0	4
61	Effect of adhesive in sandwich panels subjected to low-velocity impact. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2011, 225, 171-181.	1.1	4
62	Buckling Response of Symmetric Laminated Plates*. Mechanics Based Design of Structures and Machines, 1996, 24, 439-452.	0.6	3
63	Effect of flexural stiffness estimates on the buckling load of delaminated composite beams. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2008, 222, 91-102.	1.1	3
64	Bending and buckling of a generally laminated composite beam-column. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2010, 224, 1-7.	1.1	3
65	Stress analysis of a postbuckled laminated composite plate. Structural Engineering and Mechanics, 1999, 7, 377-386.	1.0	3
66	Polymer-based stents produced by rapid prototyping and tooling. International Journal of Product Development, 2004, 1, 172.	0.2	2
67	Validating the dynamic coefficients of bearing pedestals in a multi-mode rotorâ€"bearing system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 1359-1378.	2.1	2
68	The Response of Woven CFRP under Static and Fatigue Loading. Advanced Materials Research, 2013, 651, 221-226.	0.3	2
69	Upper and lower bound buckling load of perfect and delaminated fiber-reinforced composite columns. Composite Structures, 2015, 122, 376-389.	5.8	2
70	Low-velocity impact response of composite sandwich panels. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 388-399.	1.1	2
71	Probabilistic bending behaviour of a symmetric multi-directional composite laminate subjected to moisture induced material property asymmetry. Composite Structures, 2020, 254, 112845.	5.8	2
72	Stability and failure of symmetrically laminated plates. Structural Engineering and Mechanics, 1996, 4, 485-496.	1.0	2

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73	Numerical and experimental study of large deflection of symmetrically laminated composite plates in compression. Structural Engineering and Mechanics, 1994, 2, 359-367.	1.0	2
74	Analysis of vane-spring structures. Computers and Structures, 1995, 57, 447-453.	4.4	1
75	High-resolution micro-moire methods: principles and applications. , 2001, 4596, 261.		1
76	Ductile and Brittle Material Failures in Low-Velocity Impact. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2010, 224, 162-172.	1.1	1
77	Evaluation of seawater exposure on mechanical properties and failure behavior of E-Glass/BMI composite for marine use. Proceedings of SPIE, 2015, , .	0.8	1
78	<title>Photoelastic stress analysis of internal fixation techniques for femur shaft crack</title>. , 2001, , .		0
79	Analytical and Numerical Analyses of Delamination Buckling in Layer Beams. Solid State Phenomena, 2006, 111, 75-78.	0.3	0
80	Energy Absorption Capacity of Expanding Tube with Fiber-Reinforcement. Key Engineering Materials, 0, 626, 57-61.	0.4	0
81	Impact face influence on low velocity impact performance of interply laminated plates. Proceedings of SPIE, 2015, , .	0.8	0
82	Flexural behavior of epoxy-carbon composite with diffusion effect. Proceedings of SPIE, 2015, , .	0.8	0
83	Fatigue in Fiber-Metal Laminates for Small Wind Turbine Blades Application. MATEC Web of Conferences, 2018, 165, 07005.	0.2	0
84	Probabilistic structural reliability analysis of a horizontal axis tidal turbine blade by considering the moisture effects on the blade material. Marine Systems and Ocean Technology, 2020, 15, 253-269.	1.0	0