

Albert Turon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3618631/publications.pdf>

Version: 2024-02-01

85
papers

5,741
citations

147801

31
h-index

74163

75
g-index

88
all docs

88
docs citations

88
times ranked

3164
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed experimental validation and benchmarking of six models for longitudinal tensile failure of unidirectional composites. <i>Composite Structures</i> , 2022, 279, 114828.	5.8	27
2	Experimental and numerical evaluation of conduction welded thermoplastic composite joints. <i>Composite Structures</i> , 2022, 281, 114964.	5.8	11
3	Environmental effects on the cohesive laws of the composite bonded joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 155, 106798.	7.6	11
4	Blind benchmarking of seven longitudinal tensile failure models for two virtual unidirectional composites. <i>Composites Science and Technology</i> , 2021, 202, 108555.	7.8	14
5	A continuum damage model for composite laminates: Part IV- Experimental and numerical tests. <i>Mechanics of Materials</i> , 2021, 154, 103686.	3.2	21
6	Size effects in hybrid unidirectional polymer composites under longitudinal tension: A micromechanical investigation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 140, 106186.	7.6	4
7	Mesoscale modelling of delamination using the cohesive zone model approach. , 2021, , 555-577.		3
8	Effect of environment conditioning on mode II fracture behaviour of adhesively bonded joints. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 112, 102912.	4.7	10
9	A phase field approach enhanced with a cohesive zone model for modeling delamination induced by matrix cracking. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 358, 112618.	6.6	53
10	The influence of mode II test configuration on the cohesive law of bonded joints. <i>Composite Structures</i> , 2020, 234, 111689.	5.8	16
11	Using acoustic emissions (AE) to monitor mode I crack growth in bonded joints. <i>Engineering Fracture Mechanics</i> , 2020, 224, 106778.	4.3	29
12	Failure of hybrid composites under longitudinal tension: Influence of dynamic effects and thermal residual stresses. <i>Composite Structures</i> , 2020, 233, 111732.	5.8	9
13	Effect of environmental conditioning on pure mode I fracture behaviour of adhesively bonded joints. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 110, 102826.	4.7	14
14	A methodology to obtain material design allowables from high-fidelity compression after impact simulations on composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 139, 106069.	7.6	9
15	A virtual testing based search for optimum compression after impact strength in thin laminates using ply-thickness hybridization and unsymmetrical designs. <i>Composites Science and Technology</i> , 2020, 196, 108188.	7.8	8
16	Durability study of flexible bonded joints: The effect of sustained loads in mode I fracture tests. <i>Polymer Testing</i> , 2020, 88, 106570.	4.8	6
17	Mode I fracture characterisation of rigid and flexible bonded joints using an advanced Wedge-Driven Test. <i>Mechanics of Materials</i> , 2020, 148, 103534.	3.2	7
18	In-situ strength effects in long fibre reinforced composites: A micro-mechanical analysis using the phase field approach of fracture. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 108, 102621.	4.7	19

#	ARTICLE	IF	CITATIONS
19	Effect of the width-to-thickness ratio on the mode I fracture toughness of flexible bonded joints. <i>Engineering Fracture Mechanics</i> , 2019, 218, 106584.	4.3	10
20	An efficient method to extract a mode I cohesive law for bonded joints using the double cantilever beam test. <i>Composites Part B: Engineering</i> , 2019, 178, 107424.	12.0	14
21	A simulation method for fatigue-driven delamination in layered structures involving non-negligible fracture process zones and arbitrarily shaped crack fronts. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 122, 107-119.	7.6	28
22	A phase field approach to simulate intralaminar and translaminar fracture in long fiber composite materials. <i>Composite Structures</i> , 2019, 220, 899-911.	5.8	92
23	Numerically-based method for fracture characterization of Mode I-dominated two-dimensional delamination in FRP laminates. <i>Composite Structures</i> , 2019, 214, 143-152.	5.8	9
24	Effects of local stress fields around broken fibres on the longitudinal failure of composite materials. <i>International Journal of Solids and Structures</i> , 2019, 156-157, 294-305.	2.7	8
25	Virtual calculation of the B-value allowables of notched composite laminates. <i>Composite Structures</i> , 2019, 212, 11-21.	5.8	22
26	A benchmark test for validating 3D simulation methods for delamination growth under quasi-static and fatigue loading. <i>Composite Structures</i> , 2019, 210, 932-941.	5.8	24
27	An analytical model to predict stress fields around broken fibres and their effect on the longitudinal failure of hybrid composites. <i>Composite Structures</i> , 2019, 211, 564-576.	5.8	7
28	Improving damage resistance and load capacity of thin-ply laminates using ply clustering and small mismatch angles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 117, 76-91.	7.6	41
29	A dynamic spring element model for the prediction of longitudinal failure of polymer composites. <i>Computational Materials Science</i> , 2019, 160, 42-52.	3.0	19
30	An evaluation of mode-decomposed energy release rates for arbitrarily shaped delamination fronts using cohesive elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 218-237.	6.6	27
31	A thermo-mechanical cyclic cohesive zone model for variable amplitude loading and mixed-mode behavior. <i>International Journal of Solids and Structures</i> , 2019, 159, 257-271.	2.7	21
32	A 3D Progressive Failure Model for predicting pseudo-ductility in hybrid unidirectional composite materials under fibre tensile loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 579-591.	7.6	38
33	Experimental methodology for obtaining fatigue crack growth rate curves in mixed-mode I-II by means of variable cyclic displacement tests. <i>International Journal of Fatigue</i> , 2018, 110, 63-70.	5.7	12
34	Analytical model for predicting the tensile strength of unidirectional composites based on the density of fiber breaks. <i>Composites Part B: Engineering</i> , 2018, 141, 84-91.	12.0	9
35	A 3D transversally isotropic constitutive model for advanced composites implemented in a high performance computing code. <i>European Journal of Mechanics, A/Solids</i> , 2018, 71, 278-291.	3.7	28
36	Accurate simulation of delamination under mixed-mode loading using a cohesive model with a mode-dependent penalty stiffness. <i>Composite Structures</i> , 2018, 184, 506-511.	5.8	70

#	ARTICLE	IF	CITATIONS
37	Numerical simulation of two-dimensional in-plane crack propagation in FRP laminates. Composite Structures, 2018, 200, 396-407.	5.8	18
38	Point-wise evaluation of the growth driving direction for arbitrarily shaped delamination fronts using cohesive elements. European Journal of Mechanics, A/Solids, 2018, 72, 464-482.	3.7	26
39	8.8 Analysis of Delamination Damage in Composite Structures Using Cohesive Elements. , 2018, , 136-156.		1
40	A benchmark study of simulation methods for high-cycle fatigue-driven delamination based on cohesive zone models. Composite Structures, 2017, 164, 198-206.	5.8	35
41	Progressive failure analysis of DCB bonded joints using a new elastic foundation coupled with a cohesive damage model. European Journal of Mechanics, A/Solids, 2017, 63, 22-35.	3.7	25
42	Effective simulation of the mechanics of longitudinal tensile failure of unidirectional polymer composites. International Journal of Fracture, 2017, 208, 269-285.	2.2	26
43	An efficient methodology for the experimental characterization of mode II delamination growth under fatigue loading. International Journal of Fatigue, 2017, 95, 185-193.	5.7	26
44	Cohesive zone length of orthotropic materials undergoing delamination. Engineering Fracture Mechanics, 2016, 159, 174-188.	4.3	58
45	A quick procedure to predict free-edge delamination in thin-ply laminates under tension. Engineering Fracture Mechanics, 2016, 168, 28-39.	4.3	23
46	An experimental analysis of the fracture behavior of composite bonded joints in terms of cohesive laws. Composites Part A: Applied Science and Manufacturing, 2016, 90, 234-242.	7.6	45
47	A general analytical model based on elastic foundation beam theory for adhesively bonded DCB joints either with flexible or rigid adhesives. International Journal of Solids and Structures, 2016, 94-95, 21-34.	2.7	26
48	A simulation method for high-cycle fatigue-driven delamination using a cohesive zone model. International Journal for Numerical Methods in Engineering, 2016, 106, 163-191.	2.8	65
49	Mechanics of hybrid polymer composites: analytical and computational study. Computational Mechanics, 2016, 57, 405-421.	4.0	49
50	On the validity of linear elastic fracture mechanics methods to measure the fracture toughness of adhesive joints. International Journal of Solids and Structures, 2016, 81, 110-116.	2.7	50
51	Bond behaviour between recycled aggregate concrete and glass fibre reinforced polymer bars. Construction and Building Materials, 2016, 106, 449-460.	7.2	51
52	Finite-thickness cohesive elements for modeling thick adhesives. Engineering Fracture Mechanics, 2016, 168, 105-113.	4.3	27
53	A non-linear hyperelastic foundation beam theory model for double cantilever beam tests with thick flexible adhesive. International Journal of Solids and Structures, 2016, 80, 19-27.	2.7	22
54	Interface elements for fatigue-driven delaminations in advanced composite materials. , 2015, , 73-91.		2

#	ARTICLE	IF	CITATIONS
55	Mode I fatigue behaviour and fracture of adhesively-bonded fibre-reinforced polymer (FRP) composite joints for structural repairs. , 2015, , 121-147.		6
56	An experimental study on matrix crack induced delamination in composite laminates. Composite Structures, 2015, 127, 10-17.	5.8	65
57	Short and long-term cracking behaviour of GFRP reinforced concrete beams. Composites Part B: Engineering, 2015, 77, 223-231.	12.0	28
58	An experimental data reduction method for the Mixed Mode Bending test based on the J-integral approach. Composites Science and Technology, 2015, 117, 85-91.	7.8	44
59	Delamination Under Fatigue Loads in Composite Laminates: A Review on the Observed Phenomenology and Computational Methods. Applied Mechanics Reviews, 2014, 66, .	10.1	121
60	Variable-stiffness composite panels: As-manufactured modeling and its influence on the failure behavior. Composites Part B: Engineering, 2014, 56, 660-669.	12.0	54
61	An energy based failure criterion for matrix crack induced delamination in laminated composite structures. Composite Structures, 2014, 112, 339-344.	5.8	41
62	Damage occurrence at edges of non-crimp-fabric thin-ply laminates under off-axis uniaxial loading. Composites Science and Technology, 2014, 98, 44-50.	7.8	67
63	Effect of material properties on long-term deflections of GFRP reinforced concrete beams. Construction and Building Materials, 2013, 41, 99-108.	7.2	33
64	Analysis of cracking behaviour and tension stiffening in FRP reinforced concrete tensile elements. Composites Part B: Engineering, 2013, 45, 1360-1367.	12.0	22
65	Experimental study of immediate and time-dependent deflections of GFRP reinforced concrete beams. Composite Structures, 2013, 96, 279-285.	5.8	43
66	Simulation of drop-weight impact and compression after impact tests on composite laminates. Composite Structures, 2012, 94, 3364-3378.	5.8	264
67	Assessment of energy dissipation during mixed-mode delamination growth using cohesive zone models. Composites Part A: Applied Science and Manufacturing, 2012, 43, 2128-2136.	7.6	48
68	A rational method to predict long-term deflections of FRP reinforced concrete members. Engineering Structures, 2012, 40, 230-239.	5.3	11
69	Experimental study and code predictions of fibre reinforced polymer reinforced concrete (FRP RC) tensile members. Composite Structures, 2011, 93, 2511-2520.	5.8	26
70	Crack propagation in quasi-brittle two-dimensional isotropic lattices. Engineering Fracture Mechanics, 2011, 78, 60-70.	4.3	5
71	Matrix cracking and delamination in laminated composites. Part I: Ply constitutive law, first ply failure and onset of delamination. Mechanics of Materials, 2011, 43, 169-185.	3.2	60
72	Matrix cracking and delamination in laminated composites. Part II: Evolution of crack density and delamination. Mechanics of Materials, 2011, 43, 194-211.	3.2	30

#	ARTICLE	IF	CITATIONS
73	Accurate simulation of delamination growth under mixed-mode loading using cohesive elements: Definition of interlaminar strengths and elastic stiffness. <i>Composite Structures</i> , 2010, 92, 1857-1864.	5.8	367
74	A simplified method to obtain time-dependent curvatures and deflections of concrete members reinforced with FRP bars. <i>Composite Structures</i> , 2010, 92, 1833-1838.	5.8	17
75	Experimental study of bond behaviour between concrete and FRP bars using a pull-out test. <i>Composites Part B: Engineering</i> , 2009, 40, 784-797.	12.0	325
76	An experimental study of the flexural behaviour of GFRP RC beams and comparison with prediction models. <i>Composite Structures</i> , 2009, 91, 286-295.	5.8	125
77	Effective Simulation of Delamination in Aeronautical Structures Using Shells and Cohesive Elements. <i>Journal of Aircraft</i> , 2008, 45, 663-672.	2.4	80
78	Delamination propagation under cyclic loading. , 2008, , 485-513.		4
79	Simulation of delamination in composites under high-cycle fatigue. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2270-2282.	7.6	312
80	An engineering solution for mesh size effects in the simulation of delamination using cohesive zone models. <i>Engineering Fracture Mechanics</i> , 2007, 74, 1665-1682.	4.3	1,212
81	Determination of the critical size of a statistical representative volume element (SRVE) for carbon reinforced polymers. <i>Acta Materialia</i> , 2006, 54, 3471-3484.	7.9	200
82	An exact solution for the determination of the mode mixture in the mixed-mode bending delamination test. <i>Composites Science and Technology</i> , 2006, 66, 1256-1258.	7.8	13
83	A damage model for the simulation of delamination in advanced composites under variable-mode loading. <i>Mechanics of Materials</i> , 2006, 38, 1072-1089.	3.2	722
84	A progressive damage model for unidirectional fibre-reinforced composites based on fibre fragmentation. Part I: Formulation. <i>Composites Science and Technology</i> , 2005, 65, 2039-2048.	7.8	39
85	A progressive damage model for unidirectional fibre-reinforced composites based on fibre fragmentation. Part II: Stiffness reduction in environment sensitive fibres under fatigue. <i>Composites Science and Technology</i> , 2005, 65, 2269-2275.	7.8	14