Albert Turon

List of Publications by Year in descending order

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

Version: 2024-02-01

		147566	7	74018	
85	5,741	31		75	
papers	citations	h-index		g-index	
0.0				0164	
88	88	88		3164	
all docs	docs citations	times ranked		citing authors	

#	Article	IF	CITATIONS
1	An engineering solution for mesh size effects in the simulation of delamination using cohesive zone models. Engineering Fracture Mechanics, 2007, 74, 1665-1682.	2.0	1,212
2	A damage model for the simulation of delamination in advanced composites under variable-mode loading. Mechanics of Materials, 2006, 38, 1072-1089.	1.7	722
3	Accurate simulation of delamination growth under mixed-mode loading using cohesive elements: Definition of interlaminar strengths and elastic stiffness. Composite Structures, 2010, 92, 1857-1864.	3.1	367
4	Experimental study of bond behaviour between concrete and FRP bars using a pull-out test. Composites Part B: Engineering, 2009, 40, 784-797.	5.9	325
5	Simulation of delamination in composites under high-cycle fatigue. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2270-2282.	3.8	312
6	Simulation of drop-weight impact and compression after impact tests on composite laminates. Composite Structures, 2012, 94, 3364-3378.	3.1	264
7	Determination of the critical size of a statistical representative volume element (SRVE) for carbon reinforced polymersa~†. Acta Materialia, 2006, 54, 3471-3484.	3.8	200
8	An experimental study of the flexural behaviour of GFRP RC beams and comparison with prediction models. Composite Structures, 2009, 91, 286-295.	3.1	125
9	Delamination Under Fatigue Loads in Composite Laminates: A Review on the Observed Phenomenology and Computational Methods. Applied Mechanics Reviews, 2014, 66, .	4.5	121
10	A phase field approach to simulate intralaminar and translaminar fracture in long fiber composite materials. Composite Structures, 2019, 220, 899-911.	3.1	92
11	Effective Simulation of Delamination in Aeronautical Structures Using Shells and Cohesive Elements. Journal of Aircraft, 2008, 45, 663-672.	1.7	80
12	Accurate simulation of delamination under mixed-mode loading using a cohesive model with a mode-dependent penalty stiffness. Composite Structures, 2018, 184, 506-511.	3.1	70
13	Damage occurrence at edges of non-crimp-fabric thin-ply laminates under off-axis uniaxial loading. Composites Science and Technology, 2014, 98, 44-50.	3.8	67
14	An experimental study on matrix crack induced delamination in composite laminates. Composite Structures, 2015, 127, 10-17.	3.1	65
15	A simulation method for highâ€cycle fatigueâ€driven delamination using a cohesive zone model. International Journal for Numerical Methods in Engineering, 2016, 106, 163-191.	1.5	65
16	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.	1.7	60
17	Cohesive zone length of orthotropic materials undergoing delamination. Engineering Fracture Mechanics, 2016, 159, 174-188.	2.0	58
18	Variable-stiffness composite panels: As-manufactured modeling and its influence on the failure behavior. Composites Part B: Engineering, 2014, 56, 660-669.	5.9	54

#	Article	IF	CITATIONS
19	A phase field approach enhanced with a cohesive zone model for modeling delamination induced by matrix cracking. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112618.	3.4	53
20	Bond behaviour between recycled aggregate concrete and glass fibre reinforced polymer bars. Construction and Building Materials, 2016, 106, 449-460.	3.2	51
21	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.	1.3	50
22	Mechanics of hybrid polymer composites: analytical and computational study. Computational Mechanics, 2016, 57, 405-421.	2.2	49
23	Assessment of energy dissipation during mixed-mode delamination growth using cohesive zone models. Composites Part A: Applied Science and Manufacturing, 2012, 43, 2128-2136.	3.8	48
24	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.	3.8	45
25	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.	3.8	44
26	Experimental study of immediate and time-dependent deflections of GFRP reinforced concrete beams. Composite Structures, 2013, 96, 279-285.	3.1	43
27	An energy based failure criterion for matrix crack induced delamination in laminated composite structures. Composite Structures, 2014, 112, 339-344.	3.1	41
28	Improving damage resistance and load capacity of thin-ply laminates using ply clustering and small mismatch angles. Composites Part A: Applied Science and Manufacturing, 2019, 117, 76-91.	3.8	41
29	A progressive damage model for unidirectional fibre-reinforced composites based on fibre fragmentation. Part I: Formulation. Composites Science and Technology, 2005, 65, 2039-2048.	3.8	39
30	A 3D Progressive Failure Model for predicting pseudo-ductility in hybrid unidirectional composite materials under fibre tensile loading. Composites Part A: Applied Science and Manufacturing, 2018, 107, 579-591.	3.8	38
31	A benchmark study of simulation methods for high-cycle fatigue-driven delamination based on cohesive zone models. Composite Structures, 2017, 164, 198-206.	3.1	35
32	Effect of material properties on long-term deflections of GFRP reinforced concrete beams. Construction and Building Materials, 2013, 41, 99-108.	3.2	33
33	Matrix cracking and delamination in laminated composites. Part II: Evolution of crack density and delamination. Mechanics of Materials, 2011, 43, 194-211.	1.7	30
34	Using acoustic emissions (AE) to monitor mode I crack growth in bonded joints. Engineering Fracture Mechanics, 2020, 224, 106778.	2.0	29
35	Short and long-term cracking behaviour of GFRP reinforced concrete beams. Composites Part B: Engineering, 2015, 77, 223-231.	5.9	28
36	A 3D transversally isotropic constitutive model for advanced composites implemented in a high performance computing code. European Journal of Mechanics, A/Solids, 2018, 71, 278-291.	2.1	28

#	Article	IF	Citations
37	A simulation method for fatigue-driven delamination in layered structures involving non-negligible fracture process zones and arbitrarily shaped crack fronts. Composites Part A: Applied Science and Manufacturing, 2019, 122, 107-119.	3.8	28
38	Finite-thickness cohesive elements for modeling thick adhesives. Engineering Fracture Mechanics, 2016, 168, 105-113.	2.0	27
39	An evaluation of mode-decomposed energy release rates for arbitrarily shaped delamination fronts using cohesive elements. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 218-237.	3.4	27
40	Detailed experimental validation and benchmarking of six models for longitudinal tensile failure of unidirectional composites. Composite Structures, 2022, 279, 114828.	3.1	27
41	Experimental study and code predictions of fibre reinforced polymer reinforced concrete (FRP RC) tensile members. Composite Structures, 2011, 93, 2511-2520.	3.1	26
42	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.	1.3	26
43	Effective simulation of the mechanics of longitudinal tensile failure of unidirectional polymer composites. International Journal of Fracture, 2017, 208, 269-285.	1.1	26
44	An efficient methodology for the experimental characterization of mode II delamination growth under fatigue loading. International Journal of Fatigue, 2017, 95, 185-193.	2.8	26
45	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.	2.1	26
46	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.	2.1	25
47	A benchmark test for validating 3D simulation methods for delamination growth under quasi-static and fatigue loading. Composite Structures, 2019, 210, 932-941.	3.1	24
48	A quick procedure to predict free-edge delamination in thin-ply laminates under tension. Engineering Fracture Mechanics, 2016, 168, 28-39.	2.0	23
49	Analysis of cracking behaviour and tension stiffening in FRP reinforced concrete tensile elements. Composites Part B: Engineering, 2013, 45, 1360-1367.	5.9	22
50	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.	1.3	22
51	Virtual calculation of the B-value allowables of notched composite laminates. Composite Structures, 2019, 212, 11-21.	3.1	22
52	A thermo–mechanical cyclic cohesive zone model for variable amplitude loading and mixed–mode behavior. International Journal of Solids and Structures, 2019, 159, 257-271.	1.3	21
53	A continuum damage model for composite laminates: Part IV- Experimental and numerical tests. Mechanics of Materials, 2021, 154, 103686.	1.7	21
54	A dynamic spring element model for the prediction of longitudinal failure of polymer composites. Computational Materials Science, 2019, 160, 42-52.	1.4	19

#	Article	IF	Citations
55	In-situ strength effects in long fibre reinforced composites: A micro-mechanical analysis using the phase field approach of fracture. Theoretical and Applied Fracture Mechanics, 2020, 108, 102621.	2.1	19
56	Numerical simulation of two-dimensional in-plane crack propagation in FRP laminates. Composite Structures, 2018, 200, 396-407.	3.1	18
57	A simplified method to obtain time-dependent curvatures and deflections of concrete members reinforced with FRP bars. Composite Structures, 2010, 92, 1833-1838.	3.1	17
58	The influence of mode II test configuration on the cohesive law of bonded joints. Composite Structures, 2020, 234, 111689.	3.1	16
59	A progressive damage model for unidirectional fibre-reinforced composites based on fibre fragmentation. Part II: Stiffness reduction in environment sensitive fibres under fatigue. Composites Science and Technology, 2005, 65, 2269-2275.	3.8	14
60	An efficient method to extract a mode I cohesive law for bonded joints using the double cantilever beam test. Composites Part B: Engineering, 2019, 178, 107424.	5.9	14
61	Effect of environmental conditioning on pure mode I fracture behaviour of adhesively bonded joints. Theoretical and Applied Fracture Mechanics, 2020, 110, 102826.	2.1	14
62	Blind benchmarking of seven longitudinal tensile failure models for two virtual unidirectional composites. Composites Science and Technology, 2021, 202, 108555.	3.8	14
63	An exact solution for the determination of the mode mixture in the mixed-mode bending delamination test. Composites Science and Technology, 2006, 66, 1256-1258.	3.8	13
64	Experimental methodology for obtaining fatigue crack growth rate curves in mixed-mode I-II by means of variable cyclic displacement tests. International Journal of Fatigue, 2018, 110, 63-70.	2.8	12
65	A rational method to predict long-term deflections of FRP reinforced concrete members. Engineering Structures, 2012, 40, 230-239.	2.6	11
66	Experimental and numerical evaluation of conduction welded thermoplastic composite joints. Composite Structures, 2022, 281, 114964.	3.1	11
67	Environmental effects on the cohesive laws of the composite bonded joints. Composites Part A: Applied Science and Manufacturing, 2022, 155, 106798.	3.8	11
68	Effect of the width-to-thickness ratio on the mode I fracture toughness of flexible bonded joints. Engineering Fracture Mechanics, 2019, 218, 106584.	2.0	10
69	Effect of environment conditioning on mode II fracture behaviour of adhesively bonded joints. Theoretical and Applied Fracture Mechanics, 2021, 112, 102912.	2.1	10
70	Analytical model for predicting the tensile strength of unidirectional composites based on the density of fiber breaks. Composites Part B: Engineering, 2018, 141, 84-91.	5.9	9
71	Numerically-based method for fracture characterization of Mode I-dominated two-dimensional delamination in FRP laminates. Composite Structures, 2019, 214, 143-152.	3.1	9
72	Failure of hybrid composites under longitudinal tension: Influence of dynamic effects and thermal residual stresses. Composite Structures, 2020, 233, 111732.	3.1	9

#	Article	IF	CITATIONS
73	A methodology to obtain material design allowables from high-fidelity compression after impact simulations on composite laminates. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106069.	3.8	9
74	Effects of local stress fields around broken fibres on the longitudinal failure of composite materials. International Journal of Solids and Structures, 2019, 156-157, 294-305.	1.3	8
75	A virtual testing based search for optimum compression after impact strength in thin laminates using ply-thickness hybridization and unsymmetrical designs. Composites Science and Technology, 2020, 196, 108188.	3.8	8
76	An analytical model to predict stress fields around broken fibres and their effect on the longitudinal failure of hybrid composites. Composite Structures, 2019, 211, 564-576.	3.1	7
77	Mode I fracture characterisation of rigid and flexible bonded joints using an advanced Wedge-Driven Test. Mechanics of Materials, 2020, 148, 103534.	1.7	7
78	Mode I fatigue behaviour and fracture of adhesively-bonded fibre-reinforced polymer (FRP) composite joints for structural repairs. , 2015, , 121-147.		6
79	Durability study of flexible bonded joints: The effect of sustained loads in mode I fracture tests. Polymer Testing, 2020, 88, 106570.	2.3	6
80	Crack propagation in quasi-brittle two-dimensional isotropic lattices. Engineering Fracture Mechanics, 2011, 78, 60-70.	2.0	5
81	Delamination propagation under cyclic loading. , 2008, , 485-513.		4
82	Size effects in hybrid unidirectional polymer composites under longitudinal tension: A micromechanical investigation. Composites Part A: Applied Science and Manufacturing, 2021, 140, 106186.	3.8	4
83	Mesoscale modelling of delamination using the cohesive zone model approach., 2021,, 555-577.		3
84	Interface elements for fatigue-driven delaminations in advanced composite materials., 2015,, 73-91.		2
85	8.8 Analysis of Delamination Damage in Composite Structures Using Cohesive Elements. , 2018, , 136-156.		1