

# Fabrizio Greco

## List of Publications by Year in descending order

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105  
papers

2,633  
citations

101384

36  
h-index

223531

46  
g-index

108  
all docs

108  
docs citations

108  
times ranked

1119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuum Damage-healing Mechanics with Application to Self-healing Composites. International Journal of Damage Mechanics, 2005, 14, 51-81.	2.4	149
2	Mixed mode delamination in plates: a refined approach. International Journal of Solids and Structures, 2001, 38, 9149-9177.	1.3	113
3	A multiscale damage analysis of periodic composites using a couple-stress/Cauchy multidomain model: Application to masonry structures. Composites Part B: Engineering, 2018, 141, 50-59.	5.9	73
4	A theoretical and numerical stability analysis for composite micro-structures by using homogenization theory. Composites Part B: Engineering, 2011, 42, 382-401.	5.9	66
5	Mechanical behavior of bio-inspired nacre-like composites: A hybrid multiscale modeling approach. Composite Structures, 2020, 233, 111625.	3.1	65
6	A study of concrete cover separation failure in FRP-plated RC beams via an inter-element fracture approach. Composite Structures, 2019, 212, 625-636.	3.1	57
7	Damage evolution in bimodular laminated composites under cyclic loading. Composite Structures, 2001, 53, 381-402.	3.1	53
8	Sandwich panels under interfacial debonding mechanisms. Composite Structures, 2018, 203, 310-320.	3.1	51
9	Failure Analysis of Ultra High-Performance Fiber-Reinforced Concrete Structures Enhanced with Nanomaterials by Using a Diffuse Cohesive Interface Approach. Nanomaterials, 2020, 10, 1792.	1.9	51
10	A two-scale failure analysis of composite materials in presence of fiber/matrix crack initiation and propagation. Composite Structures, 2013, 95, 582-597.	3.1	50
11	Crack propagation analysis in composite materials by using moving mesh and multiscale techniques. Computers and Structures, 2015, 153, 201-216.	2.4	48
12	A coupled interface-multilayer approach for mixed mode delamination and contact analysis in laminated composites. International Journal of Solids and Structures, 2003, 40, 7245-7268.	1.3	47
13	A 3D delamination modelling technique based on plate and interface theories for laminated structures. European Journal of Mechanics, A/Solids, 2005, 24, 127-149.	2.1	43
14	An adaptive multiscale strategy for the damage analysis of masonry modeled as a composite material. Composite Structures, 2016, 153, 972-988.	3.1	43
15	A refined diffuse cohesive approach for the failure analysis in quasibrittle materials"part II: Application to plain and reinforced concrete structures. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2764-2781.	1.7	42
16	A refined diffuse cohesive approach for the failure analysis in quasibrittle materials"part I: Theoretical formulation and numerical calibration. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 221-241.	1.7	42
17	An asymptotic analysis of delamination buckling and growth in layered plates. International Journal of Solids and Structures, 2000, 37, 6239-6276.	1.3	41
18	Delamination in composite plates: influence of shear deformability on interfacial debonding. Cement and Concrete Composites, 2001, 23, 33-45.	4.6	41

#	ARTICLE	IF	CITATIONS
19	Adaptive multiscale modeling of fiber-reinforced composite materials subjected to transverse microcracking. <i>Composite Structures</i> , 2014, 113, 249-263.	3.1	41
20	Multiscale failure analysis of periodic masonry structures with traditional and fiber-reinforced mortar joints. <i>Composites Part B: Engineering</i> , 2017, 118, 75-95.	5.9	41
21	An analytical delamination model for laminated plates including bridging effects. <i>International Journal of Solids and Structures</i> , 2002, 39, 2435-2463.	1.3	40
22	A fracture-ALE formulation to predict dynamic debonding in FRP strengthened concrete beams. <i>Composites Part B: Engineering</i> , 2013, 46, 46-60.	5.9	40
23	Mixed-mode fracture in lightweight aggregate concrete by using a moving mesh approach within a multiscale framework. <i>Composite Structures</i> , 2015, 123, 88-97.	3.1	40
24	Computation of Energy Release Rate and Mode Separation in Delaminated Composite Plates by Using Plate and Interface Variables. <i>Mechanics of Advanced Materials and Structures</i> , 2005, 12, 285-304.	1.5	39
25	A study of stability and bifurcation in micro-cracked periodic elastic composites including self-contact. <i>International Journal of Solids and Structures</i> , 2013, 50, 1646-1663.	1.3	39
26	A multiscale analysis of instability-induced failure mechanisms in fiber-reinforced composite structures via alternative modeling approaches. <i>Composite Structures</i> , 2020, 251, 112529.	3.1	39
27	Non-linear macroscopic response of fiber-reinforced composite materials due to initiation and propagation of interface cracks. <i>Engineering Fracture Mechanics</i> , 2012, 80, 92-113.	2.0	38
28	A novel approach based on ALE and delamination fracture mechanics for multilayered composite beams. <i>Composites Part B: Engineering</i> , 2015, 78, 447-458.	5.9	38
29	A multiscale model for the numerical simulation of the anchor bolt pull-out test in lightweight aggregate concrete. <i>Construction and Building Materials</i> , 2015, 95, 860-874.	3.2	38
30	An analytical investigation of debonding problems in beams strengthened using composite plates. <i>Engineering Fracture Mechanics</i> , 2007, 74, 346-372.	2.0	37
31	Homogenized mechanical behavior of composite micro-structures including micro-cracking and contact evolution. <i>Engineering Fracture Mechanics</i> , 2009, 76, 182-208.	2.0	37
32	An investigation about debonding mechanisms in FRP-strengthened RC structural elements by using a cohesive/volumetric modeling technique. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 117, 103199.	2.1	37
33	Dynamic impact analysis of long span cable-stayed bridges under moving loads. <i>Engineering Structures</i> , 2008, 30, 1160-1177.	2.6	36
34	Mixed mode dynamic delamination in fiber reinforced composites. <i>Composites Part B: Engineering</i> , 2009, 40, 379-392.	5.9	36
35	Nonlinear homogenized properties of defected composite materials. <i>Computers and Structures</i> , 2014, 134, 102-111.	2.4	36
36	A moving interface finite element formulation for layered structures. <i>Composites Part B: Engineering</i> , 2016, 96, 325-337.	5.9	36

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37	Dynamic Mode I and Mode II Crack Propagation in Fiber Reinforced Composites. <i>Mechanics of Advanced Materials and Structures</i> , 2009, 16, 442-455.	1.5	35
38	Modelling of mixed mode debonding in externally FRP reinforced beams. <i>Composites Science and Technology</i> , 2007, 67, 1459-1474.	3.8	34
39	Nonlinear effects in fracture induced failure of compressively loaded fiber reinforced composites. <i>Composite Structures</i> , 2018, 189, 688-699.	3.1	34
40	An interface approach based on moving mesh and cohesive modeling in Z-pinned composite laminates. <i>Composites Part B: Engineering</i> , 2018, 135, 207-217.	5.9	34
41	Influence of micro-cracking and contact on the effective properties of composite materials. <i>Simulation Modelling Practice and Theory</i> , 2008, 16, 861-884.	2.2	33
42	A mixed explicit-implicit time integration approach for nonlinear analysis of base-isolated structures. <i>Annals of Solid and Structural Mechanics</i> , 2018, 10, 17-29.	0.5	33
43	Crack propagation under thermo-mechanical loadings based on moving mesh strategy. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 114, 103033.	2.1	32
44	Nonlinear compressive failure analysis of biaxially loaded fiber reinforced materials. <i>Composites Part B: Engineering</i> , 2018, 147, 240-251.	5.9	31
45	A moving mesh FE methodology for vehicle-bridge interaction modeling. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1256-1268.	1.5	30
46	Dynamic Analysis of Cable-Stayed Bridges Affected by Accidental Failure Mechanisms under Moving Loads. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-20.	0.6	29
47	An investigation on microscopic and macroscopic stability phenomena of composite solids with periodic microstructure. <i>International Journal of Solids and Structures</i> , 2010, 47, 2806-2824.	1.3	27
48	Macro- and micro-instabilities in incompressible bioinspired composite materials with nacre-like microstructure. <i>Composite Structures</i> , 2021, 269, 114004.	3.1	27
49	A cohesive fracture model for predicting crack spacing and crack width in reinforced concrete structures. <i>Engineering Failure Analysis</i> , 2022, 139, 106452.	1.8	27
50	Investigation of concrete cracking phenomena by using cohesive fracture-based techniques: A comparison between an embedded crack model and a refined diffuse interface model. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 115, 103062.	2.1	25
51	Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials. <i>Composite Structures</i> , 2022, 282, 115032.	3.1	24
52	Multi-layer modeling of edge debonding in strengthened beams using interface stresses and fracture energies. <i>Engineering Structures</i> , 2016, 109, 26-42.	2.6	22
53	An improved fracture approach to investigate the degradation of vibration characteristics for reinforced concrete beams under progressive damage. <i>International Journal of Fatigue</i> , 2022, 163, 107032.	2.8	22
54	Dynamic crack growth based on moving mesh method. <i>Composites Part B: Engineering</i> , 2019, 174, 107053.	5.9	21

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55	Fracture toughness characterisation of a glass fibre reinforced plastic composite. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 3-13.	1.7	21
56	A Parametric Study on the Dynamic Behavior of Combined Cable-Stayed and Suspension Bridges under Moving Loads. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2009, 10, 243-258.	1.4	20
57	Effects of microfracture and contact induced instabilities on the macroscopic response of finitely deformed elastic composites. <i>Composites Part B: Engineering</i> , 2016, 107, 233-253.	5.9	20
58	A detailed micro-model for brick masonry structures based on a diffuse cohesive-frictional interface fracture approach. <i>Procedia Structural Integrity</i> , 2020, 25, 334-347.	0.3	19
59	A numerical model based on ALE formulation to predict crack propagation in sandwich structures. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 277-293.	0.5	18
60	Investigation of mesh dependency issues in the simulation of crack propagation in quasi-brittle materials by using a diffuse interface modeling approach. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 801-820.	1.7	17
61	Numerical formulation based on moving mesh method for vehicle-bridge interaction. <i>Advances in Engineering Software</i> , 2018, 121, 75-83.	1.8	16
62	Analysis of the Influence of Incremental Material Response on the Structural Stability. <i>Mechanics of Advanced Materials and Structures</i> , 2005, 12, 363-377.	1.5	14
63	Nonlinear analysis of microscopic instabilities in fiber-reinforced composite materials. <i>Procedia Structural Integrity</i> , 2020, 25, 400-412.	0.3	13
64	Dynamic fracture analysis in quasi-brittle materials via a finite element approach based on the combination of the ALE formulation and M <sup>2</sup> integral method. <i>Engineering Failure Analysis</i> , 2022, 141, 106627.	1.8	13
65	A cohesive finite element model based ALE formulation for z-pins reinforced multilayered composite beams. <i>Procedia Structural Integrity</i> , 2016, 2, 452-459.	0.3	11
66	Dynamic debonding in layered structures: a coupled ALE-cohesive approach. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 524-535.	0.5	11
67	An Investigation on Static and Dynamic Criteria of Constitutive Stability. <i>Mechanics of Advanced Materials and Structures</i> , 2007, 14, 347-363.	1.5	9
68	Interaction Between Interlaminar and Intralaminar Damage in Fiber-Reinforced Composite Laminates. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2008, 9, 358-373.	1.4	9
69	A novel procedure for damage evaluation of fillet-welded joints. <i>International Journal of Fatigue</i> , 2020, 136, 105599.	2.8	8
70	Structural and seismic vulnerability assessment of the Santa Maria Assunta Cathedral in Catanzaro (Italy): classical and advanced approaches for the analysis of local and global failure mechanisms. <i>Frattura Ed Integrita Strutturale</i> , 2022, 16, 464-487.	0.5	8
71	Energy release rate and mode partition for interlaminar crack in circular laminated beams. <i>International Journal of Solids and Structures</i> , 2006, 43, 1201-1223.	1.3	7
72	Validation of Homogenization Techniques for Locally Periodic Fiber-Reinforced Composites with Interfacial Debonding. <i>Mechanics of Advanced Materials and Structures</i> , 2013, 20, 638-651.	1.5	7

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73	A coupled ALE-Cohesive formulation for layered structural systems. <i>Procedia Structural Integrity</i> , 2017, 3, 362-369.	0.3	6
74	An investigation on the structural integrity of network arch bridges subjected to cable loss under the action of moving loads. <i>Procedia Structural Integrity</i> , 2020, 25, 305-315.	0.3	6
75	Investigation of Microscopic Instabilities in Fiber-Reinforced Composite Materials by Using Multiscale Modeling Strategies. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 571-582.	0.3	6
76	An Inter-element Fracture Approach for the Analysis of Concrete Cover Separation Failure in FRP-Reinforced RC Beams. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 537-549.	0.3	6
77	A dynamic model to predict crack propagation in z-pinned composite structures. <i>Annals of Solid and Structural Mechanics</i> , 2011, 2, 143-157.	0.5	5
78	A coupled ALE-Cohesive formulation for interfacial debonding propagation in sandwich structures. <i>Procedia Structural Integrity</i> , 2018, 9, 92-100.	0.3	5
79	Structural integrity of tied arch bridges affected by instability phenomena. <i>Procedia Structural Integrity</i> , 2019, 18, 891-902.	0.3	5
80	Crack growth propagation modeling based on moving mesh method and interaction integral approach. <i>Procedia Structural Integrity</i> , 2020, 28, 1981-1991.	0.3	5
81	Numerical modeling based on moving mesh method to simulate fast crack propagation. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 410-422.	0.5	4
82	A 3D nonlinear static analysis of long-span cable stayed bridges. <i>Annals of Solid and Structural Mechanics</i> , 2013, 5, 15-34.	0.5	3
83	An Experimental and Numerical Study to Evaluate the Crack Path Under Mixed Mode Loading on PVC Foams. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 378-388.	0.3	3
84	A numerical model based on ALE formulation to predict fast crack growth in composite structures. <i>Procedia Structural Integrity</i> , 2019, 18, 422-431.	0.3	2
85	Edge Debonding Prediction in Beams Strengthened by FRP Composite Plates. <i>Springer Series in Solid and Structural Mechanics</i> , 2017, , 105-124.	0.2	2
86	On the combination of Moving Mesh technique and M-integral method for predicting crack propagation mechanisms in Functionally Graded Materials. <i>Procedia Structural Integrity</i> , 2022, 39, 649-662.	0.3	2
87	An efficient model of mixed-mode delamination in laminated composites including bridging mechanisms. <i>Simulation Modelling Practice and Theory</i> , 2003, 11, 465-481.	2.2	1
88	Prediction of Microscopic Interface Crack Onset in Fiber-Reinforced Composites by Using a Multi-Scale Homogenization Procedure. <i>Advanced Materials Research</i> , 0, 875-877, 1032-1036.	0.3	1
89	Finite element analysis of concrete cracking: a comparative study between a diffuse interface model and an embedded crack model. <i>Procedia Structural Integrity</i> , 2021, 33, 954-965.	0.3	1
90	Crack propagation analysis in masonry structures via an inter-element cohesive fracture approach: assessment of mesh dependency issues. <i>Procedia Structural Integrity</i> , 2022, 39, 638-648.	0.3	1

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91	Cracking analysis in Ultra-High-Performance Fiber-Reinforced Concrete with embedded nanoparticles via a diffuse interface approach. <i>Procedia Structural Integrity</i> , 2022, 39, 688-699.	0.3	1
92	Debonding failure analysis of FRP-plated RC beams via an inter-element cohesive fracture approach. <i>Procedia Structural Integrity</i> , 2022, 39, 677-687.	0.3	1
93	A hybrid cohesive/volumetric multiscale finite element model for the failure analysis of fiber-reinforced composite structures. <i>Procedia Structural Integrity</i> , 2022, 41, 439-451.	0.3	1
94	Strategies to improve the structural integrity of tied-arch bridges affected by instability phenomena. <i>Procedia Structural Integrity</i> , 2020, 25, 454-464.	0.3	0
95	Macroscopic Stability Analysis in Periodic Composite Solids. <i>Advanced Structured Materials</i> , 2010, , 213-242.	0.3	0
96	Dynamic Crack Propagation in Composite Structures. <i>Advanced Structured Materials</i> , 2010, , 57-81.	0.3	0
97	Influence of the Incremental Constitutive Law on Tensile Instability Phenomena. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2012, , 343-362.	2.0	0
98	A Concurrent Multiscale Model for Crack Propagation Analysis in Composite Materials. <i>Springer Series in Solid and Structural Mechanics</i> , 2017, , 125-142.	0.2	0
99	La narraci3n de los datos estad3sticos como subestimaci3n de la v3ctima oriental en la geograf3a nominal. <i>Relaciones Internacionales</i> , 2019, , 21-36.	0.2	0
100	Stability analysis at the micro- and macro-scales in periodic bioinspired composites. <i>Procedia Structural Integrity</i> , 2021, 33, 1103-1114.	0.3	0
101	An effective modeling approach based on the ALE and M-integral for simulating crack propagation under thermo-mechanical loadings. <i>Procedia Structural Integrity</i> , 2021, 33, 858-870.	0.3	0
102	Numerical prediction of transverse cracking and delamination in fiber-reinforced laminates by using a two-scale cohesive finite element approach. <i>Procedia Structural Integrity</i> , 2021, 33, 1042-1054.	0.3	0
103	Cracking behavior analysis of reinforced concrete structures by using a cohesive fracture model. <i>Procedia Structural Integrity</i> , 2022, 41, 598-609.	0.3	0
104	Simulation of dynamic fracture in quasi-brittle materials using a finite element modeling approach enhanced by moving mesh technique and interaction integral method. <i>Procedia Structural Integrity</i> , 2022, 41, 576-588.	0.3	0
105	A Cohesive fracture approach for the nonlinear analysis of load-induced degradation of vibration characteristics in RC beams. <i>Procedia Structural Integrity</i> , 2022, 41, 618-630.	0.3	0