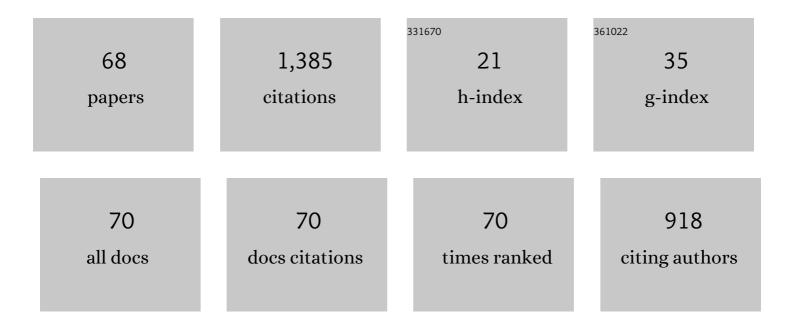
Marco Gigliotti

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mechanisms generating residual stresses and distortion during manufacture of polymer–matrix composite structures. Composites Part A: Applied Science and Manufacturing, 2006, 37, 522-529.	7.6	260
2	Development of curvature during the cure of AS4/8552 [0/90] unsymmetric composite plates. Composites Science and Technology, 2003, 63, 187-197.	7.8	102
3	Loss of bifurcation and multiple shapes of thin [0/90] unsymmetric composite plates subject to thermal stress. Composites Science and Technology, 2004, 64, 109-128.	7.8	98
4	Experimental characterization of thermo-oxidation-induced shrinkage and damage in polymer–matrix composites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 577-586.	7.6	48
5	Experimental study to assess the effect of carbon nanotube addition on the through-thickness electrical conductivity of CFRP laminates for aircraft applications. Composites Part B: Engineering, 2015, 76, 31-37.	12.0	47
6	Local shrinkage and stress induced by thermo-oxidation in composite materials at high temperatures. Journal of the Mechanics and Physics of Solids, 2011, 59, 696-712.	4.8	43
7	Effect of thermo-oxidation on the failure properties of an epoxy resin. Polymer Testing, 2016, 52, 209-217.	4.8	42
8	Transient and cyclical hygrothermoelastic stress in laminated composite plates: Modelling and experimental assessment. Mechanics of Materials, 2007, 39, 729-745.	3.2	41
9	X-ray micro-computed-tomography characterization of cracks induced by thermal cycling in non-crimp 3D orthogonal woven composite materials with porosity. Composites Part A: Applied Science and Manufacturing, 2018, 112, 100-110.	7.6	39
10	Thermo-oxidation behaviour of composite materials at high temperatures: A review of research activities carried out within the COMEDI program. Polymer Degradation and Stability, 2010, 95, 965-974.	5.8	37
11	The effect of thermo-oxidation on matrix cracking of cross-ply [0/90]S composite laminates. Composites Part A: Applied Science and Manufacturing, 2013, 44, 114-121.	7.6	33
12	The effect of thermo-oxidation on the mechanical behaviour of polymer epoxy materials. Polymer Testing, 2013, 32, 1020-1028.	4.8	31
13	Effect of Thermo-oxidation on the local mechanical behaviour of epoxy polymer materials for high temperature applications. Mechanics of Materials, 2016, 101, 118-135.	3.2	31
14	On the maximum curvatures of 0/90 plates under thermal stress. Composite Structures, 2005, 68, 177-184.	5.8	28
15	Assessment of approximate models to evaluate transient and cyclical hygrothermoelastic stress in composite plates. International Journal of Solids and Structures, 2007, 44, 733-759.	2.7	28
16	Predicting loss of bifurcation behaviour of 0/90 unsymmetric composite plates subjected to environmental loads. Composite Structures, 2012, 94, 2793-2808.	5.8	28
17	Evidence of thermo-oxidation phenomena occurring during hygrothermal aging of thermosetting resins for RTM composite applications. Composites Part A: Applied Science and Manufacturing, 2014, 66, 175-182.	7.6	26
18	Assessment of thermo-oxidative induced chemical strain by inverse analysis of shrinkage profiles in unidirectional composites. Composite Structures, 2016, 157, 320-336.	5.8	26

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#	Article	IF	CITATIONS
19	Electro-mechanical fatigue of CFRP laminates for aircraft applications. Composite Structures, 2015, 127, 436-449.	5.8	25
20	Chemo-mechanics couplings in polymer matrix materials exposed to thermo-oxidative environments. Comptes Rendus - Mecanique, 2010, 338, 164-175.	2.1	24
21	Thermo-oxidative induced shrinkage in Organic Matrix Composites for High Temperature Applications: Effect of fibre arrangement and oxygen pressure. Composite Structures, 2016, 146, 176-186.	5.8	21
22	Assessment of chemo-mechanical couplings in polymer matrix materials exposed to thermo-oxidative environments at high temperatures and under tensile loadings. Mechanics of Materials, 2011, 43, 431-443.	3.2	20
23	The effect of a thermo-oxidative environment on the behaviour of multistable [0/90] unsymmetric composite plates. Composite Structures, 2013, 106, 863-872.	5.8	19
24	A coupled experimental/numerical approach for the modelling of the local mechanical behaviour of epoxy polymer materials. Journal of the Mechanics and Physics of Solids, 2014, 67, 129-151.	4.8	17
25	Analysis of moisture diffusion induced stress in carbon/epoxy 3D textile composite materials with voids by µ-CT based Finite Element Models. Composite Structures, 2019, 212, 561-570.	5.8	17
26	Computed-tomography based modeling and simulation of moisture diffusion and induced swelling in textile composite materials. International Journal of Solids and Structures, 2018, 154, 88-96.	2.7	16
27	A Novel Numerical Delamination Growth Initiation Approach for the Preliminary Design of Damage Tolerant Composite Structures. Journal of Composite Materials, 2007, 41, 1939-1960.	2.4	14
28	A novel methodology for the rapid identification of the water diffusion coefficients of composite materials. Composites Part A: Applied Science and Manufacturing, 2015, 68, 212-218.	7.6	13
29	Thermo-oxidation behaviour of organic matrix composite materials at high temperatures. Advances in Aircraft and Spacecraft Science, 2016, 3, 171-195.	0.5	13
30	Internal Stresses in Composite Laminates Due to Cyclical Hygrothermal Loading. AIAA Journal, 2004, 42, 2600-2605.	2.6	11
31	Identification of the orthotropic diffusion properties of RTM textile composites for aircraft applications. Composite Structures, 2016, 137, 33-43.	5.8	11
32	High temperature fatigue of carbon/polyimide 8-harness satin woven composites. Part I: Digital Image Correlation and Micro-Computed Tomography damage characterization. Composite Structures, 2020, 244, 112255.	5.8	11
33	Thermostructural Design of a Flying Winglet Experimental Structure for the EXPERT Re-entry Test. Journal of Heat Transfer, 2009, 131, .	2.1	10
34	Modeling the pressure dependent solubility in a thermoset resin for simulating pressure accelerated thermo-oxidation tests. Mechanics of Materials, 2015, 84, 44-54.	3.2	10
35	Decoupling of water and oxygen diffusion phenomena in order to prove the occurrence of thermo-oxidation during hygrothermal aging of thermosetting resins for RTM composite applications. Journal of Materials Science, 2018, 53, 11855-11872.	3.7	10
36	A novel protocol for rapid identification of anisotropic diffusion properties of polymer matrix composite materials with complex texture. Composite Structures, 2018, 201, 1088-1096.	5.8	10

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37	Characterization and modelling of the PEKK thermomechanical and creep behavior above the glass transition temperature. Mechanics of Materials, 2022, 166, 104189.	3.2	10
38	Weight optimisation of damage resistant composite panels with a posteriori cost evaluation. Composite Structures, 2009, 88, 312-322.	5.8	9
39	The deformed shape of isotropic and orthotropic plates subjected to bending moments distributed along the edges. Meccanica, 2014, 49, 1367-1384.	2.0	8
40	Effect of carbon nanotubes on the thermoelectric properties of CFRP laminate for aircraft applications. Journal of Reinforced Plastics and Composites, 2015, 34, 173-184.	3.1	8
41	In-situ multi-axial testing of three-dimensional (3D) woven organic matrix composites for aeroengine applications. Composite Structures, 2021, 273, 114259.	5.8	7
42	Modelling and Experimental Characterisation of Hygrothermoelastic Stress in Polymer Matrix Composites. Macromolecular Symposia, 2007, 247, 199-210.	0.7	6
43	The employment of 0/90 unsymmetric samples for the characterisation of the thermo-oxidation behaviour of composite materials at high temperatures. Composite Structures, 2011, 93, 2109-2119.	5.8	6
44	Image-based modeling of moisture-induced swelling and stress in 2D textile composite materials using a global-local approach. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 1505-1519.	2.1	6
45	Damage characterization during high temperature fatigue of off-axis woven organic matrix composites for aircraft applications. IOP Conference Series: Materials Science and Engineering, 0, 406, 012055.	0.6	6
46	The effect of the environment on high temperature fatigue of cross-ply C/epoxy laminated composites. Composite Structures, 2018, 202, 924-934.	5.8	6
47	Cyclic indentation of polymers: Instantaneous elastic modulus from reloading, energy analysis, and cyclic creep. Journal of Materials Research, 2019, 34, 3688-3698.	2.6	6
48	Coupling between thermal ageing/degradation and creep behavior of PEKK and C/PEKK composites above the glass transition temperature. Composites Part A: Applied Science and Manufacturing, 2022, 153, 106717.	7.6	6
49	Residual thermal strains and stresses in organic matrix composite materials. Journal of Thermal Stresses, 2016, 39, 667-703.	2.0	5
50	In-situ characterization of the local mechanical behaviour of polymer matrix in 3D carbon fiber composites by cyclic indentation test. Composite Structures, 2020, 244, 112268.	5.8	5
51	High temperature fatigue of carbon/polyimide 8-harness satin woven composites. Part II: Environmental effects. Composite Structures, 2020, 244, 112251.	5.8	5
52	A variable kinematic one-dimensional model for the hygro-mechanical analysis of composite materials. Composite Structures, 2020, 242, 112089.	5.8	5
53	Development of experimental and modelling tools for the characterisation of the thermo-electro-mechanical behaviour of composite materials for aircraft applications. Mecanique Et Industries, 2011, 12, 87-101.	0.2	4
54	On cyclical hygrothermal fields in laminated plates. Journal of Composite Materials, 2013, 47, 231-242.	2.4	3

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55	Numerical method to assess the stress state and gradients induced by thermo-oxidation in adhesively bonded joints for aircraft engine applications. International Journal of Adhesion and Adhesives, 2022, 113, 103063.	2.9	3
56	Maximum curvatures of 0/90 plates under thermal stress: Modelling and experimental validation. Composites Science and Technology, 2009, 69, 93-96.	7.8	2
57	X-ray μ4CT based assessment of thermal cycling induced cracks in non-crimp 3D orthogonal woven composite materials with porosity. IOP Conference Series: Materials Science and Engineering, 0, 406, 012008.	0.6	2
58	Transition Saddle-Cylinder Shape of Thin Unsymmetric [0/90] Square Plates under Hygrothermal Loads: Fringe Projection Method and Variational Approach. Applied Mechanics and Materials, 2006, 3-4, 217-222.	0.2	1
59	Multi-instrument multi-scale experimental damage mechanics for fibre reinforced composites. IOP Conference Series: Materials Science and Engineering, 0, 406, 012057.	0.6	1
60	ldentification of moisture affected mechanical properties of polymer matrix materials by the employment of samples with moisture gradients. Mechanics of Advanced Materials and Structures, 2020, 27, 1994-2012.	2.6	1
61	Identification of Diffusion Properties of Polymer-Matrix Composite Materials with Complex Texture. Journal of Optimization Theory and Applications, 2020, 184, 188-209.	1.5	1
62	Gradients of cyclic indentation mechanical properties in PR520 epoxy and its 3D carbon fiber composite induced by aging at 150°C. Polymer Degradation and Stability, 2021, 193, 109720.	5.8	1
63	Experimental characterization of thermo-oxidation induced shrinkage and damage onset in polymer matrix composites at high temperature. EPJ Web of Conferences, 2010, 6, 20004.	0.3	0
64	Some Examples of "Multi-Physical―Fatigue of Organic Matrix Composites for Aircraft Applications. Applied Mechanics and Materials, 2016, 828, 79-96.	0.2	0
65	Hygrothermoelastic Stress in Organic Matrix Composite Materials. , 2018, , 1-13.		Ο
66	Thermodynamics of Irreversible Processes with Internal Variables: A Tool for Modeling Aging and Degradation Phenomena in Composite Materials for Aircraft Applications. Aerotecnica Missili & Spazio, 2019, 98, 31-44.	0.9	0
67	Fatigue multi-physique de matériaux composites à matrice organique stratifiés croisés [0/90]spour applications aéronautiques. Materiaux Et Techniques, 2016, 104, 406.	0.9	0
68	Hygrothermoelastic Stress in Organic Matrix Composite Materials. , 2020, , 1248-1261.		0