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List of Publications by Year in descending order

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331670 361022 1,385 68 21 35 h-index citations g-index papers 70 70 70 918 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	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
2	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
3	Characterization and modelling of the PEKK thermomechanical and creep behavior above the glass transition temperature. Mechanics of Materials, 2022, 166, 104189.	3.2	10
4	In-situ multi-axial testing of three-dimensional (3D) woven organic matrix composites for aeroengine applications. Composite Structures, 2021, 273, 114259.	5.8	7
5	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
6	Identification 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
7	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
8	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
9	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
10	High temperature fatigue of carbon/polyimide 8-harness satin woven composites. Part II: Environmental effects. Composite Structures, 2020, 244, 112251.	5.8	5
11	A variable kinematic one-dimensional model for the hygro-mechanical analysis of composite materials. Composite Structures, 2020, 242, 112089.	5.8	5
12	Hygrothermoelastic Stress in Organic Matrix Composite Materials., 2020,, 1248-1261.		0
13	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
14	Analysis of moisture diffusion induced stress in carbon/epoxy 3D textile composite materials with voids by $\hat{A}\mu$ -CT based Finite Element Models. Composite Structures, 2019, 212, 561-570.	5.8	17
15	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	O
16	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
17	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
18	Hygrothermoelastic Stress in Organic Matrix Composite Materials., 2018,, 1-13.		0

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19	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
20	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
21	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
22	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
23	Effect of thermo-oxidation on the failure properties of an epoxy resin. Polymer Testing, 2016, 52, 209-217.	4.8	42
24	Residual thermal strains and stresses in organic matrix composite materials. Journal of Thermal Stresses, 2016, 39, 667-703.	2.0	5
25	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
26	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
27	Identification of the orthotropic diffusion properties of RTM textile composites for aircraft applications. Composite Structures, 2016, 137, 33-43.	5.8	11
28	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
29	Some Examples of "Multi-Physical―Fatigue of Organic Matrix Composites for Aircraft Applications. Applied Mechanics and Materials, 2016, 828, 79-96.	0.2	0
30	Thermo-oxidation behaviour of organic matrix composite materials at high temperatures. Advances in Aircraft and Spacecraft Science, 2016, 3, 171-195.	0.5	13
31	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
32	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
33	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
34	Electro-mechanical fatigue of CFRP laminates for aircraft applications. Composite Structures, 2015, 127, 436-449.	5.8	25
35	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
36	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

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37	The deformed shape of isotropic and orthotropic plates subjected to bending moments distributed along the edges. Meccanica, 2014, 49, 1367-1384.	2.0	8
38	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
39	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
40	The effect of thermo-oxidation on the mechanical behaviour of polymer epoxy materials. Polymer Testing, 2013, 32, 1020-1028.	4.8	31
41	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
42	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
43	On cyclical hygrothermal fields in laminated plates. Journal of Composite Materials, 2013, 47, 231-242.	2.4	3
44	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
45	Predicting loss of bifurcation behaviour of 0/90 unsymmetric composite plates subjected to environmental loads. Composite Structures, 2012, 94, 2793-2808.	5. 8	28
46	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
47	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
48	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
49	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
50	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
51	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
52	Chemo-mechanics couplings in polymer matrix materials exposed to thermo-oxidative environments. Comptes Rendus - Mecanique, 2010, 338, 164-175.	2.1	24
53	Thermostructural Design of a Flying Winglet Experimental Structure for the EXPERT Re-entry Test. Journal of Heat Transfer, 2009, 131, .	2.1	10
54	Maximum curvatures of 0/90 plates under thermal stress: Modelling and experimental validation. Composites Science and Technology, 2009, 69, 93-96.	7.8	2

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55	Weight optimisation of damage resistant composite panels with a posteriori cost evaluation. Composite Structures, 2009, 88, 312-322.	5.8	9
56	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
57	Modelling and Experimental Characterisation of Hygrothermoelastic Stress in Polymer Matrix Composites. Macromolecular Symposia, 2007, 247, 199-210.	0.7	6
58	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
59	Transient and cyclical hygrothermoelastic stress in laminated composite plates: Modelling and experimental assessment. Mechanics of Materials, 2007, 39, 729-745.	3.2	41
60	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
61	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
62	On the maximum curvatures of 0/90 plates under thermal stress. Composite Structures, 2005, 68, 177-184.	5.8	28
63	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
64	Internal Stresses in Composite Laminates Due to Cyclical Hygrothermal Loading. AIAA Journal, 2004, 42, 2600-2605.	2.6	11
65	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
66	X-ray 14 CT 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
67	Multi-instrument multi-scale experimental damage mechanics for fibre reinforced composites. IOP Conference Series: Materials Science and Engineering, 0, 406, 012057.	0.6	1
68	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