

**List of publications with 2016 Impact Factor and number of citations excluding self-citations from all authors according to Scopus (April 2018)**

**Papers on international journals (28):**

- [1] Carraro P.A., Quaresimin M. (2012). Damage mechanics in G/E tubes under tension-torsion cyclic loading, *Key Engineering Materials*, vol. 488-489, p. 783-786
- [2] Carraro P.A., Meneghetti G., Quaresimin M., Ricotta M. (2013). Crack propagation analysis in composite bonded joints under mixed-mode (I+II) static and fatigue loading: a damage-based model. *Journal Of Adhesion Science And Technology* 27, 1393-1406, IF 1.073, citations: 3
- [3] Carraro P.A., Meneghetti G., Quaresimin M., Ricotta M. (2013). Crack propagation analysis in composite bonded joints under mixed-mode (I+II) static and fatigue loading: experimental investigation and phenomenological modelling. *Journal of Adhesion Science and Technology* 27, 1179-1196, IF 1.073, citations: 4
- [4] Quaresimin M., Carraro P.A. (2013). On the investigation of the biaxial fatigue behaviour of unidirectional composites. *Composites. Part B: Engineering* 54, 200-208, IF 4.727, citations: 13
- [5] Quaresimin M., Carraro P.A. (2014) Damage initiation and evolution in glass/epoxy tubes subjected to combined tension-torsion fatigue loading. *International Journal of Fatigue*; 63: 25-35, IF 2.899, citations: 10
- [6] Carraro P.A., Quaresimin M. (2014). Modelling the fibre-matrix debonding under biaxial loading, *Composites Part A: Applied Science and Manufacturing* 61, 33–42, IF 4.075, citations: 6
- [7] Quaresimin M., Carraro P.A, Pilgaard Mikkelsen L., Lucato N., Vivian L., Brøndsted P., Sørensen B.F., Varna J., Talreja R. (2014). Damage evolution under internal and external multiaxial cyclic stress state: a comparative analysis, *Composites Part B: Engineering* 61, 282–290, IF 4.727, citations: 17
- [8] Carraro P.A., Quaresimin M. (2014). A damage based model for crack initiation in unidirectional composites under multiaxial cyclic loading, *Composites Science and Technology* 99, 154-163, IF 4.873, citations: 13
- [9] Zappalorto M., Carraro P.A. (2014). Stress fields at sharp angular corners in thick anisotropic composite plates, *Composite Structures* 117, 346–353, IF 3.858, citations: 3

- [10] Zappalorto M., Carraro P.A. (2015). An engineering formula for the stress concentration factor of orthotropic composite plates, *Composites Part B: Engineering* 68, 51–58, IF 4.727, citations: 7
- [11] Carraro P.A., Maragoni L., Quaresimin M. (2015). Influence of manufacturing-induced defects on damage initiation and propagation in carbon/epoxy NCF laminates, *Advanced Manufacturing: Polymer and Composite Science* 1(1), 44-53
- [12] Zappalorto M., Carraro P.A. (2015). Stress distributions for blunt cracks and radiused slits in anisotropic plates under in-plane loadings. *International Journal of Solids and Structures* 56-57, 136-141, IF 2.76, citations: 3
- [13] Zappalorto M., Carraro P.A., Quaresimin M. (2015). Analytical solution for the three-dimensional stress fields in anisotropic composite bimaterial corners. *Composite Structures* 122, 127-138, IF 3.858, citations: 1
- [14] Carraro P.A., Quaresimin M. (2015). A stiffness degradation model for cracked multidirectional laminates with cracks in multiple layers, *International Journal of Solids and Structures* 58, 34–51, IF 2.76, citations: 11
- [15] Quaresimin M., Carraro P.A., Maragoni M. (2015). Influence of load ratio on the biaxial fatigue behaviour and damage evolution in glass/epoxy tubes under tension–torsion loading, *Composites Part A: Applied Science and Manufacturing* 78, 294–302, IF 4.075, citations: 6
- [16] Carraro P.A., Zappalorto M., Quaresimin M. (2015). A comprehensive description of interfibre failure in fibre reinforced composites, *Theoretical and Applied Fracture Mechanics* 79, 91–97, IF 2.659, citations: 3
- [17] Carraro P.A., Zappalorto M., Quaresimin M. (2016). Health monitoring of cross-ply laminates: Modelling the correlation between damage evolution and electrical resistance change, *Composites Part A: Applied Science and Manufacturing* 82, 151-158, IF 4.075, citations: 1
- [18] Quaresimin M., Carraro P.A., Maragoni L. (2016). Early stage damage in off-axis plies under fatigue loading, *Composites Science and Technology* 128, 147-154, IF 4.873, citations: 7
- [19] Maragoni L., Carraro P.A., Quaresimin M. (2016). Effect of voids on the crack formation in a [45/-45/0]<sub>s</sub> laminate under cyclic axial tension, *Composites: Part A* 91, 493–500, IF 4.075, citations: 2
- [20] Maragoni L., Carraro P.A., Peron M., Quaresimin M. (2017). Fatigue behaviour of glass/epoxy laminates in the presence of voids, *International Journal of Fatigue* 95, 18–28, IF 2.899, citations: 3

- [21] Zappalorto M., Carraro P.A. (2017). Two-dimensional stress distributions in tensioned orthotropic plates weakened by blunt V-shaped notches, *Fatigue Fract Engng Mater Struct* 40, 804–819, IF 2.335, citations: 0
- [22] Carraro P.A., Novello E., Quaresimin M., Zappalorto M. (2017). Delamination onset in symmetric cross-ply laminates under static loads: Theory, numerics and experiments, *Composite Structures* 176, 420–432, IF 3.858, citations: 0
- [23] Carraro P.A., Maragoni L., Quaresimin M. (2017). Prediction of the crack density evolution in multidirectional laminates under fatigue loadings, *Composites Science and Technology* 145, 24-39, IF 4.873, citations: 2
- [24] Zappalorto M., Panozzo F., Carraro P.A., Quaresimin M., (2017). Electrical response of a laminate with a delamination: modelling and experiments, *Composites Science and Technology* 143, 31-45, IF 4.873, citations: 0
- [25] Panozzo F, Zappalorto M., Carraro P.A., Quaresimin M. (2018). Electrical resistance change vs damage state in cracked symmetric laminates: A closed form solution, *Composite Structures* 184, 1081–1091, IF 3.858, citations: 0
- [26] J.A. Glud, P.A. Carraro, M. Quaresimin, J.M. Dulieu-Barton, O.T. Thomsen, L.C.T. Overgaard (2018). A damage-based model for mixed-mode crack propagation in composite laminates, *Composites Part A* 107, 421–431, IF 4.075, citations: 0
- [27] Zappalorto M., Carraro P.A. (2018). Neuber fictitious notch rounding approach reformulated for orthotropic materials, *Engineering Fracture Mechanics* 191, 441–445, IF 2.151, citations: 0
- [28] Carraro P.A., Quaresimin M. (2018). Fatigue damage and stiffness evolution in composite laminates: a damage-based framework, *Procedia Engineering* 213, 17–24

### **Papers on national journals (3):**

- [29] Carraro P.A., Quaresimin M., Meneghetti G., Ricotta M. (2011). Comportamento a fatica in modo misto di giunzioni incollate in materiale composito, *Via Mare - By Sea* 11, 11-16
- [30] Quaresimin M., Carraro P.A., Maragoni L. (2014). Influenza dei vuoti sulle proprietà meccaniche di compositi avanzati: verso l'ottimizzazione del rapporto prestazioni-costi di produzione, *Compositi Magazine* 32, 7-12
- [31] Quaresimin M., Zappalorto M., Carraro P.A. (2015). Strategie innovative per la progettazione a fatica di parti strutturali in composito, *Compositi Magazine* 35, 38-43

### **Book chapters (3):**

- [32] Quaresimin M., Carraro P.A, Meneghetti G., Ricotta M. (2015). Mixed mode fatigue of bonded joints in composites: experiments and modelling, in *Structural Integrity and Durability of Advanced Composites - Innovative Modelling Methods and Intelligent Design*, P. Beaumont, C. Soutis, A. Hodzic, Eds, Elsevier 2015, 271-292, ISBN 9780081001370
- [33] Quaresimin M., Carraro P.A (2015). Modelling the crack initiation in UD laminates under multiaxial fatigue loading, in *Fatigue of Textile Composites*, V.Carvelli, S. Lomov, Eds, Woodhead-Elsevier, 2015, 127-145, ISBN 9781782422815
- [34] Quaresimin M., Carraro P.A, Damage mechanics of unidirectional composites under multiaxial fatigue, in *Modelling Damage, Fatigue and Failure of Composite Materials*, edited by R.Talreja and J.Varna, Eds, Woodhead-Elsevier, 2016, 61-83, ISBN: 978-1-78242-286-0

#### **Papers on international conferences (37):**

- [35] Carraro P.A., Quaresimin M., Salviato M., Zappalorto M. (2010). Interlaminar properties of clay-modified epoxy-glass reinforced laminates. In: *proceedings of ECCM 14*. Budapest, Hungary, 7-10 june 2010
- [36] Carraro P.A., Meneghetti G., Quaresimin M., Ricotta M. (2010). Fatigue behaviour of composite bonded joints under mixed-mode loading. In: *proceedings of ECCM 14*. Budapest, Hungary, 7-10 june 2010
- [37] Carraro P.A., Quaresimin M. (2011). Investigation of damage mechanics in [0T/90U,3/0T] glass / epoxy tubes . In: *Proceedings of DFC11/SI5*. Cambridge, 12-15 April 2011
- [38] Carraro P.A., Quaresimin M. (2011). Fatigue damage evolution in [0F/90U,3/0F] composite tubes under multiaxial loading. In: *Proceedings of 18th International Conference on Composite Materials*. Jeju Island, Korea, 21-25 August 2011
- [39] Carraro P.A., Maragoni L., Quaresimin M. (2012). Influence of the stress ratio on the multiaxial fatigue behaviour of glass/epoxy tubes. In: *Proceedings of 15th European Conference on Composite Materials*. Venezia, 24-28 June 2012
- [40] Carraro P.A., Quaresimin M. (2012). A model for the crack initiation process in composite materials under multiaxial fatigue loading. In: *Proceedings of 15th European Conference on Composite Materials ECCM15*. Venezia, 24-28 June 2012
- [41] Carraro P.A., Quaresimin M. (2013). Prediction of fatigue damage evolution in multidirectional laminates. In: *Proceedings of 19th International Conference on Composite Materials ICCM19*. Montreal (Canada), 28 July-02 August 2013

- [42] Carraro P.A., Meneghetti G., Quaresimin M., Ricotta M. (2013). Mixed mode (I+II) fatigue loading of composite bonded joints: experimental investigation and modelling. In: Proceedings of 13th Japanese-European Symposium on Composite Materials. Nantes, France, 4-6 Novembre 2013
- [43] Quaresimin M., Carraro P.A. (2013). Biaxial fatigue testing of glass/epoxy composite tubes . In: Proceedings of Comptest 2013 . Aalborg, Denmark, 22-24 April 2013
- [44] Carraro P.A., Quaresimin M. (2013). A multiaxial criterion for the initiation of off-axis cracks in multidirectional laminates under fatigue loading. In: Proceedings of DFC12/SI6. Cambridge, UK, 8-11 April 2013
- [45] Carraro P.A., Quaresimin M. (2014). A model for the prediction of fibre-matrix debond initiation under multiaxial static load, In: Proceedings of 16th European Conference on Composite Materials. Sevilla, Spain, 22-26 June 2014
- [46] Carraro P.A., Quaresimin M. (2014). Prediction of crack density evolution for multidirectional laminates under fatigue loading, In: Proceedings of 16th European Conference on Composite Materials. Sevilla, Spain, 22-26 June 2014
- [47] Carraro P.A., Maragoni L., Quaresimin M. (2014). A tool for the simulation of fatigue damage evolution in multidirectional laminates, In: Proceedings of 16th European Conference on Composite Materials. Sevilla, Spain, 22-26 June 2014
- [48] Quaresimin M., Carraro P.A. (2014). Observation of the microscopic damage evolution in unidirectional off-axis laminae under fatigue loading, In: Proceedings of 16th International Conference on Experimental Mechanics, Cambridge, UK, April 7-11 2014
- [49] Carraro P.A., Quaresimin M. (2014). Damage mechanics of unidirectional glass/epoxy tubes and laminates under multiaxial cyclic loading, In: Proceedings of 2nd Brazilian Conference on Composite Materials, São José dos Campos, Brasil, September 15-18 2014
- [50] Carraro P.A., Quaresimin M. (2014). A criterion for crack initiation in unidirectional glass/epoxy composites under multiaxial cyclic loading, In: Proceedings of 2nd Brazilian Conference on Composite Materials, São José dos Campos, Brasil, September 15-18 2014
- [51] Quaresimin M., Carraro P.A. (2014). A model for the prediction of the crack density evolution in multidirectional laminates under fatigue loading, In: Proceedings of 22nd International Conference on Composites or Nano Engineering, Malta, July 13-19 2014
- [52] Carraro P.A., Quaresimin M. (2014). A damage-based approach to the fatigue of composites, In: Proceedings of The First Multi-Lateral Workshop on “Fracture and Structural Integrity related Issues” Catania, Italy, September 15-17, 2014
- [53] Carraro P.A., Quaresimin M. (2015). A damage-based criterion for mixed mode crack propagation in composite bonded joints under fatigue loading, In: Proceeding of 6th International Conference on Fatigue of Composites, Paris, March 25-27, 2015

- [54] Quaresimin M., Carraro P.A. (2015). A model for the prediction of the crack density evolution in multidirectional laminates under fatigue loading, In: Proceeding of 6th International Conference on Fatigue of Composites, Paris, March 25-27, 2015
- [55] Quaresimin M., Carraro P.A., Maragoni L. (2015). Micro-scale damage initiation and evolution in off-axis plies under fatigue loading, In: Proceeding of 7th International Conference on Composites Testing and Model Identification (CompTest 2015), Madrid, April 8-10, 2015.
- [56] Carraro P.A., Maragoni L., Quaresimin M. (2015). Influence of manufacturing-induced defects on the intra- and inter-laminar properties of carbon/epoxy NCF laminates, In: Proceeding of 20th International Conference on Composite Materials, Copenhagen, 19-24th July 2015.
- [57] M. Zappalorto, P.A. Carraro, F. Panozzo, M. Quaresimin (2015). Self sensing glass/epoxy cross-ply laminates for damage monitoring: an analytical model. In: Proceeding of 20th International Conference on Composite Materials, Copenhagen, 19-24th July 2015.
- [58] Maragoni L., Carraro P.A., Quaresimin M. (2015). Fatigue behaviour of composite laminates in the presence of micro-sized voids. In: Proceeding of 20th International Conference on Composite Materials, Copenhagen, 19-24th July 2015.
- [59] Quaresimin M., Maragoni L., Carraro P.A. (2015). Observations of microscopic damage evolution in off-axis plies under fatigue loading. In: Proceeding of 20th International Conference on Composite Materials, Copenhagen, 19-24th July 2015.
- [60] P.A. Carraro, F. Panozzo, M. Quaresimin M. Zappalorto (2015). Modelling the damage monitoring capability of conductive glass/epoxy laminates. International Workshop on Structural Health Monitoring 2015 (IWSHM 2015), September 1-3, 2015, Stanford University, Stanford, CA - USA.
- [61] Carraro P.A., Quaresimin M., Zappalorto M. (2016). On the inter-fibre failure in fibre reinforced composites, In: Proceedings of 17th European Conference on Composite Materials. Munich, Germany, 26-30 June 2016.
- [62] Maragoni L., Carraro P.A., Quaresimin M. (2016). Influence of micro-voids on the fatigue behaviour of glass/epoxy laminates, In: Proceedings of 17th European Conference on Composite Materials. Munich, Germany, 26-30 June 2016.
- [63] Quaresimin M., Carraro P.A., Novello E. (2016). Modelling initiation and evolution of fatigue damage in composite laminates, In: Proceedings of 17th European Conference on Composite Materials. Munich, Germany, 26-30 June 2016.
- [64] Carraro P.A., Panozzo F., Quaresimin M., Zappalorto M. (2016). Modelling the correlation between the damage state and the electrical resistance change in symmetric laminates, In:

Proceedings of 17th European Conference on Composite Materials. Munich, Germany, 26-30 June 2016.

- [65] Novello E., Carraro P.A., Zappalorto M., Quaresimin M. (2016). Initiation of delaminations induced by transverse cracks in cross-ply laminates under static loadings: Modelling and experiments, In: Proceedings of 17th European Conference on Composite Materials. Munich, Germany, 26-30 June 2016.
- [66] Zappalorto M., Panozzo F., Carraro P.A., Quaresimin M. (2016). Damage monitoring in symmetric laminates: An analytical model for the correlation between the damage state and the electrical resistance, In: Proceedings of 8th European Workshop on Structural Health Monitoring, EWSHM 2016, 5-8 July 2016, Spain, Bilbao
- [67] Quaresimin M., Carraro P.A., Novello E. (2016). Prediction of fatigue damage evolution in composite laminates, In: Proceedings of 17th International Conference on Experimental Mechanics (ICEM 17) July 3-7, 2016, Rhodes, Greece
- [68] Quaresimin M., Carraro P.A., Novello E. (2016). Fatigue damage and failure of composite laminates: a damage-based model, In: Proceedings of American Society for Composites Technical Conference and ASTM Committee D30 Meeting, September 19-22, 2016, Williamsburg, Virginia
- [69] Zappalorto M., Panozzo F., Carraro P.A., Quaresimin M. (2017). An investigation on the electrical response of delaminated laminates, In: Proceedings of 21st International Conference on Composite Materials, Xi'an, China, 20-25th August 2017
- [70] Quaresimin M., Carraro P.A. (2017). Damage initiation and evolution in composite laminates under cyclic loading: a damage-based modelling framework, In: Proceedings of 21st International Conference on Composite Materials, Xi'an, China, 20-25th August 2017
- [71] Carraro P.A., Panozzo F., Quaresimin M., Zappalorto M. (2017). Monitoring of delaminations in conductive composites through electrical methods, In: proceedings of 8th International Conference on Composites Testing and Model Identification, Leuven, Belgium April 5-7 2017

#### **Papers on national conferences (18):**

- [72] Carraro P.A., Meneghetti G., Quaresimin M., Ricotta M. (2010). Comportamento a fatica a modo misto di giunzioni incollate in materiale composito. In: 39° Convegno Nazionale AIAS. Maratea, Italy, 7-10 September
- [73] Carraro P.A., Quaresimin M. (2011). Un modello per il debonding tra fibra e matrice in presenza di sollecitazioni multiassiali. In: 40° Convegno Nazionale AIAS. Palermo, ITALY, 7-9 September 2011

- [74] Carraro P.A., Quaresimin M. (2011). Analisi del danneggiamento in condizioni di carico multiassiale di tubi in vetro-epossidica con diverse sequenze di sovrapposizione. In: 40° Convegno Nazionale AIAS. Palermo, 7-10 september 2011
- [75] Carraro P.A., Meneghetti G., Quaresimin M., Ricotta M. (2012). Un modello per la stima della vita a fatica a modo misto di giunzioni incollate in materiale composito. In: 41° Convegno Nazionale AIAS. Vicenza, September 2012
- [76] Carraro P.A. (2012). Modellazione della rigidezza di laminati multidirezionali in presenza di cricche trasversali. In: 41° Convegno Nazionale AIAS. Vicenza, September 2012
- [77] Carraro P.A., Maragoni L., Quaresimin M. (2012). Influence of the load ratio on the multiaxial fatigue behaviour of glass/epoxy tubes. In: 41° Convegno Nazionale AIAS. Vicenza, September 2012
- [78] Carraro P.A., Quaresimin M. (2013). A model for the crack initiation process in composite materials under multiaxial fatigue loading. In: 42° Convegno Nazionale AIAS. Salerno, September 2013
- [79] Carraro P.A., Quaresimin M. (2014). Previsione dell'evoluzione della densità di cricche in laminati multidirezionali in composito soggetti a carichi ciclici, In: 43° Convegno Nazionale AIAS. Rimini, 9-12 September 2014
- [80] Carraro P.A., Quaresimin M. (2014). Damage evolution under internal and external multiaxial cyclic stress state: a comparative analysis, In: 43° Convegno Nazionale AIAS. Rimini, 9-12 September 2014
- [81] Maragoni L., Carraro P.A., Dallavia A., Quaresimin M. (2014). Influence of voids on the mechanical properties of carbon/epoxy laminates, In: 43° Convegno Nazionale AIAS. Rimini, 9-12 September 2014
- [82] Carraro P.A., Quaresimin M., Zappalorto M., (2015). Un modello analitico per la valutazione del danneggiamento in laminati conduttivi attraverso misure di resistenza elettrica, In: 44° Convegno Nazionale AIAS. Messina, 2-5 September 2015
- [83] Maragoni L., Carraro P.A. (2015). Influenza della porosità sul comportamento a fatica di laminati in composito vetro/epossidica, In: 44° Convegno Nazionale AIAS. Messina, 2-5 September 2015
- [84] Quaresimin M., Carraro P.A., Maragoni L. (2015). Evoluzione del danno su scala microscopica in laminati in composito, In: 44° Convegno Nazionale AIAS. Messina, 2-5 September 2015
- [85] Novello E., Carraro P.A. (2015). Studio dell'innescò di delaminazioni in laminati cross-ply in composito, In: 44° Convegno Nazionale AIAS. Messina, 2-5 September 2015

- [86] Carraro P.A., Pietrogrande R., Panozzo F., Zappalorto M., Quaresimin M. (2016). Un modello analitico per il monitoraggio dell'integrità strutturale di laminati simmetrici con cricche in uno o più strati, In: 45° Convegno Nazionale AIAS. Trieste, 7-9 September 2016
- [87] Novello E., Carraro P.A., Quaresimin M. (2016). Analisi sperimentale e numerica dell'innesco e propagazione di delaminazioni a fatica in laminati cross-ply in vetro/epossidica, In: 45° Convegno Nazionale AIAS. Trieste, 7-9 September 2016
- [88] Modenato G., Carraro P.A., Zappalorto M., Vescovi L., Grippa F., Quaresimin M. (2016). Fatigue life prediction of composite laminates subjected to uniaxial and multiaxial loadings, In: 45° Convegno Nazionale AIAS. Trieste, 7-9 September 2016
- [89] Zappalorto M., Panozzo F., Carraro P.A., Quaresimin M. (2016). Monitoraggio di delaminazioni in componenti in composito attraverso misure elettriche, In: 45° Convegno Nazionale AIAS. Trieste, 7-9 September 2016