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Liste complète des publications

Articles publiés dans des revues indexées dans une base de données

2020 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2020). Effect of the proximity to the $0^\circ/90^\circ$ interface on Energy Release Rate of fiber/matrix interface crack growth in the 90° -ply of a cross-ply laminate under tensile loading

Journal of Composite Materials, 54(21), pp. 3021-3034.

DOI: 10.1177/0021998320912810

Luca Di Stasio, Janis Varna, Zoubir Ayadi (2020). **Growth of interface cracks on consecutive fibers: On the same or on the opposite sides?**

Materials Today: Proceedings, In press, corrected proof.

DOI: 10.1016/j.matpr.2020.06.410

2019 Luca Di Stasio, Zoubir Ayadi (2019). Finite Element solution of the fiber/matrix interface crack problem: convergence properties and mode mixity of the Virtual Crack Closure Technique

Finite Elements in Analysis and Design, 167, 103332.

DOI: 10.1016/j.finel.2019.103332

Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). Energy release rate of the fiber/matrix interface crack in UD composites under transverse loading: Effect of the fiber volume fraction and of the distance to the free surface and to non-adjacent debonds

Theoretical and Applied Fracture Mechanics, 103.

DOI: 10.1016/j.tafmec.2019.102251

Articles publiés dans les actes des congrès internationaux

2019 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). Estimating the average size of fiber/matrix interface cracks in UD and cross-ply laminates

Proceedings of the 7th ECCOMAS Thematic Conference on the Mechanical Response of Composites (Composites 2019), Eds: A. Turon, P. Maimi, M. Fagerstrom - Girona, Espagne - Septembre 18-20, 2019

Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). **Growth of interface cracks on consecutive fibers: on the same or on the opposite sides?**

Proceedings of the 12^{th} International Conference on Composite Science and Technology (ICCST/12) - Sorrento, Italie - Mai 8-10, 2019

2018 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). **Effect of boundary conditions** on microdamage initiation in thin ply composite laminates

Proceedings of the 18th European Conference on Composite Materials (ECCM18) - Athènes, Grèce - Juin 24-28, 2018

Communications orales dans des congrès ou séminaires internationaux ou nationaux

2020 Luca Di Stasio (2020). Native scripting in Windows: the Command Prompt Interface

CarpentryCon @ Home: Growing Inclusive, Computational Communities and Leaders - En ligne - Juillet 14 - août 31, 2020

2019 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). Estimating the average size of fiber/matrix interface cracks in UD and cross-ply laminates

7th ECCOMAS Thematic Conference on the Mechanical Response of Composites (Composites 2019) - Girona, Espagne - Septembre 18-20, 2019

Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). Ply-thickness effect on fiber-matrix interface crack growth

9th International Conference on Composite Testing and Model Identification (COMPTEST2019) - Luleå, Suède - Mai 27-29, 2019

Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). **Growth of interface cracks on consecutive fibers: on the same or on the opposite sides?**

12th International Conference on Composite Science and Technology (ICCST/12) - Sorrento, Italie - Mai 8-10, 2019

Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). Investigation of scaling laws of the fiber/matrix interface crack in polymer composites through finite element-based micromechanical modeling

 10^{th} EEIGM International Conference on Advanced Materials Research - Moscou, Russie - Avril 25-26, 2019

2018 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2018). **Effect of boundary conditions on microdamage initiation in thin ply composite laminates**18th European Conference on Composite Materials (ECCM18) - Athènes, Grèce - Juin 24-28, 2018

2017 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2017). Micromechanical models of transverse cracking in ultra-thin Fiber-Reinforced composite laminates Journée de l'équipe 304 de l'IJL - Nancy, France - Juillet 5, 2017 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2017). Micromechanical modeling of

thin ply effects on microdamage in Fiber Reinforced Composite laminates

International Materials Research Meeting of the Greater Region (IMRM) - Saarbrücken, Allemagne - Avril 6-7, 2017

Communications orales en format poster dans des congrès ou séminaires internationaux ou nationaux

2017 Luca Di Stasio, Janis Varna, Zoubir Ayadi (2019). Micromechanical Models of Transverse Cracking in Ultra-thin Fiber-Reinforced Composite Laminates

Séminaire de l'école doctorale EMMA (maintenant C2MP) - Nancy, France - Mai 4,
2017

Thèses

2019 Luca Di Stasio (2019). Effet de la microstructure sur le décollement à l'interface fibre/matrice dans les stratifiés à matrice polymère avec renfort en fibre soumis à traction

Thèse de doctorat en Sciences des matériaux

Soutenue le 13 décembre 2019 à l'Université de Lorraine en cotutelle avec Luleå University of Technology (Suède), dans le cadre de l'École doctorale C2MP - Chimie mécanique matériaux physique (Université de Lorraine), en partenariat avec l'Institut Jean Lamour, Nancy (laboratoire).

2013 Luca Di Stasio (2013). Experimental, Analytical and Numerical Investigation of Loading Rate Effects on Mode I, Mode II and Mixed Mode I-II Delamination in Advanced CFRP

> Thèse de maitrise (Master of Science) en Ingénierie spatiale au Politecnico di Milano (Milano, Italie).