

PEER-REVIEWED ARTICLES

- J. Abenojar, B. Enciso, M.A. Martínez, F. Velasco. “Wear resistance of polypropylene-SiC composite”. *Journal of Physics: Conf. Series* **843** (2017) 012066. (doi: 10.1088/1742-6596/843/1/012066).
- M. Fernández-Álvarez, F. Velasco, A. Bautista. “Effect on wear resistance of nanoparticles addition to a powder polyester coating through ball milling”. *Journal of Coatings Technology and Research* **15** (2018) 771-779. (doi: 10.1007/s11998-018-0106-z).
- G. Monrrabal, B. Ramírez-Barat, A. Bautista, F. Velasco, E. Cano. “Non-Destructive Electrochemical Testing for Stainless Steel Components with Complex Geometry Using Innovative Gel Electrolytes”. *Metals* **8** (2018) 500 (doi:10.3390/met8070500).
- S. López de Armentia, M. Pantoja, J. Abenojar, M.A. Martínez. “Development of Silane-Based Coatings with Zirconia Nanoparticles Combining Wetting, Tribological, and Aesthetical Properties”. *Coatings* **8** (2018) 368 (doi:10.3390/coatings8100368) (
- M. Pantoja, F. Velasco, J. Abenojar, M.A. Martínez. “Development of superhydrophobic coatings on AISI 304 austenitic stainless steel with different surface pretreatments”. *Thin Solid Films* **671** (2019) 22-30 (doi: 10.1016/j.tsf.2018.12.016)
- P. Galvez, J. Abenojar, M.A. Martínez. “Effect of moisture and temperature on the thermal and mechanical properties of a ductile epoxy adhesive for use in steel structures reinforced with CFRP”. *Composites Part B: Engineering* **176** (2019) 107194 (doi: 10.1016/j.compositesb.2019.107194)
- A. Bautista, J.C. Pomares, M.N. González, F. Velasco. “Influence of the microstructure of TMT reinforcing bars on their corrosion behavior in concrete with chlorides”. *Construction & Building Materials* **229** (2019) 116899 (doi: 10.1016/j.conbuildmat.2019.116899)
- S. López de Armentia, B. Enciso, G. Mokry, J. Abenojar, M.A. Martínez. “Novel application of a thermoplastic composite with improved matrix-fiber interface”. *Journal of Materials Research and Technology* **8** (2019) 5536-5547 (doi: 10.1016/j.jmrt.2019.09.022)
- M. Fernández-Álvarez, F. Velasco, A. Bautista, J. Abenojar. “Effect of silica nanoparticles on the curing kinetics and erosion wear of an epoxy powder coating”. *Journal of Materials Research and Technology* **9** (2020) 455-464 (doi: 10.1016/j.jmrt.2019.10.073).

- M. Fernández-Álvarez, F. Velasco, A. Bautista. “Epoxy powder coatings hot mixed with nanoparticles to improve their abrasive wear”. *Wear* **448-449** (2020) 203211 (doi: 10.1016/j.wear.2020.203211).
- M. Fernández-Álvarez, F. Velasco, A. Bautista, B. Galiana. “Functionalizing organic powder coatings with nanoparticles through ball milling for wear applications”. *Applied Surface Science* **513** (2020) 145834 (doi: 10.1016/j.apsusc.2020.145834)
- M. Fernández-Álvarez, F. Velasco, A. Bautista, F.C.M. Lobo, E.M. Fernandes, R.L. Reis. “Manufacturing and Characterization of Coatings from Polyamide Powders Functionalized with Nanosilica”. *Polymers*, **12** (2020) 2298 (doi: 10.3390/polym12102298).
- M. Fernández-Álvarez, F. Velasco, A. Bautista, Y. González-García, B. Galiana. “Corrosion Protection in Chloride Environments of Nanosilica Containing Epoxy Powder Coatings with Defects”. *Journal of The Electrochemical Society*, **167** (2020) 161507 (doi: 10.1149/1945-7111/abd003).
- M. Fernández-Álvarez, F. Velasco, A. Bautista. “Performance of ultraviolet exposed epoxy powder coatings functionalized with silica by hot mixing”. *Journal of Materials Research and Technology* (doi: 10.1016/j.jmrt.2020.12.094).

NEWS

Advances in Engineering (2017): “Influence of type of solvent on development of super hydrophobicity from silane-based solution containing nanoparticles”.
<https://advanceseng.com/materials-engineering/type-solvent-development-super-hydrophobicity-silane-based-solution-containing-nanoparticles/>

CONFERENCES

- M. Fernández-Álvarez, S. Montero, C. Muñoz, S. Guzmán, A. Bautista, F. Velasco. “Effect of nanoparticles added through ball-milling to a polyester organic coating on its wear resistance”. 13th Coatings Science International 2017. Noordwijk, The Netherlands. 26-30 June 2017. Book of abstracts, p. 82-85.
- J. Abenojar, P. Gálvez-Villarino, F. Velasco, M.A. Martínez. “Dissimilar bonds with a tough epoxy adhesive for construction industry”. AB2017 4th International Conference on Structural Adhesive Bonding. Porto, Portugal. 6-7 July 2017.

- J. Abenojar, B. Enciso, M.A. Martínez, F. Velasco. "Wear resistance of polypropylene-SiC composite". 6th International Conference on Fracture Fatigue and Wear (FFW 2017). Porto, Portugal. 26-27 July 2017.
- M. Fernández-Álvarez, F. Velasco, A. Bautista. "Wear resistance of epoxy powder coating with SiO₂ nanoparticles". 3er Congreso Internacional de Innovación Tecnológica en Edificación (CITE 2018). Madrid, 7-9 March 2018.
- J. Abenojar, S. López de Armentia, P. Gálvez, M.A. Martínez. "Tribological and Mechanical Properties of Polyester Based Composites with SiC Particles". 7th International Conference on Fracture Fatigue and Wear (FFW 2018). Ghent, Belgium. 9-10 July 2018.
- M. Pantoja, J. Abenojar, F. Velasco, M.A. Martínez. "Estudio de la durabilidad de recubrimientos superhidrofóbicos tras su exposición bajo condiciones de envejecimiento". XIX Congreso de Adhesión y Adhesivos. Madrid, 19-20 September 2018.
- J. Abenojar, M.A. Martínez, M. Pantoja, F. Velasco. "Effect of polymeric matrix on fire resistance of ablative materials". XIX Congreso de Adhesión y Adhesivos. Madrid, 19-20 September 2018.
- S. Lopez de Armentia, B. Enciso, F. Velasco, M.A. Martínez. "Reinforcement of brittle ornamental materials: adhesion with thermoplastic matrix composites". XIX Congreso de Adhesión y Adhesivos. Madrid, 19-20 September 2018.
- M. Fernández-Álvarez, F. Velasco, A. Bautista, J. Abenojar. "Cure kinetics and scratch resistance of epoxy powder coatings with silica nanoparticles". XIX Congreso de Adhesión y Adhesivos. Madrid, 19-20 September 2018.
- M. Fernández-Álvarez, F. Velasco, A. Bautista. "Functionalizing polyester powder coatings with nanoparticles for wear applications". 3rd International Conference on Applied Surface Science. Pisa, Italy. 17-20 June 2019.
- J. Abenojar, S. Risueno, Y. Ballesteros, M.A. Martínez. Paneles pizarra-corcho unidos con poliuretano para aplicaciones en el hábitat. XIX Congreso de Adhesión y Adhesivos. San Sebastián, 17-18 September 2019.
- J. Abenojar, M.A. Martínez, F. Velasco. Slate-Cork Sandwich Bonded with Silicone for Applications in the Habitat. 3rd International Conference on Materials Design and Applications 2020 (MDA 2020). Porto, 25-26 June 2020.