

HVT Journal Papers

Between March 2014 and June 2025

Published Refereed Journal Papers - 202

University of Denver

1. Middleton, J., Hoffman, J., Burks, B. and Kumosa, M., Aging of a Polymer Core Composite Conductor; Mechanical Properties and Residual Stresses, *Composites Part A*, Vol. 69 (2015), pp. 159-167.
2. Hoffman, J., Middleton, J. and Kumosa, M., Effect of a Surface Coating on Flexural Performance of Thermally Aged Hybrid Glass/Carbon Epoxy Composite Rods, *Composites Science and Technology*, Vol. 106 (2015) pp. 141-148.
3. Hakansson, E., Predecki, P. and Kumosa, M., Comparison of Galvanic Corrosion Performance of HTLS ACCC and Conventional ACSR Conductors, *IEEE Transactions on Reliability*, Vol. 64, Issue 3 (2015) pp. 928-934.
4. Allen B., Bleszynski, M., Willis, E., and Kumosa, M., Investigation into the Effects of Environmental Stressors on RTV-1 Silicone-Based Caulk Materials, *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol. 22, Issue 5 (October 2015) pp. 2978-2986.
5. Hakansson, E., Ricker, R., Predecki, P. and Kumosa, M., Electrochemical In-situ Assessment Method for Galvanic Corrosion in Bare Overhead Transmission Line Conductors, *CIGRE Science and Engineering*, June 2016, No 5, pp. 38-49.
6. Lu, T., Solis-Ramos, E., Yi, Y., and Kumosa, M., Synergistic Environmental Degradation of High Voltage Glass Reinforced Polymer Composites, *Polymer Degradation and Stability*, Vol. 131, Sep. 2016, pp. 1-8.
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10. Waters, D., Hoffman, J., Hakansson, E. and Kumosa, M., Low Velocity Impact To Transmission Line Conductors, *Int. J. Impact Engineering*, Vol. 106 (2017) pp. 64-72.
11. Grell, W., E. Solis-Ramos, E., Clark, E., Lucon, E. Garboczi, E., Predecki, P., Loftus, Z., and Kumosa, M., Effects of Powder Oxidation on Impact Toughness of Electron Beam Melt Ti-6Al-4V, *J. Additive Manufacturing*, Vol. 17 (2017) pp. 123-134.

12. Bleszynski, M and Kumosa, M., Silicone Rubber Aging in Electrolyzed Aqueous Salt Environments, *Polymer Degradation and Stability*, Vol. 146 (2017) pp. 61-68.
13. Lu, T., Solis-Ramos, E., YI, Y., and Kumosa, M., Particle Removal Mechanisms in Synergistic Aging of Polymers and Glass Reinforced Polymer Composites under Combined UV and Water, *Composites Science and Technology*, Vol. 153 (2017) pp. 273-181.
14. Bakir, M., Henderson, NC, Meyer, J. J., Oh, J., Miljkovic, N., Kumosa, M., Economy, J., and Jasiuk, I., Effects of Environmental Aging on Physical Properties of Aromatic Thermosetting Copolyester Matrix Neat and Nanocomposite Foams, *Polymer Degradation and Stability*, Vol. 147 (2018) pp. 49-56.
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16. Lu, T., Solis-Ramos, E., YI, Y., and Kumosa, M., UV Degradation Model for Polymers and Polymer Matrix Composites, *Polymer Degradation and Stability*, Vol 154 (2018) pp. 2013-210.
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22. Henderson, C., Monteith, J., Solis-Ramos, E., Godard, R., Predecki, P. and Kumosa, M., Impact Protection of Borosilicate Glass Plates with Elastomeric Coatings in Drop Tower Tests, *Int. J. Impact Engineering*, Vol. 137 (2020) 103460.
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31. Khadka, S., Kumosa, M., and J. Hoffman, J., Determination of Residual Stresses in a Single FBG Fiber/Epoxy Composite System, *Composites Science and Technology*, <https://www.sciencedirect.com/science/article/abs/pii/S0266353821004942>
32. Williams, J, Hoffman, J., Predecki, P., and Kumosa M., Application of Polymer Matrix Composites in Large Power Transformer Tanks, *IEEE Transactions on Power Delivery*, 10.1109/TPWRD.2022.3147410.
33. Khadka, S., Hoffman, J., Predecki, P. and KUMOSA. M., Monitoring Solidification of Tin-Bismuth Alloys Using FBG Sensors, *Materialia*, Vol 21 (2022) 101320.
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39. Williams, J., Hoffman, J., Kumosa, M., Predecki, P. “Case Study: A Change of Geometry and Material for Next-Generation Large Power Transformer Tanks.” Chapter 11 in Flores, Erick Saavedra. 14th **International** Conference on the Mechanical Behavior of Materials. ISBN: 3-031-53374-7.

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