



Taiho Kogyo Tribology Research Foundation

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Theme: Tribology of Triboelectric Nanogenerators: Understanding how Interface Mechanics Effects Electrical Output

Related Presentation/Publication

Min G., Pullanchiyodan A., Dahiya A.S., Hosseini E.S., Xu Y., Mulvihill D.M. and Dahiya R. (2021) 'Ferroelectric-assisted high performance triboelectric nanogenerators based on electrospun P(VDF-TrFE) composite nanofibers with barium titanate nanofillers, Nano Energy, 90, 106600.

Kumar C., Perris J., Bairagi S., Min. G., Xu Y., Gadegaard N. and Mulvihill D.M. (2022) 'Contact mechanics of a newly developed triboelectric nanogenerator (TENG): the role of multi-scale surface texturing', In preparation – plan to submit to Advanced Functional Materials.

Kumar C., Perris J., Bairagi S., Min. G., Gadegaard N. and Mulvihill D.M. (2022) 'Systematic contact mechanics investigation of micro-patterned triboelectric nanogenerator', BSSM 16th International Conference on Advances in Experimental Mechanics, Oxford, UK, Sept 6-8.

Kumar C., Perris J., Bairagi S., and Mulvihill D.M. (2022) 'Contact Mechanics of Triboelectric Nanogenerator (TENG) for Sustainable Energy Generation' Swiss Tribology 2022 (Online Symposium).