

## Lista de publicații

1. M. Bilici, J. R. Haase, C. Boyle, D. Go, R. Sankaran, The smooth transition from field emission to a self-sustained plasma in microscale electrode gaps at atmospheric pressure, *J. App. Phys.*, vol. 119, 2016.
2. M. Rezoug, R. Ouiddir, W. Aksa, K. Medles, M. Bilici, L. Dascalescu, Tribo-Aero-Electrostatic Separator for Ternary Mixtures of Granular Plastics, *IEEE Trans. Ind. Appl.*, vol. 51, 1161-1167, 2015.
3. S. Ghosh, T. Liu, M. Bilici, J. Cole, I. Huang, D. Staack, D. Mariotti, R. M. Sankaran, Atmospheric-pressure dielectric barrier discharge with capillary injection for gas-phase nanoparticle synthesis, *J. Phys. D: Appl. Phys.*, vol. 48, 314003, 2015.
4. M. Bilici, J. R. Toth, R. M. Sankaran D. Lacks, Particle size effects in particle-particle triboelectric charging studied with an integrated fluidized bed and electrostatic separator system, *Rev. Sci. Instrum.*, vol. 85, 2014.
5. G. Buda, M. Bilici, L. Dascalescu, A. Samuila, Influence of material moisture on the tribocharging process of plastic granules, *Particulate Sci. & Tech.*, vol. 31, 162-167, 2013.
6. G. Buda, A. Samuila, S. Atroune, M. Bilici, L. Dascalescu, Set point identification of a tribocharging process for mixed granular solids, *Journal of Electrostatics*, vol. 71, 407-412, 2013.
7. J. Li, L. Dascalescu, M. Bilici, Z. Xu, Numerical modeling of the trajectories of plastic granules in a tribo-aero-electrostatic separator, *Journal of Electrostatics*, vol. 71, 281-286, 2013.
8. Younes, M. Younes, H. Sayah, M. Bilici, A. Samuila, L. Dascalescu, Effect of spark discharges on the trajectories of insulating particles in roll-type corona-electrostatic separators. Experimental and numerical study, *Journal of Electrostatics*, vol. 71, 84-91, 2013.
9. F.Z. Rahou, A. Tilmatine, M. Bilici, L. Dascalescu, Numerical simulation of tribo-aero-electrostatic separation of mixed granular solids, *IEEE Trans. Ind. Appl.*, vol. 48, 816-822, 2012.
10. M. Bilici, L. Dascalescu, C. Dragan, O. Fati, A. Iuga, A. Samuila, Tribocharging and electrostatic separation of mixed granular solids in fluidized bed devices, *IEEE Trans. Diel. Electr. Insul.*, vol. 18, 1476-1483, 2011.
11. L. Dascalescu, M. Bilici, C. Dragan, A. Samuila, Y. Ramdani, A. Tilmatine, Robust design and capability evaluation of a tribo-aerodynamic charging process for fine particles, *IEEE Trans. Ind. Appl.*, vol. 47, 1086 - 1092, 2011.
12. L. Dascalescu, C. Dragan, M. Bilici, R. Beleca, Y. Hemery, X. Rouau, Electrostatic basis for separation of wheat bran tissues, *IEEE Trans. Ind. Appl.*, vol. 46, 659 - 665, 2010.
13. L. Dascalescu, C. Dragan, M. Bilici, R. Chereches, Triboelectric phenomena in suction-type dilute-phase pneumatic transportation systems for granular plastics, *IEEE Trans. Ind. Appl.*, vol. 46, 1570-1577, 2010.
14. C. Dragan, M. Bilici, S. Das, A. Samuila, L. Dascalescu, Tribocharging of insulating powders in the annular ducts of pneumatic devices, *IEEE Trans. Ind. Appl.*, vol. 46, 1138 - 1143, 2010.
15. C. Dragan, M. Bilici, S. Das, L. Dascalescu, Triboelectrostatic phenomena in suction-type dilute-phase pneumatic transport systems, *IEEE Trans. Diel. Electr. Insul.*, vol. 16, 661-667, 2009.

16. C. Dragan, A. Samuila, S. Das, D. Iancu, M. Bilici, L. Dascalescu, Factors that influence the tribo-charging of insulating ducts in suction-type dilute-phase pneumatic transport systems, *Journal of Electrostatics*, vol. 67, 184-188, 2009.
17. Y. Hemery, X. Rouau, C. Dragan, M. Bilici, R. Beleca, L. Dascalescu, Electrostatic properties of wheat bran and its constitutive layers: influence of particle, size, composition, and moisture content, *Journal of Food Engineering*, vol. 93, 114-124, 2009.

### **Lucrări prezentate la conferințe**

L. Călin, A. Căținean, M. Bilici, A. Samuilă, Recovery of zinc and brass from spent alkaline and zinc-carbon batteries, 17th International Waste Management and Landfill Symposium, 30 Sept - 04 Oct, 2019, Forte Village, Cagliari, Italy.

M. Bilici, A. Căținean, L. Calin, A. Samuila, The Effect of Charged Granules Agglomerations on the Electric Field Distribution of a Tribo-aero-electrostatic Separator, 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), March 28-30, 2019, Bucharest, Romania.

M. Bilici, J. Haase, C. Boyle, D. B. Go, R. M. Sankaran, A smooth transition from field emission to a self-sustained plasma in microscale electrode gaps at atmospheric pressure, 43rd IEEE International Conference on Plasma Science, June 19-23, 2016, Banff, Alberta, Canada.

M. Bilici, J. Haase, C. Boyle, D. B. Go, R. M. Sankaran, Experimental study of micron-scale, field emission-driven microplasmas, AVS 62nd International Symposium & Exhibition, October 18-23, 2015, San Jose, CA.

A. Samuila, M. Bilici, V. Ilies, L. Dascalescu, Design and test of a novel fluidized-bed two-insulated-rolls-type tribo-aero-electrostatic separator for granular plastics, 2014 ESA Annual Meeting, June 17-19, 2014, Notre Dame, IN.

M. Bilici, R. M. Sankaran, D. J. Lacks, Contact charging and triboelectric effects, 2013 ESA Annual Meeting, June 11-13, 2013, Cocoa Beach, FL.

M. Bilici, L. Dascalescu, O. Fati, F. Rahou, M. Miloudi and A. Samuila, Experimental modeling of the tribo-aero-electrostatic separation of mixed granular plastics, 2011 ESA Annual Meeting, June 14-16, 2011, Cleveland, OH.