

Proceedings of the 2012 Electrostatics Joint Conference

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Cambridge, ON, Canada

General Chair: Shesha Jayaram, University of Waterloo

Technical Chair: Maciej A. Noras, University of North Carolina at Charlotte

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A2. **A Sayyah, J. Stark, T. Abuhamed, W. Weisinger, M. Horenstein, M. K. Mazumder**, [Energy Yield Loss caused by Dust Deposition in Solar Power Plants](#)

A3. **Andrew Sowinski, Khaled Atieh, Poupak Mehrani**, [Investigation of Electrostatic Charge Distribution of Particles Adhered to the Wall of a Gas-Solid Fluidized Bed](#)

A4. **Fatima Rahou, Amar Tilmatine, Mihai Bilici, Lucian Dascalescu**, [Numerical Simulation of the Continuous Operation of a Tribo-aero-electrostatic Separator for Mixed Granular Solids](#)

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- S10. Jonathan Liaw, Lin Zhao, [Automatic Remote Control and Data Acquisition for Experimental Study of EHD Lifters](#)
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- S12. Chitral J. Angamma, Shesha H. Jayaram, [A study of free surface electrospinning to enhance and optimize the nanofibre production process](#)
- S13. Belaid Tabti, Lucian Dascalescu, Marius Ploeanu, Agela Antoniu, Belkacem Yahiaoui, Ahmed Melahi, [Factors That Influence the Negative Corona Charging of Nonwoven Filter Media](#)
- S14. Mohamed Miloudi, Karim Medles, Amar Tilmatine, Lucian Dascalescu, [Optimisation of belt-type electrostatic separation of tribo-aerodynamically charged granular plastic mixtures](#)
- S15. Mamadou Sow, R. Mohan Sankaran and Daniel J. Lacks, [Material strain can control the direction of charge transfer during contact charging process](#)
- S16. Larry Levit, Geoff Weil, [A Study of the Charge Carrier Population for an Electrically Assisted Polonium 210 Ionizer in Nitrogen](#)
- S17. Yacine Oussar, C. Margo, J. Lucas, S Hole, [ECT sensor design using machine learning techniques](#)
- S18. Ian Pavey, John Chubb, [Assessment of the electrostatic suitability of materials](#)
- S19. Belkacem Yahiaoui, Mohamed Magharbi, Belaid Tabti, Angela Antoniu, Atallah Smaili, Lucian Dascalescu, [Distribution of Electric Potential at the Surface of Corona-Charged Non-woven Fabrics after Neutralization](#)
- S20. Shota Yuyama, Norimitsu Ichikawa, Tetsuo Sakamoto, [Preventive measures of the tracking fire generated between a home electric outlet and plugs](#)
- S21. Kelly Robinson, [Variation in Static Dissipation Time with Surface Resistivity](#)
- S22. Luiz H. Meyer, Sérgio H. L. Cabral, Gabriel G. Madruga, [Coupling Transmission Lines for Wave Shape Adjust in High-Voltage Surge Tests](#)
- S23. Niloofar Farnoosh, Robert Allan, Kazimierz Adamiak, [3-D Computational Modeling of Wet Electrostatic Precipitators to Control Submicron Particulate Emissions](#)
- S24. Mark C. Zaretsky, [Increasing the Charging Capability of a Highly Constrained Corona Charger](#)
- S25. Nikola Toljic, P. Castle, K. Adamiak, H. Kuo, C. Fan, [A 3D Numerical Model Of The Coating Process With Moving Mesh Capability and Multiple Passes](#)
- S26. Jack Menear, Peter Gefter, Jaan Salm, [Electrostatics and Airborne Particle Control to Minimize Deposition onto Wafers](#)
- S27. Mohamed Fodil Boukhoulda, Mohamed Miloudi, Karim Medles, Mohamed Rezoug, Amar Tilmatine, Lucian Dascalescu, [Experimental Modeling of a New Tribo-electrostatic Separation Process for Mixed Granular Polymers](#)
- S28. S. Touhami, K. Medles, O. Dahou, A. Tilmatine, A. Bendaoud, L. Dascalescu, [Modeling and Optimization of a Roll-Type Electrostatic Separation Process Using Artificial Neural Networks](#)
- S29. William D. Greason, [Triboelectrification of wood with PTFE](#)
- S30. Mohammed El-Mouloud Zelmat, Mohamed Rizouga, Amar Tilmatine, Karim Medles, Mohamed Miloudi, Lucian Dascalescu, [Experimental Comparative Study of Different Tribocharging Devices for Triboelectric Separation of Insulating Particles](#)
- S31. Wessim Aksa, Karim Medles, Mohamed Rezoug, Mohamed Fodil Boukhoulda, Mihai Bilici, Lucian Dascalescu, [Two Stage Electrostatic Separator for the Recycling of Plastics from Waste Electrical and Electronic Equipment](#)
- S32. Atsushi Katatani, H. Hosono, H. Murata, A. Mizuno, [Function of an electrostatic precipitator using bipolar corona discharges](#)

- S33. **Thierry Paillat, Gerard Morin, Gerard Touchard, Yves Bertrand, Olivier Moreau, Alain Tanguy**, [Electrostatic Hazard in High Power Transformers: Analyze of ten years of the Capacitive Sensor](#)
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- S35. **Angela Antoniu, Hirofumi Kurita, Tomoko Nakajima, Akira Mizuno**, [Safety Evaluation of Non-Thermal Atmospheric Pressure Plasma Liquid Treatment](#)
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- S37. **Michael Reznikov, Phil Williams**, [Corona discharge in the steam for electrostatically enforced condensation](#)
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