

## Slide electrification: Towards the chemistry and physic

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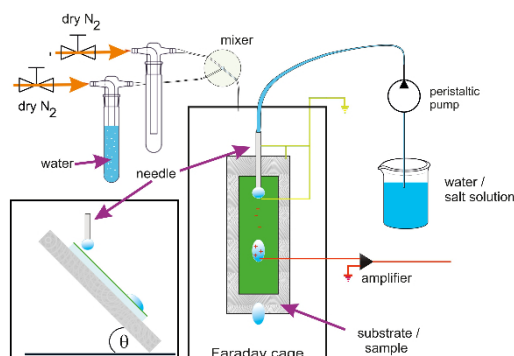
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Droplets moving over an (inclined) surface leave in general charges behind. The droplet is than oppositely charges compared to the surface. The charges of the droplets can be harvested, quantified and analysed. Here we will show the influence of the chemistry of the substrate and its surface on the generation of charges [1]. Further we will shine light on the nature of the charges transferred from experiments with a number of liquids in different physical states [2].

### Keywords:

slide electrification, contact electrification, droplets, surfaces, charging of interfaces



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### References:

- [1] B. Leibauer, O. Pop-Georgievski, M. D. Sosa, Y. Dong, W. Tremel, H.-J. Butt, W. Steffen; JACS 2024 Vol. 146 Issue 14 Pages 10073-10083
- [2] R. Lathia, B. Leibauer, A. D. Ratschow, W. Steffen and H.-J. Butt; arXiv preprint arXiv:2601.03887 2026

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