

# The Role of Mechanistic and Interfacial Events in Electrified Liquids and Aerosols

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***Abstract*** — Water with excess charge is the outcome of many different events triggered by mechanical disruption, electric fields or by interfacial phenomena that produce non-electroneutral water, either liquid, solid or vapor, due to excess H<sup>+</sup> or OH<sup>-</sup> concentration. We have found that water is often non-electroneutral and that it contributes in many ways to impart non-electroneutrality to other substances. Finally, electrified liquid water could be used to organize turboelectric series in a very systematic and robust way.