

Abstract Submitted
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Ionic conduction at liquid-liquid interfaces¹ FRANCISCO SOLIS, Arizona State University, MONICA OLVERA DE LA CRUZ, Northwestern University — In coexisting liquid phases with different dielectric constants, ionic species do not have, in general, uniform concentrations. Salt ions accumulate predominately in the liquid with higher dielectric constant. Furthermore, excess accumulation and depletion of ions appears at the interface between the liquids, In this presentation we explore the effects of these non-uniform ionic distributions in the AC conductivity of the liquid mixture. We describe in detail the frequency dependence of the conductivity for each of the ionic components.

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