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Spatiotemporal discharge characteristics in saline plasma for the biomedical applications JAE-CHUL JUNG, MYEONG YEOL CHOI, ZENGQI YU, IL GYO KOO, GEORGE J. COLLINS, Colorado State University — The spatiotemporal electron density profile of pulsed liquid plasma in salines is illustrated by the spectroscopic measurement using hydrogen beta line broadening, in which also the correlation between the bubble generation and the plasma ignition with elapse of time are closely examined. Overall, the density decreased with distance from the electrode, but it was shown to have different time and spatial distributions of fundamental atomic lines in saline solution. In this study, It shows a dependency of the power delivered to the saline determining the initial bubble generation and volume, then the following plasma parameters in saline (rotational temperature, density, V-I curve, etc.)

Jae-Chul Jung
Colorado State University

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