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Dear Editor,

I hereby submit our manuscript entitled *Long-range Interatomic Coulombic Decay in ArXe clusters: Experiment and Theory* written by M. Förstel, M. Mucke, T. Arion, T. Lischke, M. Pernpointner, Uwe Hergenbahn and E. Faßhauer for consideration of publication in the Journal of Physical Chemistry C on behalf of all authors.

In this joint theoretical and experimental work we study two competitive electronic decay processes in clusters for which we have chosen ArXe clusters as a model system. We find that the Electron Transfer Mediated Decay (ETMD(3)), which is a pure interface effect, is dominated by the long-range Interatomic Coulombic Decay (ICD) decay mechanism. Due to these results we are able to draw the conclusion, that the cluster structure provides a clear interface between argon and xenon atoms instead of mixed cluster structures.

Yours sincerely,

Elke Faßhauer