

Abstract Submitted
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Electronic stopping power in perovskites for space applications¹

ROSTY MARTINEZ, MARIO BORUNDA, Oklahoma State University-Stillwater
— Electronic stopping power describes the energy transfer rate to electrons in material during ion irradiation. We calculate electronic stopping power in triple-cation perovskites (formamidinium, methylammonium, and cesium). These materials have some of the highest power conversion efficiencies for perovskite-based photovoltaics. From simulations we can estimate the stopping process of ions and this would have implications for the use of photovoltaic devices for space missions.

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Rosty Martinez Duque
Oklahoma State University-Stillwater

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