

## عنوان مقاله:

Investigating the use of perovskite solar cell in drones

## محل انتشار:

نخستین کنفرانس سراسری پژوهشهای کاربردی در مهندسی برق (سال: 1399)

تعداد صفحات اصل مقاله: 4

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## خلاصه مقاله:

In this study, the perovskite solar cell of  $\text{MAPbI}_3$  has been employed as a power resource in drones. The finiteelement method analysis has been proved that this type of solar cell could be beneficial for electrically charging of batteries with sufficient power conversion efficiency of  $20.53\%$ . For determining the climate changes on solar cell performance, the solar spectrum of AM $1.5G$  influenced by factor of 1, 0.5, and 0.2 in which the efficiency of solar cell regularly decreased. Also impact of different incident angle has been investigated for proposed solar cell to be a candidate for sun movement during the days of the year. Finally, the JV curve of the proposed structure has been discussed from the electrical point of view.

## کلمات کلیدی:

.Drone, Solar cells, Perovskite, Wing, UAV

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1641944>

