

عنوان مقاله:

Recent Progress in Flexible Perovskite Solar Cells

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چهارمین کنفرانس بین المللی نوآوری های اخیر در شیمی و مهندسی شیمی (سال: 1396)

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نویسندگان:

Saideh Yoosefi - Department of Chemistry, Faculty of Science, Arak University, post code: ٣٨١٥٤-٨-٨٣٤٩, Arak-Iran

Hamideh Gharamaleki - Department of Anatomical Sciences, Faculty of medicine, Tabriz University of Medical Sciences, Tabriz-Iran

خلاصه مقاله:

Perovskite solar cells have emerged as one of the hottest research topics in the solar energy area due to theiradvantages of high photovoltaic performance, low cost, simple fabrication process, excellent mechanicalbending, high flexibility, and high photovoltaic performance. Rapid progress of perovskite solar cellperformance from 3.8% to 22.1% within only seven years make them the fastest-advancing solar technologyto date. In recent years, with the growing demand of flexible energy sources for wearable and portabledevices, many research efforts have been focusing on developing the perovskite solar cell technology onflexible substrates. In this review, the most recent advances and approaches in flexible perovskite solar cellsthat have contributed to improve device characteristics, such as power conversion efficiency and stabilityare described. In addition, some challenges and opportunities for future commercial applications are presented

کلمات کلیدی:

Perovskite solar cells, Flexible device, Power conversion efficiency

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