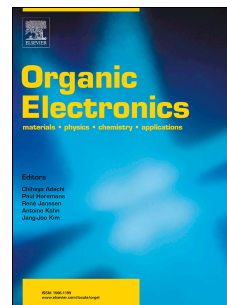


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A study of different central metals in octamethyl-substituted phthalocyanines as dopant-free hole-transport layers for planar perovskite solar cells

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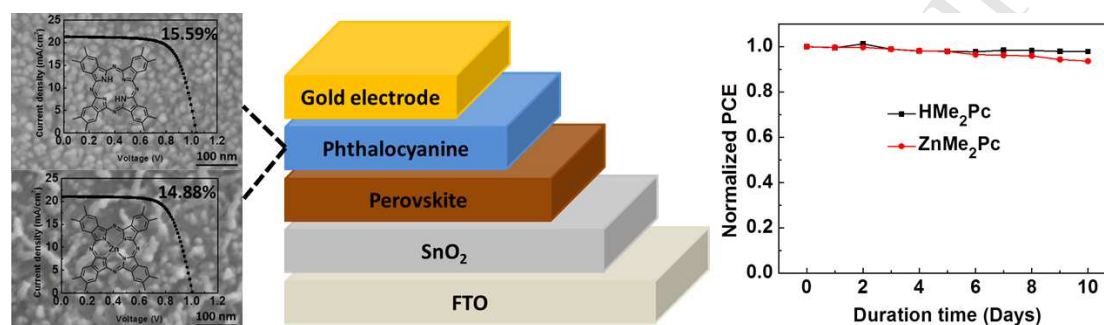
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A study of different central metals in octamethyl-substituted phthalocyanines as dopant-free hole-transport layers for planar perovskite solar cells

Two octamethyl-substituted phthalocyanines incorporated with H (HMe_2Pc) and Zn (ZnMe_2Pc) central metals as dopant free HTM for planar perovskite solar cell were demonstrated. HMe_2Pc exhibited higher PCE of 15.59% and longer stability than ZnMe_2Pc , which attributed to the higher carrier mobility, better film coverage, and stronger surface hydrophobicity.



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