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Journal of the American Chemical Society Volume 131, Issue 17, 6 May 2009, Pages 6050-6051

Organometal halide perovskites as visible-light sensitizers for photovoltaic cells (Article)

Kojima, A.ª, Teshima, K.^c, Shirai, Y.^d, Miyasaka, T.^{a,b,c} 🖂 🙎

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^aGraduate School of Arts and Sciences, University of Tokyo, 3-8-1 Komaba, Meguro-ku, Tokyo 153-8902, Japan ^bGraduate School of Engineering, Toin University of Yokohama, Aoba, Yokohama, Kanagawa 225-8502, Japan ^cPeccell Technologies Inc., 1614 Kurogane-cho, Aoba, Yokohama, Kanagawa 225-8502, Japan

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Abstract

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Two organolead halide perovskite nanocrystals, CH₃NH ₃PbBr₃ and CH₃NH₃PbI₃, were found to efficiently sensitize TiO₂ for visible-light conversion in photoelectrochemical cells. When self-assembled on mesoporous TiO₂ films, the nanocrystalline perovskites exhibit strong band-gap absorptions as semiconductors. The CH₃NH₃PbI₃-based photocell with spectral sensitivity of up to 800 nm yielded a solar energy conversion efficiency of 3.8%. The CH₃NH ₃PbBr₃-based cell showed a high photovoltage of 0.96 V with an external quantum conversion efficiency of 65%. © 2009 American Chemical Society.

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