Accepted Manuscript

Title: Specific Interaction between Dyes and Ions In Dye-sensitized Solar Cells Observed with Temporal Spectral Shift of Dyes

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PII: \$1010-6030(16)30678-5

DOI: http://dx.doi.org/doi:10.1016/j.jphotochem.2016.11.004

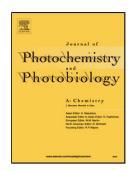
Reference: JPC 10428

To appear in: Journal of Photochemistry and Photobiology A: Chemistry

Received date: 14-8-2016 Revised date: 7-11-2016 Accepted date: 8-11-2016

Please cite this article as: R.Hosokawa, S.Kuwahara, K.Katayama, Specific Interaction between Dyes and Ions In Dye-sensitized Solar Cells Observed with Temporal Spectral Shift of Dyes, Journal of Photochemistry and Photobiology A: Chemistry http://dx.doi.org/10.1016/j.jphotochem.2016.11.004

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Highlights
Long-lived ruthenium-dye / iodine interaction were found.
The interaction continued for >20 ms.
Similar interaction was found for a specific organic dye.
The bleach peak of dyes were blue-shifted.

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