

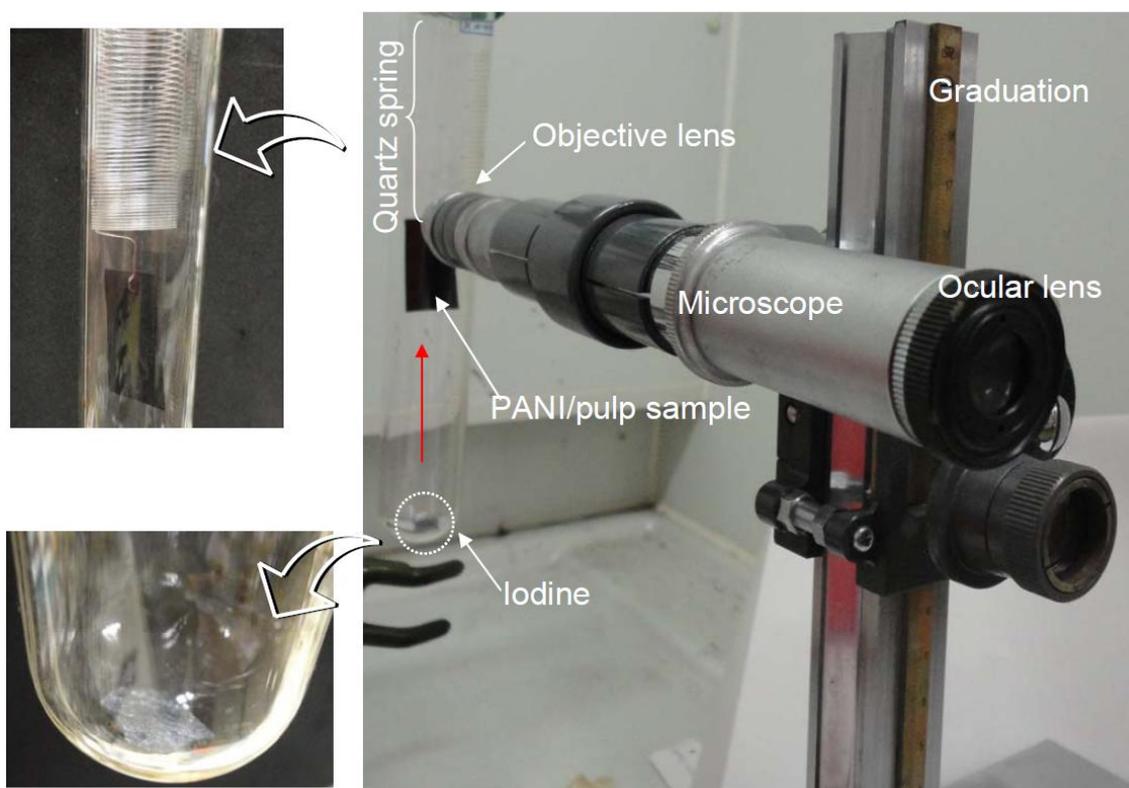
A Possibility for Construction of Iodine Cleaning System Based on Doping for π -Conjugated Polymers

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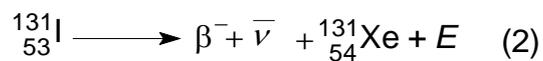
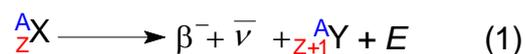
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Figure S1. Quartz micro-balance measurement with readout microscopy for *in-situ* vapor phase doping of iodine for the PANI/pulp sample.



Scheme S1. General formula of β -decay (1), and ^{131}I decay as an example (2).



Gamma-decay of ^{131}Xe occurs following after beta-decay. Half life time of ^{131}I is 8.02 days, and half life time of ^{131}Xe is 11.84 days [1,2]. $\bar{\nu}$ = antineutrino, E = energy.

References

1. *Chronological Scientific Tables*, 2004 ed.; National Astronomical Observatory, Maruzen Co., Ltd.: Tokyo, Japan, 2003.
2. Eisenbud, M. *Environmental Radioactivity*, 3rd ed.; Academic Press: Orland, France, 1987.