

Synergistic Recombination Suppression by Inorganic Layer and Organic Dye Molecules in High Photostable Quantum Dot Sensitized Solar Cells

Heping Shen,^a Jianbao Li,^a Lin Zhao,^b Wenli Wang,^{c, d} Dan Oron^e and Hong Lin,^{a, *}

^a State Key Laboratory of New Ceramics & Fine Processing, School of Materials Science and Engineering, Tsinghua University, Beijing 100084, China

^b Department of Physics, Hainan University, Tsinghua University, Beijing 100084, China.

^c National Engineering Laboratory for Modern Silk (Suzhou), 215123 Suzhou, China

^d College of Textile and Clothing Engineering of Soochow University, 215021 Suzhou, China

^e Department of Physics of Complex Systems, Weizmann Institute of Science, Rehovot 76100, Israel.

* Corresponding Author: hong-lin@tsinghua.edu.cn;

Fax: +86-10-62772672; Tel: +86-10-62772672.

1. Electrochemical impedance spectroscopy (EIS)

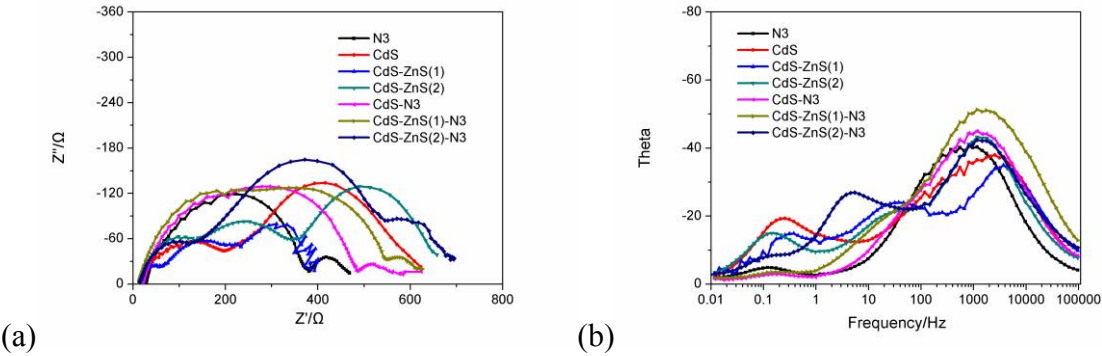


Figure S1. Typical electrochemical impedance spectra of cells in the forms of (a) Nyquist plots, (b) Bode plots. The spectra were measured with an external potential of -0.7V in the dark. ,