

Supporting Information for “Facile synthesis of MoS₂ /graphene nanocomposite with high catalytic activity toward triiodide reduction in dye-sensitized solar cells”

Chia-Jui Liu,^{⊥a} Sheng-Yen Tai,^{⊥b} Shu-Wei Chou,^b Ya-Chu Yu,^a Kai-Di Chang,^a Shuei Wang,^c Forest Shih-Sen Chien,^c Jeng-Yu Lin,^{*b} and Tsung-Wu Lin^{*a}

[^a] Mr. C. J. Liu, Ms. Y. C. Yu, Mr. K. D. Chang and Dr. T. W. Lin
Dept. of Chemistry, Tunghai University, No. 181, Sec. 3, Taichung Port Rd., Taichung City 40704, Taiwan
E-mail: twlin@thu.edu.tw

[^b] Mr. S. Y. Tai, Mr. S. W. Chou and Dr. J. Y. Lin
Dept. of Chemical Engineering, Tatung University, No. 40, Sec. 3, Chungshan North Rd., Taipei City 104, Taiwan
Fax: +886-225861939
E-mail: jylin@ttu.edu.tw

[^c] Mr. S. Wang and Dr. F. S. S. Chien
Dept. of Physics, Tunghai University, No. 181, Sec. 3, Taichung Port Rd., Taichung City 40704, Taiwan
E-mail: fsschien@thu.edu.tw

[[⊥]] These authors contributed equally

[^{*}] Corresponding authors

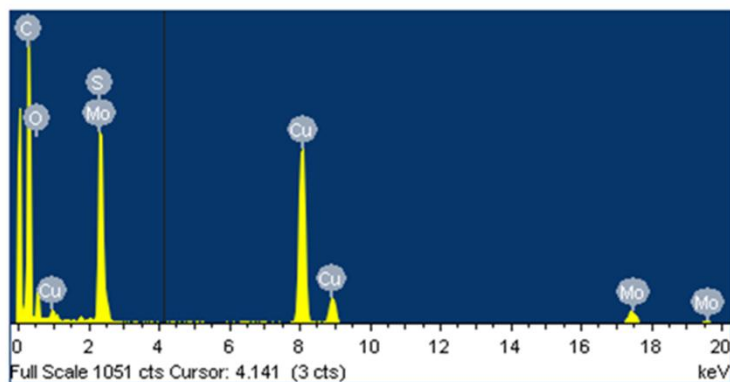


Figure S1 X-ray energy dispersive spectroscopy of RGO/MoS₂ nanocomposite.

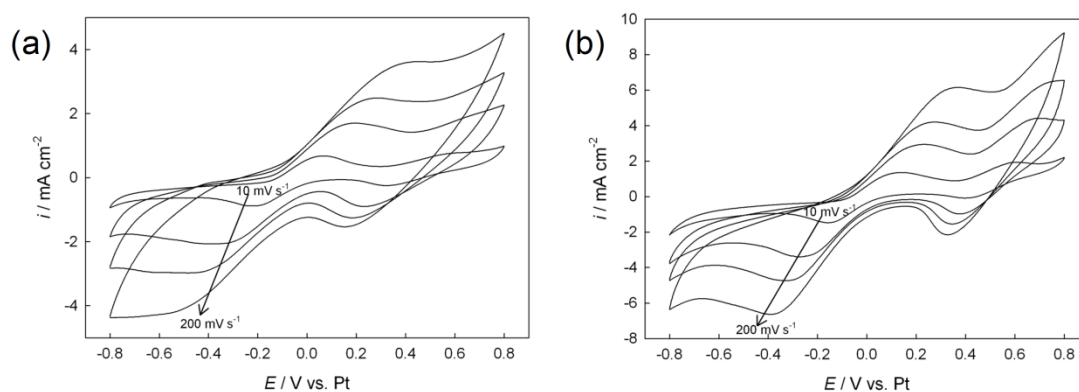


Figure S2 CVs of I₃⁻/I for (a) the MoS₂ and (b) MoS₂/RGO CE at various scan rates.

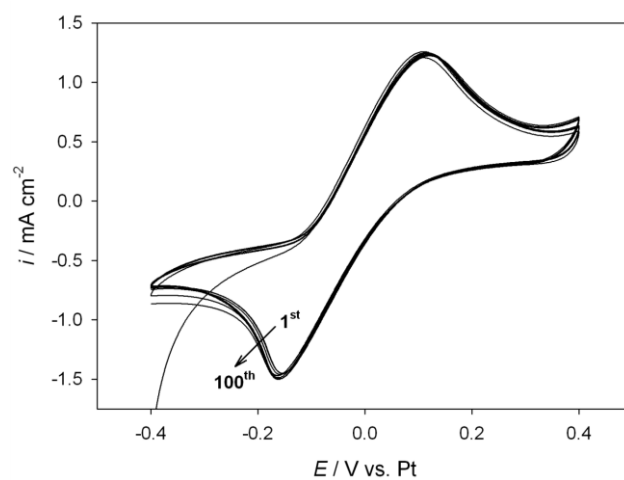


Figure S3 Consecutive 100 CVs of I₃⁻/I for MoS₂/RGO CE at a scan rate of 10 mV s⁻¹.

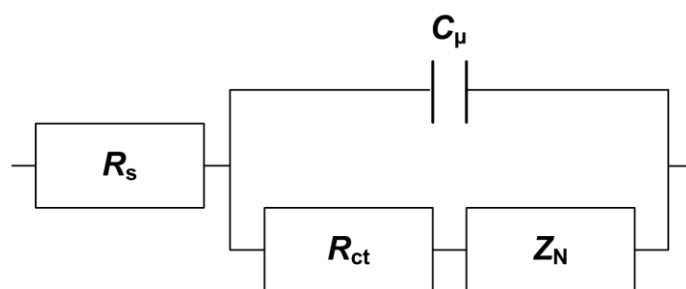


Figure S4 Equivalent circuit used for fitting the EIS results of the symmetric cells.

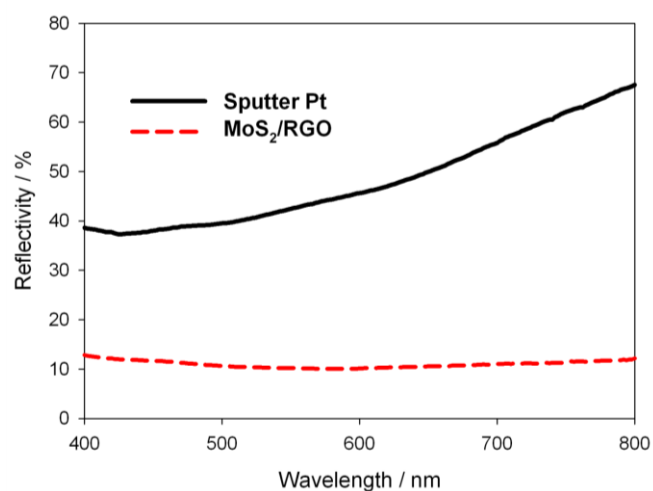


Figure S5 Reflection spectra of Pt and MoS₂/RGO CEs.

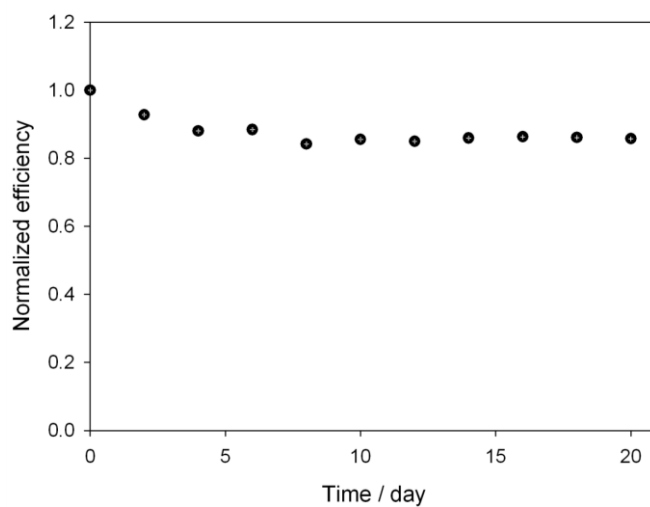


Figure S6 Stability test of the DSSC with MoS₂/RGO CE.