Supporting Information

Unsymmetrical squaraines with new linked manner for high-performance solution-

processed small-molecule organic photovoltaic cells[†]

Lin Yang,[‡]^a Daobin Yang,[‡]^{a,b} Yao Chen,^a Qian Luo,^a Mangang Zhang,^a Yan Huang,^{*}^a Zhiyun Lu,^{*}^a

Hisahiro Sasabe,*b and Junji Kidob

^a Key Laboratory of Green Chemistry and Technology (Ministry of Education), College of Chemistry, Sichuan University, Chengdu 610064, P. R. China. E-mail: huangyan@scu.edu.cn, luzhiyun@scu.edu.cn

^b Department of Organic Device Engineering, Yamagata University, 4-3-16 Jonan, Yonezawa, Yamagata 992-8510, Japan. Email: h-sasabe@yz.yamagata-u.ac.jp.

‡ The first two authors contributed equally to this work.

Contents

- 1. Figure S1. The ¹H NMR spectrum of BIBISQ.
- 2. Figure S2. The ¹³C NMR spectrum of BIBISQ.
- 3. Figure S3. The HRMS spectrum of BIBISQ.
- 4. Figure S4. The ¹H NMR spectrum of TIBISQ.
- 5. Figure S5. The ¹³C NMR spectrum of TIBISQ.
- 6. Figure S6. The HRMS spectrum of TIBISQ.

Figure S1. The ¹H NMR spectrum of **BIBISQ**.





Figure S2. The ¹³C NMR spectrum of BIBISQ.

Figure S3. The HRMS spectrum of BIBISQ.



Figure S4. The ¹H NMR spectrum of TIBISQ.







Figure S6. The HRMS spectrum of TIBISQ.

