

Supplementary information

Oxygen reduction reaction activity of an iron phthalocyanine/graphene oxide nanocomposite

Kenichiro Irida,^a Kazuto Hatakeyama,^{*b} Soichiro Yoshimoto,^b Michio Koinuma,^{*b} and Shintaro Ida^{*b}

- a. Graduate School of Science and Technology, Kumamoto University, 2-39-1 Kurokami, Chuo-ku, Kumamoto 860-8555, Japan.
- b. Institute of Industrial Nanomaterials (IINa), Kumamoto University, 2-39-1 Kurokami, Chuo-ku, Kumamoto 860-8555, Japan.

Corresponding author

ida-s@kumamoto-u.ac.jp

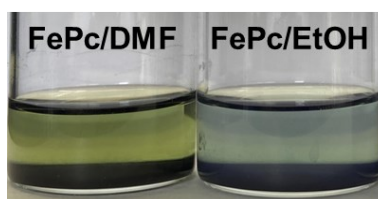


Fig. S1 Photographs of an FePc/ MtOH, FePc/DMF and FePc/CHCl₃ dispersion after 1 day.

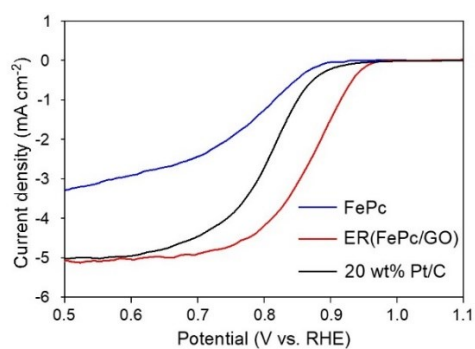


Fig. S2 ORR polarization curves of FePc, ER(FePc/GO), and 20 wt% PtC in O₂-saturated 0.1 M KOH.

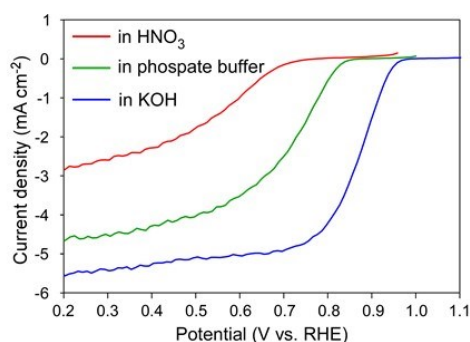


Fig. S3 ORR polarization curves of ER(FePc/GO) in O₂-saturated 0.1 M KOH, phosphate buffer and 0.1 M HNO₃.

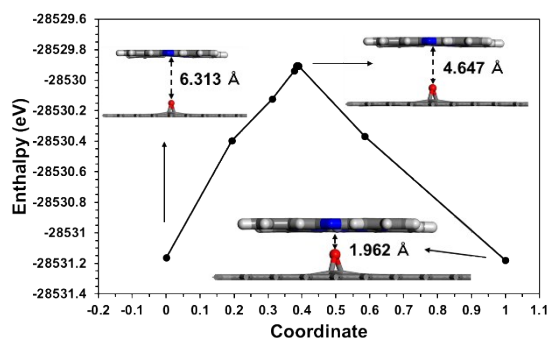


Fig. S4 Optimization of the distance between the Fe atom in FePc and an O atom on a graphene framework.