Electronic Supplemental Information

Magnetic purification of non-precious metal fuel cell catalysts for obtaining atomically dispersed Fe centers

Yuta Nabae,*^a Shinsuke Nagata ^a, Keizo Kusaba ^a, Tsutomu Aoki ^a, Teruaki Hayakawa ^a, Hajime Tanida ^b, Hideto Imai ^b, Katsuaki Hori ^c, Yuta Yamamoto ^d, Shigeo Arai ^d and Junya Ohyama ^e

^a Department of Materials Science and Engineering, Tokyo Institute of Technology, 2-12-1 S8-26, Ookayama, Meguro-ku, Tokyo 152-8552, Japan. E-mail: nabae.y.aa@m.titech.ac.jp

^b Device Analysis Department, NISSAN ARC, LTD., 1 Natsushima-cho, Yokosuka, Kanagawa 237-0061, Japan.

^c Ookayama Materials Analysis Division, Technical Department, Tokyo Institute of Technology, 2-12-1 S7-26, Ookayama, Meguro-ku, Tokyo 152-8552, Japan.

^d eInstitute of Materials and Systems for Sustainability, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, 464-8603, Japan.

^e Faculty of Advanced Science and Technology, Kumamoto University, 2-39-1 Kurokami, Chuo-ku, Kumamoto, 860-8555, Japan.



Figure S1. STEM dark field image of Fe(0.3)/PI_P obtained with JEOL-R005.



Figure S2. Results of (a) XRD, (b) X-ray absorption and (c) half-cell testing for Fe(0.5)/PI and Fe(0.5)/PI_P.