Electronic Supplementary Information

Effects of sulfur and nitrogen dual-doped Fe-N-S electrocatalyst for oxygen reduction in alkaline media

Hsin-Chih Huang,[a] Yu-Chuan Lin, [a] Sun-Tang Chang,[b] Chia-Chi Liu,[a] Kai-Chin Wang,[a] Huan-Ping Jhong,[a] Jyh-Fu Lee,[b] and Chen-Hao Wang*[a]

[a.] *Department of Materials Science and Engineering, National Taiwan University of Science and Technology, Taipei 10607, Taiwan.*

[b.] *National Synchrotron Radiation Research Center, Hsinchu 30076, Taiwan*

**Corresponding author, E-mail: chwang@mail.ntust.edu.tw*

Tel: +886-2-2730-3715; Fax: +886-2-2737-6544

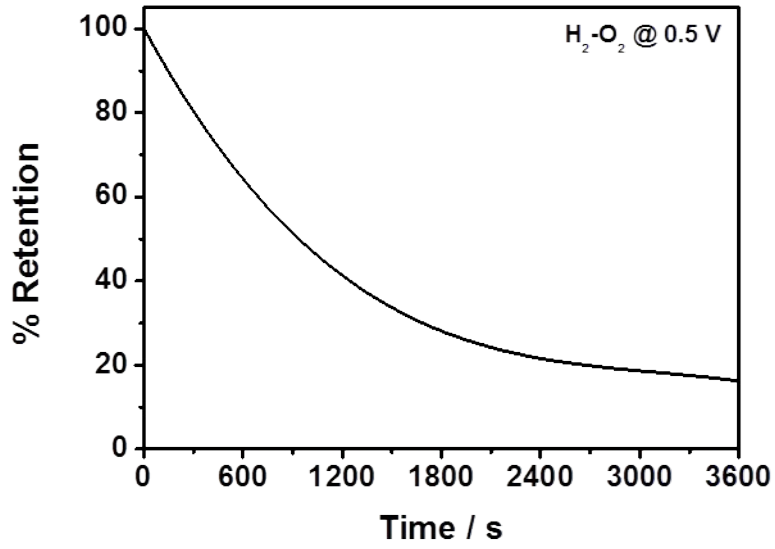

Fig. S1 The retention of Fe-M-LA/C-700 kept by constant potential of 0.5 V in H_2-O_2 AEMFC durability test.

Table S1 The elemental content for Fe-M-LA/C-700 from XPS fitting results.

Catalyst	Fe 2p atomic%	N 1s atomic%	S 2p atomic%	C 1s atomic%
Fe-M-LA/C-700	0.87	6.01	3.46	89.66

Table S2 The BET surface area and average pore size of Fe-M-LA/C-700, Fe-M/C-700, and Fe-LA/C-700.

Catalyst	BET surface area / m^2 g^{-1}	Average pore size / nm
Fe-M-LA/C-700	199.7	7.4
Fe-M/C-700	155.2	7.5
Fe-LA/C-700	113.7	9.4

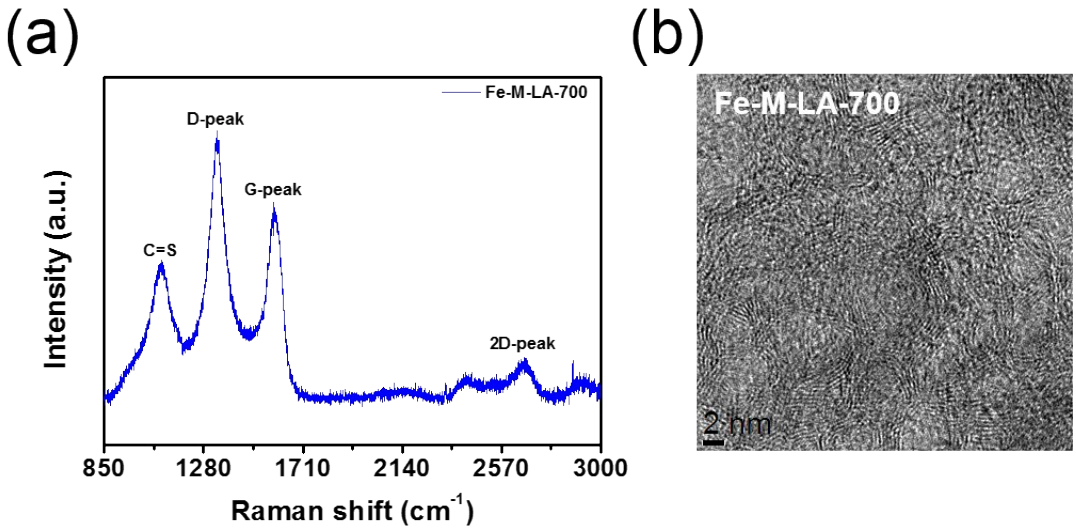

Fig. S2 (a) Raman spectrum and (b) TEM image of Fe-M-LA-700.