

Supporting Information

In-situ fabrication of cobalt sulfide decorated N, S co-doped mesoporous carbon and its application as electrocatalyst for efficient oxygen reduction reaction

V. Parthiban^{a,b}, P. V. Sruthibhai^a, Rahul S. Menon^{a,b}, Subhendu K Panda^{b,c}, and A. K. Sahu^{*,a,b}

^aCSIR - Central Electrochemical Research Institute-Madras Unit, CSIR Madras Complex, Taramani, Chennai 600113, India.

^bAcademy of Scientific and Innovative Research (AcSIR), Ghaziabad- 201002, India.

^cEMF Division, CSIR - Central Electrochemical Research Institute, Karaikudi-630003, India

***Corresponding author.** E-mail: aksahu@cecri.res.in, akhilakumar2008@gmail.com.

Phone: +91-44-22544554

Content

Fig. S1 BET Nitrogen adsorption-desorption isotherm of (a) MC, (b) Co₉S₈/N,S-MC-0.5, and (c) Co₉S₈/N,S-MC-1.5 catalysts. Inset images of each figure shows the corresponding pore size distribution analysis.

Table S1. Elemental composition obtained from the EDAX analysis of the Co₉S₈/N,S-MC-0.5 Co₉S₈/N,S-MC-1.0 and Co₉S₈/N,S-MC-1.5 catalyst

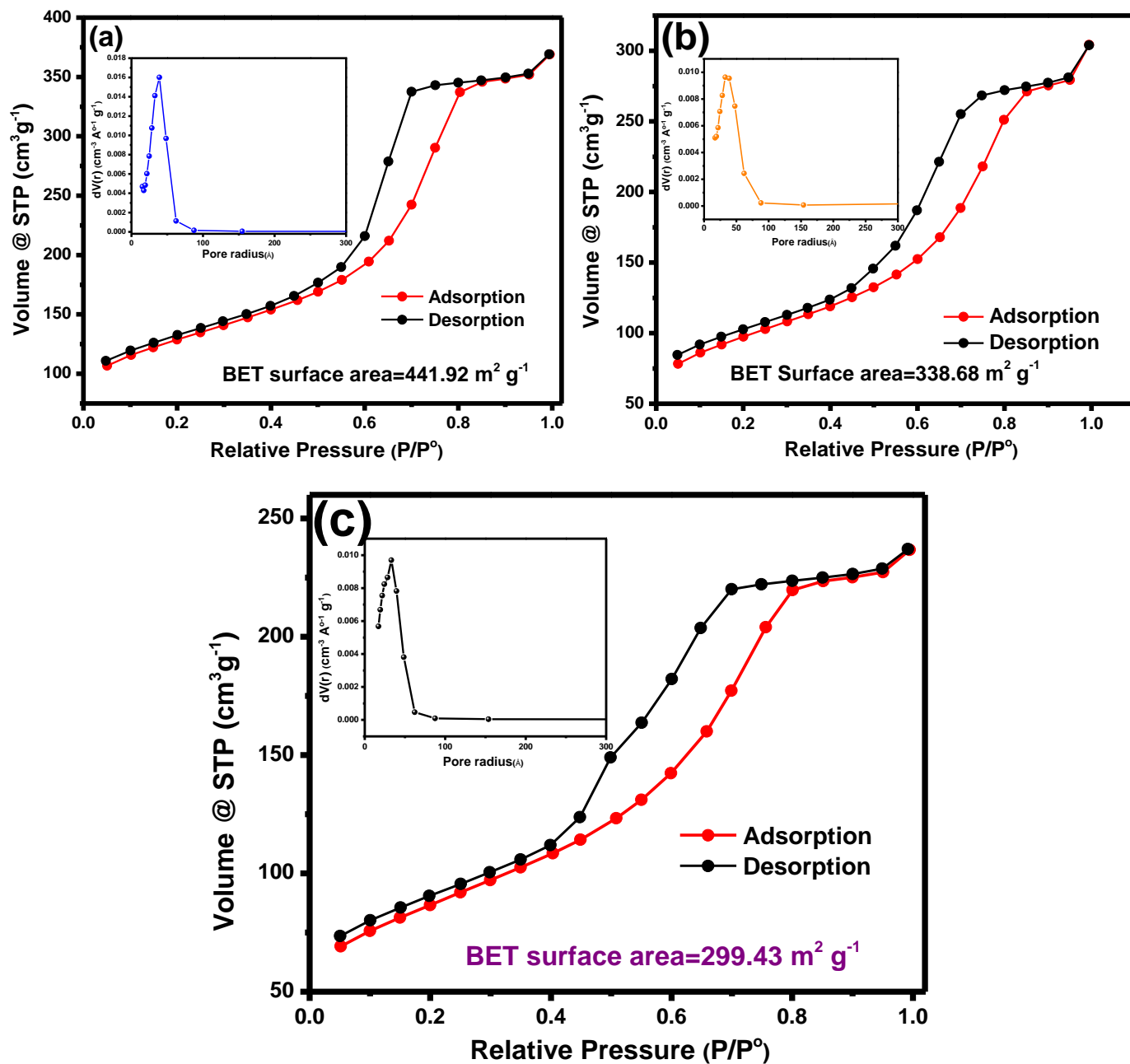


Fig. S1 BET Nitrogen adsorption-desorption isotherm of (a) MC, (b) $\text{Co}_9\text{S}_8/\text{N,S-MC-0.5}$, and (c) $\text{Co}_9\text{S}_8/\text{N,S-MC-1.5}$ catalysts. Inset images of each figure shows the corresponding pore size distribution analysis.

Table S1. Elemental composition obtained from the EDAX analysis of the Co₉S₈/N,S-MC-0.5 Co₉S₈/N,S-MC-1.0 and Co₉S₈/N,S-MC-1.5 catalyst

Catalyst	Co (At.%)	S (At.%)	N (At.%)	C (At.%)	O (At.%)
Co ₉ S ₈ /N,S-MC-0.5	0.01	0.15	0.58	95.86	3.40
Co ₉ S ₈ /N,S-MC-1.0	0.03	0.23	5.39	90.88	3.47
Co ₉ S ₈ /N,S-MC-1.5	0.14	0.69	3.46	92.23	3.48