

Supplementary Information

Rare-Earth Orthoferrites ($R\text{FeO}_3$, $R = \text{La}, \text{Y}$) as Next-Generation Electrode Materials for High-Performance Supercapacitors

Arshad Iqbal^a, Abdul Hakeem Anwer^b, Abdelbaki Benamor^{b,c}, Mohd Arshad^d, Naseem Ahmad^e,
Tahira Khatoon^{a*}, Nafees Ahmad^{e*}

^a Department of Physics, Integral University, Lucknow, 226026, India

^b Gas Processing Center, College of Engineering, Qatar University, P. O. Box 2713, Doha, Qatar,

^c Department of Chemical Engineering, College of Engineering, Qatar University, P.O.Box 2713, Doha, Qatar

^d Department of Physics, Aligarh Muslim University, Aligarh, 202002, India

^e Department of Chemistry, Integral University, Lucknow, 226026, India

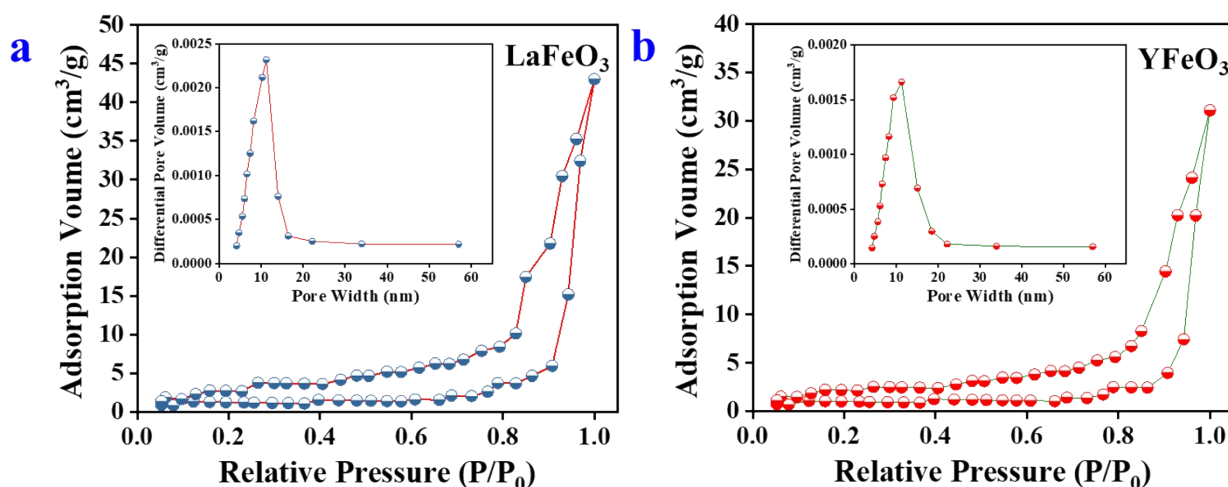


Figure S1. BET isotherm and pore size distribution of (a) LaFeO_3 and (b) YFeO_3 orthoferrites

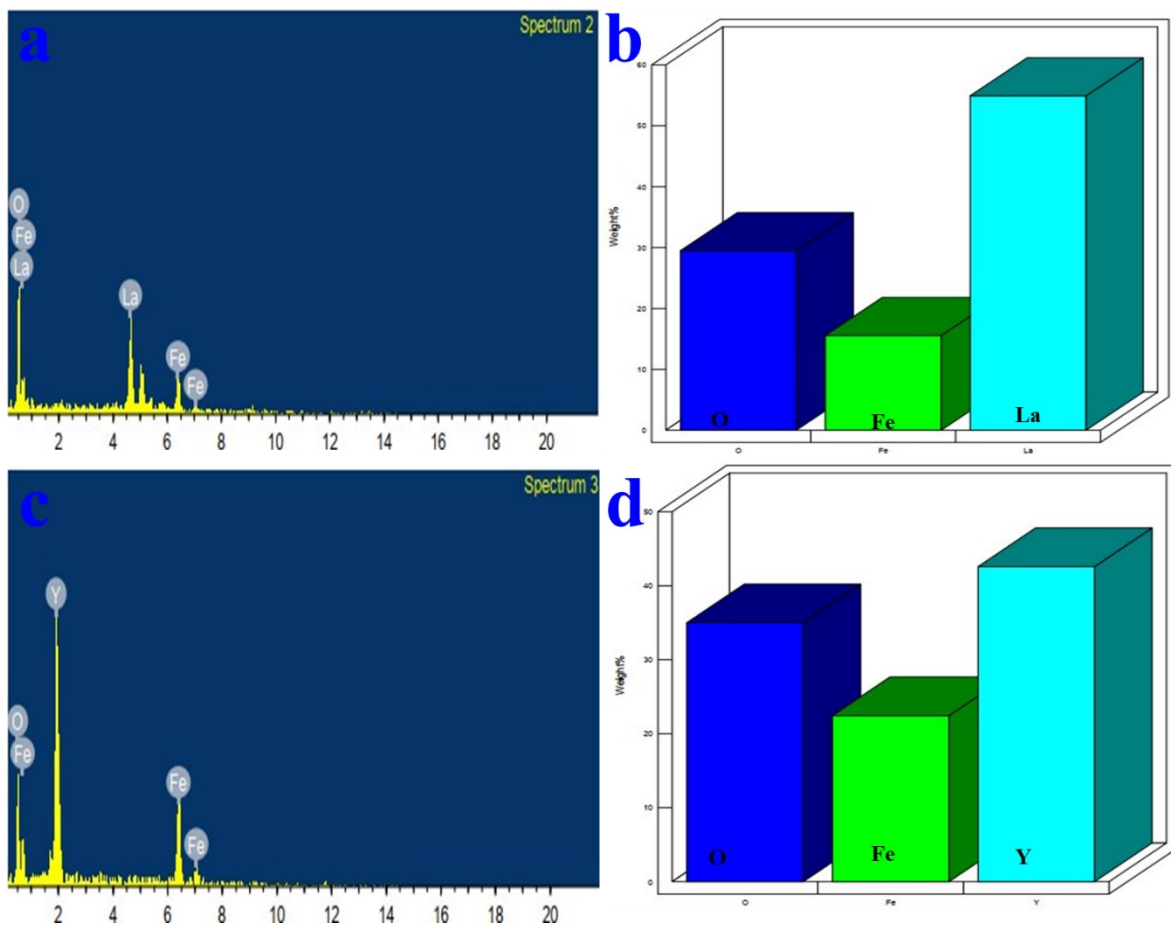


Figure S2. EDX spectra and the elemental composition of LaFeO₃ and YFeO₃ orthoferrites

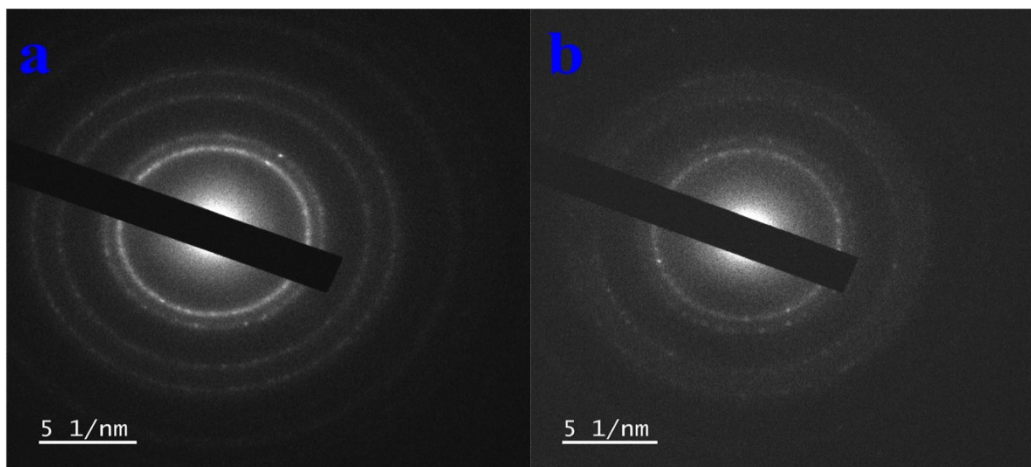


Figure S3. SAED pattern of (a) LaFeO₃ and (b) YFeO₃ orthoferrites

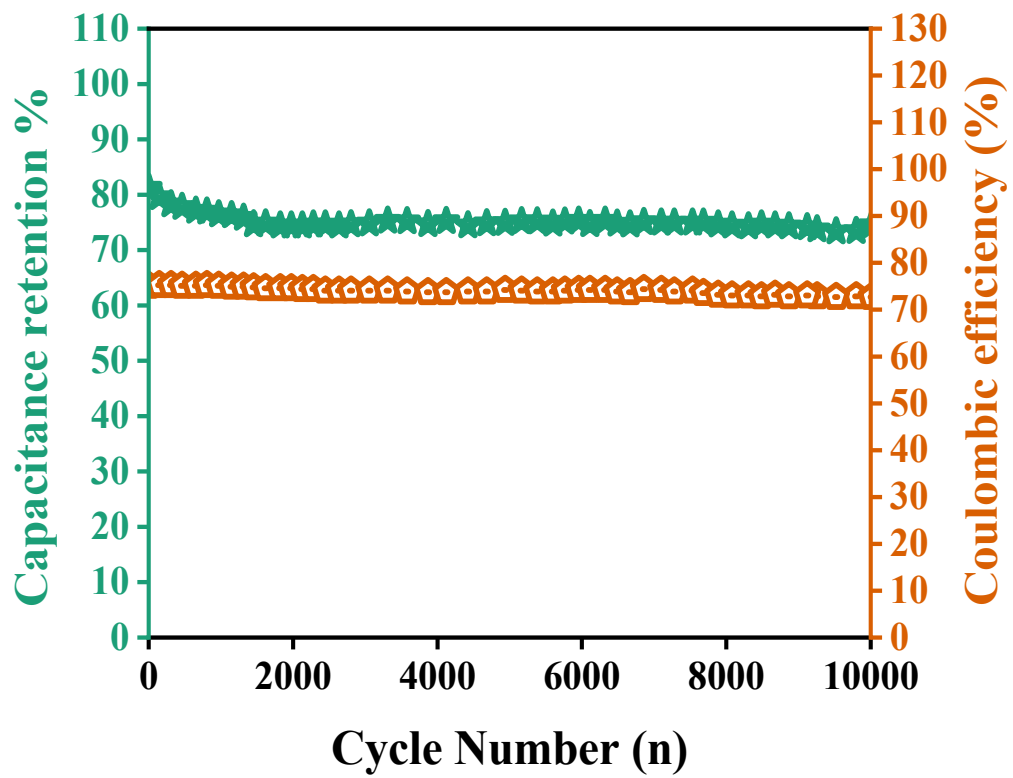


Figure S4. Cyclic stability of YFeO₃ till 10,000 cycles