

Fenton Test for Mesoporous Ceria-Silica Powder and Polymer Membranes

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We present oxidation stability of various kinds of mesoporous ceria-silicas and polymer composite membranes by fenton test. Fenton test of the samples that have different cerium contents and structure were performed during 0h, 12h, 24h, 48h, 60h. The samples taken fenton test and were investigated using SAXS, BET, Si-NMR, XPS, XRD and ICP for structure and change of cerium contents. The results showed the most effective cerium contents and structure of ceria-silica to oxidation stability.