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Study of impregnation method and its parameters on Cu/K/Al2O3 system for soot particulate oxidation

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Catalytic ceramic foam traps were prepared and tested for particulate diesel emission control. Al2O3 ceramic foams were developed through replication method and impregnated with an aqueous solution of catalyst precursor salts, Cu and K, which are active ingredients for soot combustion process. SEM-EDS, FRX, N2 absorption-desorption, TPR and TGA analyses have been carried out in order to evaluate the homogeneity, composition of the catalyst layer and temperature reduction of soot combustion.