

Synthesis of ordered mesoporous silica/ceria-silica composites and its high catalytic performance for solvent-free oxidation of benzyl alcohol at room temperature†

NabanitaPal,^{a,b} Eun-BumCho^{a,c*} and Dukjoon Kim^{b*}

^aDepartment of Fine Chemistry, Seoul National University of Science and Technology, Seoul 139-743, Korea. Fax: +82-2-970-6729; Tel: +82-2-970-6729; E-mail: echo@seoultech.ac.kr

^bDepartment of Chemical Engineering, Sungkyunkwan University, Suwon, Gyeonggi-do 440-746, Korea. Fax: +82-31-290-7272; Tel: +82-31-299-4707; E-mail: djkim@skku.edu

^cConvergence Institute of Biomedical Engineering and Biomaterials, Seoul National University of Science and Technology, Seoul 139-743, Korea.

Table S1. ICP-AES and analysis results for cerium quantification for mesoporous silica/ceria-silica samples.

Sample	Ce (ppm)	Ce (wt%)	SiO ₄ (wt%)	Ce (mmol/g)	Si (mmol/g)	Ce/Si
HSCS-10	165700	16.570	83.430	1.182	9.060	0.13
CSCS-10	161900	16.190	83.810	1.155	9.101	0.13

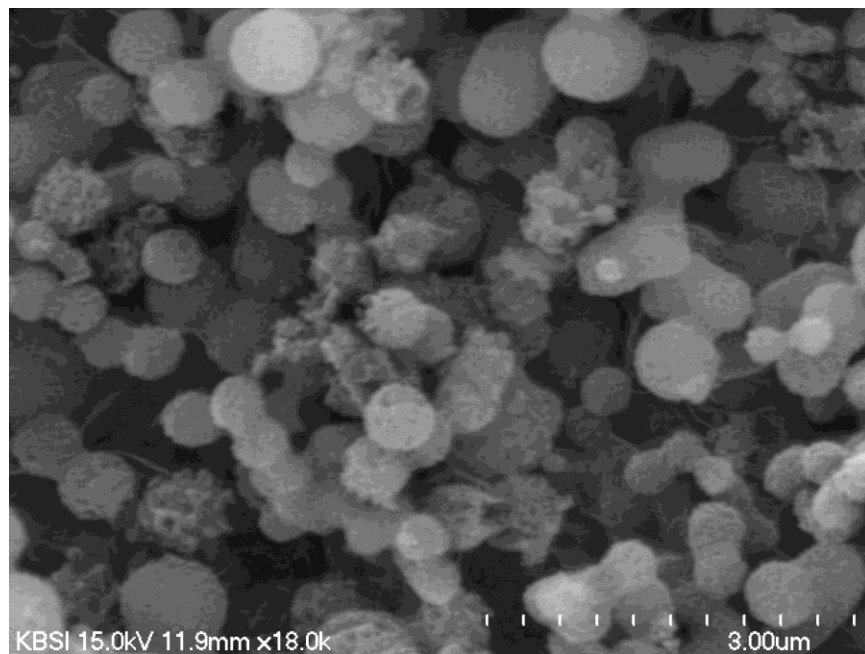


Fig. S1 SEM image for a HSCS-20 mesoporous silica/ceria-silica samples.