

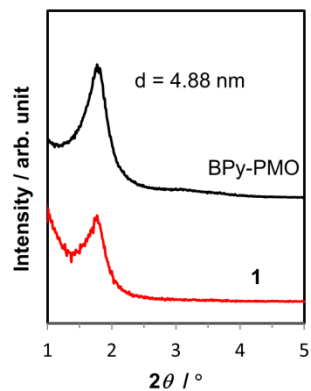


Title	Ruthenium-Immobilized Periodic Mesoporous Organosilica: Synthesis, Characterization, and Catalytic Application for Selective Oxidation of Alkanes
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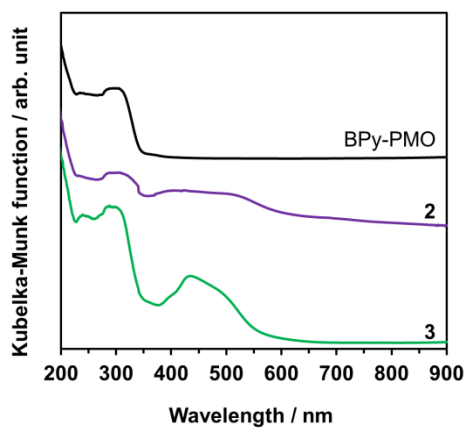


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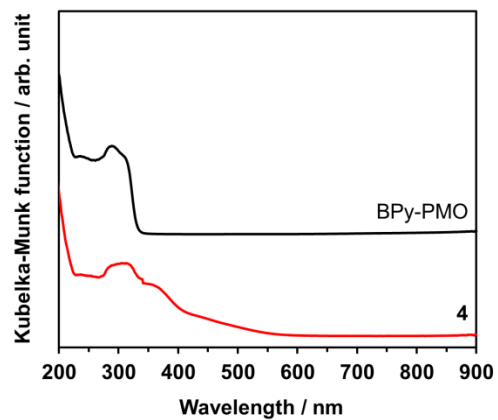
**Figures:**



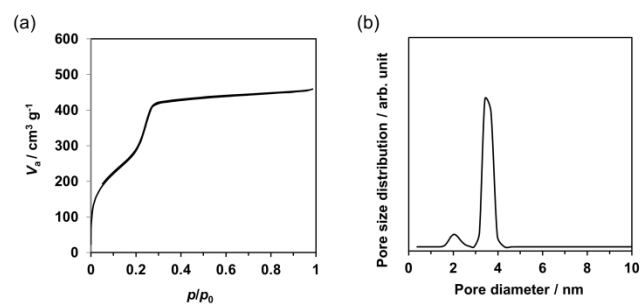
**Figure S1.** XRD patterns for **1** (red line) and BPy-PMO (black line).



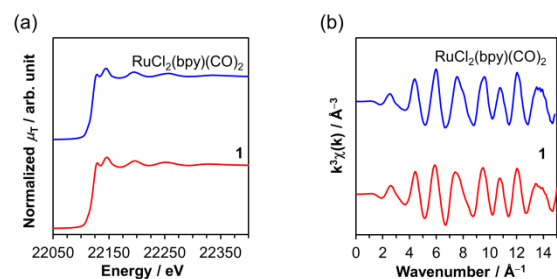
**Figure S2.** UV-vis DRS spectra of BPy-PMO (black), **2** (purple), and **3** (green).



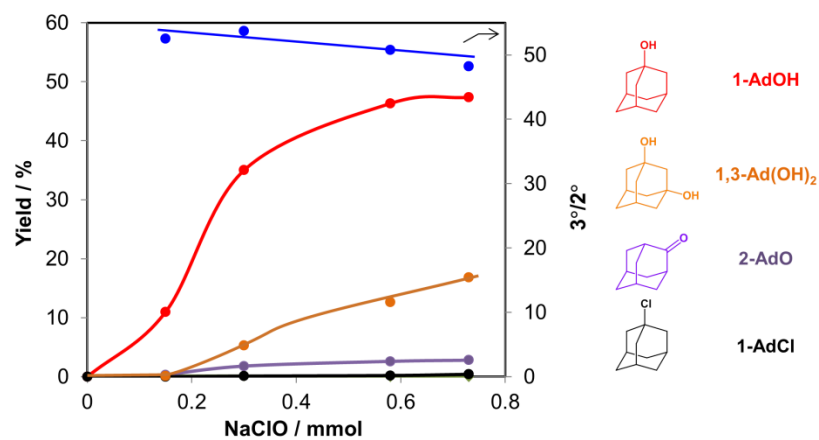
**Figure S3.** UV-vis DRS spectra of MCM-41 bearing BPy groups (black) and **4** (red).



**Figure S4.** (a) N<sub>2</sub> adsorption isotherm and (b) NLDFT pore diameter distribution for MCM-41 bearing BPy groups at 77 K.



**Figure S5.** (a) Ru K-edge EXAFS spectra and (b) EXAFS oscillation for **1** (red) and  $\text{RuCl}_2(\text{bpy})(\text{CO})_2$  (blue).



**Figure S6.** Time-course for the oxidation of adamantane over catalyst **1**.

