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Synthesis of Ruthenium-containing Polyoxomolybdate and Its Catalytic Features for Liquid-phase Oxidation Using Peroxo Compounds

Tomohiro Oonaka¹⁾, <u>Keiji Hashimoto</u>¹⁾, <u>Hiroshi Kominami</u>¹⁾, <u>Yoshio Matsubara</u>¹⁾ and <u>Yoshiya Kera</u>¹⁾

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Needle-like crystals of ruthenium-molybdenum polyoxometalate having a composition of $Na_4(NH_4)[RuMo_7O_{25}] - 8H_2O$ (RuMo7) were synthesized with high reproducibility. With cetylpyridinium cation, RuMo7 was modified and its catalytic features were evaluated using oxidation of cyclohexanol to cyclohexanone with t-butyl hydroperoxide or hydrogenperoxide (H_2O_2). The results indicated that RuMo7 exhibits high rate for the former reaction and that RuMo7 has high potential for H_2O_2 decomposition.

Keywords: Ruthenium molybdenum polyoxometalate, Oxidation catalyst, Cyclohexanol, *t*-Butyl hydroperoxide, Hydrogen peroxide

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