



第153回触媒化学研究センター談話会

演 題: Liquid Phase Oxidation and Epoxidation
Reactions over Supported Nano-Gold Catalysts

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15:00 - 16:30

会 場: 北海道大学理学部5号館304号室

要 旨: Supported nano-gold catalysts have recently attracted world-wide attention for their use as the effective oxidation catalysts. In this lecture, our very recent results on the selective epoxidation of styrene to styrene oxide by t-butyl hydroperoxide (TBHP) and oxidation of benzyl alcohol to benzaldehyde by TBHP and also by molecular oxygen over nano-gold supported on different metal oxides (viz. MgO, TiO₂, Al₂O₃, rare earth oxides, and other transition oxides) will be presented. The gold catalysts were prepared by depositing gold on the metal oxides by the precipitation-deposition methods; the later provided the catalysts with much higher gold loading and also having much higher activity in both the reactions.

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