

# 화학과 세미나

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## Tuning electronic structures and magnetic properties in metal-organic solids

Materials that combine magnetic order with other desirable physical attributes could find transformative applications in spintronics, quantum sensing, low-density magnets, and gas separations. Among potential multifunctional magnetic materials, metal-organic solids, in particular, vast chemical and structural programmability and tunable physical properties. Nevertheless, magnetic order within these materials has generally been limited to low temperatures, owing largely to challenges in creating a strong magnetic exchange. In this presentation, I will discuss recent efforts on designing high-temperature metal-organic magnets. Further, I will demonstrate some approaches, including ligand and metal substitution and redox reaction, to finely tune their electronic structures and magnetic properties.

Date : 2025년 3월 13일 (목) 오후 4시

Venue : 과학관 B133호

Host : 연세대학교 화학과



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