

iCeMS Kitagawa Group Seminar



Assoc. Prof. Jia-Jia Zheng

*The National Center for Nanoscience
and Technology of China*

“Accelerating Catalytic Nanomedicine Discovery through Computation and Machine Learning”

[You can find more information
here \(click or scan\)](#)

Date: April 28th, 2025
Time: 16:00-17:00
Place: 2F Seminar room,
iCeMS main bldg.



Abstract: Nanomaterials hold great promise for enhancing therapeutic efficacy and minimizing drug side effects, yet their structural complexity makes identifying suitable candidates challenging. This talk outlines our approach to exploring surface-catalyzed reactions of inorganic nanomaterials for safe, effective medical use. By integrating chemical insights, predictive models, computational screening, and experimental validation, we accelerate the discovery of catalytic nanomaterials. Validated through wet chemistry and demonstrated in antibacterial applications, our framework also leverages AI to further streamline nanomedicine development.