

## Ionic Liquids for Colloids and Materials for Sustainable Development Goals



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**工学部1号館10階 1101講義室**

**16:30–17:30, Wed., 3<sup>rd</sup> July, 2024**

**1101 Lecture Room, 10F, Eng. Building No. 1**

Kang博士は表面活性イオン液体 (SAILs) の自己組織化を用いたコロイド形成や材料開発を活発に展開されている新進気鋭の研究者です。JSPS外国人招へい研究者として来日中で、この度名古屋にお招きし、セミナーを開催いたします。ご参加いただければ幸いです。

During this talk, the basic properties of Ionic liquids (ILs), their tailormade nature and diverse applications will be discussed. Following that the self-assembling behavior of Surface-Active Ionic Liquids (SAILs),<sup>1a</sup> which shows surface active properties better than many of the conventional ionic surfactants and their utility to create diverse colloids in conjunction with biopolymers will be discussed.<sup>1b</sup> At last, the usefulness of SAILs for preparing variety of photo-catalytically active nano-materials<sup>1c</sup> along with utility of novel neoteric deep eutectic solvents towards sustainable developmental goals will be highlighted.<sup>1d</sup>

1. (a) T. S. Kang et. al., *Chem Commun.* **2018**, 54, 2432; (b) *Chem. Rev.* **2024**, 124, 3037; (c) *J. Mater. Chem. A* **2019**, 7, 5185; (d) *Green Chem.* **2022**, 24, 2953.

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