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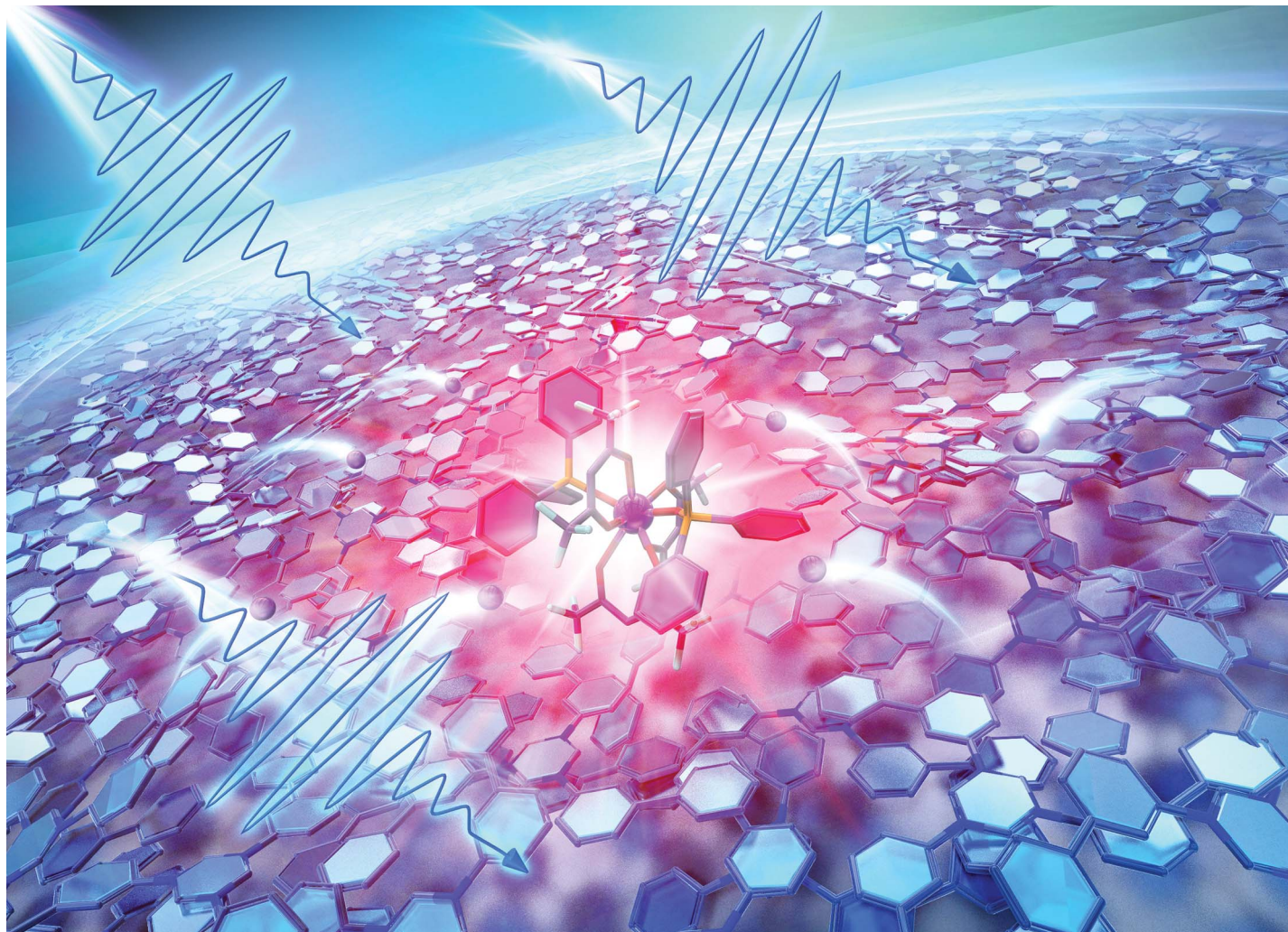
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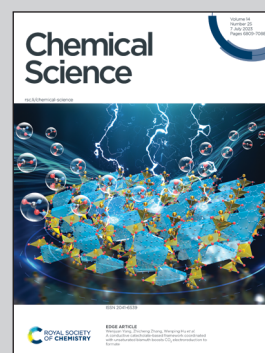


Showcasing research from Professor Ken Onda's laboratory, Department of Chemistry, Kyushu University, Fukuoka, Japan.

Highly efficient light harvesting of a Eu(III) complex in a host-guest film by triplet sensitization

We have lighted up a trivalent europium (Eu(III)) complex intensively in a host-guest thin film, which exhibits a very narrow-band red emission. Luminescent Eu(III) complexes are generally made using organic ligands that absorb light strongly, but it is difficult to design such ideal ligands. We have fabricated a simple thin film composed of a host molecule that absorbs light strongly and a guest Eu(III) complex, and achieved a photoluminescence intensity 400 times higher than that of the Eu(III) complex. We have also revealed the detailed light harvesting mechanism using time-resolved spectroscopies.

As featured in:



See Kiyoshi Miyata, Ken Onda *et al.*, *Chem. Sci.*, 2023, **14**, 6867.