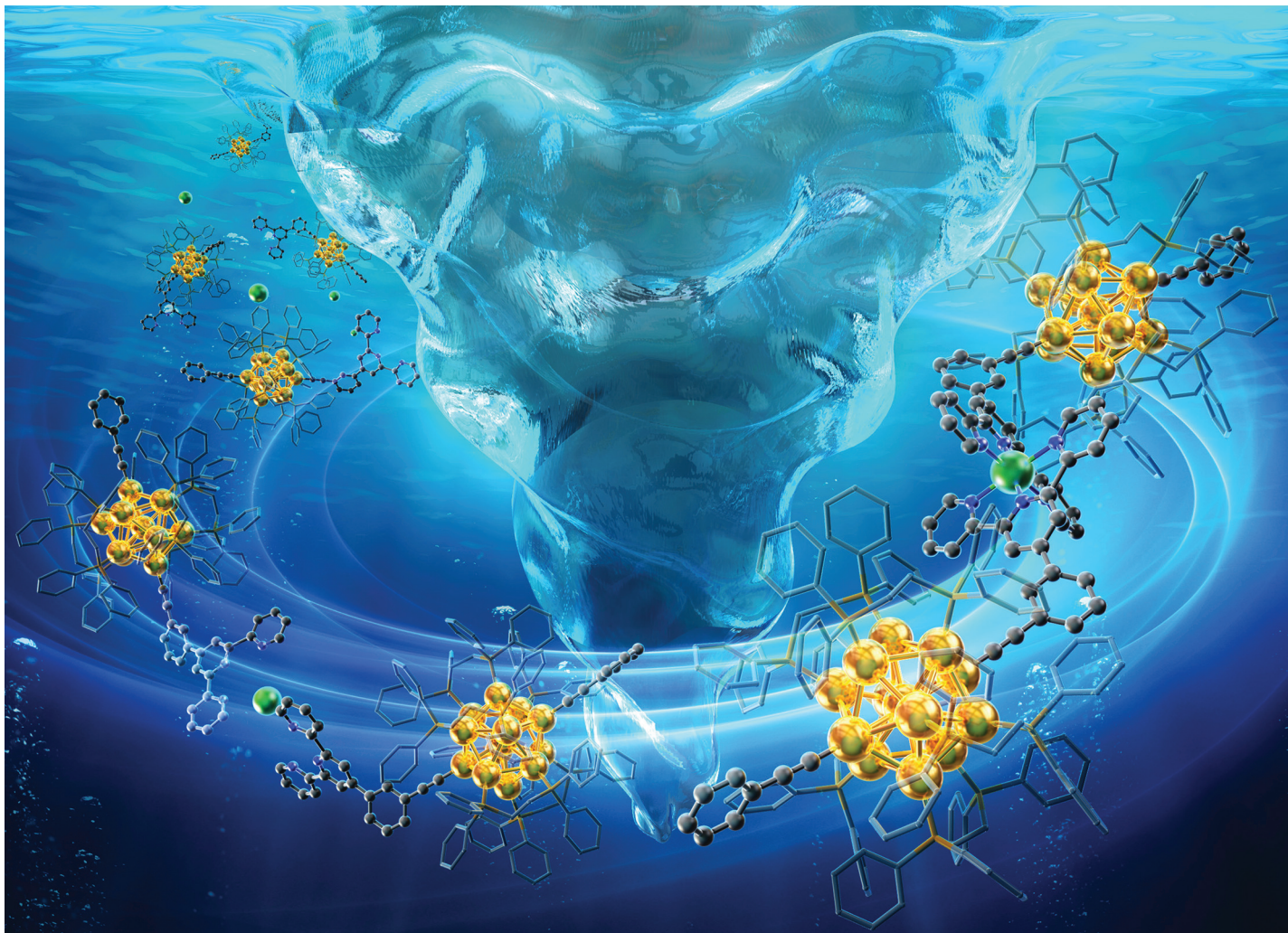


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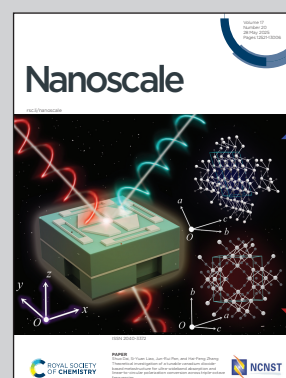
**Showcasing research from Prof. Yuichi Negishi's laboratory,
Tohoku University, Japan.**

Synthesis of Au_{13} -based building block clusters for
programmed dimer formation and Au_{13} cluster dimer
photoexcitation properties

This study demonstrates that the introduction of two types
of ligands—chelating ligands that coordinate to the Au_{13}
cluster surface and end-capping ligands that suppress
polymerization—enable the synthesis of building block
molecules which are programmed to selectively and
spontaneously form Au_{13} -based dimers upon the addition of
metal ions. In the Au_{13} -based dimer, the rapid intramolecular
photoinduced charge transfer occurred even with only a
small driving force.

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Nanoscale, 2025, **17**, 12695.

As featured in:



See Yoshiki Niihori, Yuichi Negishi
et al., *Nanoscale*, 2025, **17**, 12695.