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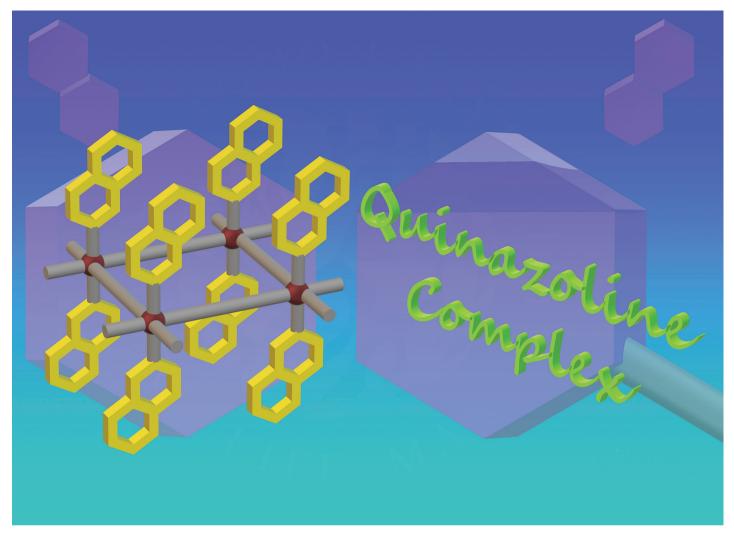
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Showcasing research from Professor Kitazawa's laboratory, Department of Chemistry, Toho University, Chiba, Japan.

Soma-Iwamoto-type SCO complex $Fe(quinazoline)_2[Au(CN)_2]_2$ using the quinazoline-type ligand

In our current work, we have synthesized a novel Somalwamoto-type complex, Fe(quinazoline) $_2$ [Au(CN) $_2$] $_2$. This complex shows the Soma-Iwamoto-type bilayer with Au-Au interactions and a gradual spin-crossover (SCO) phenomenon. A small amount of crystals of Fe(H $_2$ O) $_2$ (quinazoline) $_2$ [Au(CN) $_2$] $_2$ has also been obtained, using the filter method, and found to have a mononuclear structure with a hydrogen-bonding network. The difference between these structures can be explained by the difference between the concentrations of the quinazoline ligand during their syntheses.



