

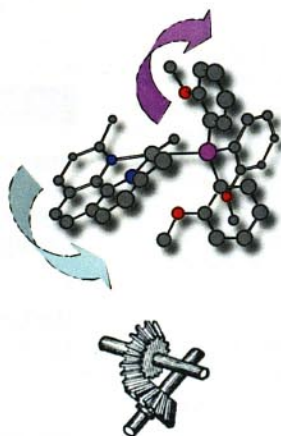
Reprint

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Synchronized Motion of Ligands

Overcrowded Organometallic Platinum(II) Complexes That Behave as Molecular Gears



In gear: Dynamic ^1H NMR studies on some organometallic platinum(II) compounds reveal a synchronism between rotation around the Pt–P bond and the oscillation of a phenanthroline ligand between two nonequivalent exchanging sites. The system behaves as a molecular-sized analogue of a mechanical gear (see picture; C gray, N blue, O red, P purple) whose dynamic properties can be tuned through small structural changes.

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