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#### **Zinc complexes**

DNA-Binding Study of Nickel(II) and Zinc(II) Complexes with Two Novel Chromenone-Based *Schiff*-Base Ligands, 525

Effects of Zinc(II) on the Luminescence of Europium(III) in Complexes Containing  $\beta$ -Diketone and *Schiff* Bases, 2565