

The measurement of circularly polarized luminescence from racemic lanthanide complexes prepared in sol-gels.

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Streszczenie

Circularly polarized luminescence (CPL) has been measured from rigid sol-gels containing racemic D_3 complexes of Eu(III) with 2,6-pyridine-dicarboxylate (DPA) and oxydiacetate (ODA). These complexes occur in solution and sol-gels as racemic mixtures. CPL was generated from the racemic mixture by preparing a non-racemic excited state through circularly polarized excitation. The CPL measured from the sol-gel containing $\text{Eu}(\text{DPA})_3^{3-}$ is significantly less from that measured in solution. This result is interpreted in terms of the effects of concentration depolarization.

Słowa kluczowe

Circularly polarized luminescence, Racemic lanthanide complexes, Sol-gels

Adres publiczny

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