



Chirality effect on spectroscopy of dimeric lanthanide single crystals.

Autorzy

Janina Legendziewicz

Zbigniew Ciunik

Paula Gawryszewska

Jerzy Sokolnicki

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Streszczenie

Two series of Pr and Eu dimeric single crystals with l- and dl-isoleucine were obtained. The effect of the ligand chirality on the structure of the dimeric units was investigated. Well-resolved absorption, excitation and luminescence measurements on single crystals of these compounds as well as diluted systems down to 5 K are reported and analysed. Cooperative interaction is considered and vibronic lines are assigned based on vibrational analysis. The nature of the cooperative interaction in the praseodymium single crystals is briefly discussed.

Słowa kluczowe

Spectroscopy, Luminescence, Absorption, Cooperative interaction, Vibronic coupling, Chirality effect

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