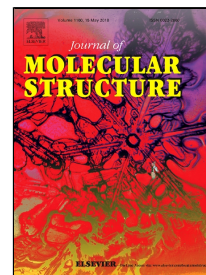


# Accepted Manuscript

Structural and spectroscopic properties of lead phosphate glasses doubly doped with Tb<sup>3+</sup> and Eu<sup>3+</sup> ions

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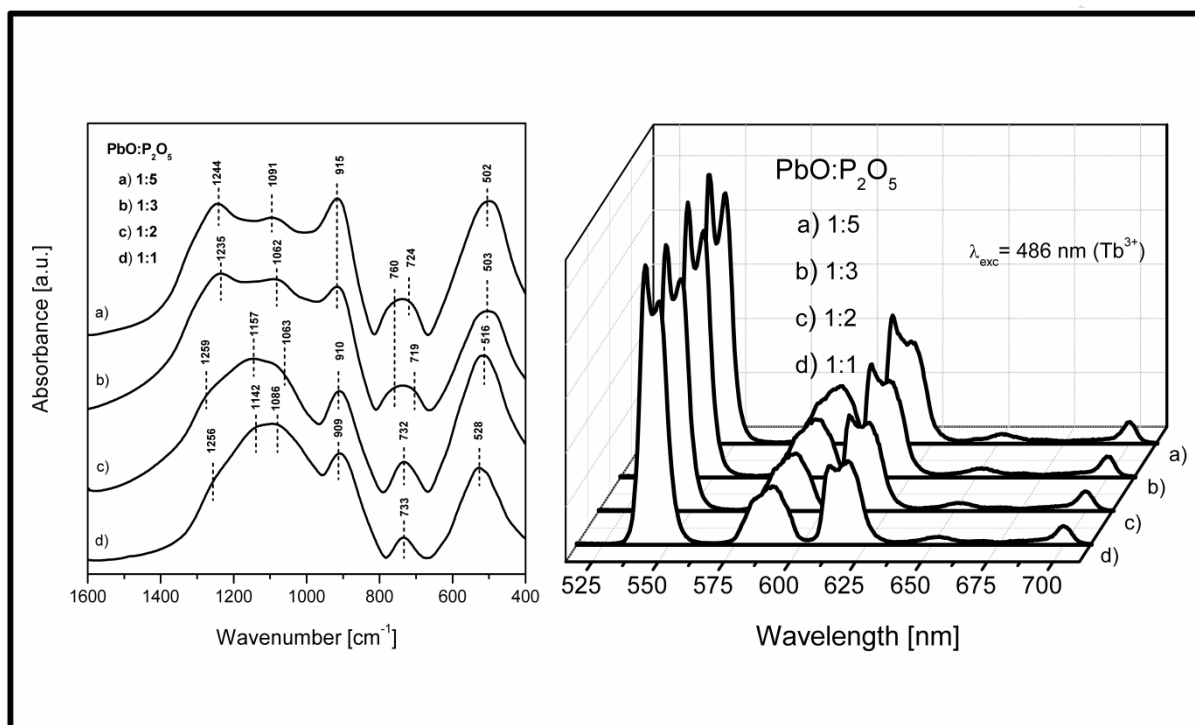


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The areas of the FT-IR bands related to all stretching modes of the P-O bonds strongly depend on the relative ratio of the PbO and the  $P_2O_5$  components. Several luminescence bands associated to characteristic transitions of trivalent europium and terbium are observed under direct excitation of  $Tb^{3+}$  ions. It indicates that the energy transfer process from  $Tb^{3+}$  to  $Eu^{3+}$  in lead phosphate glasses occurs.



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