La – Ti, Zr, Hf

La_2TiO_5 1980

Porotnikov N.V., etal

колеб. Zh. Neorg. Khim., 1980,
спектр. 25(8), 2072-81.
сил. пост.

● (см In_2TiO_5) III

$La_2Zr_2O_7$
$La_2Hf_2O_7$

1981

$Nd_2Zr_2O_7$
$Nd_2Hf_2O_7$

95: 32666z **Normal coordinate analysis of pyrochlore-structure (lanthanum or neodymium) (hafnium or zirconium) oxides.** Vandenborre, N. T.; Husson, E.; Brusset, H. (Inst. Chim., Ec. Cent. Arts Manuf., 92290 Chatenay-Malabry, Fr.). *Spectrochim. Acta, Part A* 1981, 37A(2), 113-18 (Fr). The vibrational assignments of $M_2M^1_2O_7$ (M = La, Nd; M^1 = Zr, Hf) with the pyrochlore structure were proposed. A normal coordinate anal. of known spectral results was made and force consts. were calcd.

Vi; сил. пост.

(+1) (X)

C.A. 1981. 95 N4

$La_2Ti_2O_7$ 1983

98: 224514g **Rare-earth titanates and stannates of pyrochlore structure; vibrational spectra and force fields.** Vandenborre, M. T.; Husson, E.; Chatry, J. P.; Michel, D. (Lab. Spectrochim. Solide, Univ. P. et M. Curie, 75230 Paris, Fr.). *J. Raman Spectrosc.* 1983, 14(2), 63–71 (Eng). IR absorption and polarized Raman spectra of rare-earth titanates of pyrochlore structure $Ln_2Ti_2O_7$ (Ln = Sm, Gd, Yb; Y) and $Ln_2Sn_2O_7$ (Ln = La, Sm, Gd, Yb, Lu; Y) were recorded. A valence force field calcn. clearly supports the assignment of the frequencies. A comparison of the results with those of homologous zirconates and hafnates is presented.

Vi, сил. пост.

15

C. A. 1983, 98, N 26