

La-Ti, Zr, Hf

La_2TiO_5

1980

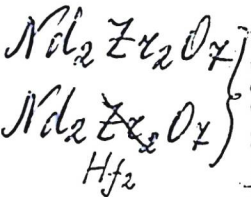
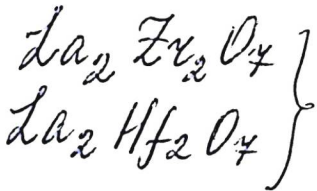
Porotnikov N.V., et al

колеб.
спектр.
сильн. погл.

Zh. Neorg. Khim., 1980,
25(8), 2072-81.

● (соединение In_2TiO_5) III.

1981



95: 32666z Normal coordinate analysis of pyrochlore-structure (lanthanum or neodymium) (hafnium or zirconium) oxides. Vandenberg, 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 $\text{M}_2\text{M}'_2\text{O}_7$ ($\text{M} = \text{La}, \text{Nd}$; $\text{M}' = \text{Zr}, \text{Hf}$) with the pyrochlore structure were proposed. A normal coordinate anal. of known spectral results was made and force consts. were calcd.

Vi; eua. noet.

(+1) (A)

C.A. 1981. 95 N 4

$\text{La}_2\text{Ti}_2\text{O}_7$

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 $\text{Ln}_2\text{Ti}_2\text{O}_7$ (Ln = Sm, Gd, Yb; Y) and $\text{Ln}_2\text{Sn}_2\text{O}_7$ (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, C.A. 1983

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C.A. 1983, 98, N 26