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Theoretical Study of p-nitrophenol Acetylation catalyzed by Co²⁺ ions

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A new defect pyrochlores compounds $(\text{NH}_{4+})_{0.36}\text{Ln}_x\text{Sb}_2\text{O}_{6+y}$ (with Ln = Gd₃₊, Eu₃₊ and 0<x, y<1) have been synthesised by ion-exchange reaction from the sodium compounds $\text{Na}_{0.36}\text{Ln}_x\text{Sb}_2\text{O}_{6+y}$. The crystal structure of $(\text{NH}_{4+})_{0.36}\text{Ln}_x\text{Sb}_2\text{O}_{6+y}$ was determined by Rietveld analysis from powder X-ray diffraction patterns and further confirmed by infrared spectroscopy and MAS-NMR measurements. In these structure the ammonium ion have been located at the 8b (3/8 3/8 3/8) positions of space group F d-3m. This result it is analogues to the structure of corresponding an rubidium compounds $\text{Rb}_{0.42}\text{Ln}_x\text{Sb}_2\text{O}_{6+y}$.

Biography

A. El Haimouti, Full Professor at FPK (Morocco). He received his Doctorate in Solid State Chemistry in 2003 on chemistry inorganic. He has since been a post doc Blaise Pascal (French). He has strong skills in Extreme Conditions, Crystal Chemistry, Crystallography, Raman and Infrared Spectroscopies. Mr. El Haimouti has developed two large subjects : defect pyrochlore, exchange method.

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