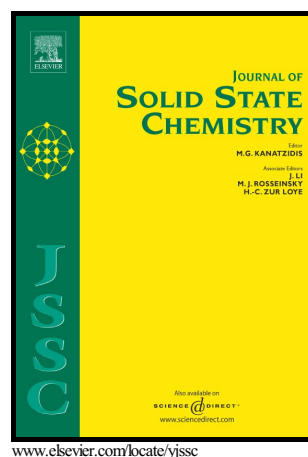


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Kagomé lattice

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PII: S0022-4596(17)30263-3
DOI: <http://dx.doi.org/10.1016/j.jssc.2017.07.011>
Reference: YJSSC19861

To appear in: *Journal of Solid State Chemistry*

Received date: 23 April 2017
Revised date: 30 June 2017
Accepted date: 7 July 2017

Cite this article as: Li-Chen Liu, Wei-Jian Ren, Ya-Xi Huang, Yuanming Pan and Jin-Xiao Mi, Canted antiferromagnetism in $\text{KNi}_3[\text{PO}_3(\text{F},\text{OH})]_2[\text{PO}_2(\text{OH})_2]\text{F}_2$ with a stair-case Kagomé lattice, *Journal of Solid State Chemistry*, <http://dx.doi.org/10.1016/j.jssc.2017.07.011>

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Canted antiferromagnetism in $\text{KNi}_3[\text{PO}_3(\text{F},\text{OH})]_2[\text{PO}_2(\text{OH})_2]\text{F}_2$ with a stair-case Kagomé lattice

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ABSTRACT

A new nickel phosphate $\text{KNi}_3[\text{PO}_3(\text{F},\text{OH})]_2[\text{PO}_2(\text{OH})_2]\text{F}_2$ has been synthesized using a modified hydrothermal method. Structural characterizations show that it adopts a 3D framework structure with 2D layers of Ni octahedra in a stair-case Kagomé lattice. The Ni2 octahedron at the inversion center shares two *trans*-faces with Ni1 octahedra to form a linear trimer ($\text{Ni}_3\text{O}_8\text{F}_6$) as the basic structural unit. The Ni-trimers are linked between themselves by sharing F-corners and to $[\text{PO}_3(\text{F},\text{OH})]$ tetrahedral groups by sharing

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