Syntheses, Crystal Structures of A Series of Novel Alkali Metal or Alkaline Earth Metal Phosphites

Xi-Jia Wang, Jian-Han Zhang, Jun-Ling Song, Fang Kong and Jiang-Gao Mao*

Supporting Information

Figure S1. Simulated and measured XRD powder patterns of (a) NaIn₃(HPO₄)₅(H₂O)₄, (b) RbIn(HPO₄)₂, (c) CsIn(HPO₄)₂, (d) Ba₃Al₂(HPO₄)₆, (e) Ba₃Ga₂(HPO₄)₆ and (f) Ba₃In₂(HPO₄)₆.

Figure S2. Views of RbIn(HPO₄)₂ (a) and CsIn(HPO₄)₂ (b) down the b axis. All H atoms are omitted for clarity.

Figure S3. UV-Vis absorption spectra of Ba₃Al₂(HPO₄)₆, Ba₃Ga₂(HPO₄)₆ and Ba₃In₂(HPO₄)₆.

Figure S4. IR spectra of (a) NaIn₃(HPO₄)₅(H₂O)₄, (b) RbIn(HPO₄)₂ (c) CsIn(HPO₄)₂ (d) Ba₃Al₂(HPO₄)₆, (e) Ba₃Ga₂(HPO₄)₆ and (f) Ba₃In₂(HPO₄)₆.
Figure S1. Experimental and simulated powder X-ray diffraction patterns for (a) NaIn$_3$(HPO$_3$)$_5$(H$_2$O)$_4$, (b) RbIn(HPO$_3$)$_2$, (c) CsIn(HPO$_3$)$_2$, (d) Ba$_3$Al$_2$(HPO$_3$)$_6$, (e) Ba$_3$Ga$_2$(HPO$_3$)$_6$ and (f) Ba$_3$In$_2$(HPO$_3$)$_6$. 
Figure S2. Views of RbIn(HPO$_3$)$_2$ (a) and CsIn(HPO$_3$)$_2$ (b) down the $b$ axis. All H atoms are omitted for clarity.

Figure S3. UV absorption spectra of Ba$_3$Al$_2$(HPO$_3$)$_6$, Ba$_3$Ga$_2$(HPO$_3$)$_6$ and Ba$_3$In$_2$(HPO$_3$)$_6$. 

Electronic Supplementary Material (ESI) for CrystEngComm
This journal is © The Royal Society of Chemistry 2013
(a) 

(b)
Figure S4. The infrared spectra of NaIn$_3$(HPO$_3$)$_5$(H$_2$O)$_4$ (a), RbIn(HPO$_3$)$_2$ (b), CsIn(HPO$_3$)$_2$ (c), Ba$_3$Al$_2$(HPO$_3$)$_6$ (d), Ba$_3$Ga$_2$(HPO$_3$)$_6$ (e) and Ba$_3$In$_2$(HPO$_3$)$_6$ (f).