K₄TM₄(V₂O₇)₂(IO₃)₄(H₂O) (TM = Zn, Ni, Co): A Series of Quinary Mixed Metal Vanadium(V) Iodates

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Supporting Information

Figure S1. X-ray diffraction powder patterns for K₄TM₄(V₂O₇)₂(IO₃)₄(H₂O) (TM = Zn, Ni, Co): Simulated, experimental and after thermal treatment at 350 °C for 2 hrs.

Figure S2. Powder X-ray diffraction studies for the thermal decomposition products of K₄TM₄(V₂O₇)₂(IO₃)₄(H₂O) (TM = Zn, Ni, Co) (800 °C, 2 hrs).

Figure S3. Infrared Vibrations (cm⁻¹) for K₄TM₄(V₂O₇)₂(IO₃)₄(H₂O) (TM = Zn, Ni, Co).

Figure S4. UV absorption spectra for K₄TM₄(V₂O₇)₂(IO₃)₄(H₂O) (TM = Zn, Ni, Co).
(a) K₄Zn₄(V₂O₇)₂(IO₃)₄(H₂O)

(b) K₄Ni₄(V₂O₇)₂(IO₃)₄(H₂O)
Figure S1. X-ray diffraction powder patterns for $K_4TM_4(V_2O_7)_2(IO_3)_4(H_2O)$ (TM = Zn, Ni, Co): Simulated, experimental and after thermal treatment at 350 °C for 2 hrs.
Figure S2. Powder X-ray diffraction studies for the thermal decomposition products of K₄TM₄(V₂O₇)₂(IO₃)₄(H₂O) (TM = Zn (a), Ni (b), Co (c)) (800 °C, 2 hrs).

Figure S3. Infrared Vibrations (cm⁻¹) for K₄TM₄(V₂O₇)₂(IO₃)₄(H₂O) (TM = Zn, Ni, Co).
Figure S4. UV absorption spectra for $K_4TM_4(V_2O_7)_2(IO_3)_4(H_2O)$ ($TM = \text{Zn, Ni, Co}$).