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Supporting information of

 $[Ni(Im)_6]^{2+}$ assembly of ion and phosphorous Different

sandwiched-type/tessellate-type supramolecular architectures and 1D water chains

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S-1 The ORTEP of compound 1 with thermal ellipsoids at the 30% probability. All hydrogen atoms

are omitted for clearly.

S-2. The ORTEP of compound 2 with thermal ellipsoids at the 30% probability. All hydrogen atoms

are omitted for clearly.

S-3. The ORTEP of compound **3** with thermal ellipsoids at the 30% probability. All hydrogen atoms

are omitted for clearly.

S-4. The ORTEP of compound **3** with thermal ellipsoids at the 30% probability. All hydrogen atoms

are omitted for clearly.

S-5. IR spectra of compounds 1 (a), 2 (b) 3 (c) and 4 (d).

S-6. TGA curves of compounds 1-4.

S-7. Cif file of compound **1**.

S-8. Cif file of compound 2.

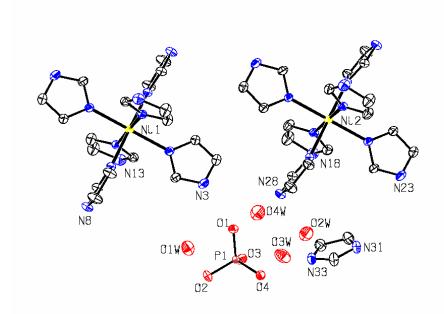
S-9. Cif file of compound 3.

S-10. Cif file of compound 4.

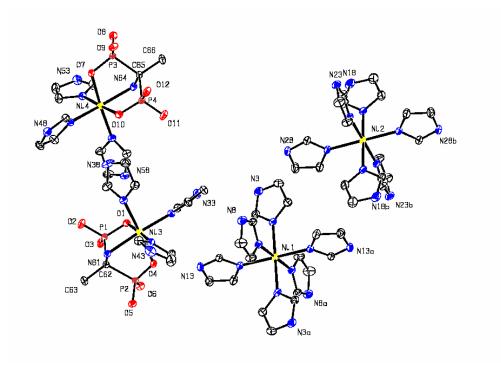
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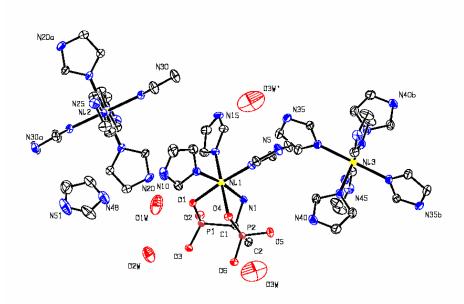
S-1 The ORTEP of compound **1** with thermal ellipsoids at the 30% probability. All hydrogen atoms are omitted for clearly.



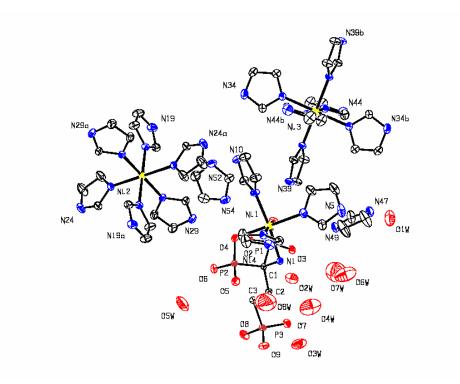
S-2. The ORTEP of compound **2** with thermal ellipsoids at the 30% probability. All hydrogen atoms are omitted for clearly.



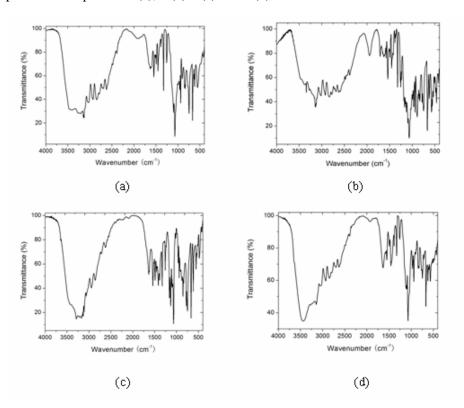
S-3. The ORTEP of compound **3** with thermal ellipsoids at the 30% probability. All hydrogen atoms are omitted for clearly.



S-4. The ORTEP of compound **3** with thermal ellipsoids at the 30% probability. All hydrogen atoms are omitted for clearly.



S-5. IR spectra of compounds $\mathbf{1}$ (a), $\mathbf{2}$ (b) $\mathbf{3}$ (c) and $\mathbf{4}$ (d).



S-6. TGA curves of compounds 1-4.

