

## Supporting Information for

### New types of hybrid solids of tetravanadate polyanion and cucurbituril

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**Table S1** The major H-bond length and angles in complexes **1-3**.

**Fig. S1** The 3-D packing pattern of compound **1**.

**Fig. S2** The 3-D packing pattern of compound **2**.

**Fig. S3** The 3-D packing pattern of compound **3**.

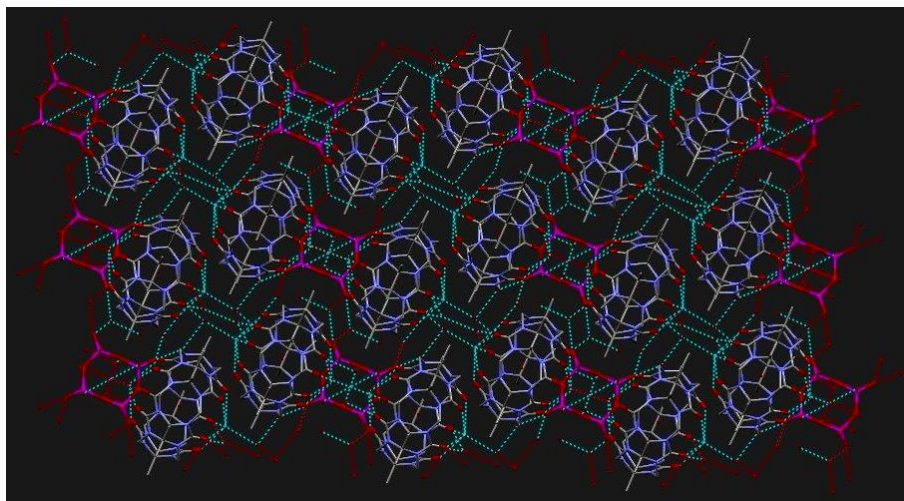
**Table S1**

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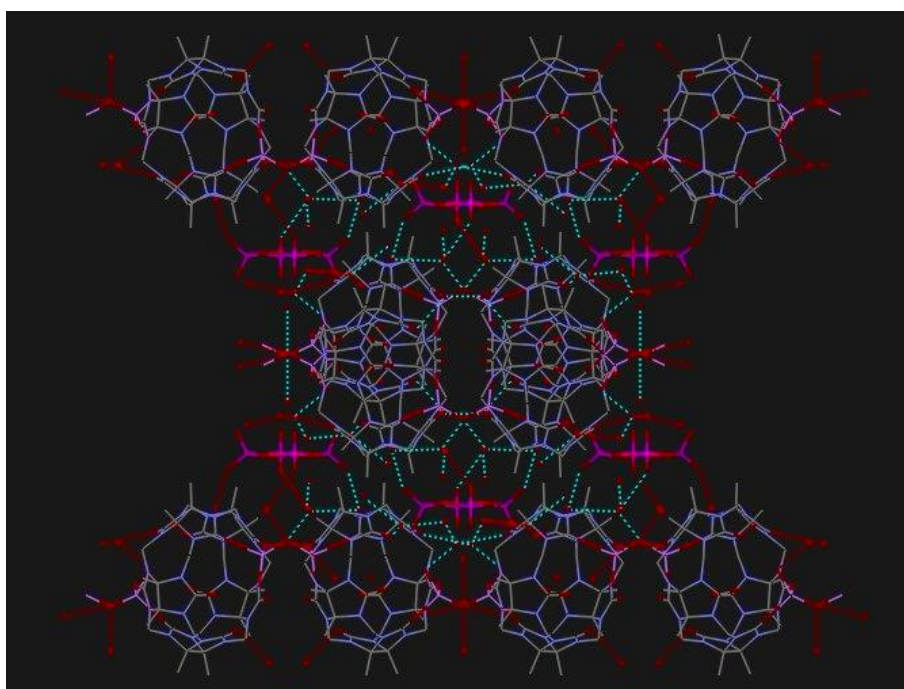
<b>D-H</b>	<b>d(D-H)</b>	<b>d(H···A)</b>	<b>&lt;DHA</b>	<b>d(D···A)</b>	<b>A</b>
<b>Complex 1</b>					
N21-H19	0.827	2.061	171.47	2.882	O2w
N22-H2	0.845	2.114	162.45	2.931	O5
N21-H38	0.827	2.086	154.60	2.855	O6
N21-H36	0.849	2.053	159.78	2.864	O8
<b>Complex 2</b>					
only D···A distances are listed due to non-location of H atoms					
O18				2.893	O20
O15				2.875	O18
O15				2.938	O81
O78				2.866	O81
O18				2.883	O18

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**Fig. S1**



**Fig. S2**



**Fig. S3**

