

**Supporting Information**

**Antibacterial activities of Cu-MOFs containing glutarates and  
bipyridyl ligands**

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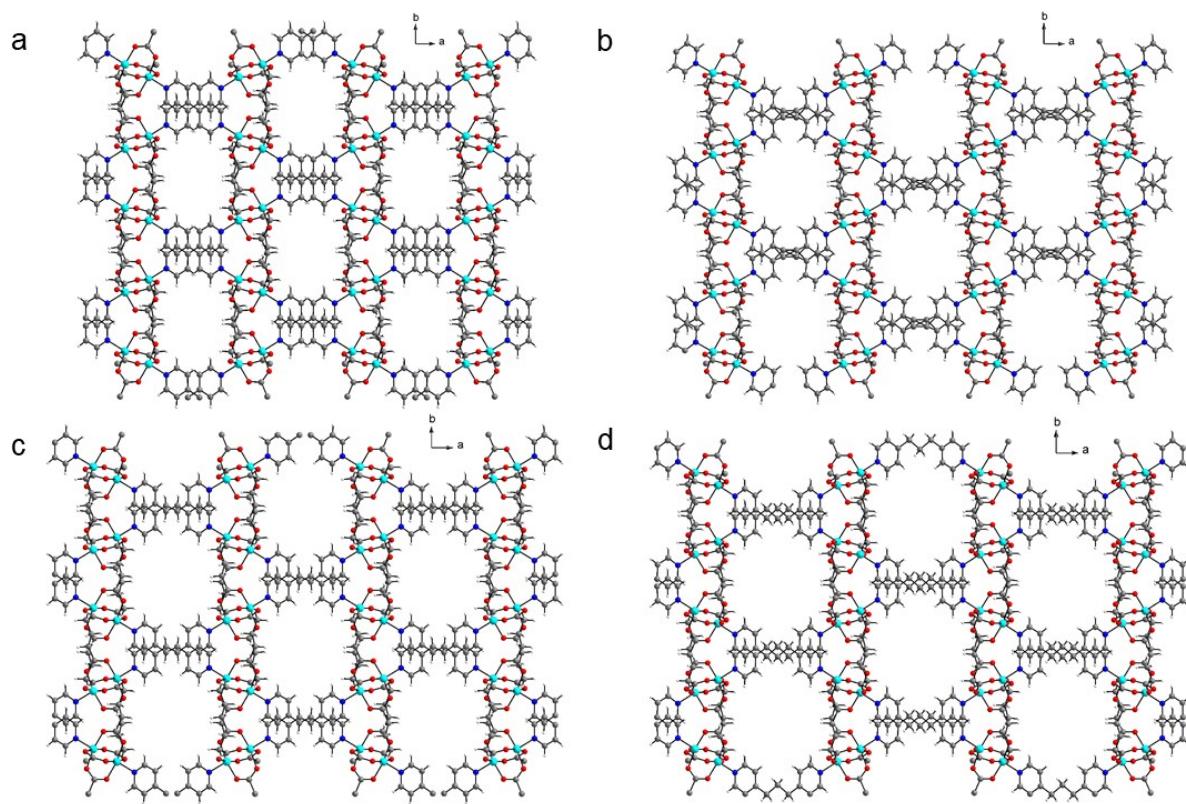
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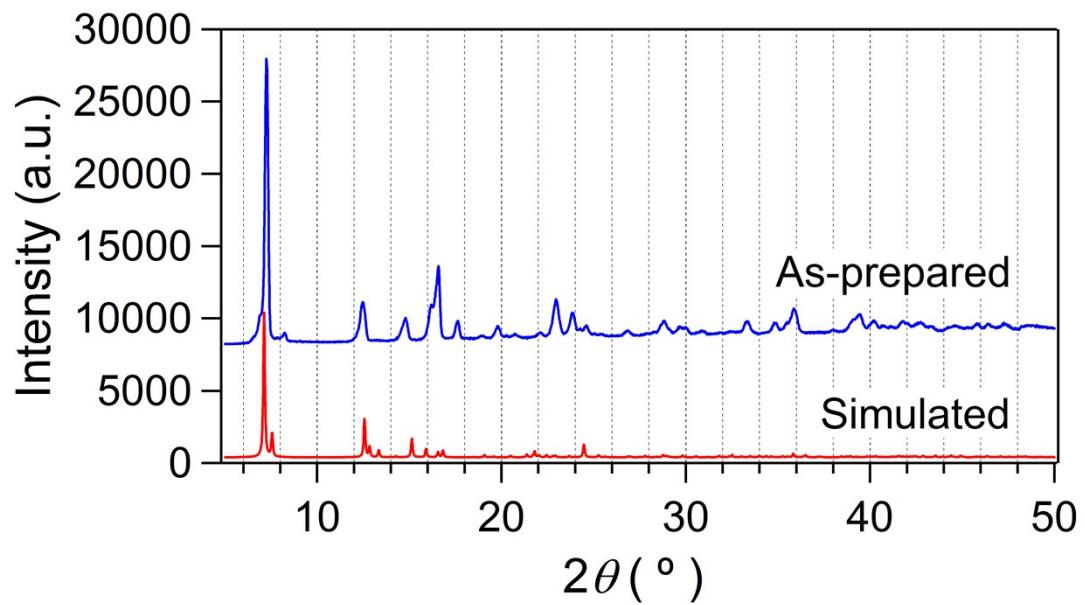
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**Table S1.** Concentrations of Cu<sup>II</sup> ions released from Cu-MOF **2** after antibacterial tests (ppm).

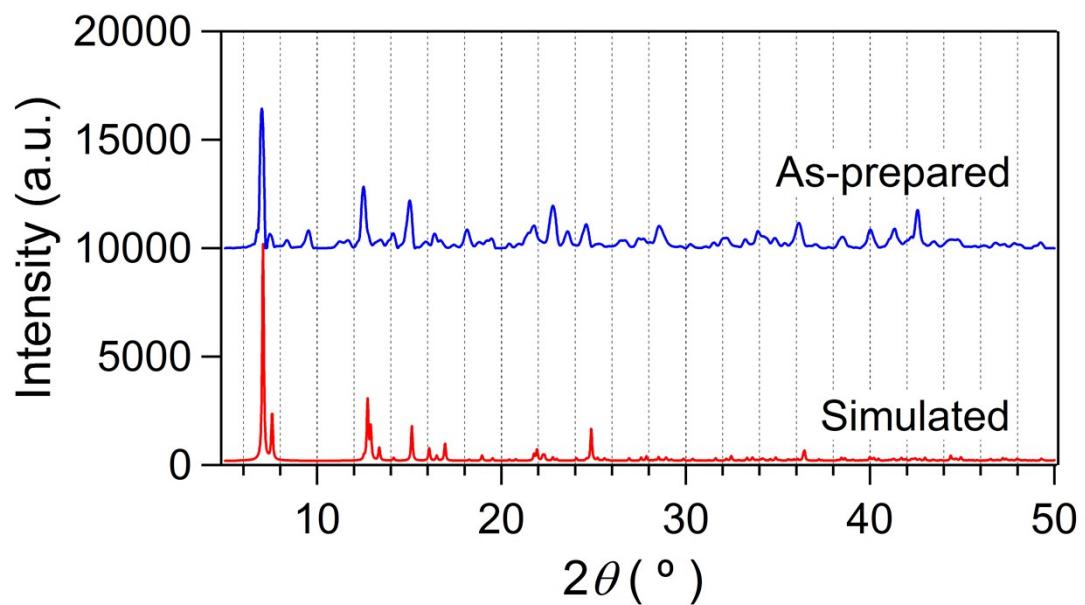
	<b>Control</b>	<b>After antibacterial test</b>
<i>E. coli</i>	0.002	0.243
<i>S. aureus</i>	0.004	0.036
<i>P. aeruginosa</i>	0.002	0.079



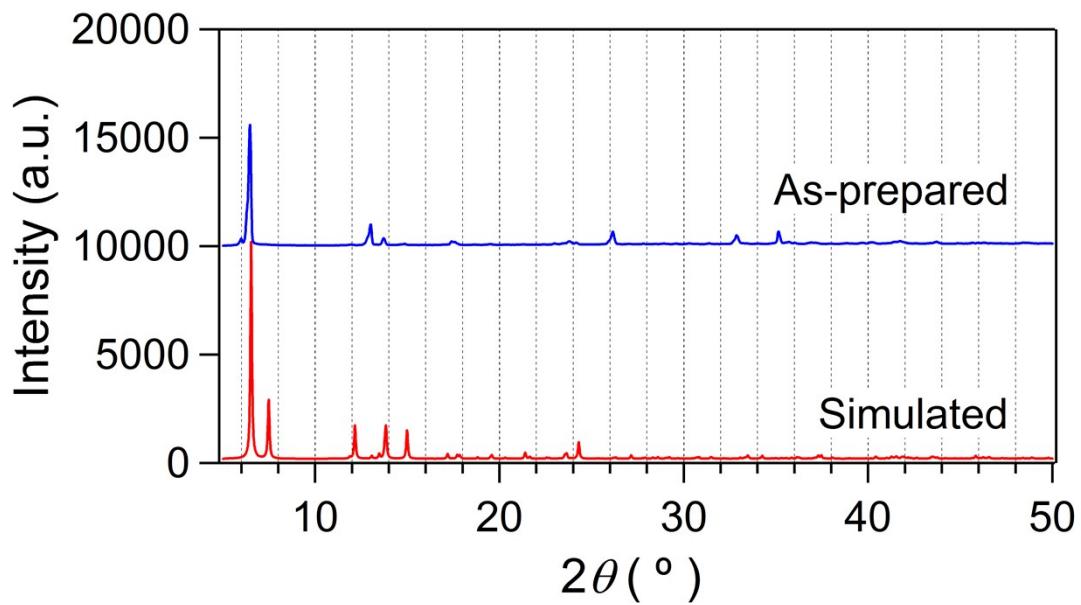
**Fig. S1.** Three-dimensional frameworks of  $[\text{Cu}_2(\text{Glu})_2(\text{bpy})]$  (**1**) (a),  $[\text{Cu}_2(\text{Glu})_2(\text{bpa})]$  (**2**) (b),  $[\text{Cu}_2(\text{Glu})_2(\text{bpe})]$  (**3**) (c), and  $[\text{Cu}_2(\text{Glu})_2(\text{bpp})]$  (**4**) (d) without water solvate molecules.



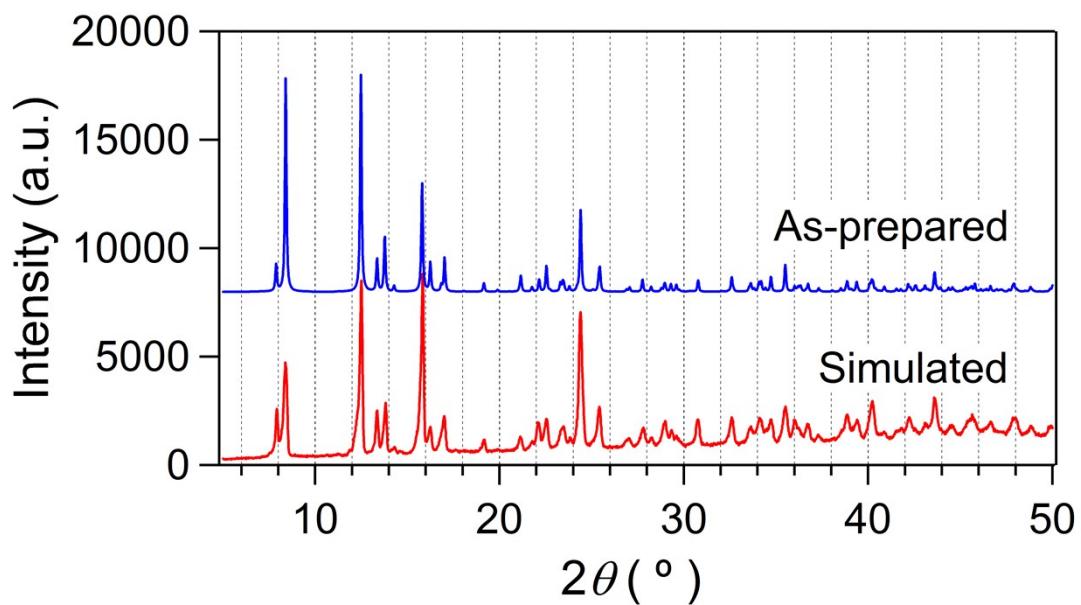
**Fig. S2.** PXRD of Cu-MOF 1.



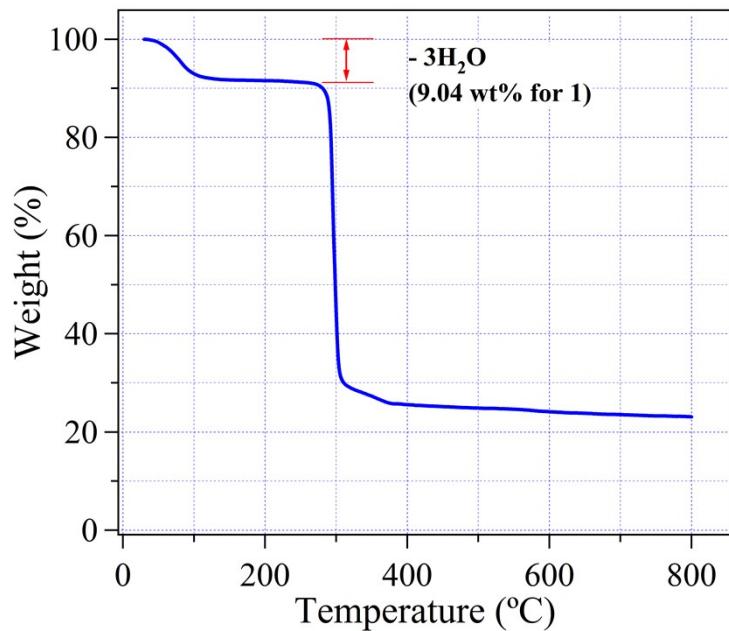
**Fig. S3.** PXRD of Cu-MOF 2.



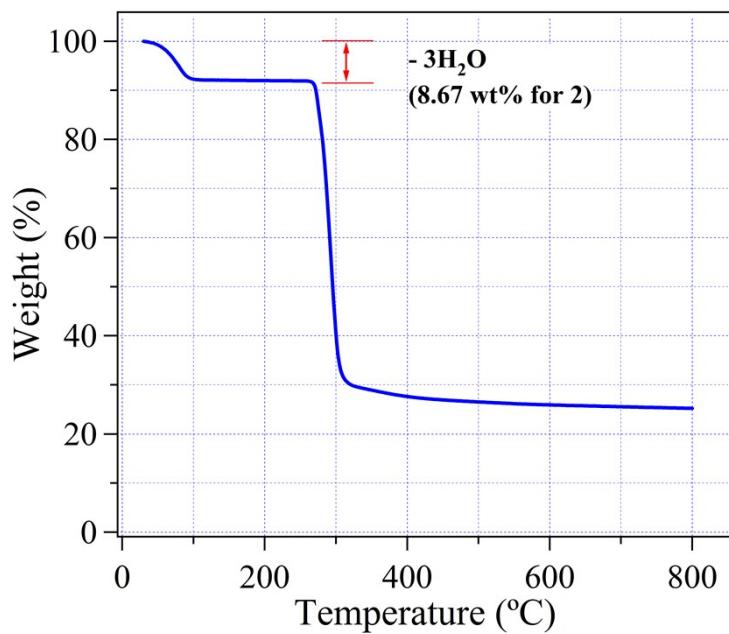
**Fig. S4.** PXRD of Cu-MOF 3.



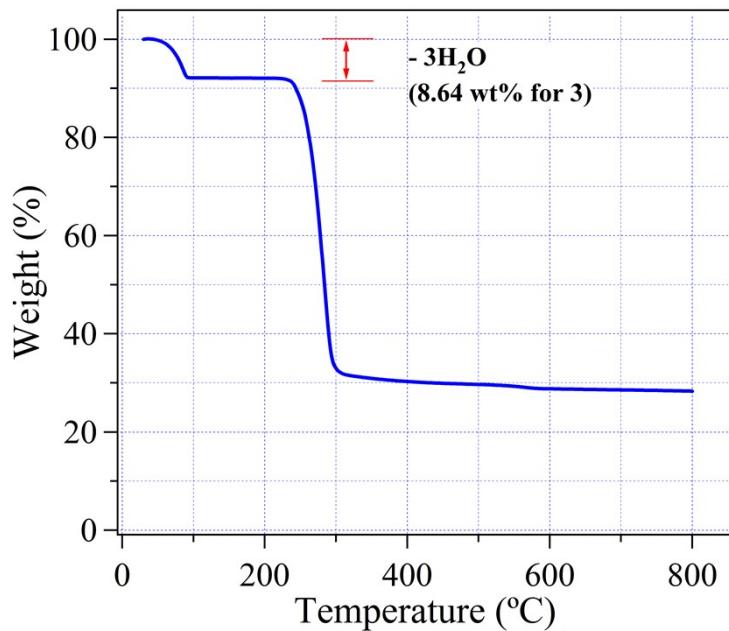
**Fig. S5.** PXRD of Cu-MOF 4.



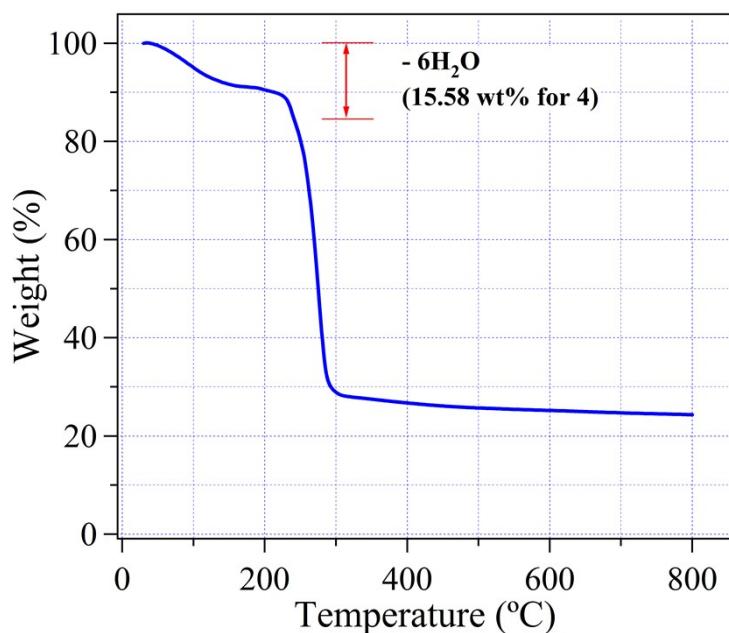
**Fig. S6.** TGA profile for Cu-MOF 1.



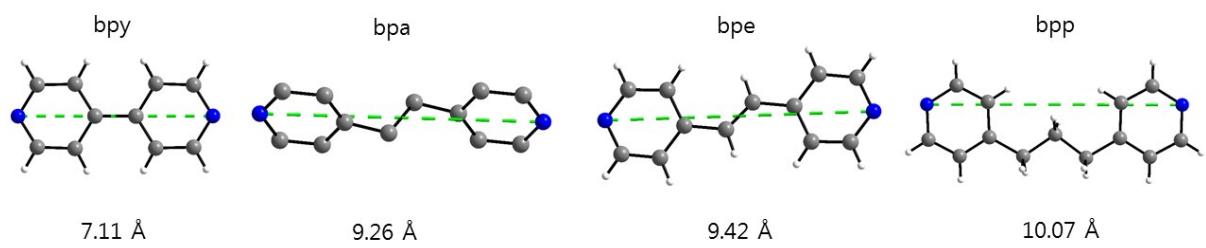
**Fig. S7.** TGA profile for Cu-MOF 2.



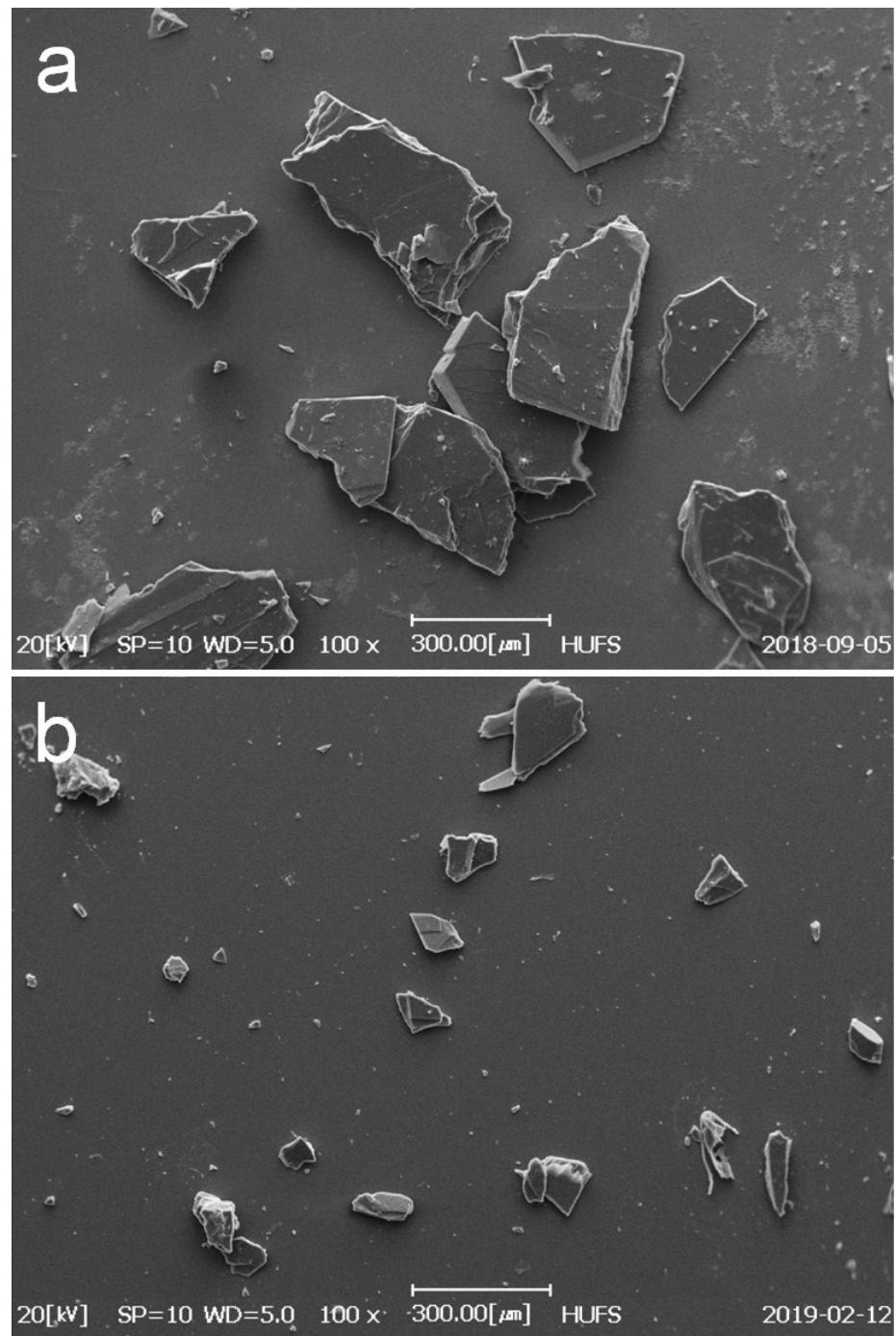
**Fig. S8.** TGA profile for Cu-MOF **3**.



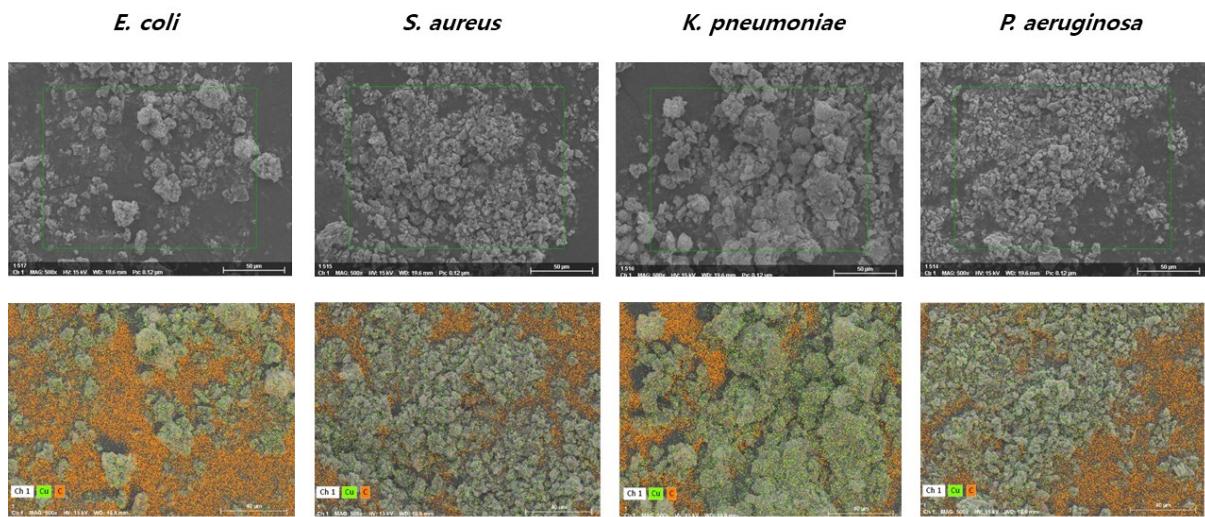
**Fig. S9.** TGA profile for Cu-MOF **4**.



**Fig. S10.** The lengths between the nitrogen atoms of the bipyridyls in Cu-MOFs.



**Figure S11.** SEM images of Cu-MOF **4**: before (a) and after (b) grinding.



**Figure S12.** SEM EDS elemental mapping images for Cu-MOF **2**-treated bacteria.