ESI

Effect of *t*-BuS vs *n*-BuS on the Topology, Cu···Cu Distances and Luminescence Properties of 2D Cu_4I_4/RS$(CH_2)_4$SR Metal-organic Frameworks

Michael Knorr,*[a] Fabrice Guyon,[a] Marek M. Kubicki, *[b] Yoann Rousselin, [b] Shawkat M. Aly,[c] and Pierre D. Harvey*[c]

[a] Institut UTINAM UMR CNRS 6213, Université de Franche-Comté,

25030 Besançon, France; E-mail: michael.knorr@univ-fcomte.fr

[b] Institut de Chimie Moléculaire de l'Université de Bourgogne UMR CNRS 5260,

9 av. Alain Savary, 21078 Dijon, France; E-mail : marek.kubicki@u-bourgogne.fr

[c] Département de Chimie, Université de Sherbrooke, Sherbrooke, PQ, Canada J1K 2R;. E-mail: Pierre.Harvey@USherbrooke.ca

Fig. S1 Plotting of the structure of **1** down *y* axis showing the puckering of 2D layers over the **ab** crystal planes. The hydrogen atoms as well as the carbon ones of *n*-Bu groups are omitted.

Fig. S2 Plotting of the structure of **2** down *x* axis showing the puckering of 2D layers over the **ac** crystal planes. The hydrogen atoms as well as the carbon ones of *t*-Bu groups are omitted.

Fig. S1 Plotting of the structure of **1** down Y axis showing the puckering of 2D layers over the **ab** crystal planes. The hydrogen atoms as well as the carbon ones of *n*-Bu groups are omitted. The projection includes two unit cells in each direction.

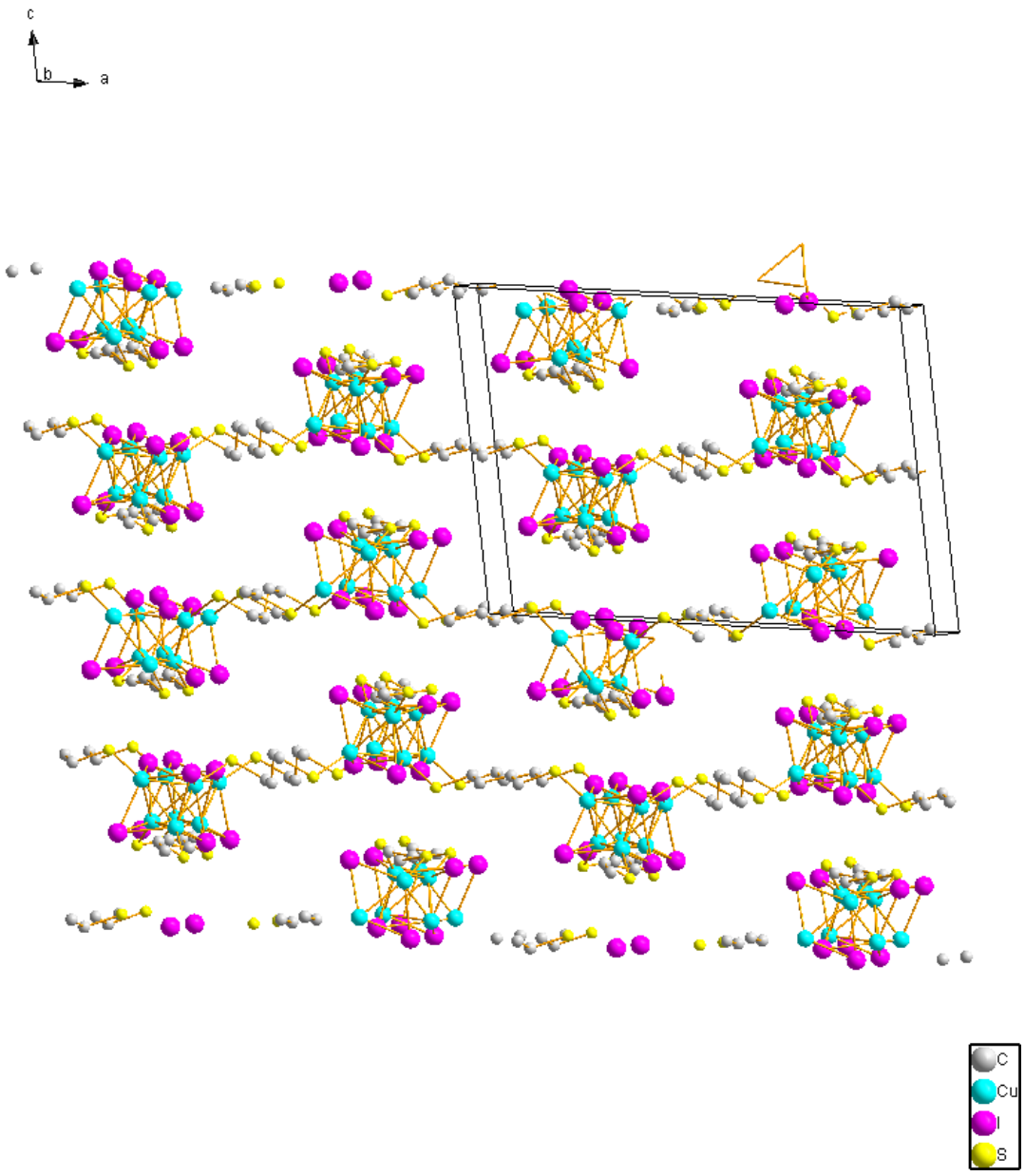

Fig. S2 Plotting of the structure of **2** down *x* axis showing the puckering of 2D layers over the *ac* crystal planes. The hydrogen as well as the carbon atoms of *t*-Bu groups are omitted. The projection includes two unit cells in each direction.