# Influence of Anions and Solvent Molecules on the Packing and Emission Spectra of Coordination Polymers Based on Silver ions and an Anthracene Derivative 

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## Supplementary materials

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Fig S1: ORTEP plot of 1, ellipsoids draw at $35 \%$ of probability; \#1: 1-x, 1-y, 1-z; \#2: $1+x, 1+y, 1+z ; H$ atoms are omitted for clarity.

Fig S2: ORTEP plot of 2, ellipsoids draw at $50 \%$ of probability; \#1: $3-x, 2-y, 1-z ; \# 2:-2+x,-2+y,-1+z$; some $H$ atoms are omitted for clarity.

Fig S3: ORTEP plot of 3, ellipsoids draw at $50 \%$ of probability; \#1: $-x, 1-y, 2-z ; \# 2: x, y, 1+z ;$ some $H$ atoms are omitted for clarity.

Fig S4: ORTEP plot of 4, ellipsoids draw at $35 \%$ of probability; \#1: 1-x, $-\mathrm{y},-\mathrm{z} ; \# 2:-1+\mathrm{x},-1+\mathrm{y},-1+z ;$ some H atoms are omitted for clarity.

Fig S5: ORTEP plot of 5, ellipsoids draw at $35 \%$ of probability; \#1: 1/2-x, -3/2-y, -z; \#2: 1+x, y, 3/2-z; \#3: 1-x, -y, 1-z, \#4: $x,-y$, $-1 / 2+z ; H$ atoms are omitted for clarity.

Fig S6. Packing in the crystal structure of 5; H atoms are omitted for clarity.
Fig S7. Packing in the crystal structure of $\mathbf{5}$ showing the weak interactions between adjacent anthracene moieties; H atoms are omitted for clarity.

Fig S8. Upper view of the stacking in the crystal structure of $\mathbf{1}$ to $\mathbf{4}$ showing the overlays between adjacent anthracene moieties; Centroids are represented by the black point at the center of each anthracene; H atoms are omitted for clarity.


Fig S1: ORTEP plot of 1 , ellipsoids draw at $35 \%$ of probability; \#1: 1-x, 1-y, 1-z; \#2: $1+x, 1+y, 1+z ; H$ atoms are omitted for clarity.


Fig S2: ORTEP plot of 2, ellipsoids draw at $50 \%$ of probability; \#1: $3-x, 2-y, 1-z ; \# 2:-2+x,-2+y,-1+z ;$ some $H$ atoms are omitted for clarity.


Fig S3: ORTEP plot of 3, ellipsoids draw at $50 \%$ of probability; \#1: $-x, 1-y, 2-z ; \# 2: x, y, 1+z ;$ some $H$ atoms are omitted for clarity.


Fig S4: ORTEP plot of 4, ellipsoids draw at $35 \%$ of probability; \#1: 1-x, $-\mathrm{y},-\mathrm{z} ; \# 2:-1+\mathrm{x},-1+\mathrm{y},-1+z ;$ some H atoms are omitted for clarity.


Fig S5: ORTEP plot of 5, ellipsoids draw at $35 \%$ of probability; \#1: $1 / 2-x,-3 / 2-y,-z ; \# 2: 1+x, y, 3 / 2-z ; \# 3: 1-x,-y, 1-z, ~ \# 4: x,-y$, $-1 / 2+z ; H$ atoms are omitted for clarity.


Fig S6. Packing in the crystal structure of 5; H atoms are omitted for clarity.


Fig S7. Packing in the crystal structure of $\mathbf{5}$ showing the weak interactions between adjacent anthracene moieties; H atoms are omitted for clarity.

1

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3

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Fig S8. Upper view of the stacking in the crystal structure of $\mathbf{1}$ to $\mathbf{4}$ showing the overlays between adjacent anthracene moieties; Centroids are represented by the black point at the center of each anthracene; H atoms are omitted for clarity.

