



Construction of (CuX) Cluster-Containing (X = Br, I) Coordination Polymers Effect of the Spacer Length, Aryl Group, and Metal-to-Ligand Ratio on the Dimensionality, Cluster Nuclearity, and the Luminescence Properties of the Metal-Organic Frameworks

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Auteur	Knorr, Michael [1], Guyon, Fabrice [2], Khatyr, Abderrahim [3], Strohmann, Carsten [4], Allain, Magali [5], Aly, Shawkat M [6], Lapprand, Antony [7], Fortin, Daniel [8], Harvey, Pierre-D. [9]
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Résumé en anglais	The CuX salts (X = Br, I) react with ArS(CH ₂) _m SAr (m = 3, 5; Ar = Ph, <i>p</i> -Tol) in 1:1 or 2:1 ratio to respectively yield rhomboid Cu ₂ X ₂ - and cubane Cu ₄ I ₄ -containing coordination polymers. The Cu ₂ Br ₂ -materials strictly form 1D polymers whereas both types (1D and 2D) are isolated for the Cu ₂ I ₂ - and Cu ₄ I ₄ -ones. These metal-organic frameworks have been characterized by X-ray, TGA, and steady state and time-resolved absorption and emission spectroscopy at 298 and 77 K.
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- [1] [http://okina.univ-angers.fr/publications?f\[author\]=2783](http://okina.univ-angers.fr/publications?f[author]=2783)
 [2] [http://okina.univ-angers.fr/publications?f\[author\]=2780](http://okina.univ-angers.fr/publications?f[author]=2780)
 [3] [http://okina.univ-angers.fr/publications?f\[author\]=2782](http://okina.univ-angers.fr/publications?f[author]=2782)
 [4] [http://okina.univ-angers.fr/publications?f\[author\]=2787](http://okina.univ-angers.fr/publications?f[author]=2787)

- [5] <http://okina.univ-angers.fr/magali.allain/publications>
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=19773](http://okina.univ-angers.fr/publications?f[author]=19773)
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=19774](http://okina.univ-angers.fr/publications?f[author]=19774)
- [8] [http://okina.univ-angers.fr/publications?f\[author\]=2785](http://okina.univ-angers.fr/publications?f[author]=2785)
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