Mechanochemical Preparations of Anion Coordinated Architectures Based on 3-Iodoethynylpyridine and 3-Iodoethynylbenzoic Acid

Invited for this month’s cover picture is the group of Professor David Bryce at the University of Ottawa. The cover picture shows a stylized depiction of the mechanochemical halogen-bond induced cocrystallization of 3-iodoethynylpyridine with tetraphenylphosphonium bromide. Read the full text of their Full Paper at 10.1002/open.201900194.

Who designed the cover?
Students Michael Triglav and Vincent Morin designed the cover.

Is your current research mainly curiosity driven (fundamental) or rather applied?
Our research is mainly curiosity driven. We are fortunate to have substantial freedom to pursue our ideas in Canada, thanks to the Natural Sciences and Engineering Research Council. The main Discovery Grant funding mechanism encourages blue-sky thinking and does not tie researchers down to artificially-imposed milestones or imposed priority areas of applied research.

What is in your opinion an upcoming research theme likely to become one of the ‘hot topics’ in the near future?
The broad field of secondary bonding interactions, including halogen bonding, chalcogen bonding, pnictogen bonding and more, is already attracting a lot of attention from diverse scientific communities. New fundamental insights and new applications are being discovered all the time. This field holds great potential for exciting breakthroughs in materials science, catalysis, and more.