

Perovskites in porous networks for X-ray detection

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Porous materials have started to gather attention as promising X-ray detectors due to their ease of processing and chemical versatility enabling the incorporation of high Z atoms and maximising attenuation efficiencies while keeping functional porosity. Here, I will present our team's activities in functionalising porous structures with perovskites, including high throughput screening for highly dense, mechanically robust composites with fast response time, minimised dark current and outstanding operational lifetimes. A summary of our latest developments on indirect and direct detectors will be given, emphasising their potential for future innovations in the field.

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