

# The synthesis and characterisation of $\text{Cu}_2\text{MX}_4$ ( $\text{M} = \text{W}$ or $\text{Mo}$ ; $\text{X} = \text{S}$ , $\text{Se}$ or $\text{S/Se}$ ) materials prepared by a solvothermal method

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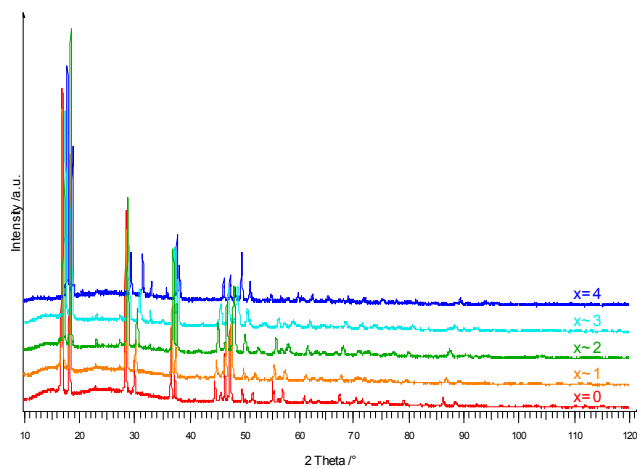


Figure S1 XRD patterns of  $\text{Cu}_2\text{WS}_x\text{Se}_{4-x}$  phases, patterns are offset in the  $y$ -direction for clarity.

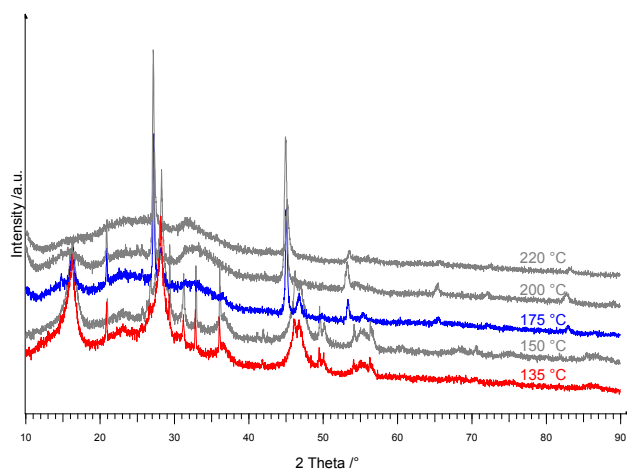


Figure S2 XRD patterns of  $\text{Cu}_2\text{MoSe}_4$  synthesised at different temperatures, patterns are offset in the  $y$ -direction for clarity.

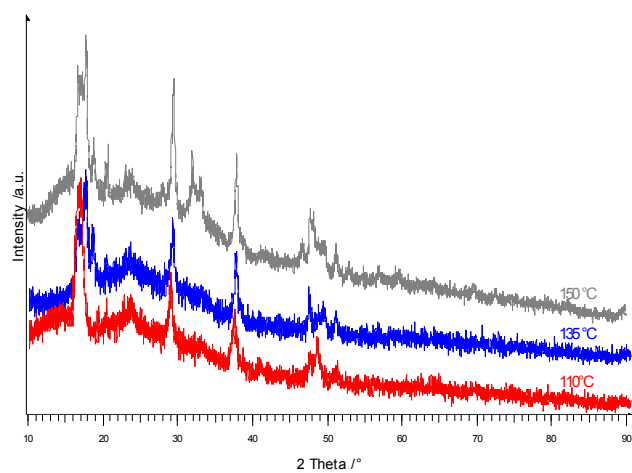


Figure S3 XRD patterns for  $\text{Cu}_2\text{MoS}_4$  synthesised at different temperatures, patterns are offset in the  $y$ -direction for clarity.