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Cu₃SeyTe_{1-y}: A new representative of transition metal dichalcogenides

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The novel material Cu₃SeyTe_{1-y} was synthesized and characterized crystallographically. The material behaves according to Vegard's Law, indicating the formation of a solid solution in the range between 0.1 and 0.6. All compositions belong to the cubic space group Pm-3n according to single crystal X-Ray diffraction measurements. Ionic conduction and thermoelectric characterization are currently being analysed.

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