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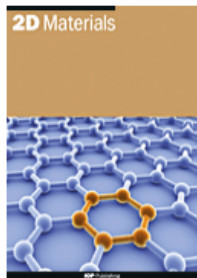
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### Magnetic properties and critical behavior of magnetically intercalated WSe<sub>2</sub>: a theoretical study

Peter D Reyntjens<sup>1,2,3</sup> ID, Sabyasachi Tiwari<sup>1,2,3</sup> ID, Maarten L Van de Put<sup>1</sup> ID, Bart Sorée<sup>2,4,5</sup> ID and William G Vandenberghe<sup>1</sup> ID

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[2D Materials, Volume 8, Number 2](#)

Citation Peter D Reyntjens et al 2021 *2D Mater.* 8 025009

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### Abstract

Transition metal dichalcogenides, intercalated with transition metals, are studied for their potential applications as dilute magnetic semiconductors. We investigate the magnetic properties of WSe<sub>2</sub> doped with third-row transition metals (Co, Cr, Fe, Mn, Ti and V). Using density functional theory in combination with Monte Carlo simulations, we obtain an estimate of the Curie or Néel temperature.

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Abstract

- 1. Introduction
- 2. Computational methods
- 3. Results and discussion
- 4. Conclusions

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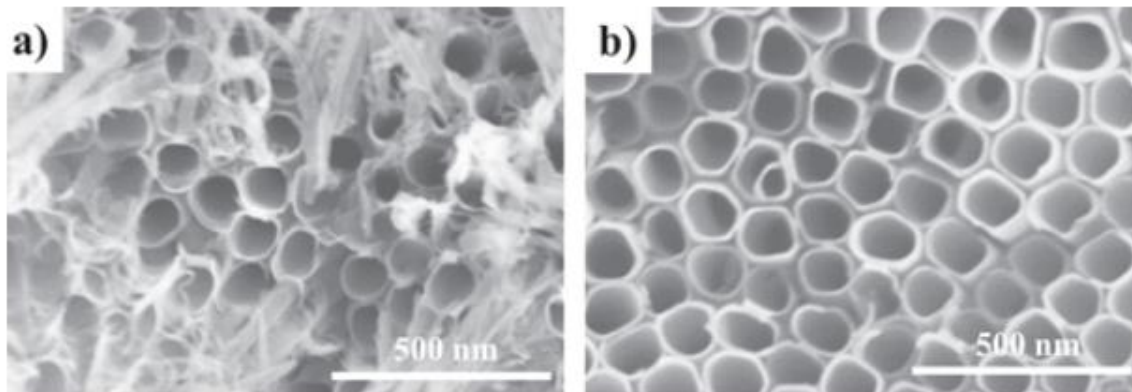
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Figure 4. Top view SEM images of nanotubes before ultrasonication (a) and after ultrasonication (b).

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- 5. Conclusions

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Back to top

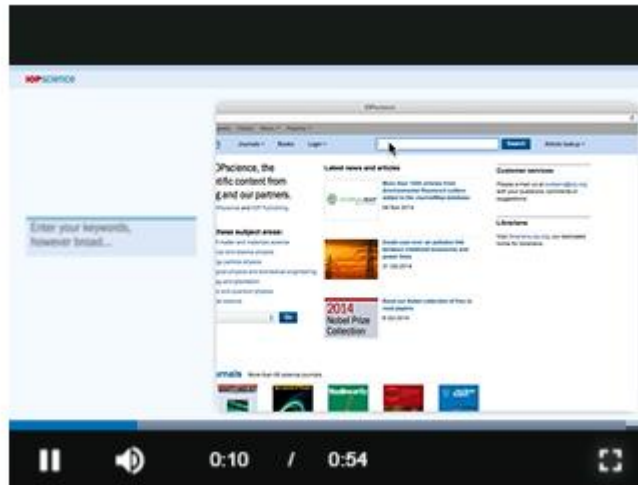
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