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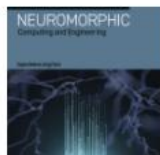
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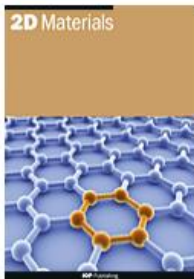
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### Magnetic properties and critical behavior of magnetically intercalated WSe<sub>2</sub>: a theoretical study

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

Published 24 December 2020 • © 2020 The Author(s). Published by IOP Publishing Ltd

[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

Acknowledgments

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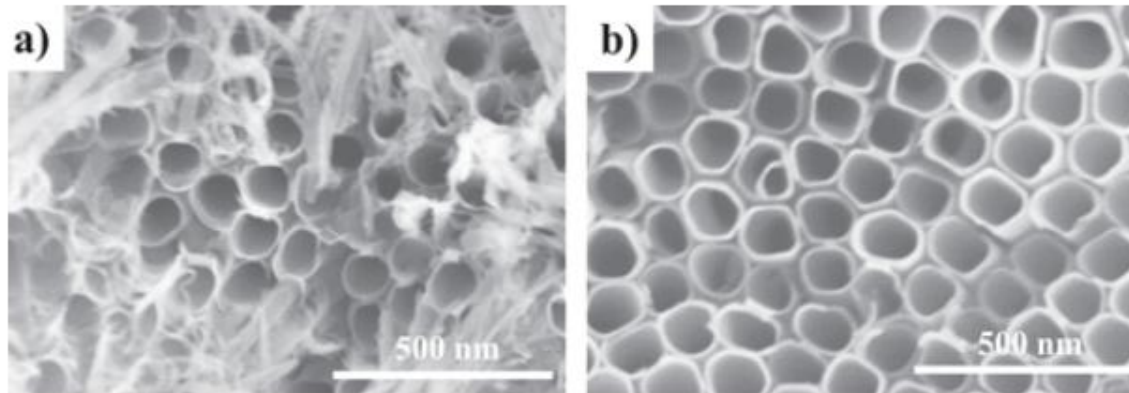
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Figure 4. Top view SEM images of nanotubes after sonication (a) and after ultrasonication (b).

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1. Introduction
2. Nanostructured TiO<sub>2</sub> materials: preparation and morphology aspects
3. Functionalisation of nanotubular structures
4. Application of TiO<sub>2</sub> nanostructures in biomedicine
5. Conclusions

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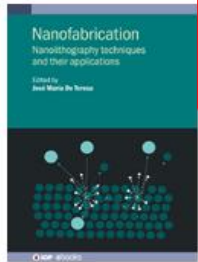


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