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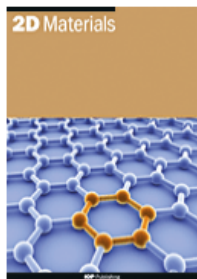
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Peter D Reyntjens<sup>1,2,3</sup> ID, Sabyasachi Tiwari<sup>1,2,3</sup> ID, Maarten L Van de Put<sup>1</sup> ID, Bart Sorée<sup>2,4,5</sup> ID and William G Vandenberghe<sup>1</sup> ID

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

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## Author e-mails

[jagoda.slawinska@gmail.com](mailto:jagoda.slawinska@gmail.com)  
[mbn@unt.edu](mailto:mbn@unt.edu)

## Author affiliations

- <sup>1</sup> Department of Physics, University of North Texas, Denton, TX 76203, United States of America
- <sup>2</sup> Dipartimento di Fisica, Università di Roma Tor Vergata, Via della Ricerca Scientifica 1, 00133 Roma, Italy
- <sup>3</sup> Department of Physics and Science of Advanced Materials Program, Central Michigan University, Mount Pleasant, MI 48859, United States of America
- <sup>4</sup> Center for Materials Genomics, Duke University, Durham, NC 27708, United States of America
- <sup>5</sup> Materials Science, Electrical Engineering, Physics, University of North Texas, Denton, TX 76203, United States of America

## ORCID iDs

Jagoda Sławińska [ID](https://orcid.org/0000-0000-0000-0000)  
Haihang Wang [ID](https://orcid.org/0000-0000-0000-0000)  
Stefano Curtarolo [ID](https://orcid.org/0000-0000-0000-0000)  
Marco Fornari [ID](https://orcid.org/0000-0000-0000-0000)  
Marco Buongiorno Nardelli [ID](https://orcid.org/0000-0000-0000-0000)

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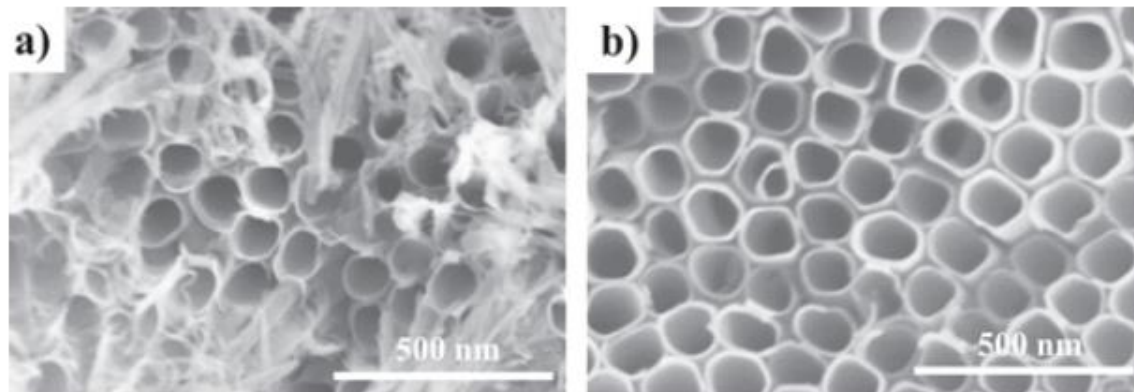
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Figure 4. Top view of nanotubes after ultrasonication (a) and after ultrasonication (b).

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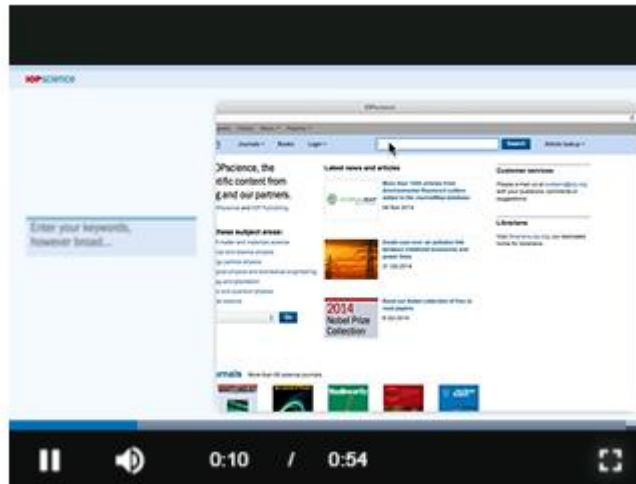
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