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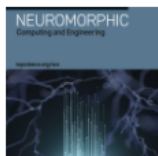
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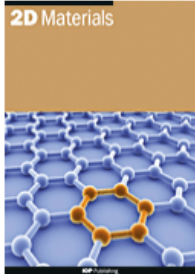
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Magnetic properties and critical behavior of magnetically intercalated WSe₂: a theoretical study

Peter D Reyntjens^{1,2,3} , Sabyasachi Tiwari^{1,2,3} , Maarten L Van de Put¹ , Bart Sorée^{2,4,5}  and William G Vandenberghe¹ 

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 WSe₂ 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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
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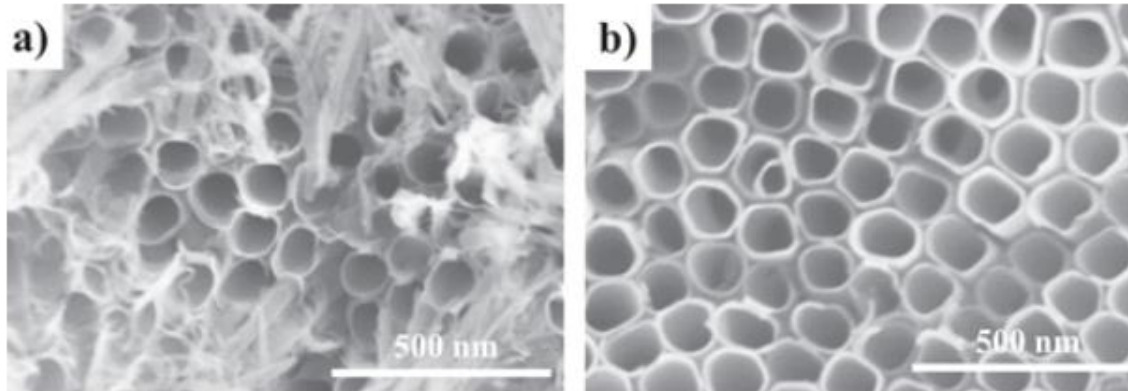


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Figure 4. Top view SEM images of nanotubes before ultrasonication (a) and after ultrasonication (b).

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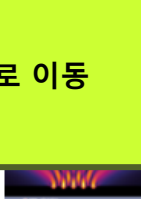
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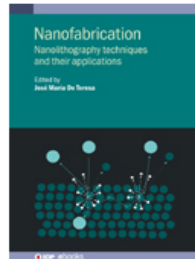


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