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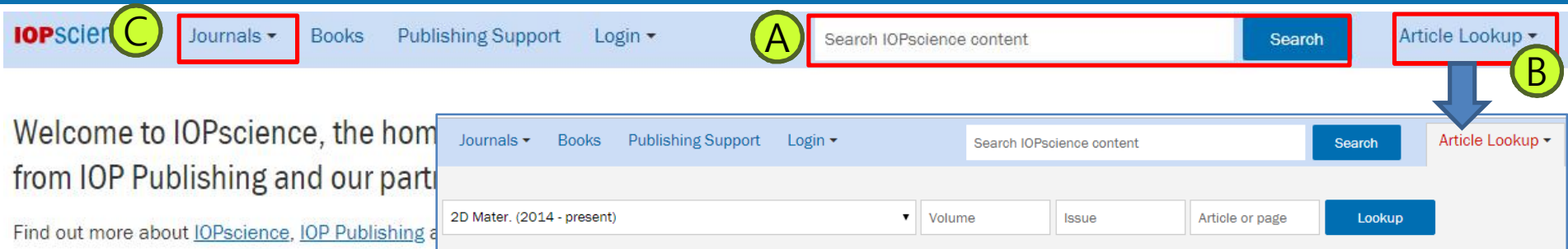
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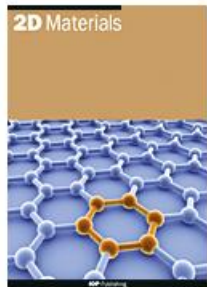
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Giant spin Hall effect in two-dimensional monochalcogenides

Jagoda Sławińska¹ , Frank T Cerasoli¹, Haihang Wang¹

Stefano Curtarolo^{4,5} , Marco Fornari^{3,4}  and Marco Bortolotti^{1,2} 

Published 8 February 2019 • © 2019 IOP Publishing Ltd

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Abstract

One of the most exciting properties of two dimensional materials is their sensitivity to external tuning of the electronic properties, for example via electric field or strain. Recently discovered analogues of phosphorene, group-IV monochalcogenides (MX with M = Ge, Sn and X = S, Se, Te), display several interesting phenomena intimately related to the in-plane strain, such as giant piezoelectricity and multiferroicity, which combine ferroelastic and ferroelectric properties. Here, using calculations from first principles, we reveal for the first time giant intrinsic spin Hall conductivities (SHC) in these materials. In particular, we show that the SHC resonances can be easily

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Abstract

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4. Spin Hall effect in strained monochalcogenides

5. Summary and conclusions

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Dates
Received 30 October 2018
Accepted 23 January 2019
Accepted Manuscript online 23 January 2019
Published 8 February 2019

E Peer review information
Method: Single-blind
Revisions: 1
Screened for originality? Yes

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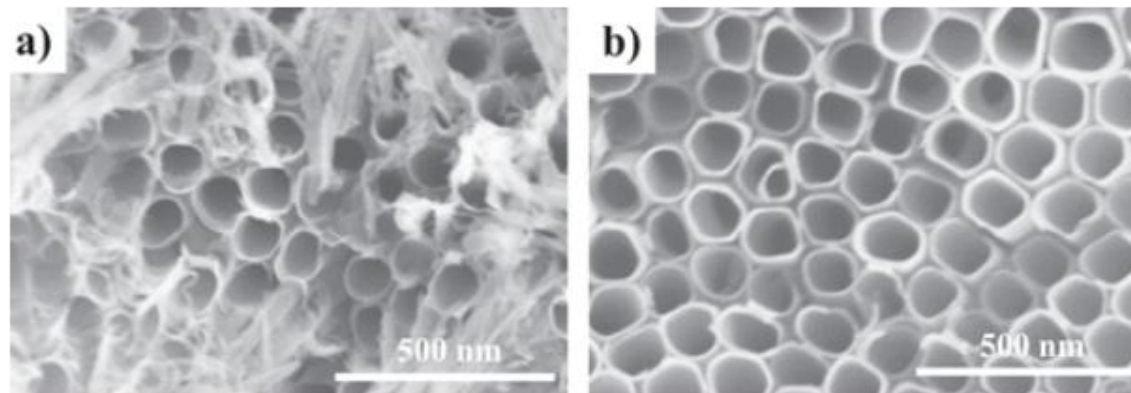
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Figure 4. Top view SEM images of nanotubes before ultrasonication (a) and after ultrasonication (b).

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1. Introduction

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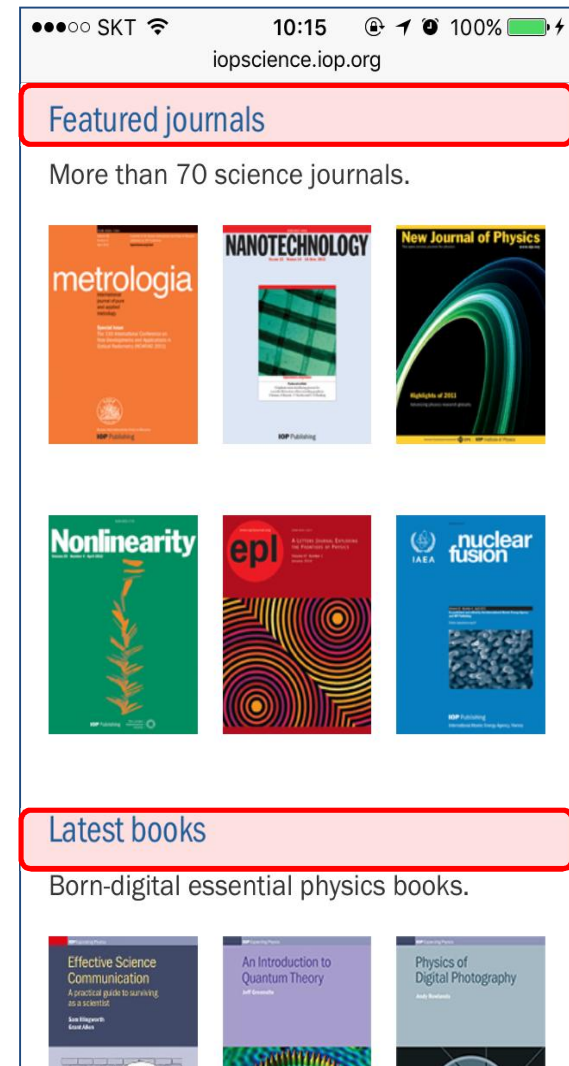
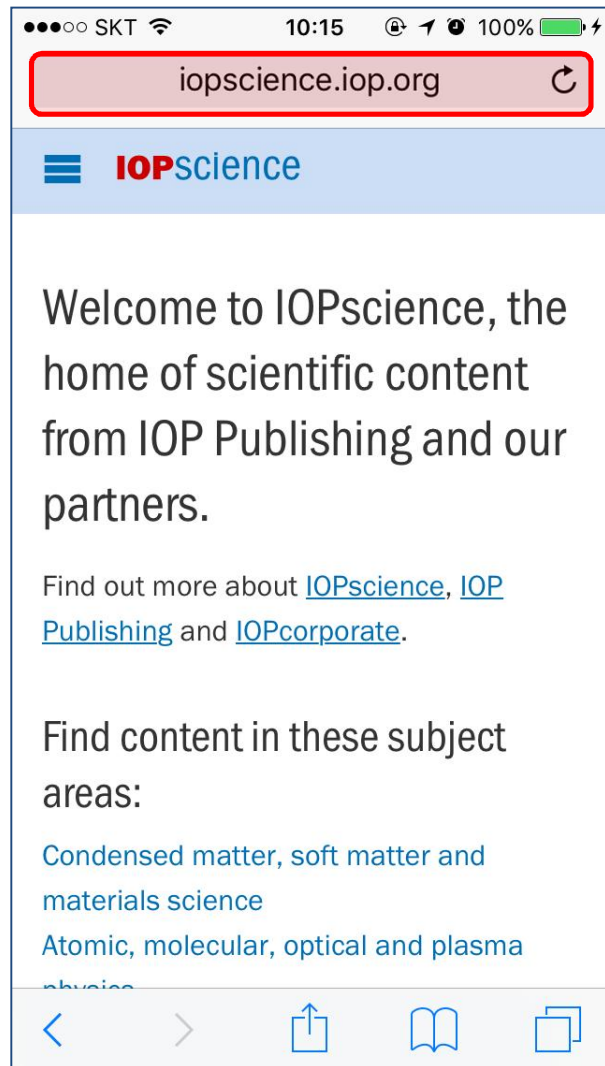
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