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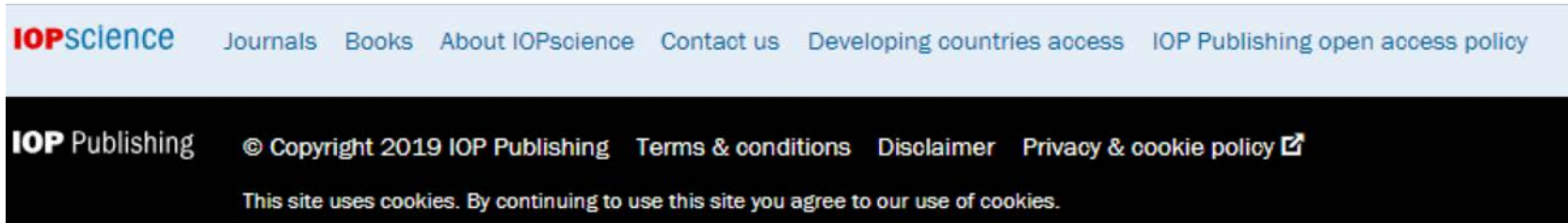
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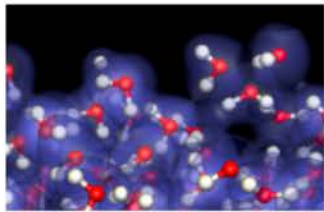
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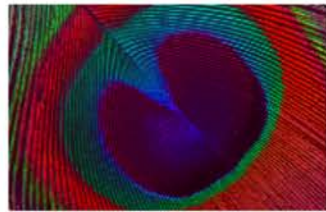
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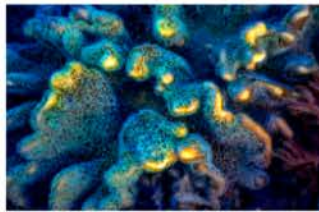
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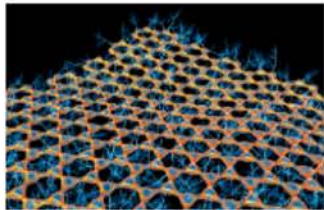
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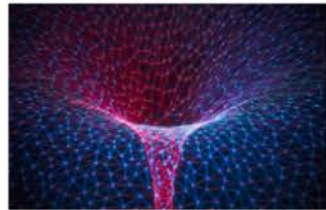
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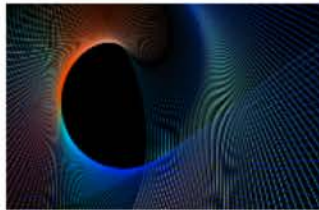
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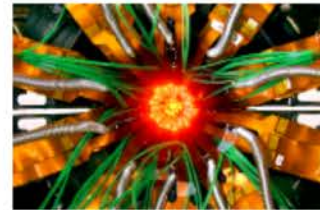
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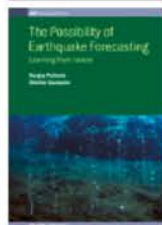
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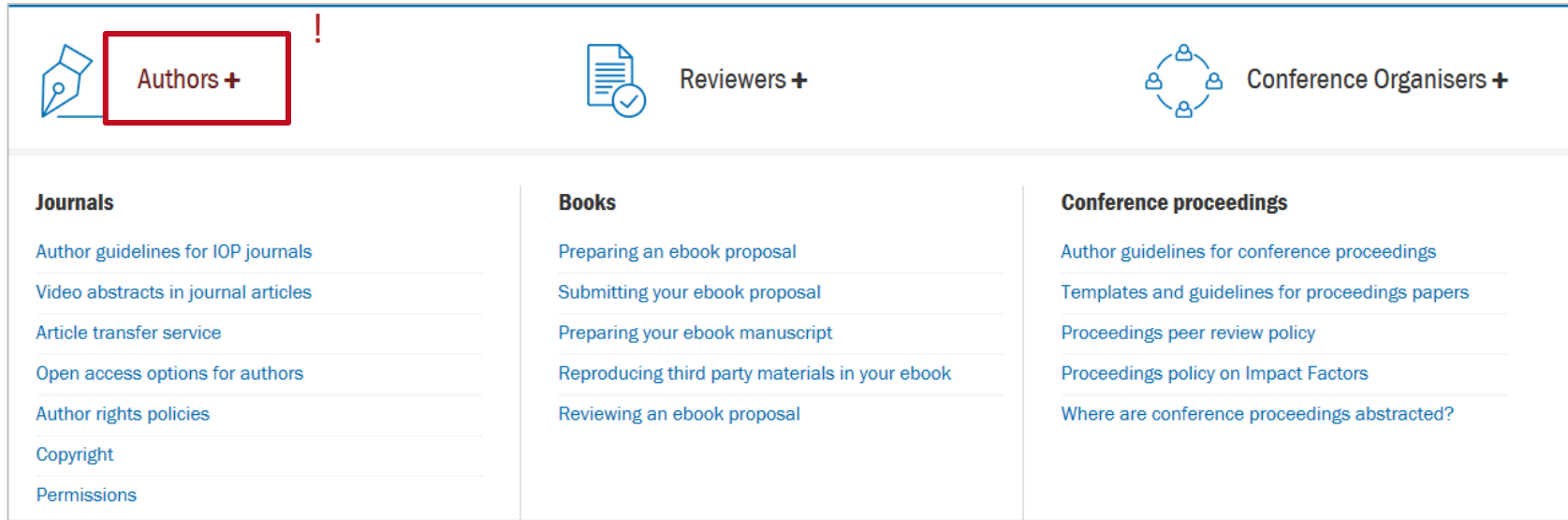
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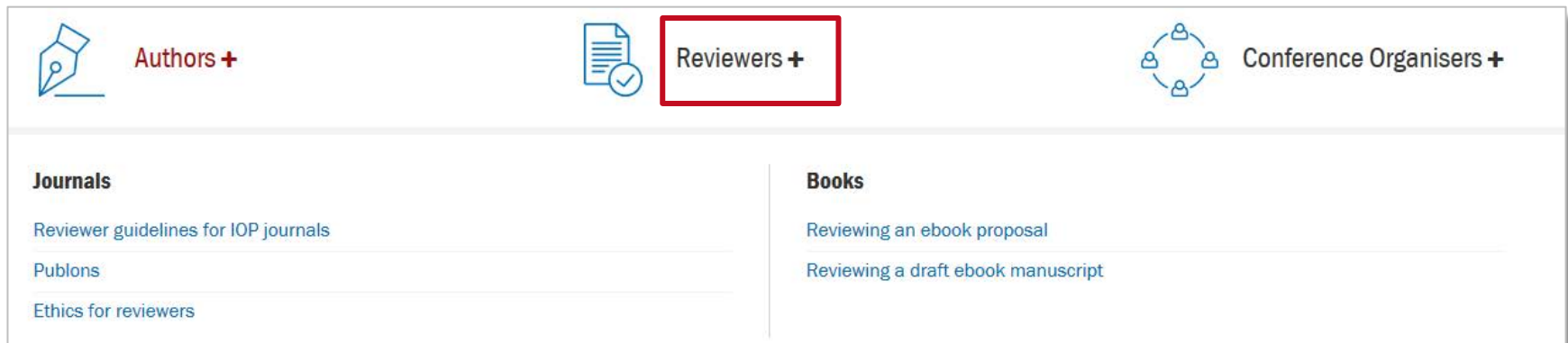
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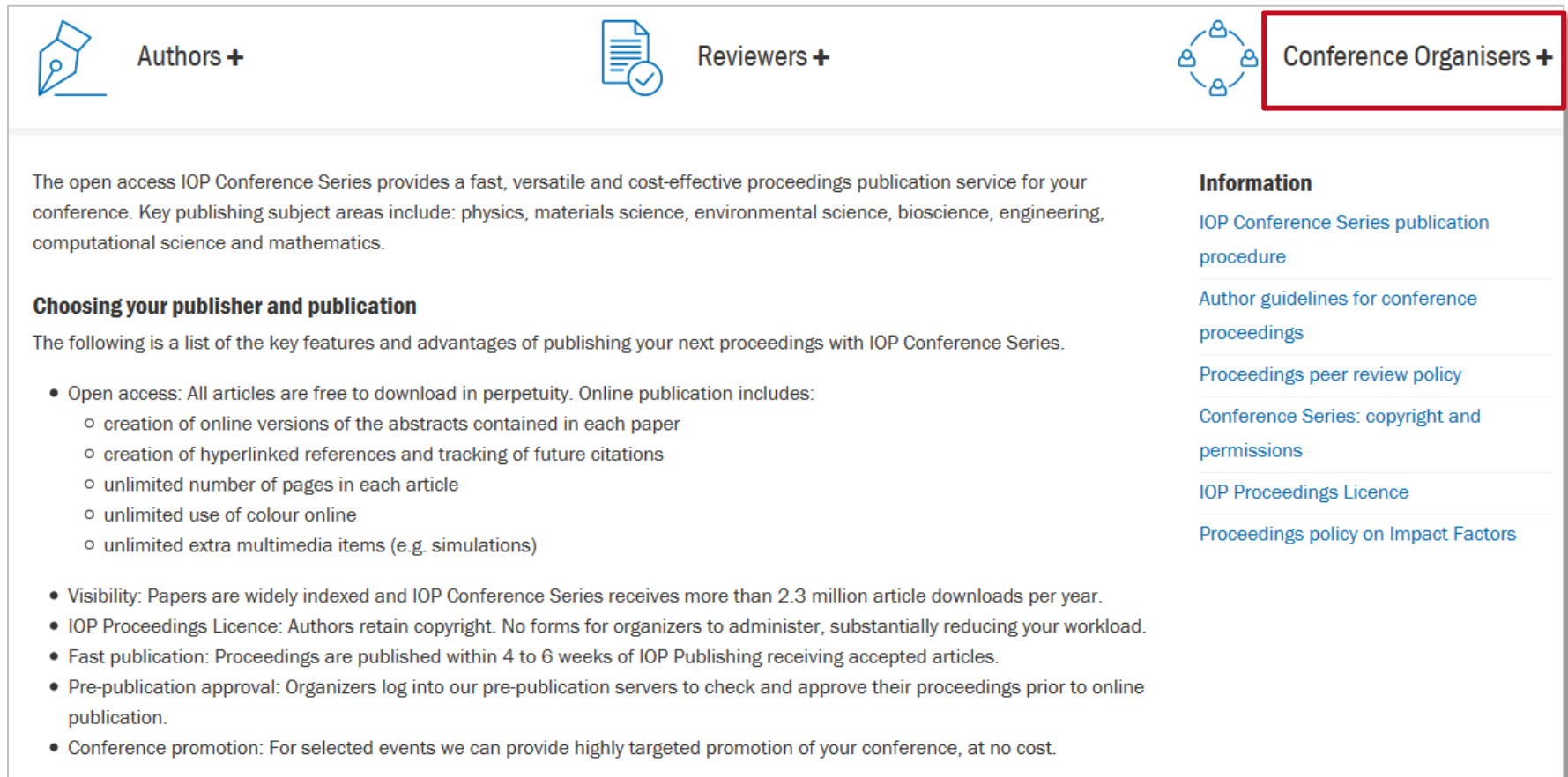
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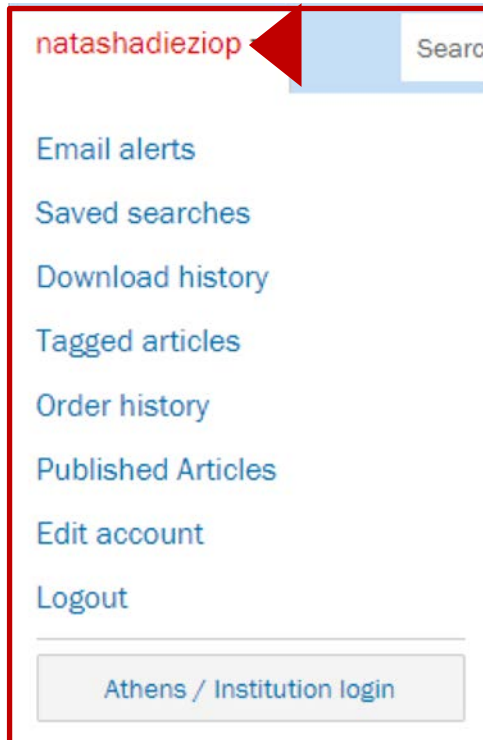
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John Cook^{1,2,3}, Dana Nuccitelli^{2,4}, Sarah A Green⁵, Mark Richardson⁶, Bärbel Winkler², Rob Painting², Robert Way⁷, Peter Jacobs⁸ and Andrew Skuce^{2,9}

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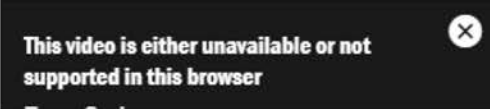
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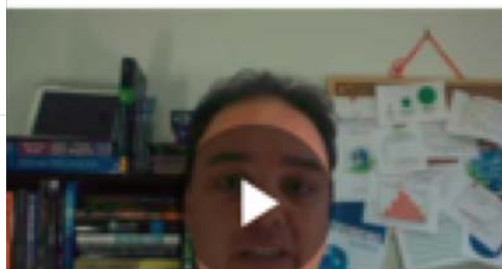
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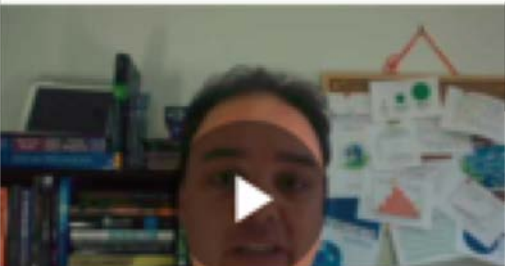
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Abstract

1. Introduction

2. Lattice parameters, band-structure calculations and vibrational properties

3. Band-edge energy differences and spin-splittings

4. VB width D_{vb}

5. Effective model at the K and $-K$ points

6. Effective models at the Q (a.k.a. Λ) point

7. Effective models at the Γ point

8. The M point: spin-orbit splitting of the Van Hove singularity

9. Conclusions

Acknowledgments

Appendix A.: Seven-band $\mathbf{k}\cdot\mathbf{p}$

.....

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- Figures ▾
- References ▾



results.

Índice

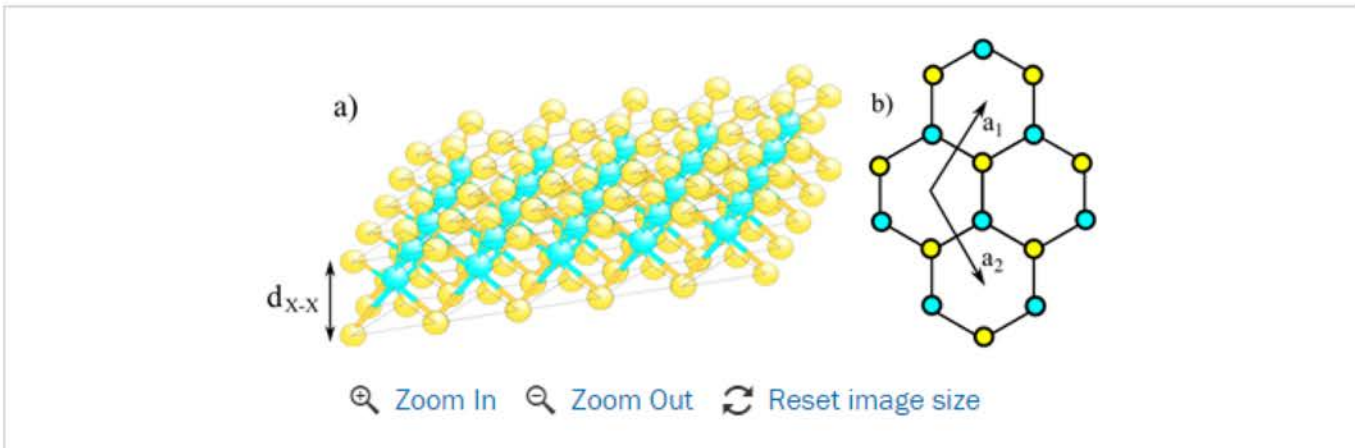


Figure 1. Crystal structure of monolayer MX₂. (a) Side view and (b) top view. Metal atoms are cyan and chalcogens are yellow. The lattice vectors **a**₁ and **a**₂ are also shown.

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- Abstract
- 1. Introduction
- 2. Lattice parameters, band-structure calculations and vibrational properties
- 3. Band-edge energy differences and spin-splittings
- 4. VB width **D**_{vb}
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- 7. Effective models at the Γ point
- 8. The *M* point: spin-orbit splitting of the Van Hove singularity
- 9. Conclusions
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- Appendix A.: Seven-band **k.p**

Finally, we note that the field of TMDCs, akin to that of graphene [70–73], has witnessed a large



Acceso rápido a todas las figuras del artículo, algunas interactivas o con video

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Figure 1.

Figure 2.

Figure 3.

Figure 4.

Videos

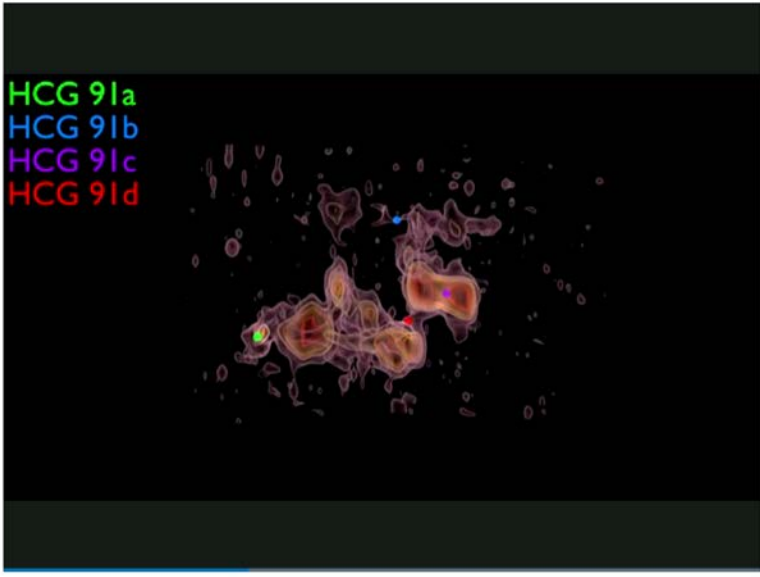


Figure 5.

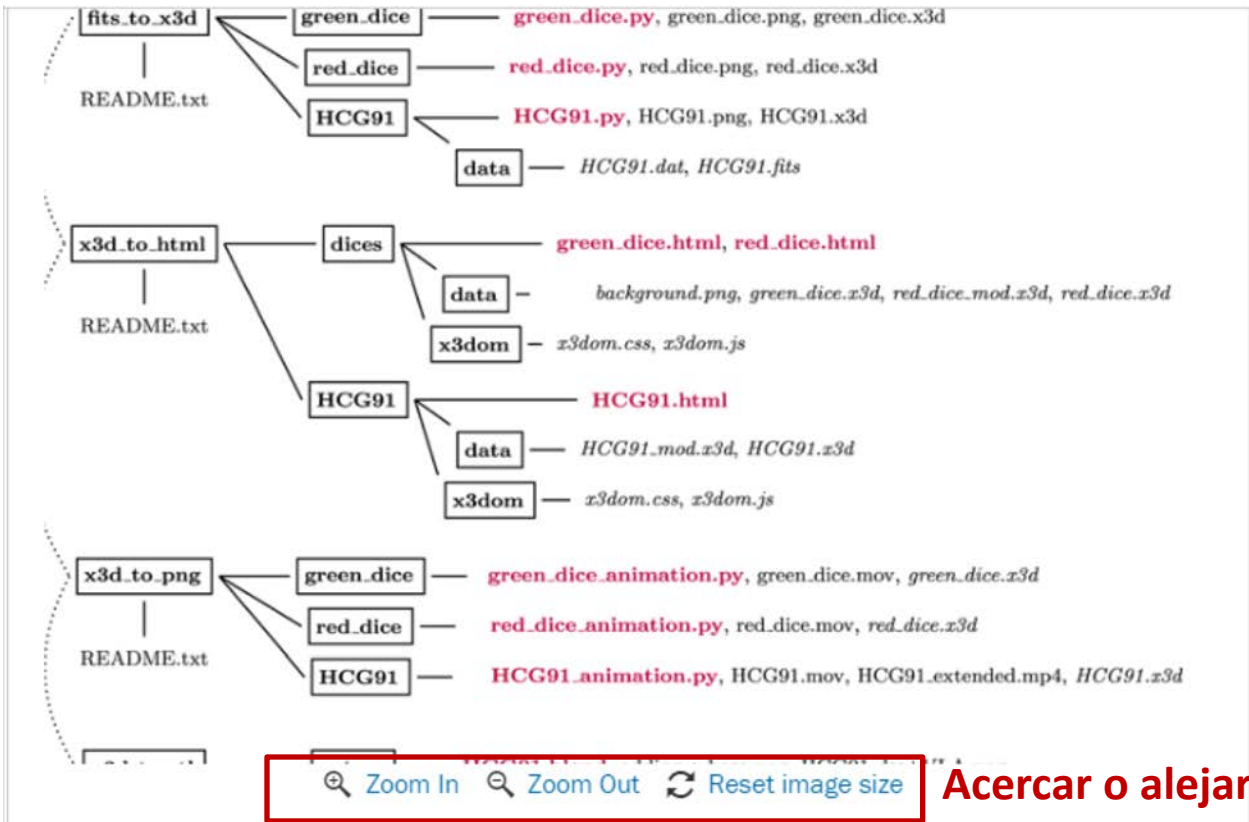
Final BLENDER rendered view of the H I iso-intensity contours in HCG 91 observed by the VLA (first exported to X3D using MAYAVI) generated using the PYTHON script provided as supplementary material to this article. An [animation](#) of this figure is available.

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Figure 6. Structure and content of the supplementary material associated with this article. Folders are marked with boxes. Scripts and instruction files are marked in bold purple. Required data input files are in italic. Four dedicated "README" files provide a specific introduction to the different families of examples. This material can be downloaded as free software (under the GNU General Public License version 3) from its dedicated Github repository (<http://dx.doi.org/10.5281/zenodo.45079>).

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- [↑](#) Allègre C *et al* 2012 No need to panic about global warming *Wall Street Journal* (<http://online.wsj.com/article/SB10001424052970204301404577171531838421366.h>) accessed 14 September 2012)

- [↑](#) Anderegg W R L, Prall J W, Harold J and Schneider S H 2010 Expert credibility in climate change *Proc. Natl Acad. Sci. USA* **107** 12107–9
[Crossref](#)

- [↑](#) Boykoff M T 2007 Flogging a dead norm? Newspaper coverage of anthropogenic climate change in the United States and United Kingdom from 2003 to 2006 *Area* **39** 470–81
[Crossref](#)

- [↑](#) Boykoff M T and Boykoff J M 2004 Balance as bias: global warming and the US prestige

$$H_0 = \sum_{\lambda,i} E_i^\lambda a_{\lambda,i}^\dagger a_{\lambda,i} + \sum_Q \hbar \omega_Q \left(B_Q^\dagger B_Q + \frac{1}{2} \right) \quad (1)$$

as the non-interacting parts of the carrier-photon system, where $a_{\lambda,i}^\dagger$ and $a_{\lambda,i}$ are the creation and annihilation operators for electronic states, respectively. The corresponding operators for the photon, with a general mode index Q and energy $\hbar \omega_Q$, are B_Q^\dagger and B_Q .

The carrier-carrier interaction is given by the Coulomb term

$$H_C = \sum_{\lambda,\lambda'} \sum_{i,j,k,l} V_{i,j;k,l}^{\lambda,\lambda'} a_{\lambda,i}^\dagger a_{\lambda',j}^\dagger a_{\lambda',k} a_{\lambda,l} \quad (2)$$

and the light-matter interaction is given by the dipole Hamiltonian

$$H_D = - \sum_{\lambda} \sum_{Q,i,j} [F_{\lambda;i,j}^Q B_Q + (F_{\lambda;j,i}^Q)^* B_Q^\dagger] a_{\lambda,i}^\dagger a_{\lambda,j} \quad (3)$$

The interaction-matrix elements in these are

$$V_{i,j;k,l}^{\lambda,\lambda'} = \frac{e^2}{4\pi\epsilon} \int d^3r d^3r' \frac{\xi_{\lambda,i}^*(\mathbf{r}) \xi_{\lambda',j}^*(\mathbf{r}') \xi_{\lambda',k}(\mathbf{r}') \xi_{\lambda,l}(\mathbf{r})}{|\mathbf{r} - \mathbf{r}'|}, \quad (4)$$

$$F_{\lambda;i,j}^Q = i\epsilon_Q \mathbf{d}_{i,j}^{\lambda,\bar{\lambda}} \cdot \int d^3r \xi_{\lambda,i}^*(\mathbf{r}) \mathbf{u}_Q(\mathbf{r}) \xi_{\bar{\lambda},j}(\mathbf{r}), \quad (5)$$

Fórmulas en MathJax

Permite visualizar las ecuaciones matemáticas de forma correcta en navegadores web sin que se desconfiguren.

Portada de inicio con todos los datos importantes del artículo. Pagina 1.

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ENVIRONMENTAL RESEARCH LETTERS

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Quantifying the consensus on anthropogenic global warming in the scientific literature

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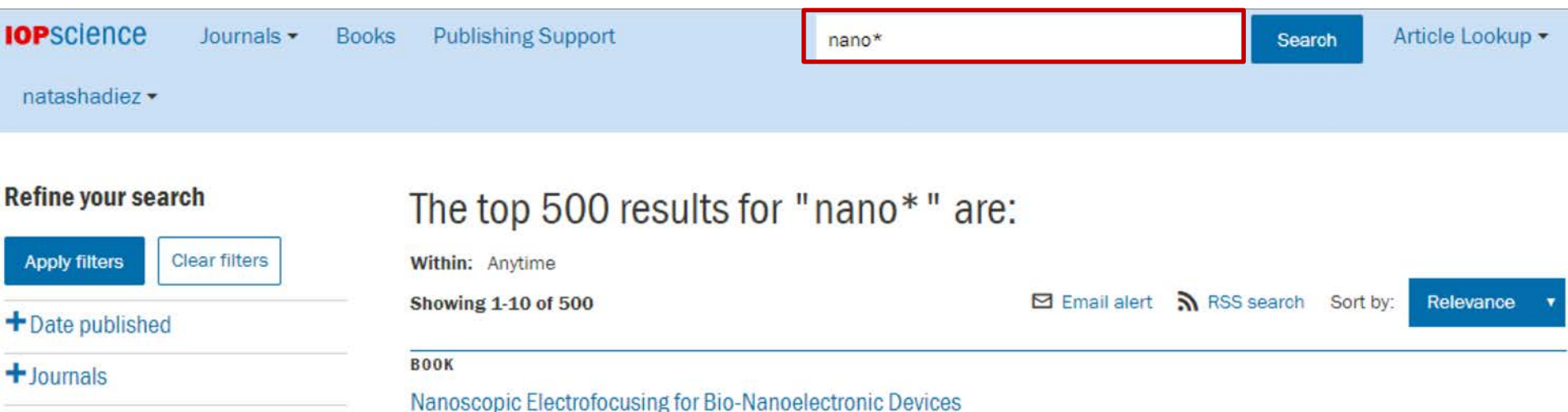
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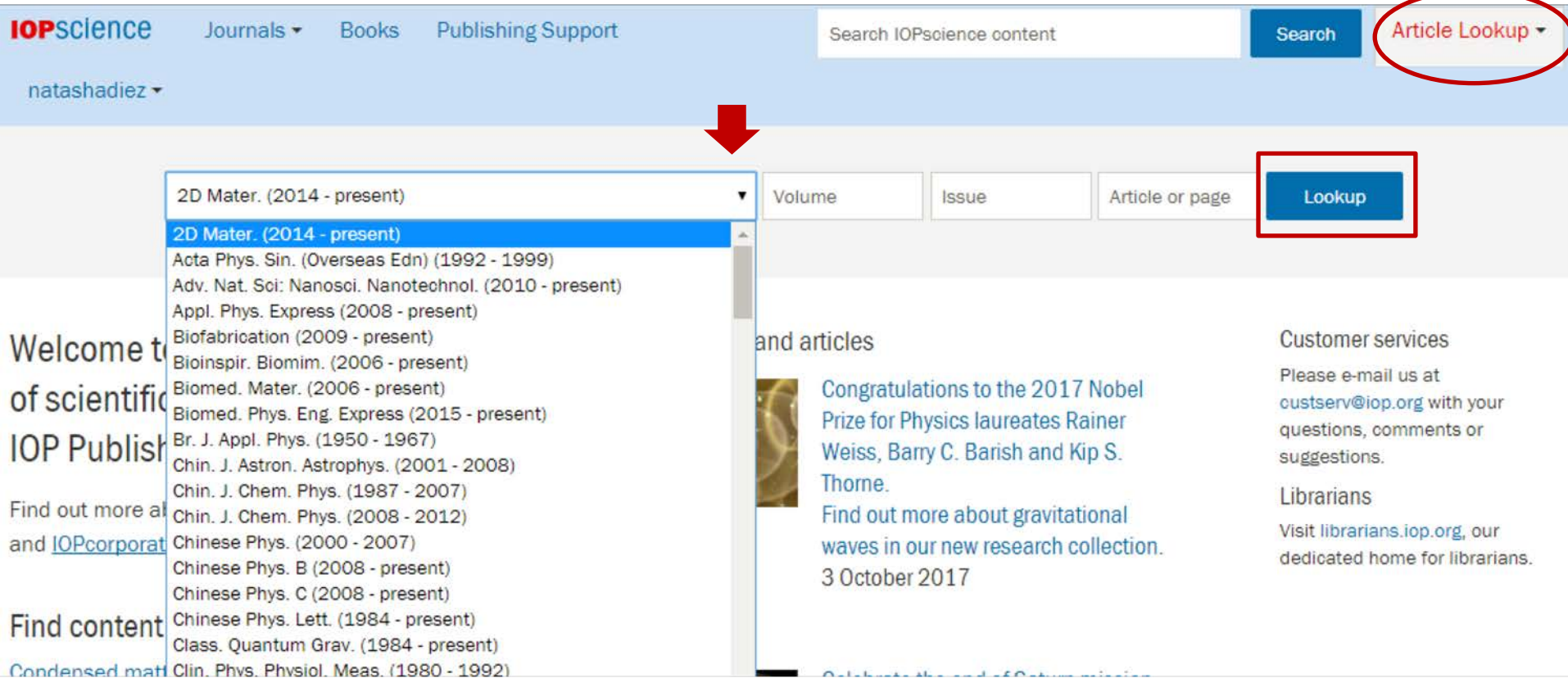
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