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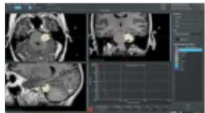
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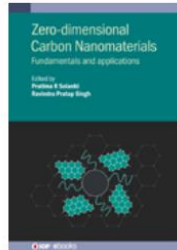
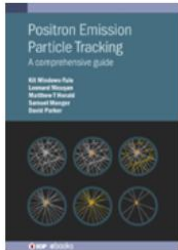
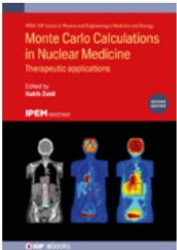
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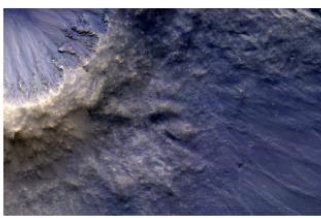
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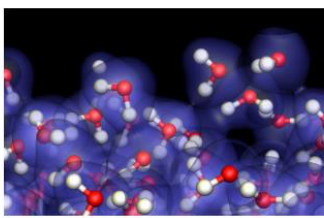
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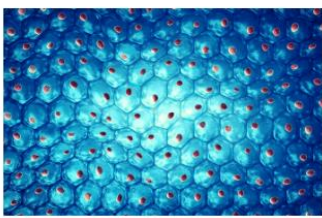
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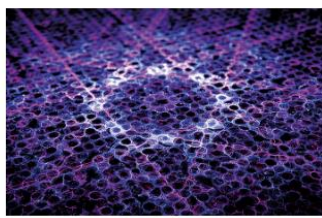
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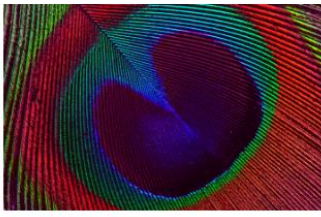
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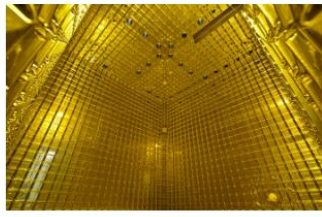
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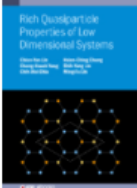
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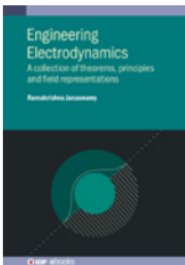
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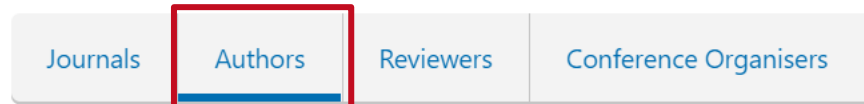
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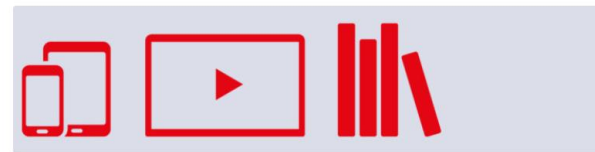
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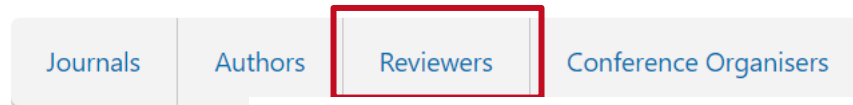
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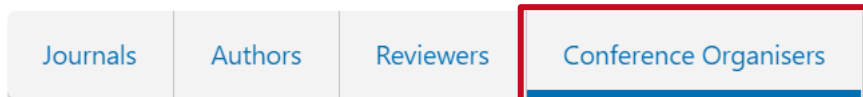
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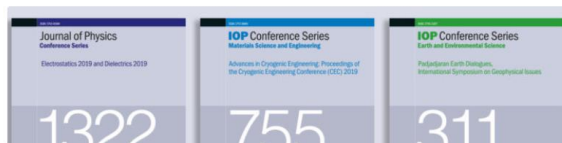
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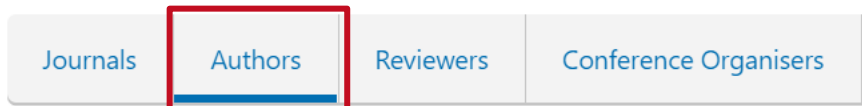
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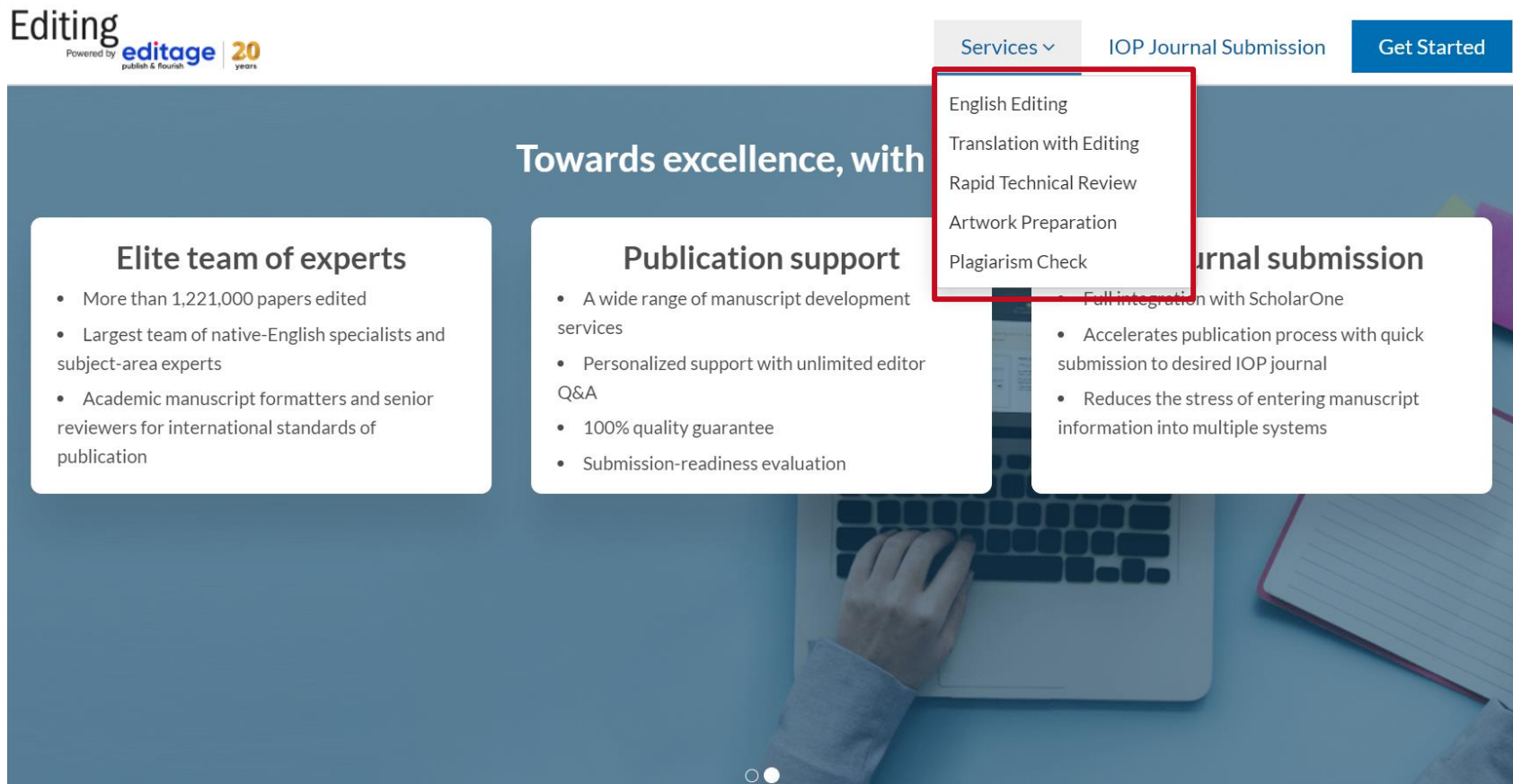
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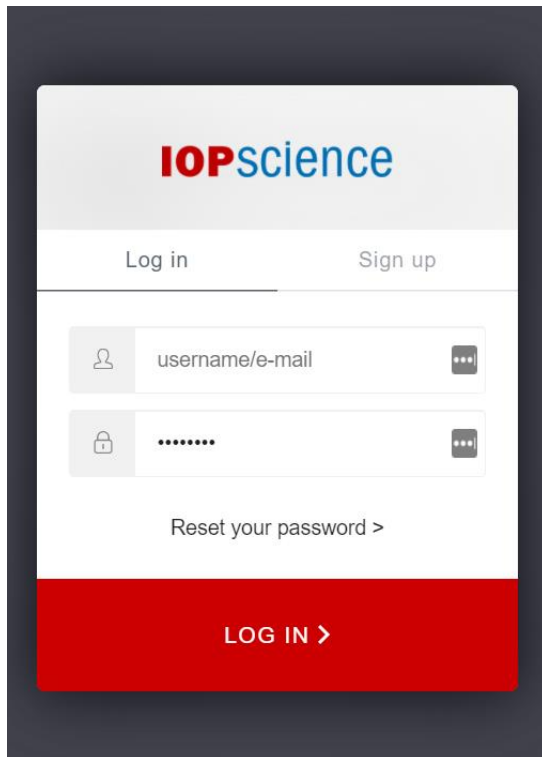
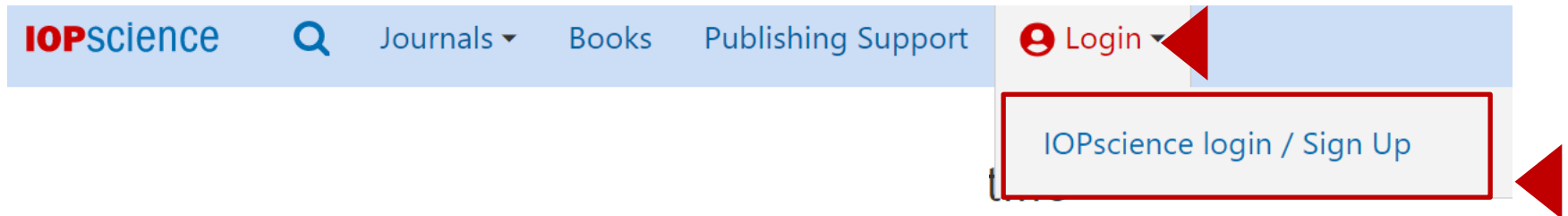
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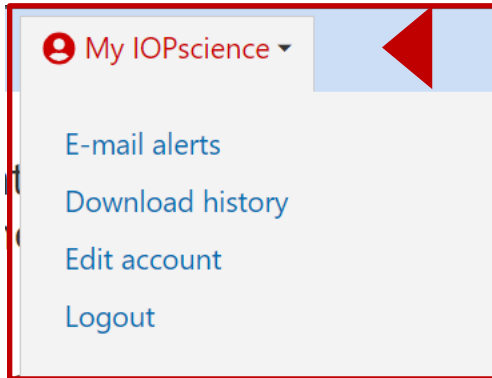
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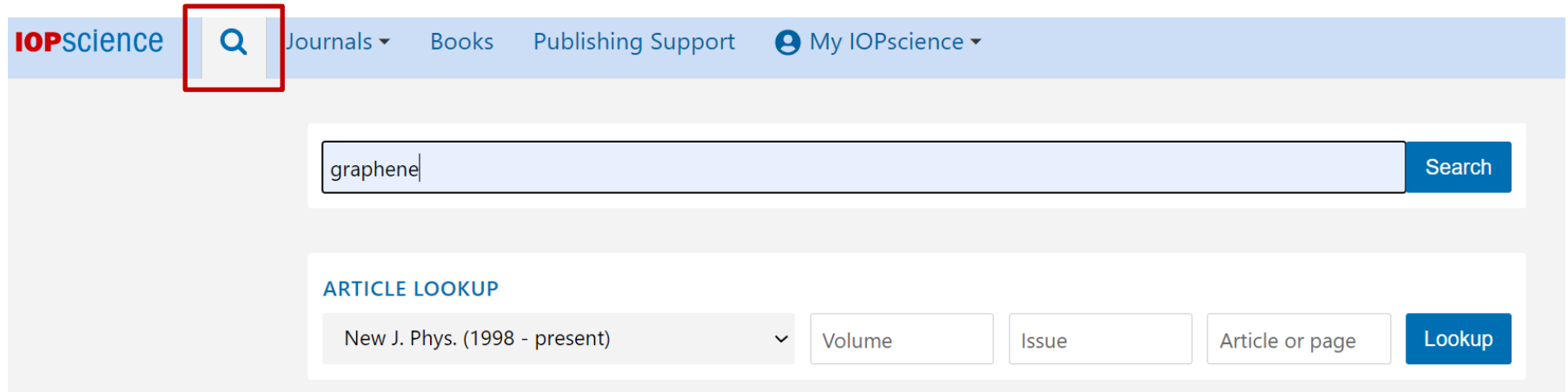
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John Cook^{1,2,3}, Dana Nuccitelli^{2,4}, Sarah A Green⁵, Mark Richardson⁶, Bärbel Winkler², Rob Painting², Robert Way⁷, Peter Jacobs⁸ and Andrew Skuce^{2,9}

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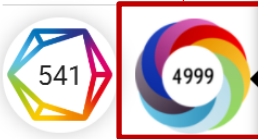
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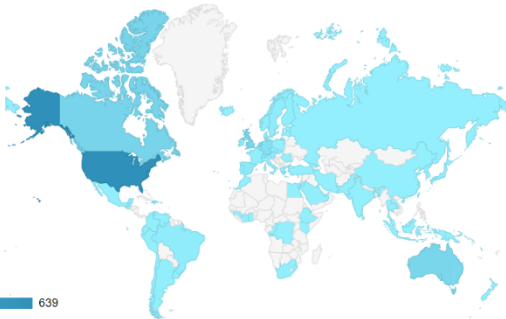
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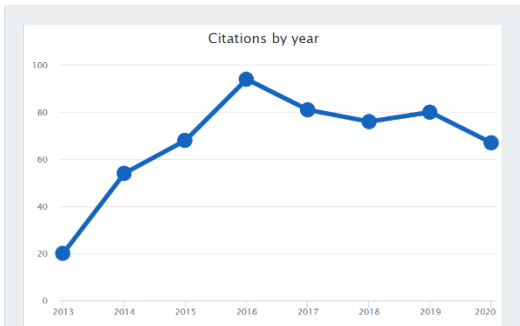
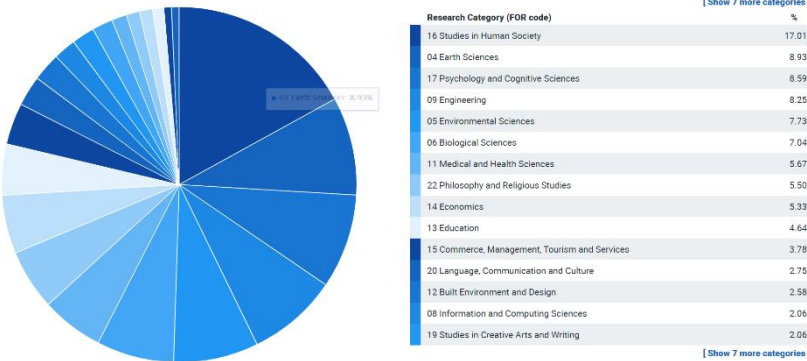
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Abstract

1. Introduction

2. Ti/Si truncated cones based WSA

3. Solar absorption efficiency of the Ti/Si WSA

4. Resonant behaviors of the Ti/Si WSA

5. Optical properties of the WSA with Ge and GaAs

6. Absorption responses of the WSA under different geometry features

7. Absorption responses of the absorber without the semiconductor

8. Conclusion

Acknowledgments

Conflict of interest

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Figure 3. (a)–(c) Charge and electromagnetic field distributions of the truncated Ti/Si resonators based WSA at the resonant absorption peaks with the wavelength of $0.818\ \mu\text{m}$, $1.293\ \mu\text{m}$, $3.020\ \mu\text{m}$, respectively.

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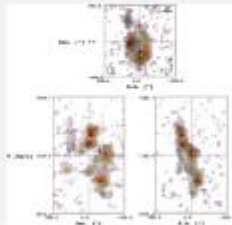


Figure 3.



Figure 4.

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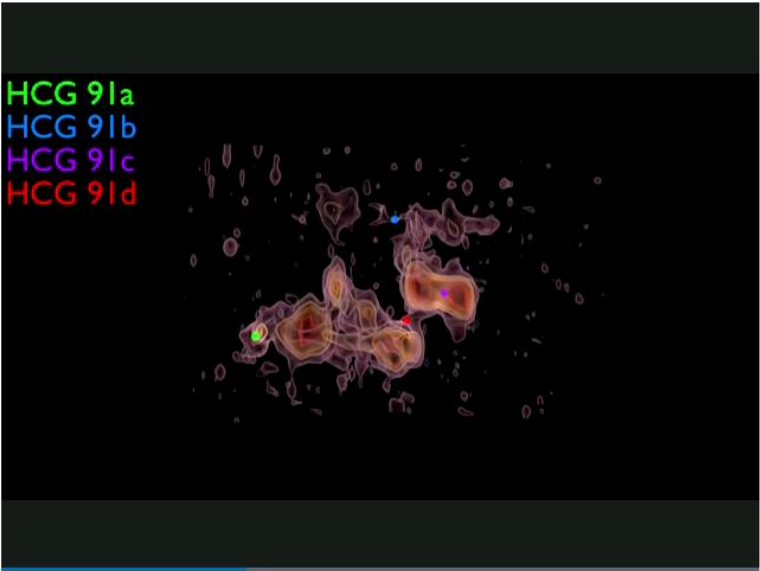


Figure 5.

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

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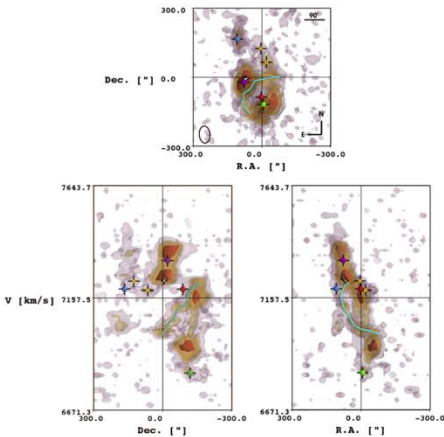


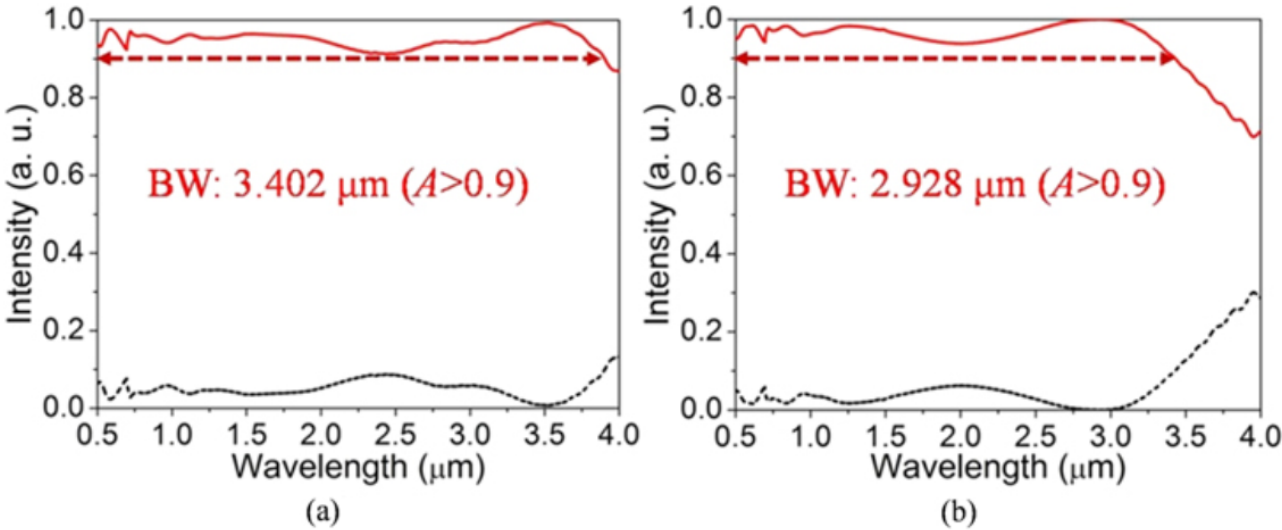
Figure 3. H I gas distribution and kinematics of the compact group of galaxies HCG 91 observed by the VLA. Individual intensity iso-contours at 1.3, 2.5, 3.5, and 6.0 mJy/beam are fitted in 3D inside the datacube before being projected along top-front-side projections. The innermost contour is fully opaque, while the others are set at 80% transparency to enable a *see-through* effect. The galaxies HCG 91a, b, c, and d are marked with green, blue, purple, and red spheres, respectively. A large tidal tail originating to the southeast of HCG 91a is traced inside the 3D cube with a cyan line, and other elements of interest are marked with white and yellow cubes (see Vogt et al. 2015 for details). In the top panel, the black ellipse traces the beam size and orientation associated with the VLA data. An interactive version of this figure is accessible online as an interactive HTML document.

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Figure 4. (a) and (b) Spectral reflection and absorption for the Ti/Ge, Ti/GaAs resonators based WSA, respectively.

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↑

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
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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
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↑

Boykoff M T and Boykoff J M 2004 Balance as bias: global warming and the US prestige



$$f(a) = \frac{1}{2\pi i} \oint_{\gamma} \frac{f(z)}{z-a} dz$$

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

as the non-interacting parts of the carrier–photon system, where $a_{\lambda,j}^{\dagger}$ 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

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

The interaction-matrix elements in these are

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

$$F_{\lambda,i,j}^Q = i\mathcal{E}_Q d_{i,j}^{\lambda,\lambda'} \cdot \int d^3r \xi_{\lambda,i}^*(\mathbf{r}) \mathbf{u}_Q(\mathbf{r}) \xi_{\lambda,j}(\mathbf{r}), \quad (5)$$

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Quantifying the consensus on anthropogenic global warming in the scientific literature

John Cook^{1,2,3}, Dana Nuccitelli^{2,4}, Sarah A Green⁵, Mark Richardson⁶,
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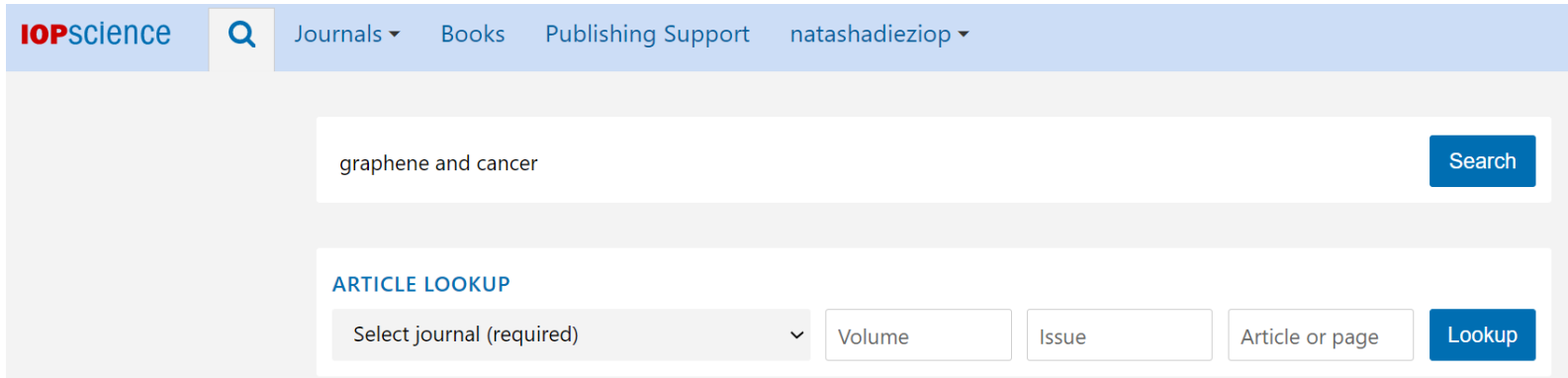
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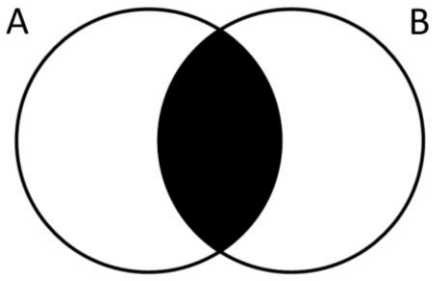
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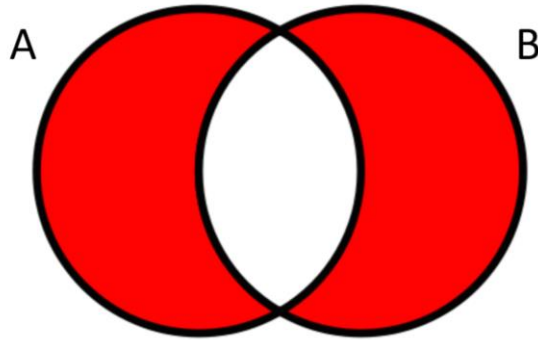
“AND”, “+” ó “&”

- El resultado va a incluir todos los términos



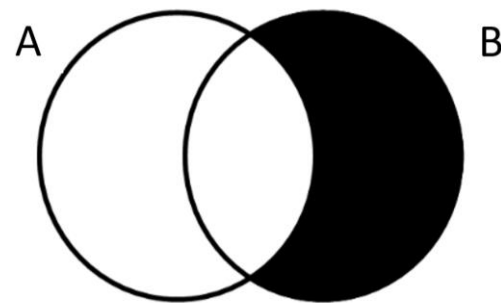
“XOR”

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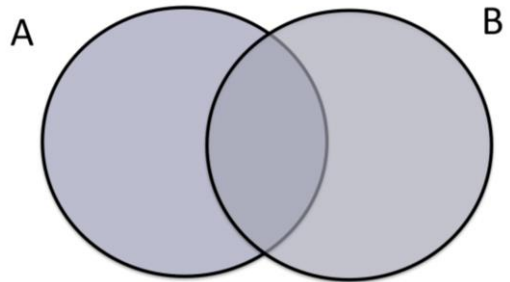
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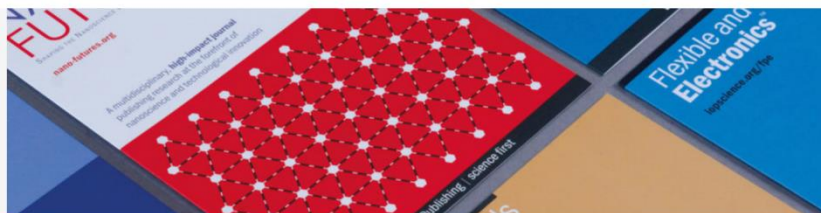
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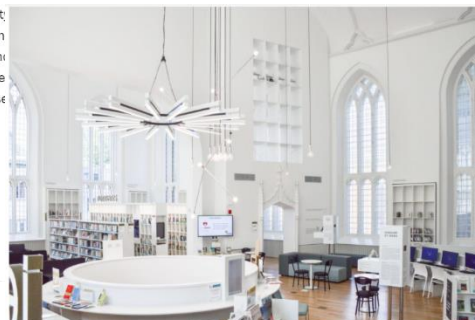
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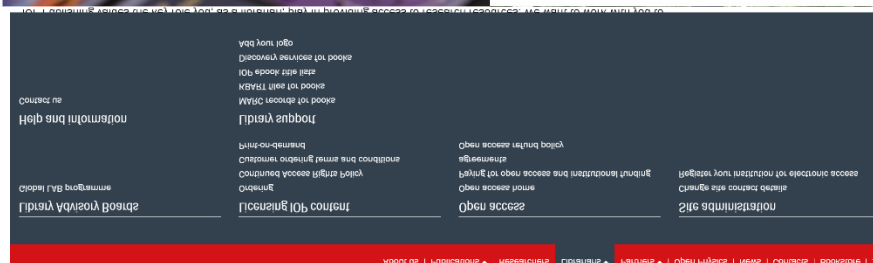
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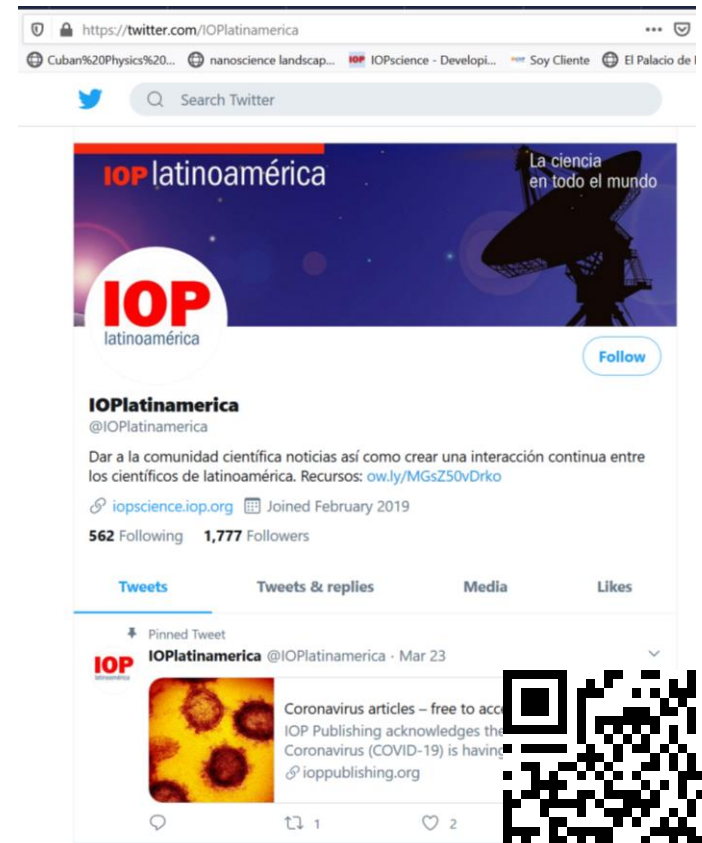
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