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## Triphenylene-based molecules as Organic Spacers for tuning structure and electronic properties of 2D perovskites materials

### Researchers:

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Idioma: Castelhana

### Descrição:

Proyecto asignado a través de la Red Española de Supercomputación ([RES](#) [2]).

Two-dimensional (2D) hybrid organic-inorganic perovskites have shown great application potential in solar cells and other optoelectronic devices. Based on DFT simulations and AIMD, we study the structure, stability and electronic-structure related properties of a series of 2D Ruddlesden-Popper and Dion-Jacobson perovskites, which adopt the general formula  $Y_2BX_4$  and  $YBX_4$ , respectively, with  $Y$  = TriPh-based organic bication or cation,  $B$  = Pb, Sn;  $X$  = Cl, Br, I).

### Web:

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**URL de origem:** <https://www.cenits.es/pt-pt/node/2268>

### Ligações

[1] <https://www.uva.es/export/sites/uva/> [2] <https://www.res.es/>