
The mechanism of the two-step spin-transition of a thiazyl-diradical-based material presenting geometrical frustration.

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Language Undefined

Description:

Proyecto asignado a través de la [Red Española de Supercomputación](#) [1].

Recent years have witnessed a growing interest in the research of molecular materials that can be switched between two different states through the application of an external stimulus (e.g. heat, light) because these materials have a great potential for application in sensors, displays and in information technology. The main goal of this Activity is to understand the mechanisms underlying the two-step spin transition of a recently-prepared material made of bis-dithiadiazolyl diradicals and to decipher the origin of the geometrical frustration of one of its phases. Our results will provide useful insights on how to properly harness labile pi-pi interactions in stacks of diradicals in order to develop new diradical-based switchable materials.

Source

URL:<https://web.computaex.es/en/proyectos/mechanism-two-step-spin-transition-thiazyl-diradical-based-material-presenting-geometrical>

Links

[1] <https://www.res.es/>