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Hybrid Iron-Based Superconductors

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Message from the Guest Editor

Hybrid organic–inorganic iron-based superconductors belong to the growing family of layered iron chalcogenides that over the last decade have been a subject of unflinching interest in the field of solid-state chemistry and physics. Several structural models, partly supported by theoretical calculations, have already been solved for a few of these hybrid phases, while for the others they are still under development. Latest reports on monolayers prepared from parent iron chalcogenides suggest that even higher values of transition temperatures to superconducting state can be expected in hybrid 2-D systems obtained via chemical routes, where upon intercalation large organic molecules push apart the inorganic slabs resulting in the formation of alternating stacks of practically single iron-chalcogenide layers separated by organics.



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