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Research areas : Modelling and Simulations on Nano materials

Title of the research : Mixed Anion Halide Perovskite for Photovoltaic Applications

Current position : MPhil Student, University of Jaffna, Sri Lanka

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Description of current and past research:

In the field of photovoltaic research community of double perovskites solar cells acts as a major role by considering their environmental issues and the matter of stability. Using density functional theory calculations, we study structural and electronic properties of double perovskites. Structural stability and electronic structure analysis of all the compounds have been carried out using the VASP simulation package by using the different exchange-correlation functionals. Using these theoretical findings, we can show new approach to fabricate environmental friendly double perovskites solar cells alternative to the lead halide perovskites.