## R. Vidya

## Assistant Professor,

## Department of Medical Physics, Anna University

## **Publications**

- 1. D Bharath Raja, K Shanmuga Sundaram, R Vidya, First principle study on hybrid organic-inorganic perovskite ASnBr3 (A= Formamidinium, Dimethylammonium and Azetidinium), Solar Energy, Vol.207, Pages: 1348-1355, 2020
- 2. RM Jebasty, R Vidya, Elucidating reaction equations of TiFx (x= 4, 3, 2) catalysts for hydrogen storage applications, International Journal of Hydrogen Energy, Vol.45 (4), Pages: 2818-2828, 2020
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- 4. RM Jebasty, R Vidya, Mechanical Properties of Multifunctional TiF4 from First-Principles Calculations, ACS Biomaterials Science & Engineering, Vol.5 (4), Pages 2001-2012, 2019
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- 6. L Patra, R Vidya, H Fjellvåg, P Ravindran, Giant Magnetoelectric Coupling in Multiferroic PbTi1–xVxO3 from Density Functional Calculations, ACS omega, 2019
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- 8. RM Jebasty, R Vidya, Calculation of Elastic Properties of Titanium Fluoride Compounds—A DFT Study, International Workshop on the Physics of Semiconductor and Devices, Pages: 1177-1183, 2017

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- 10. R Vidya, G Baskaran, Valence Bond Order and Antiferromagnetism in Silicene-ab initio Results, arXiv preprint arXiv:1709.04664, 2017
- 11. L Patra, MRA Kishore, R Vidya, AO Sjåstad, H Fjellvåg, P Ravindran, Electronic and Magnetic Structures of Hole Doped Trilayer La4–xSrxNi3O8 from First-Principles Calculations, Inorganic chemistry Vol.55 (22), Pages:11898-11907,2016
- 12. MRA Kishore, H Okamoto, L Patra, R Vidya, AO Sjåstad, H Fjellvåg, P Ravindran, Theoretical and experimental investigation on structural, electronic and magnetic properties of layered Mn 5 O 8, Physical Chemistry Chemical Physics Vol: 18 (40), Pages: 27885-27896,2016
- 13. P Manimuthu, R Vidya, P Ravindran, H Fjellvåg, C Venkateswaran, Observation of direct magneto-dielectric behaviour in Lu 3 Fe 5 O 12– δ above room-temperature, Physical Chemistry Chemical Physics, 2015
- 14. MF Iozzi, P Vajeeston, R Vidya, P Ravindran, H Fjellvåg, Structural and electronic properties of transparent conducting delafossite: a comparison between the AgBO 2 and CuBO 2 families (B= Al, Ga, In and Sc, Y), RSC Advances, Vol.5, Pages: 1366-1377, 2015