

## Papers Published

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1. Sol gel synthesized Zn+ Mgcodoped TiO<sub>2</sub> for dye sensitized solar cell (DSSC) application B Manikandan, R John - AIP Conference Proceedings, 2020
2. First principles study on the structural, electronic, magnetic and thermoelectric properties of CoX' NbGa (X'= Cr, Mn, Fe) quaternary Heusler alloys NA Koshi, R John - The European Physical Journal B, 2019
3. Spin polarized first principles calculations on electronic, magnetic and optical properties of Zn (1- x) AxS (A= Cr/Mn/Fe) using mBJ approximation S.Padmavathi, R John - Materials Science and Engineering: B, 2019
4. Half-Metallic Ferrimagnetism in CoFeNbZ (Z= Al, Si, Ge, Sn) Quaternary Heusler Alloys: a DFT Study NA Koshi, R John - Journal of Superconductivity and Novel Magnetism, 2019.
5. Properties of sol gel synthesized ZnO nanoparticles B Manikandan, T Endo, S Kaneko, KR Murali, R John - Journal of Materials Science: Materials in Electronics, 2018
6. Ab initio calculation on the Optical Properties of AA-Stacked two dimensional Graphene, Silicene, Germanene, and Stanene R John, B Merlin - International Journal of Computational Physics Series, 2018
7. Optical properties of graphene, silicene, germanene, and stanene from IR to far UV—A first principles study R John, B Merlin - Journal of Physics and Chemistry of Solids, 2017
8. Synthesis and characterization of ZnS<sub>x</sub>Se<sub>1-x</sub> films using Brush plating technique C Dhanemozhi, R John, KR Murali - Materials Today: Proceedings, 2017

9. Band Jahn Teller Like Distortion In TiPd Shape Memory Alloy On Addition Of Magnetic Impurity Co R John, NA Koshi - Procedia engineering, 2017.
  10. Theoretical investigation of structural, electronic, and mechanical properties of two dimensional C, Si, Ge, Sn R John, B Merlin - Crystal Structure Theory and Applications, 2016.
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