

Dr. R. RAMESH BABU

PUBLICATIONS:

1. Kumaresan, N., Maria Angelin Sinthiya, M., Praveen Kumar, M., Ravichandran, S., Ramesh Babu, R., Sethuraman, K., & Ramamurthi, K. (2020). Investigation on the photocatalytic and sonophotocatalytic activities of {002} facets of ZnO nanoparticles synthesized through template/surfactant-free hydrothermal method at different temperatures and time durations. *Journal of Materials Science: Materials in Electronics*.
2. Kumaresan, N., Maria Angelin Sinthiya, M., Sarathbavan, M., Ramamurthi, K., Sethuraman, K., & Ramesh Babu, R. (2019). Synergetic effect of g-C₃N₄/ZnO binary nanocomposites heterojunction on improving charge carrier separation through 2D/1D nanostructures for effective photocatalytic activity under the sunlight irradiation. *Separation and Purification Technology*, 116356.
3. Ramarajan, R., Kovendhan, M., Thangaraju, K., Joseph, D. P., Babu, R. R., & Elumalai, V. (2020). Enhanced optical transparency and electrical conductivity of Ba and Sb co-doped SnO₂ thin films. *Journal of Alloys and Compounds*, 153709.
4. Senthilkumar, P., Vasuki, G., Babu, R. R., & Raja, S. (2020). Influence of Cd doping on the structural, optical and morphological properties of SnO₂ thin films. 3rd International Conference On Condensed Matter And Applied Physics (ICC-2019).
5. Ragunath, B. S., Sangeetha, K., & Babu, R. R. (2020). Reverse Saturable Absorption and Optical Limiting Application of Methyl Orange Dye Doped L-Arginine Monohydrochloride (LAHCl) Single Crystals. *Crystal Research and Technology*, 1900190.
6. Kumaresan, N., Maria Angelin Sinthiya, M., Ramamurthi, K., Ramesh Babu, R., & Sethuraman, K. (2019). Visible light driven photocatalytic activity of ZnO/CuO nanocomposites coupled with rGO heterostructures synthesized by solid-state method for RhB dye degradation. *Arabian Journal of Chemistry*.
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9. Ramarajan, R., Kovendhan, M., Thangaraju, K., Joseph, D. P., & Babu, R. R. (2019). Facile deposition and characterization of large area highly conducting and transparent Sb-doped SnO₂ thin film. *Applied Surface Science*.

10. Ramarajan, R., Kovendhan, M., Babu, R. R., Thangaraju, K., & Joseph, D. P. (2019). Optimization and transport properties of “Nb” doped SnO₂ thin film as an alternate TCO application. DAE SOLID STATE PHYSICS SYMPOSIUM 2018.
11. Subashini, A., Priyadharsani, P., Thamaraiselvi, K., Veeramani, V., Rose, P., Philip, R., Babu, R. R. (2018). Studies on growth and characterization of (E)-N'-[4-(dimethylamino) benzyldiene]-4-hydroxybenzohydrazide hemihydrate: a nonlinear optical material. Journal of Materials Science: Materials in Electronics.
12. Raja, S., Vadivel, M., Ramesh Babu, R., Sathish Kumar, L., & Ramamurthi, K. (2018). Ferromagnetic and dielectric properties of lead free KNbO₃-CoFe₂O₄ Composites. Solid State Sciences.
13. Bhuvaneswari, P. V., Ramamurthi, K., & Babu, R. R. (2018). Effect of substrate temperature on the structural, morphological and optical properties of copper bismuth sulfide thin films deposited by electron beam evaporation method. Journal of Materials Science: Materials in Electronics.
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15. Mathuri, S., Ramamurthi, K., & Ramesh Babu, R. (2018). Effect of Sb incorporation on the structural, optical, morphological and electrical properties of CdSe thin films deposited by electron beam evaporation technique. Thin Solid Films, 660, 23–30.
16. Margoni, M. M., Mathuri, S., Ramamurthi, K., Babu, R. R., Ganesh, V., & Sethuraman, K. (2018). Hydrothermally grown nano and microstructured V₂O₅ thin films for electrochromic application. Applied Surface Science, 449, 193–202.
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19. Margoni, M. M., Mathuri, S., Ramamurthi, K., Babu, R. R., & Sethuraman, K. (2017). Sprayed vanadium pentoxide thin films: Influence of substrate temperature and role of HNO₃ on the structural, optical, morphological and electrical properties. Applied Surface Science, 418, 280–290.
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26. . PA Praveen, R Ramesh Babu, (2017), Theoretical and experimental evaluation of structural and optical properties of novel zinc-benzimidazole metal complex doped in polystyrene matrices, *AIP Conference Proceedings* 1832 (1), 140038.
27. P Velusamy, R Ramesh Babu, KT Aparna ((2017), Effect of Sm doping on the physical properties of ZnO thin films deposited by spray pyrolysis technique, *AIP Conference Proceedings* 1832 (1) , 080085
28. MM Margoni, S Mathuri, K Ramamurthi, R Ramesh Babu, K Sethuraman, (2017), Sprayed vanadium pentoxide thin films: Influence of substrate temperature and role of HNO₃ on the structural, optical, morphological and electrical properties, *Applied Surface Science*, 418, 280–290.
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optical properties of $(\text{CdO})_x(\text{ZnO})_{1-x}$ thin films deposited by spray pyrolysis method, *J Mater Sci: Mater Electron* 27, 8111–8117.

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