

List of Journal publications:

1. KR Kalimuthu, SM Babu, V Kalimuthu. Synthesis and photoluminescence properties of Sm³⁺ doped LiGd (WO₄)₂ phosphors with high color purity, Journal of Optical Materials, 102, 109804, 2020.
2. M Senthilkumar, CI Mary, G Manobalaji, SM Babu, Investigation on Cu_xS nanoparticles based hole transfer layer as an inexpensive alternative for next generation solar cells, AIP Conference Proceedings, 2265 (1), 030610, 2020.
3. CI Mary, M Senthilkumar, G Manobalaji, SM Babu, Surface-treated Cu₂ZnSnS₄ nanoflakes as Pt-free inexpensive and effective counter electrode in DSSC, Journal of Materials Science: Materials in Electronics, 1-11, 2020.
4. G Manobalaji, M Pandiyarajan, M Senthilkumar, SM Babu, A modified high-temperature vapour deposition technique for fabricating thin films under an ambient atmosphere. Journal of Bulletin of Materials Science, 42 (6), 276, 2019.
5. M Senthilkumar, CI Mary, M Pandiyarajan, G Manobalaji, SM Babu, Copper indium sulphide: zinc sulphide (CIS: ZnS)-alloyed quantum dots as an eco-friendly absorber in solar cells, Journal of Bulletin of Materials Science, 42 (6), 270, 2019.
6. CI Mary, M Senthilkumar, SM Babu, Ligand exchange in nanoparticles and its effect on counter electrode performance in dye-sensitized solar cells, Journal of Bulletin of Materials Science, 42 (6), 256, 2019.
7. S Ananthakumar, D Balaji, JR Kumar, SM Babu, Role of co-sensitization in dye-sensitized and quantum dot-sensitized solar cells, Journal of SN Applied Sciences, 1 (2), 186, 2019.
8. KK Rasu, SM Babu, Impact of Eu³⁺ concentration on the fluorescence properties of the LiGd (W_{0.5}Mo_{0.5}O₄)₂ novel red phosphors, Journal of Solid State Sciences, 98, 106028, 2019.
9. S Ananthakumar, SM Babu, Coordinating Effect of Non-phosphine Solvents on the Structure and Morphological Properties of Cu₂SnSe₃ (CTSe) Nanoparticles Synthesized by Hot-Injection, Journal of Inorganic and Organometallic Polymers and Materials, 29 (2), 477-482, 2019.
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11. D Pandiar, SK Nayanar, B Ankalkoti, S Babu, Laryngeal basaloid squamous cell carcinoma with a substantial spindle cell component: case presentation and updated review of literature, Journal of Head and Neck Pathology, 13 (4), 692-698, 2019.

12. M Senthilkumar, CI Mary, G Manobalaji, SM Babu, Ligand assisted tunability of morphological and optical properties of copper sulfide nanocrystals, *Journal of Materials Science in Semiconductor Processing*, 104, 104685, 2019.
13. M Pandiyarajan, G Manobalaji, M Senthilkumar, S Moorthy Babu, Shanthi Subashchandran, Effect of CH₃NH₃I vapour evaporation temperature on the quality of the lead-free bismuth based perovskites thin-films, *Journal of Materials Research Express*, 6 (6), 066418, 2019.
14. SK Nayanar, JP Tripathy, K Duraisamy, S Babu, Prognostic efficiency of clinicopathologic scoring to predict cervical lymph node metastasis in oral squamous cell carcinoma, *Journal of Oral and Maxillofacial Pathology: JOMFP* 23 (1), 36, 2019.
15. S Raja, RR Babu, K Ramamurthi, SM Babu, Room temperature ferromagnetic behavior, linear and nonlinear optical properties of KNbO₃ microrods, *Journal of Ceramics*, 44 (3), 3297-3306, 2018.
16. S Ananthakumar, SM Babu, Progress on synthesis and applications of hybrid perovskite semiconductor nanomaterials—A review, *Journal of Synthetic Metals*, 246, 64-95, 2018.
17. M Manikandan, BS Kumar, TM Raj, SM Babu, C Venkateswaran, Gas-Sensing Characteristics of SrFeO_{3-δ} Thin Film Probed by a Homemade Apparatus, *Journal of Electronic Materials*, 47 (8), 4678-4682, 2018.
18. K Boopathi, SM Babu, P Ramasamy, Synthesis, crystal structure, thermal and nonlinear optical properties of new metal-organic single crystal: Tetrabromo (piperazinium) zincate (II)(TBPZ), *AIP Conference Proceedings* 1942 (1), 100014, 2018.
19. CI Mary, M Senthilkumar, SM Babu, Influence of different sulfur sources on the phase formation of Cu₂ZnSnS₄ (CZTS) nanoparticles (NPs), *Journal of Materials Science: Materials in Electronics*, 29 (12), 9751-9756, 2018.
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23. K Saravanan, R Suriakarthick, S Ananthakumar, SM Babu, S Selladurai, Colloidal synthesis of copper cadmium sulphide (CuCdS₂) nanoparticles and its structural, optical and morphological properties, *Journal of Materials Science in Semiconductor Processing*, 66, 123-130, 2017.
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39. V Raghavan, CK Nair, AR Kurup, Lower dose of intravenous immunoglobulin (IV IG) results in comparable outcome in children with newly diagnosed ITP, *Pediatric Hematology Oncology Journal*, 1 (2), S1, 2016.
40. KK Rasu, D Balaji, SM Babu, Spectroscopic properties of Eu³⁺: KLa (WO₄)₂ novel red phosphors, *Journal of Luminescence*, 170, 547-555, 2016.
41. S Ananthakumar, J Ramkumar, SM Babu, Semiconductor nanoparticles sensitized TiO₂ nanotubes for high efficiency solar cell devices, *Journal of Renewable and Sustainable Energy Reviews*, 57, 1307-1321, 2016.
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46. D Balaji, K Kavirasu, A Durairajan, SM Babu, Photoluminescence properties of novel Sm³⁺ and Dy³⁺ co-activated CsGd (WO₄)₂ phosphors, *Journal of Alloys and Compounds*, 637, 350-360, 2015.

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