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**TOTAL NUMBER OF PUBLICATIONS: 153**

**LIST OF RECENT PUBLICATIONS**

1. Sundarakannan, B. and **Kottaisamy, M.**, 2021. Synthesis and characterization of near UV excitable  $\text{Y}_2\text{O}_2\text{S}$ :  $\text{Eu}^{3+}$  entrapped ZnO for white light emitting diode applications. Journal of Solid State Chemistry, 293, p.121739.
2. Mydeen, S.S., Kumar, R.R., Sivakumar, R., Sambathkumar, S., **Kottaisamy, M.** and Vasantha, V.S., 2020. Graphene quantum dots/ZnO nanocomposite: Synthesis, characterization, mechanistic investigations of photocatalytic and antibacterial activities. Chemical Physics Letters, 761, p.138009.
3. Mydeen, S.S., Kumar, R.R., Sambathkumar, S., **Kottaisamy, M.** and Vasantha, V.S., 2020. Facile Synthesis of ZnO/AC Nanocomposites using Prosopis Juliflora for Enhanced Photocatalytic Degradation of Methylene Blue and Antibacterial Activity. Optik, 224, p.165426.
4. Mohan, B.V., Mayandi, J., Pearce, J.M., **Kottaisamy, M.** and Veerapandy, V., 2020. Demonstration of a simple encapsulation technique for prototype silicon solar cells. Materials Letters, p.128028.
5. Mydeen, S.S., Kumar, R.R., **Kottaisamy, M.** and Vasantha, V.S., 2020. Biosynthesis of ZnO nanoparticles through extract from Prosopis juliflora plant leaf: Antibacterial activities and a new approach by rust-induced photocatalysis. Journal of Saudi Chemical Society.
6. Vasanthi, V., **Kottaisamy, M.** and Ramakrishnan, V., 2019. Near UV excitable warm white light emitting Zn doped  $\gamma\text{-Ga}_2\text{O}_3$  nanoparticles for phosphor-converted white light emitting diode. Ceramics International, 45(2), pp.2079-2087.
7. Rajasekar, A., Arunachalam, K. and **Kottaisamy, M.**, 2019. Assessment of strength and durability characteristics of copper slag incorporated ultra high strength concrete. Journal of Cleaner Production, 208, pp.402-414.

8. Sundarakannan, B. and **Kottaisamy, M.**, 2018. ZnO: Al–A yellowish orange emitting phosphor for Blue Light-Converted White Light Emitting Diode (WLEDs). *Ceramics International*, 44(12), pp.14518-14522.
9. Vasanthi, V., **Kottaisamy, M.**, Anitha, K. and Ramakrishnan, V., 2018. Yellow emitting Cd doped SnO<sub>2</sub> nanophosphor for phosphor converted white LED applications. *Materials Science in Semiconductor Processing*, 85, pp.141-149.
10. Mohan, B.V., Vasu, V., Benjamin, A.R. and **Kottaisamy, M.**, 2018. Luminescent solar concentrators—the solar waveguides. *Current Science*, 114(8), p.1656.
11. Rajasekar, A., Arunachalam, K., **Kottaisamy, M.** and Saraswathy, V., 2018. Durability characteristics of Ultra High Strength Concrete with treated sugarcane bagasse ash. *Construction and Building Materials*, 171, pp.350-356.
12. Rajasekar, A., Arunachalam, K. and **Kottaisamy, M.**, 2018. Durability of Ultra High Strength Concrete with Waste Granite Sand as Partial Substitute for Aggregate. *Journal of Computational and Theoretical Nanoscience*, 15(2), pp.446-452.
13. Vasanthi, V., **Kottaisamy, M.**, Anitha, K. and Ramakrishnan, V., 2017. Near UV excitable yellow light emitting Zn doped MgO for WLED application. *Superlattices and Microstructures*, 106, pp.174-183.
14. Gayathri, S., Jayabal, P., **Kottaisamy, M.** and Ramakrishnan, V., 2015. Synthesis of the graphene-ZnTiO<sub>3</sub> nanocomposite for solar light assisted photodegradation of methylene blue. *Journal of Physics D: Applied Physics*, 48(41), p.415305.
15. Sundarakannan, B. and **Kottaisamy, M.**, 2016. Sol–gel derived flux assisted synthesis of fine particles YAG: Ce<sup>3+</sup> phosphor for remote phosphor converted white light emitting diodes. *Materials Research Bulletin*, 74, pp.485-490.
16. Sundarakannan, B. and **Kottaisamy, M.**, 2016. Synthesis of blue light excitable white light emitting ZnO for luminescent converted light emitting diodes (LUCOLEDs). *Materials Letters*, 165, pp.153-155.