

**Dr. K Subramanian**

**Publication of last 5 years:**

1. Boopathy Mani, Subramanian Kathavarayan, " Studies on photocrosslinking and flame-retardant properties of chalcone-based polyacrylamides", Polymers for Advanced Technologies, published by Wiley. Vol. 27, pp. 466-476 (2016)
2. Selvam Ramasamy, Mani Boopathy, Samuel John Santhosh kumar, Kathavarayan Subramanian\*, "Structural engineering of poly-(methacrylate) bearing push-pull type pendants oxindole-phenothiazine with tetrazole anchoring acceptor for efficient organic photovoltaic cells", Polymer, published by Elsevier. Vol. 115, pp. 128-136 (2017).
3. R.Selvam; K. Subramanian, "Benzimidazole-indole-chalcone connected methacrylate-based side chain D- $\pi$ -A polymer and its application in organic photovoltaics", Journal of Polymer Science Part A: Polymer Chemistry, published by wiley. Vol. 55, Issue 6, pp. 997-1007 (2017).
4. Ramasamy Selvam, Gopi Prakash, Raju Sathiyamoorthi, Kathavarayan Subramanian\*, "Comparative analysis of fluorene and carbazole fused triphenylamine sensitizer donor units with new anchoring mode in dye-sensitized solar cells", Reactive and Functional Polymers, published by Elsevier. Vol. 122, pp. 123-130 (2018).
5. Gopi Prakash, Mani Boopathy, Ramasamy Selvam, Samuel Johnsanthosh Kumar and Kathavarayan Subramanian \*, "The effect of anthracene-based chalcone derivatives in the resazurin dye reduction assay mechanisms for the investigation of Gram-positive and Gram-negative bacterial and fungal infection", New Journal of Chemistry, published by RSC. Vol. 42, pp. 1037-1045 (2018).
6. "Interaction of pyridine  $\pi$ -bridge-based poly(methacrylate) dyes for the influence of different strength phenothiazine, fluorene and anthracene sensitizers as donor units with new anchoring mode", New Journal of Chemistry, published by Royal Society of Chemistry. Vol. 42, pp. 17939-17949 (2018)