

Dr. M. Dharmendira Kumar

Professor

### List of Publications

1. Elsa Cherian, **Dharmendira Kumar, M** &Baskar, G , " Optimized Production Of Cellulase Using Fruit Waste And Its Application In Bioethanol Production", Int J Pharm Bio Sci., vol.6, no.2(B),pp.1005 – 1013.(2015).
2. Elsa Cherian, **Dharmendira Kumar, M** &Baskar, G, "Immobilization of cellulase onto manganese dioxide nanoparticles for bioethanol production by enhanced hydrolysis of agricultural waste", Chinese Journal of Catalysis. Vol. 36, 1223-1229, (2015).
3. Elsa Cherian, **Dharmendira Kumar, M** &Baskar, G, "Characterization of Newly Isolated Strain Aspergillusfumigatus JCF from Spoiled Jackfruit and Optimization of Cellulase for Bioethanol Production using Fruit Waste", Journal of Environmental Biology. Vol. 36, 1229-1237,(2015).
4. S. Shanthi, **Dharmendira Kumar, M.** "synthesis, structural and optical properties of alloyed Ti(1-x)SnxO2 nanoparticles, Superlattices and Microstructures." Vol. 85 (139-148. 2015).
5. Nambirajan .S, **Dharmendira Kumar .M**, Ramachandran. K &Renganathan .S, "Bio-oil separation from potential non edible urban waste source putranjivaroxburghii", Separation Science and Technology, Vol 50, 2015 - Issue 13, Pp2066-2074.
6. R. PadhmaPriya, S. G. Gunasekaran, and **Dharmendira Kumar, M**," Design and Development of Allyl Terminal Triaryl Pyridine Core Skeletal Modified Benzoxazines Based Polybenzoxazine-Silica (PBZ-SiO2) Hybrid Nanocomposites", Journal of Nanoscience and Nanotechnology, Vol.15, 9509-9519, 2015.
7. R. PadhmaPriya, S. G. Gunasekaran, and **Dharmendira Kumar, M.** "PhthalideCardo Chain Extended Siloxane Core Skeletal Modified Polyimide/Multi-Walled Carbon Nanotube Nanocomposites, Journal of Nanoscience and Nanotechnology ,vol.15, 1-8,2015.
8. C.Jayakumar, **Dharmendira Kumar, M.** "Solubility Enhancement of Theophylline drug using mixed solvency approach", International journal of Chemical Separation Technology, vol 1: issue 2.2015.
9. C Jayakumar, C Raja, V Sampathkumar, **Dharmendira Kumar, M.** "statistical and Artificial Neural Network for the determination of thermo-physical properties of fomoditine drug using mixed hydrotrophy", International Journal of Chemical Engineering and Processing Vol 1:Issue 2.2015.
10. Gunasekaran, S.G, **Dharmendira Kumar, M.** PadhmaPriya 2014, "Nanosized Silica reinforced Maleimido Terminal Triaryl Pyridine core Polybenzoxazine (nSiO2/PBZ) Nanocomposites", Polymer-Plastics Technology and Engineering. Vol.54, p – 981, 2015.

11. S.G.Gunasekaran , K. Raja Kumar , **M. Dharmendira Kumar** , "Organo modified multi walled carbon nano tube reinforced pyridine core polybenzoxazine (MWCNT/PBZ) nano composites, International Journal of Nanoscience vol.14, 1550021-13,2015.
12. S.G.Gunasekaran, K. Rajakumar, M.Alagar, **M. Dharmendira Kumar** , "Design and development of mesoporous silica reinforced skeletal modified triaryl pyridine core based polybenzoxazine (SBA-15/PBZ) nanocomposites" International Journal of Plastic Technology , vol 19(2), 309-332,2015.
13. D.Veenaraja,V.Muthukumar,**M.Dharmendirakumar**,R.Venkatasamy, effect of machining parameters on EDM process responses : A Taguchi Based Approach For Al/SiC MMC , International Journal of Applied Engineering Research , vol.10,no.2pp.3427-3438,2015.
14. Rajakumar K, ChandramohanAyyavu, **M. Dharmendira Kumar** , "Removal of Pb<sup>2+</sup>, Ni<sup>2+</sup> and Cd<sup>2+</sup> ions in aqueous media using functionalized MWCNT wrapped polypyrrolenanocomposite" , Desalination and Water Treatment , Vol 57, 2016 - Issue 36. Pages 16871-16885.
15. Elsa Cherian , **M. Dharmendira Kumar** , G. Baskar, "Production and optimization of cellulase from agricultural waste and its application in bioethanol production by simultaneous saccharification and fermentation, Management of Environmental Quality: An International Journal, vol 27.1 ,22-35,2015.
16. Aarthy K C, Anithapriya J, Nambirajan S, & **Dharmendira Kumar M**, " Bio-oil Extraction and Physico-chemical characterization of Caesalpinia pulcherrima plant seed oil, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Vol 38, 2016 - Issue 19, Pp 2823-2829.
17. K. Dhanasekaran, M. Mohamed Musthafa & **M. Dharmendira Kumar**, Processing and characterization of biodiesel from sweet orange (Citrus sinensis) seed oil, Energy Sources, Part A: Recovery, Utilization, And Environmental Effects 2016, VOL. 38, NO. 17, 2582–2589.2016
18. S.G .Gunasekaran , M. **Dharmendira Kumar** , "Maleimido Terminal Triaryl Pyridine Core Skeletal Modified Benzoxazine / Cynate Ester Co - Cured Polymer (PBZ/CE) Hybrid blends" Polymer Plastic Technology and Engg, vol 4.issue 04,2016, 436-443.
19. Kumaran S , **Dharmendira Kumar M**, Baradeshwaran A , Padmapriya R. "Influence Of Al<sub>2</sub>O<sub>3</sub> And Graphite On The Tribological And Mechanical Properties Of Aa 6061 Hybrid Composites". Journal of Balkan Tribological Association ,1868/21.11.2016.
20. Kumaran S , **Dharmendira Kumar M**, Baradeshwaran A, "Wear And Mechanical Behaviour Of B C And Graphite Reinforced Hybrid Composites "Journal Of Balkan Tribological Association, 1904/19.1.2017
21. P. Govindan , M. Karthikeyan , **M. Dharmendira Kumar**," Extraction of Bio oil From Non Edible Senna Occidentalis Seeds", Energy Sources Part – A Recovery, Utilization and Environmental Effects, 2017, vol39,P1525-1531.
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23. Govindhan .P Tamilarasan R, **Dharmendira Kumar.M** "Extraction of bio oil from non edible urban waste source using bauhinia variegata seeds". Energy Sources Part – A Recovery, Utilization and Environmental Effects, 2017, 39,no.18,1906-1912.
24. AnithaPriya , Aarthi C, Nambirajan S, **Dharmendirakumar M.** "Biodiesel from Indian laburnum (cassia fistula) kernel oil", Energy Sources Part – A Recovery, Utilization and Environmental Effects. 1823-1830 issue16, 2017.
25. EagambaramMurugan, J. NimithaJebaranjitham, K. Janaki Raman, AbishekMandal, D.Geethalakshmi, **M.Dharmendira Kumar** And A.Saravanakumar, "Insoluble dendrimer – grafted poly (vinylimidazole) microbeads stabilized with mono / bimetallic nanoparticle catalysts for effective degradation of malachite green", New J.Chem 2017,41 ,10860-10871.
26. R.Akalya , R .Lavanya , P. Madhumitha , S. Kalaiselvam , **M. Dharmendira Kumar** , C. Jaya Kumar , "Modelling and simulation of multicomponent system using chemslep" , International Journal of Chemical Science and Technology ,2017 ; 7(1): 7-13.
27. Kanthapazham Rajakumar, **Mahendiradas Dharmendira Kumar**, MWCNT linked aniline 4,4 diaminodiphenyl sulphone copolymer for the removal of pb(II),Ni(II) and cd(II) ions. Journal of adv research in dynamical & control systems, vol.10, 10-special issue , 2018.
28. A Saravanakumar, **M. Dharmendira Kumar** , Synthesis And Characterization Of Sio2 - Chitosan Supported AgNPs and Its Catalytic Application For Reduction of Malachite Green, Indian Journal of Chemical Technology, Vol .25, 546-552, November 2018.
29. Kanthapazham Rajakumar,Palanisamy Muthukumar Mahendiradas Dharmendira Kumar, Removal Of Pb 2+,Ni2+And Cd 2+ Ions Using Pyrrole Linked 4,4-Diaminodiphenyl Sulphone Copolymer Nano Composites,Indian Journl of Environmental Protection Vol 39.No.1 Jan 2019.
30. A. Saravana Kumar And **M.Dharmendira Kumar** , Synthesis And Characterization Of SiO2- Chitosan /AgNPs Composite And Its Application For Catalysis.J.Indian Chem. ,Sec Vol 96.Pp 5-6 Jan 2019.
31. K. Dhanasekaran and **M. Dharmendira Kumar**, Synthesis and Structural Analysis of Mg/Al-No3 Hydrotalcite , International Journal of Scientific Progress And Research, Vol 60. No .01 June 2019.