

PROFILE

Name : Dr. A. Malar Retna
Gender : Female
Designation : Assistant Professor
Department : Chemistry
Date of Birth : 14.02.1980
Date of Appointment : 19-08-2009
Mobile Number : 9442338628
E-mail : malarscott@gmail.com,
malaretna@scottchristian.org
Qualification : Ph.D
Approved Guide : Manonmaniam Sundaranar University, Tirunelveli
No.of Ph.D. scholars guided : 7
No.of Ph.D. scholars pursuing : 4
Served as Resource Person :



1. Research based pedagogical tools and applications for teachers organized by IQAC, Scott Christian College on 11.02.2020
2. National conference on novel techniques in chemical sciences organized by the Department of Chemistry, Malankara Catholic College, Kaliakkavilai On 22.02.2019
3. Invited talk on Insight of Natural products chemistry, organized by the Department of Chemistry, Infant Jesus College, Mulagumoodu on 05.09.2019
4. National Seminar on past and present research system in chemical sciences organized by the Department of Chemistry, Nanjil Catholic College, Kaliakkavilai On 05.03.2018
5. Regional level workshop on chromatographic techniques organized by the Department of Zoology, Scott Christian College (Autonomous) on 23.01.2018
6. Development of Advanced Polymers and Nano materials, Caledonian College of Engineering, Muscat

7. Workshop on Extraction isolation and characterization of bio active compounds organised by the Department of Chemistry , Sree Devikumari College , Kuzhithurai on 7.02.2018
8. Insight of Natural Products – Sree Ayappa College for Women on 17.02.2017
9. Isolation and Extraction of bioactive compounds – Women’s Christian College on 23.03.2017

List of Publications :

1. Synthesis and characterization of cardanol based polyols- a valuable starting material for polyurethane Journal of Current Science 0972-6101 2004 5(2) 507-514
2. Synthesis, mechanical, thermal and chemical properties of polyurethanes based on cardanol Bulletin of Material Science 0973-7669 2004 27(3) 101-107
3. Synthesis and characterization of hydroxyalkylated dimerised cardanol-formaldehyde resins Journal of Current Science 0972-6101 2007 10(2)507-514
4. Physical, mechanical and thermal properties of polyurethanes based on hydroxyalkylatedcardanol-formaldehyde resins Journal of Applied Polymer Science 1097-4628 2005 98(1)284-288
5. Review on Medicinial Plant- AervaLanata Asian Journal of Biochemical and Pharmaceutical Research 2013 Vol. 3. (1),
6. A review of the taxonomy,ethnobotany, chemistry and pharmacology of Catharanthusroseus (Apocyanaceae) International Journal of Engineering Research & Technology 2 (10), 2013, 3899-3912
7. Phytochemical tests, antioxidant potential and TLC analysis of ipomeoa pes caprae and catharanthus roseus International Journal of Natural Products Research 2014 4(2), 58-64
8. A review on advanced methods of polyurethane synthesis based on natural resources J.Chem.Pharma.Sci 0974-2115 2014 Vol 7(3),242-249
9. Evaluation of Anti-oxidant Potential and Anti-bacterial Activity of Crude Extracts Catharanthus roseus Int.J.Pharm.Sci and Res 2014 5(8) ,3490-3495
10. Invitro antidiabetic and antioxidant property of crude extracts of catharanthus roseus J.Res.Sci 2014 Vol 2, 167-171
11. Novel polyurethane composites based on cardanol and coir fiber Adv.Poly.Sci. and Tech 2015 5(1):7-10
12. Quantitative Phytochemical determination and in-vitro cytotoxic activity of medicinal plants, Green Chem.Tech. Let 2015 1(1), 17-21
13. Synthesis and Characterization of coir fibre reinforced epoxy composites from punnel oil Green Chem.Tech. Let 2015 1(1), 33-41
14. Synthesis and Characterization of natural fibre reinforced polyurethane composites based on cardanol Green Chem.Tech. Let 2015 1(1), 42-47
15. Preparation of chain extended polyurethane and its composites based on castor oil and coir fibre Green Chem.Tech. Let 2015 1(1), 67-70
16. In vitro studies of anti-bacterial and anti-oxidant activity of Ipomea pes-caprae root extracts World J.Pharm.Sci 2015 3(3), 622-627

17. A study on the Bioactive compounds present in leaves of dichrostachyscinerea Green Chem.Tech. Let 2016 2(1), 20-25
18. Docking score of the isolated compound: 19 –hydroxy lochnericine with different proteins Green Chem.Tech. Let 2016 2(1), 31-34
19. Preparation of soyprotein based nano particle Green Chem.Tech. Let 2016 2(1), 45-49
20. Antilithiatic activity and pharmacognostic studies of Scoparia Dulcis Green Chem.Tech. Let 2016 2(1), 1-10
21. Synthesis, structural Characterization and electrochemical behavior of metal complexes derived from 2-hydroxynaphthoic acid derivatives J.Chem and Pharm. Res 2016 8(1S), 82-88
22. 5,7,4'trihydroxyisoflavone Isolated from Ipomea pes-caprae roots by normal phase column chromatography Bull.Enviro,Pharm and Life Sci. 2016 5(5), 27-33
23. Docking of the Isolated Compounds-3,3',4',5,7-Penta Hydroxy Isoflavone and 5,7,4'-Tri Hydroxy Isoflavone with various proteins IOSR J.Pharmacy 2016 6(6), 3-12
24. Synthesis and Spectral Studies on Cardanol Based Polyurethanes International Journal of Advanced Engineering, Management and Science 2017 3(1), 1-4
25. Sythesis and comparative study of glass fibre reinforced polyester and their composites based on punnaloil International Journal of Scientific Research In Science , Engineering and Technology 2394-4099 2017 3(1), 299-305
26. Synthesis and Characterisation of Newly Developed Coir Fibre Reinforced Polyurethane Composites Journal of Chemistry and Chemical Sciences 2319-7625 2017 7911),1039-1045
27. Screening of Aerva Lanata Linn,for Pharmacognostic and anti microbial activity International Journal of Pharmacognosy 2348-3962 2017 2(4), 99-108
28. Phytochemical Screening and column Chromatography studies of Aerva lanata Asian Journal of Research in Chemistry 11 (1), 84-90
29. Ligand Docking of solute carrier family12Member1 with ligands of isolated compounds from plant extracts and drug furosemide International Journal of phyto pharmacy research 5 (8), 3490-3495
30. Stearic acid modified casein based nanocomposites with improved mechanical and thermal properties Materials Today: Proceedings 5 (2), 6247-6257
31. Performance of Biodegradable Soy-Based Polymer and Nanocomposite with Reduced Moisture Absorptivity Micro and Nanosystems 10 (1),2018, 40-46
32. Influence of fibre content on the degradation of punnal oil based biopolyester resin Materials Today: Proceedings 5 (2),2018, 6217-6226
33. A new insight of degradation and stability performance of polyurethane and its composites Materials Today: Proceedings 5 (2), 2018, 6082-6089
34. Estimation of Epicatechin from the extract of Acacia atechu using molecularly imprinted polymer as a stationary phase, Journal of Advanced Scientific Research, **11**, 2020, 66-70
35. Isolation of (-)-Epicatechin from green tea using molecular imprinted technique and structural confirmation of (-)-Epicatechin by various chromatographic methods, Journal of Xidian university , **14(3)**, 2020, 1176-1188

