

GOVERNMENT ARTS COLLEGE (AUTONOMOUS), COIMBATORE – 18



I

- a) NAME : **DR. P. RAJESH**
b) ADDRESS (RESIDENTIAL) : 14/18, RATHINAM NAGAR,
CHERAN MANAGAR,
COIMBATORE-48
c) DESIGNATION : ASSOCIATE PROFESSOR
d) DEPARTMENT : CHEMISTRY
e) DATE OF BIRTH : 03.07.1976
f) AREA OF SPECIALIZATION : ORGANO-PHYSICAL CHEMISTRY

II RESEARCH EXPERIENCE & TRAINING

RESEARCH STAGE	TITLE OF WORK / THESIS	UNIVERSITY WHERE THE WORK WAS CARRIED OUT
M. PHIL.	SYNTHESIS AND CORROSION INHIBITIVE PERFORMANCE OF PIPERIDONES AND ITS DERIVATIVES	BHARATHIAR UNIVERSITY
PH. D.	SYNTHESIS, CHARACTERIZATION, ANTIMICROBIAL, MOLECULAR DOCKING, ELECTRON CHARGE DENSITY AND ANTICANCER ACTIVITIES OF PHENYLHYDRAZINE DERIVATIVES OF PIPERIDONES	BHARATHIAR UNIVERSITY
PUBLICATIONS (GIVE A LIST SEPARATELY)	LIST ENCLOSED	
RESEARCH GUIDANCE (GIVE NAMES OF STUDENTS GUIDED SUCCESSFULLY)	M. PHIL-06 COMPLETED PH. D- 04 COMPLETED PH. D- 06 ON GOING	BHARATHIAR UNIVERSITY

1	Area of specialization	Organo-Physical Chemistry
2	Number of Publications	22
3	Number of Ph.D. produced	05
4	Number of Ph.D. Ongoing	06
5	Number of M.Phil. produced	07
6	Number of M.Sc. project competed	28

III. RESEARCH PROJECTS CARRIED OUT EXPERIENCE & TRAINING

S. NO.	TITLE OF THE PROJECT	NAME OF THE FUNDING AGENCY	DURATION	REMARKS
1	SYNTHESIS CHARACTERIZATION AND BIOLOGICAL EVALUATION OF ANTICANCER AND ANTIMICROBIAL ABILITY OF NOVEL PHENYL HYDRAZINE PIPERIDONE DERIVATIVES	UGC (1.35 LAKHS)	2 YEARS	UGC-SERO, HYDERABAD. (COMPLETED)
2	MICROWAVE MEDIATED GREENER SYNTHESIS, CHARACTERIZATION AND COMPUTATIONAL STUDIES ON PHENYL HYDRAZINE DERIVATIVES OF CHLORO SUBSTITUTED PIPERIDONES FOR ANTI-CANCER AND ANTI-HIV ACTIVITIES”	TANSCHE (1 LAKH)	1 YR	Letter no: D.O.Rc.No.838/2018 A, Dated.08.03.2019 (Ongoing)
3	ARTICULATION OF HERBAL TABLETS CONTAINING ANETUMGRAVEOLENS LEAF EXTRACT FOR ANTI-DIABETES	TANSCHE	I YR	Letter no: D.O.Rc.No.4000/20 23 A, Dated.08.03.2023 (Ongoing)

IV SEMINARS, CONFERENCES, SYMPOSIA WORKSHOPS ETC. ATTENDED(IF NECESSARY GIVE A SEPARATE LIST)

NAME OF THE SEMINARS / CONFERENCES / SYMPOSIA/ WORKSHOPS ETC	NAME OF THE SPONSORING AGENCY	PLACE AND DATE
RECENT TRENDS IN MEDICINAL CHEMISTRY -RTMC-2015 (ORGANISING SECRETARY)	UGC (1 LAKH)	GOVT ARTS COLLEGE, COIMBATORE-18 FEB-19 & 20-2015

V TEACHING EXPERIENCE

COURSES TAUGHT	NAME OF THE UNIVERSITY / COLLEGE / INTUITION	DURATION
UG B.SC.	(I) CHIKKANNA GOVT ARTS COLLEGE, TIRUPUR (II) GOVT ARTS COLLEGE, COIMBATORE	13.10.2008 TO TILL DATE
PG M.SC.	GOVT ARTS COLLEGE, COIMBATORE	16.07.2010 TO TILL DATE
M. PHIL.	GOVT ARTS COLLEGE, COIMBATORE	16.07.2010 TO TILL DATE
PH.D	GOVT ARTS COLLEGE, COIMBATORE	16.07.2010 TO TILL DATE

**VIII INNOVATIONS/ CONTRIBUTIONS IN TEACHING (IF NECESSARY,
GIVE SEPARATE LIST)**

1. Member- Board of studies at KongunaduArts and science college-March- 2015
(UG&PG)
2. Member- Board of studies at Bharathiar University

(SIGNATURE OF THE TEACHER)

Appendix- A

List of Publications

LIST OF PUBLICATIONS

1. P. Rajesh, R. Sathish Kumar and M. Dinesh Kumar.(July 2014). Synthesis and Characterization of N-(3-Methyl-2,6-diphenyl-piperidin-4-ylidene)-N'-phenyl-hydrazine, Journal of NanoScience and NanoTechnology, Vol.2,(7), pp 801-803. ISSN: 2279-0381.
2. P. Rajesh, M. Dinesh Kumar, R. Sathish Kumar and R. Jamunarani.(September 2014). Synthesis, Characterization and Biological Activities of N-(3-Methyl-2,6-diphenyl-piperidin-4-ylidene)-N'-phenyl-hydrazine, Journal of Environmental Nanotechnology, Vol.3, (7), pp 62-66. ISSN: 23619-5541.
3. P.Rajesh, M. Dinesh Kumar, R. Jamunarani and J.Manikandan.(July 2015). Molecular Docking Studies on Novel Phenyl Hydrazine Derivatives of Piperidones for Anticancer Efficiency, Asian Journal of Chemistry, Vol.27, No. 11, 3969-3974.
4. Ezhil Inban Manimaran, K. Antonyraj, Emerson Rajamony Navaneetha, V. Sathish kumar & P. Rajesh.(2017). Influence of different conducting substrates on magnetic properties of electrodeposited Ni-Fe thin films, Journal Of Materials Science: Materials In Electronics, ISSN: 0957-4522
5. M. Dinesh Kumar P. Rajesh, M. Ezhil Inban and P. Kumaradhas (2018). DFT Based Analysis Of N-(3-Methyl-2, 6-Diphenyl- Piperidin-4-Ylidene)-N'-Phenyl Hydrazine (3-MDPYP) Molecule, Rasayan Journal Of Chemistry Vol. 11, No. 1,127-134. ISSN: 0974-1496.
6. Selvakumar S.V.K, Rajesh. P, Anandapandian. K.T.K, M. Ezhil Inban(2018). Nutritive Evaluation and Trace Metal Contents of Commercial Edible Mushroom -Agaricus bisporus, International Journal for Research in Applied Science & Engineering Technology, Vol 6, Issue I, ISSN: 2321-9653.
7. S.K Nirmala, P.Rajesh, R. Venkatesh, Rajeswari sivaraj and M. Ezhil Inban (May 2019). Photocatalytic degradation of Rhodamine B using SiO₂ supported on activated carbon, International Journal of Research in Advent Technology, Vol.7, No.5, ISSN: 2321-9637.
8. S.K Nirmala, P.Rajesh, R. Venkatesh, Rajeswari sivaraj and M. Ezhil Inban (May 2019). Enhanced Photocatalytic performance of activated carbon-SiO₂ Nanocomposite on the removal of Methylene blue dye from aqueous solution, International Journal of Research in Advent Technology, Vol.7, No.5, ISSN: 2321-9637.
9. Raj Kumar. R, Gowrisankar. P, Ezhil Inban Manimaran, Rajesh. P, Antonyraj. K(Sep 2019). Influence of Phosphorous in Magnetic and Corrosion Properties of Electrodeposited Cobalt based Multinary Alloys, International Journal for Research in Applied Science & Engineering Technology, Vol.7, ISSN: 2321-9653.
10. R. Rajkumar, K. Antonyraj, M. Ezhil Inban, P. Rajesh, N. Vignesan, P. Gowrishankar(2019). Magnetoresistance in Electrodeposited Cobalt Based Alloys: Influence of Multinary Alloy Combination, Journal of Environmental Nanotechnology, Vol.2, pp.11-14 ISSN: 2279-0748.
11. M. Dinesh Kumar, P. Rajesh, R. Priya Dharsini and M. Ezhil Inban(2020). Molecular Geometry, NLO, MEP, HOMO-LUMO and Mulliken Charges of Substituted Piperidine Phenyl Hydrazines by Using Density Functional Theory, Asian Journal of Chemistry, Vol. 32, No. 2, 401-407.

12. Microstructural and magnetic properties of cadmium incorporated magnetic alloys as monolayer and multilayer coatings Antonyraj Kanthiah^{1,*}, Ezhil Inban Manimaran¹, and Rajesh Pattulingam²
¹ Department of Physics, Government Arts College, Coimbatore, Tamilnadu 641018, India ² Department of Chemistry, Government Arts College, Coimbatore, Tamilnadu 641018, India Received: 1 July 2020 Accepted: 9 September 2020 Springer Science+Business Media, LLC, part of Springer Nature 2020 ABSTRACT This study deals with the electrodeposition of
13. Priyadharshini Muthukumaravel, Rajesh Pattulingam, Manikandan jeganathan, Hariharan Venkatesan and Ezhil Inban Manimaran - Analyzing the suitability of Chromium doped Iron Oxide nanoparticles for Creatinine Bio Sensor Applications(2022).
14. J.Manikandan, P.Rajesh, J.Raffiea Baseri and S.V.K.Selvakumar - Green Synthesized Fe₃O₄ Nanoparticles as Silymarin Drug Carrier and their Anticancer activity against 559 and Lung-HepG2 Cancer Cells- Asian Journal of Chemistry(2022)
15. J.Manikandan, P.Rajesh, S.V.K.Selvakumar, M.Balaji - Antibacterial and Antifungal Activity of Commiphora berryi Exudates stabilized Iron Oxide Nanoparticles- Journal of Xidian University- ISSN No : 1001 – 2400,Vol 16,ISSUE 1,2002
16. J.Manikandan, P.Rajesh, S.V.K.Selvakumar – Green Route Synthesis of Fe₃O₄ Nanoparticles and Exploring its Photochemical Activity and Antibacterial Activity-Journal of Environmental Nanotechnology, Vol.11(1),01-05(2002)
17. S.V.K.Selvakumar, P.Rajesh, Ezhil Inban Manimaran, J.Manikandan- Prospective reserves of bioactive compounds and their effect on human health : A review on *Elaeagnus conferta* Roxburgh, an edible wild fruit-World Journal of Advanced Research and Reviews,2022,16(03),969-976
18. G.T.Parethe, P. Rajesh, M.Balaji, S.Kavica M. Ezhil Inban The comparison study of *Commiphora Berryi* and *Salvia Rosarinus* Leaf Extract as Green Corrosion Inhibitors On Mild steel in 1N HCL Medium, International Journal of Research Publications and Reviews ,Vol4, no4,pp 384-392 April 2023
19. G.T.Parethe, P. Rajesh, P. Nathiya, M..Balaji, S.Kavica Green Synthesis of Cobalt oxide nanoparticle from *Clitoria ternatea* flower extracts its characterization and biological activities- World Journal of Advanced Research and Reviews,2023,19(01),001-009
20. M.Balaji, P.Rajesh , G.T.Parethe, S.Kavica, M. Ezhil Inban Study of microbial activity of synthetically prepared Zinc-Oxide nanoparticles utilizing *Rivea -Hypocrateriformis* extract against chosen micro-organisms- World Journal of Advanced Research and Reviews,2023,19(02),112-119
21. S.V.K.Selvakumar, P.Rajesh, G.T.Parethe, M.Balaji, S.Kavica Plant Mediated Synthesis of Cobalt Doped Ferric Oxide Nanoparticles from the Fruit Extract of *Elaeagnus Conferta* Roxburg and their Characterization and Ant-Bacterial Activity.
22. S.Kavica, P.Rajesh, G.T.Parethe, M.Balaji, M.Ezhil Inban Synthesis of Cobalt Oxide nanoparticles from the leaf extracts *Eruca vesicaria* its Characterization Anti-bacterial and Anti-fungal Activity- International Journal of Research Publications and Reviews,2023,Vol 4,3251-3258.

APPENDIX – B

E. Seminars, Conferences, Symposia Workshops etc. Attended:

Seminars, Conferences Attended:

1. Orientation course –Conducted by TANSICHE-13.10.2008-08.11.2018 at Chennai
2. Refresher course in chemistry at Bharathiar University, Coimbatore ,06.09.2011 to26.09.2011
3. Refresher course in Environmental Sciences at Bharathiar University, Coimbatore03.12.2014 to 23.12.2014.
4. Refresher course in chemistry at Madurai Kamarajar University, Madurai16.11.2018 to 06.12.2018.
5. Faculty development program at Coimbatore Institute of Technology, Coimbatore23.07.2016 to 29.07.2016.

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