

CURRICULUM VITAE

Dr. Parameswaran P.S.

Associate Professor

Postgraduate Department of Chemistry and Research Center
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Vidwan-ID : 196672

scholar.google.com/citations?user=gbtucjsAAAAJ



ACADEMIC RECORDS

Ph.D: Materials Science

Faculty of Technology, *Department of Polymer Science and Rubber Technology*,
Cochin University of Science and Technology, Kochi; April 2011

Title of the thesis – **Modification of Phenol Formaldehyde Resin for Improved
Mechanical Properties**

Available online at:

Shodhganga: <http://hdl.handle.net/10603/8942>

Research guide: [Dr. Eby Thomas Thachil](#)

M. Sc: Chemistry

[Sri Vyasa NSS College](#), Wadakkanchery

[Calicut University](#), Calicut; April 1994

B.Sc: Chemistry

[Sri Vyasa NSS College](#), Wadakkanchery

[Calicut University](#), Calicut; April 1991

Pre-Degree

[Sri Vyasa NSS College](#), Wadakkanchery

[Calicut University](#), Calicut; April 1987

S.S.L.C

Govt Boys High School, Wadakkanchery

[State Board of Public Examinations](#); March 1985

Achievements

Qualified the National Eligibility Test (NET) with JRF(CSIR) - November 1995

Technical Qualifications

MS Office

Board of Technical Examinations, Government of Kerala; February 1990

Typewriting English (Lower).

Key instrumental skills

Thermo Gravimetric Analysis

Dynamic Mechanical Analyser

Brabender Plasticorder

Universal Testing Machine

UV-Visible Spectrophotometer

PC skills

Typing speed of 40 words/min.

Windows, Word, Excel, Powerpoint, Internet

Origin

Adobe pdf editor

Research interests

Polymers, Fibers, Composites, Conducting polymers, Nanomaterials

Google Scholar Matrices

Citations - 92

h index - 6

i-10 index - 6

Teaching experience

Currently working as Associate Professor at the Department of Chemistry, [Sanatana Dharma College](#), Alappuzha, Kerala, 26th June 1996 onwards, handling classes for B.Sc and M.Sc Chemistry.

Topics of Interest

- **ORGANIC CHEMISTRY**

Organic Synthesis

Organic Reaction Mechanism

Pericyclic Reaction

Organic Photochemistry

Organic Spectroscopy

Physical Organic Chemistry

Polymer Chemistry

- **PHYSICAL CHEMISTRY**

Gaseous State

Liquid State

Solid State

Dilute Solutions

Colloids & Surface Chemistry

Electrochemistry

Thermodynamics

- **GENERAL CHEMISTRY**

Atomic structure

Periodic classification

Nuclear chemistry

Acids and bases

Analytical Chemistry

Publications in journals

1. Influence of ether linkages on the properties of resol phenolic resin; PS Parameswaran, ET Thachil, International Journal of Polymeric Materials and Polymeric Biomaterials 56(2), Pages 177-185, 2007. Publisher: Taylor and Francis. <https://doi.org/10.1080/00914030600773602> (Cited by 11)
2. Control of microvoids in resol phenolic resin using unsaturated polyester PS Parameswaran, MG Bhuvaneshwary, ET Thachil, Journal of applied polymer science 113 (2), Pages 802-810, 2009. Publisher- Wiley. <https://doi.org/10.1002/app.29667> (Citations 21)
3. Cardanol-based Resol Phenolics – a Comparative Study P.S. Parameswaran, B.T. Abraham, E.T. Thachil, Vol 26, Issue 1, Pages 31-50, 2010 Published February 1, 2010. Publisher : SAGE Publications <https://doi.org/10.1177/147776061002600103> (Cited by 16)
4. Processability, Mechanical and Magnetic Studies on Natural Rubber- Ferrite Composites, Prema K.H Yadhu Krishnan, Shine Chandran, Nazeeha Usman, Smitha T.R, Parameswaran P.S, International Journal of Chemical Studies, 3(1), Pages 15-22, 2015. ISSN: E-ISSN-2321-4902, P-ISSN: 2349-8528. (Cited by 19)
5. Photocatalytic activity of biogenic silver nanoparticles synthesized using Coleus Vettiveroids, S Ajay, JS Panicker, KA Manjumol, PP Subramanian, Inorganic Chemistry Communications 144, 109926, 2022. <https://doi.org/10.1016/j.inoche.2022.109926> (Cited by 15)
6. Effect of Phenolic Moieties on the Properties of γ -Fe₂O₃ Nanoparticles, Raji R Krishnan, Parameswaran P.S, Prema K.H, Yadhu Krishnan, Journal of the Academy of Chemistry Teachers, 1, 7-14, 2015. ISSN 2395-6801. Publisher- Academy of Chemistry Teachers
7. Microstructure and Magnetic Properties of NiFe₂O₄ and γ -Fe₂O₃ Nano Particles Synthesised by Sol-Gel Method, Philip Kurian Parameswaran and M. R. Anantharaman Prema. K. H, Reyno Journal of Interdisciplinary Studies, Volume 1 Issue 1 Pages 141-149. ISSN – 2277–7652.
8. Synthesis of AgNPs using Sapindus mukorossi Fruit Extract: Characterization and Antimicrobial Property, Divya P.A., Arjun V Prakash, Parameswaran P.S., Teresian International Journal of Chemical Sciences 2 (Issue IV), 9-18, 2021.
9. Green Synthesis of Silver Nano Particles Using Hemigraphis colorata Leaf Extract, Arjun V Prakash, P. Manoj, Parameswaran P S, International Journal of Research and Analytical Reviews (IJRAR) 5 (3), 330-337, 2018.

Conference proceedings and presentations

1. Mechanical Properties of Phenol Cardanol Formaldehy Resin, 18th Kerala Science Congress, 29-31, January 2006, Thiruvananthapuram, Kerala.
2. Modification of Phenolic Resol Resin by Liquid Rubbers, 19th Kerala Science Congress, 29-31 January 2007, held at Kannur, Kerala.
3. Modification of Phenolic Resoi Resin by Epoxidised Phenolic Novolacs, National Seminar in Frontiers Organic Chemistry, FOCY 2007, 11-12 January 2007, Dept of Chemistry, Calicut University, Calicut, Kerala.
4. Mechanical and Morphological Properties of Phenol Formaldehyde/Cardanol Formaldehyde Resin Blends, International Conference on Material Science Research and Nanotechnology, ICMSRN-2008, February 2008, Dept of Physics, Mother Teresa Women's University, Kodaikanal, Tamil Nadu, India.
5. Modification of Resol Phenolic Resin by Unsaturated Polyester for Improved Mechanical Properties, International Seminar on Advances in Polymer Technology, APT-2008, 25-27 Setp 2008, Dept of Polymer Science & Rubber Technology, CUSAT, Kochi.
6. Processability and Magnetic Studies on Natural Rubber-Ferrite Composites, Prema K.H ,Yadhu Krishnan,Nazeeha Usman,Parameswaran P.S and Shine Chandran, Swedeshi Science Congress, November2014.
7. Structural and Dielectric Characterisation of Polyaniline-Fe₂O₃, Composites, Prema K.H, Raji R Krishnan ,Smitha T.R, ,and Parameswaran P.S, Swedeshi Science Congress, November 2014.
8. Synthesis and Structural Characterization of nanoZnO, Christy Augustine P.A,Sambhu R, Parameswaran P.S. and Prema K.H, conference proceedings UGC sponsored National Seminar at SD College, Alappuzha, December 2015.
9. Synthesis and Characterization of Pani-NiFe₂O₄ Composites, PremaK.H, Smitha T.R Parameswaran P.S and Raji R Krishnan, conference proceedings 27th Kerala Science Congress, Alappuzha, 27-29 January, 2015
- 10.Structural Characterization of ZnO NPs Prepared by Green Method, Soumya G Shenoi,Prema K.H and Parameswaran P.S, UGC sponsored National Seminar at SD College, Alappuzha, December 2015.
11. Modification of Cure Characteristics of NR compounds using Nano ZnO, Christy Augustine P.A, Sambhu R, Smitha T.R., Parameswaran P.S. and Prema K.H, Poster presentation in the International Conference on Advances in Polymer Technology at CUSAT, Kochi, India, 2016.
- 12.Green Synthesis of Silver Doped ZnO NPs, InternationalConferenceon Photochemistry and Sustainable Energy, ICPSE 2019, 16-19 October, St. Michael's College, Cherthala.
13. Characterisation of Polyaniline Synthesised In Carambola Fruit Juice Medium Roshini Thomas, Deepthi S., and Parameswaran P.S. conference proceedings SERB Sponsored International Symposium -SPC2020, SD College, Alappuzha, 17th January, Volume , Year 2020.
14. Studies on Cinnamic Acid Doped PANI, Deepthi S., Roshini Thomas and Parameswaran P.S., SERB Sponsored International Symposium -SPC2020, SD College, Alappuzha, 17th January, 2020.

Funded Projects

1. Preparation of Ferrite Nanoparticles by Sol-Gel Method and its Characterisation
Funding Agency : UGC. Amount: Rs.135000/-, Role: Principal Investigator
Status: Completed, 2011 -2013.

2. Synthesis of Nano ZnO by Green Method (Student Project)
Funding Agency : Kerala Science Council for Science, Technology and Environment, Thiruvananthapuram. Amount: Rs.4500/-, Role: Principal Investigator
Status: Completed, 2015.
3. Green Synthesis and Characterisation of Cu doped nano ZnO (Student Project),
Funding Agency : Kerala Science Council for Science, Technology and Environment, Amount: Rs.10500/-, Role: Principal Investigator, Status: Completed, 2017.
4. Synthesis and Photophysical Studies of Alkoxy Substituted Diphenyl Acetylenes in solution and Solid State (Student Project), Funding Agency : Kerala Science Council for Science, Technology and Environment, Thiruvananthapuram.
Amount: Rs.10000/- Role: Principal Investigator, Status: Completed, 2020.

Duties and Positions held

1. IQAC Coordinator – July 2020 – June 2023
2. Chairman, Board of Studies Chemistry (Pass)- 1st December 2021 to 2023 December
3. Member, PG Board of Studies (Chemistry)- 2020 to December 2023
4. Member, Board of Studies Chemistry (Pass)- 2017-2020
5. Member, Board of Studies Chemistry (Pass)- 2014-2017
6. Member, Board of Studies Food Tehcnology (Pass) – 2022 onwards
7. IQAC Member – 2015-2018
8. NAAC Steering Committee Member – 2010-2011 (Criteria V Coordinator), 2014-2017.
9. Member, FIST implementation Committee – 2015-2020.
10. PTA Secretary – 2019-2020
11. Member PTA – 2020 -2022
12. College Council Member (Elected Member) – 2018-2020
13. Chairman, S4 MSc Chemistry Examination - 2019
14. Assistant Coordinator, Purchase Committee – 2016-2018
15. Chief Supdt of University Examinations – 2016-2017
16. Asst Chief Supdt of University of Examinations – 2015-2016
17. Coordinator, Walk With Scholar (WWS) – 2015-2016
18. Mentor, WWS -2016-2020
19. NSS Programme Officer – 2009 -2013.
20. Screening Committee Member as Subject Expert for Faculty Promotion 2020 – 2023
21. Subject Expert for the selection of Assistant Professors in Colleges
22. Chairman, VI SEM BSc Chemistry Examinations April, 2024
23. Secretary, Sanatanam Social Welfare Association (SWASTI) 2017-2022
24. President, Sanatanam Social Welfare Association (SWASTI) 2022-2024
25. Member, College Level RUSA Committee 2023 onwards
26. Member, College Level Committee for NIRF, 2021-2023
27. Member, College Level Committee for ARIIA, 2021-2023
28. Coordinator, ERP – SDC Campus Genie – 2021-2022
29. Member of MPLAD Scheme implementation.
30. Question paper setter for university exams and KPSC exams
31. Member in the Judgement panel of Kerala – School Sastrolsavam