



# Dr JEEMOL P A

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## Address For Correspondence

- Assistant Professor and Head of the Department  
Department of Chemistry  
M.E.S. Asmabi College  
P. Vemballur  
Thrissur - 680671

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## Education

- **School of Chemical Sciences, Mahathma Gandhi University, Kottayam** 2022  
Ph.D.
- **U.C. College, Aluva, M.G. University, Kottayam** 2009  
MSc Chemistry  
86.68%
- **St. Peter's College, Kolenchery, M.G. University, Kottayam** 2007  
BSc Chemistry  
95.8%
- **JHSS Thandekad, Dept. of higher secondary education, Kerala** 2004  
Plus- Two  
85.17%
- **JHSS Thandekad, Edn. Board, Kerala** 2002  
SSLC  
87.67

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## Experience

- **MES Mampad College** 2013 - 2024  
Assistant Professor  
11 years of teaching experience

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## Area Of Interest

- Polymer Chemistry

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## Achievements & Awards

- CSIR-JRF in Chemistry
- KSCSTE research fellowship

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## Grants Received For Research

- Title: Synthesis, characterisation and photophysical applications of flouranthene and triphenylene derivatives  
Duration: 1 year  
Funding Agency: UGC
- Title: Chitin nanowhiskers from Crassostrea madrasensis oyster shells waste as a green filler in unsaturated polyester resins  
Duration: 1 year  
Funding Agency: Muslim Educational Society

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## Publications

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- **On the toughening of unsaturated polyester resins using nadimide end -functionalised polyether telechelics.**  
P. A Jeemol, Suresh Mathew, and C. P Reghunadhan Nair, Polymer Engineering & Science, 2021,61(11): 2931-2944.
- **Copolymerization of nadic anhydride with styrene: Reactivity ratios**  
P.A Jeemol, Suresh Mathew, and C. P Reghunadhan Nair, Polymers for Advanced Technologies, 2021, 32(4):1888-94.
- **Itaconimide telechelics of polyethers, synthesis, and their impact on mechanical properties of unsaturated polyester resins.**  
P. A Jeemol, Suresh Mathew, and C. P Reghunadhan Nair, Polymers for Advanced Technologies, 2021, 32(4): 1727-1741.
- **Maleimide end- capped polyether telechelics as novel toughening agents for unsaturated polyester resin.**  
P. A Jeemol, Suresh Mathew, and C. P Reghunadhan Nair, Journal of Polymer Research, 2020, 27(10): 1-14.
- **Cellulosic bio nanocomposites based on acrylonitrile butadiene rubber and Cuscuta reflexa: adjusting structure-properties balance for higher performance.**  
M. Dominic, P. S. Begum, A. S. Kumar, P. A. Jeemol, T. Jose, D. Padmanabhan, K. Formela, S. Siengchin, J. Parameswaranpillai, m. R. Saeb, Cellulose, 2021, 14, 1-21
- **Toughening of Unsaturated Polyester Resin by Blending with Polyether Telechelics. Dependency of Toughening Efficacy on End Groups.**  
P. A Jeemol, Suresh Mathew, and C. P Reghunadhan Nair, (Accepted, Journal of Polymer Materials )

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## Communicated

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- **A Drive Towards Green UPR- A Critical Review**  
P. A Jeemol, Suresh Mathew, and C. P Reghunadhan Nair, (Under review, Materials Today Communications)
- **Metal-Organic Frameworks (MOFs) For Carbon Dioxide Capture from Flue Gas.**  
P. A Jeemol, M. Farhana, E. Nissam, and Suresh Mathew (Communicated, Chemistry Select)

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## List Of Conference Presentations

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- **"Maleimide end capped polyether telechelics as novel toughening agents for unsaturated polyester resin"**  
Presented at 32nd Kerala Science Congress organized jointly by Organized by KSCSTE, KSCSTE-KFRI, and Yuvakshetra Institute of Management Studies, Munderoor, Palakkad, Kerala, held during 25-27 January 2020.
- **"Comparative toughening effect of maleimide and itaconimide end caps in polypropylene glycol on UP resin"**  
Presented at International conference on Advances in Polymer Technology organized jointly by Department of Polymer Science and Rubber Technology, Cochin University of Science & Technology, Kochi, Kerala & Indian Rubber Institute, Kerala Branch, held during 27-29, May 2021.
- **"Comparative toughening studies of maleimide/itaconimide/nadimide end - capped polyether telechelics - UPER blends"**  
Presented at Indian Analytical Science Congress 2022 organized jointly by Indian Society of Analytical Scientists, Kerala Chapter and Indian Society of Analytical Scientists, H. Q. Mumbai, held during 10-12 March 2022.
- **"Comparison on the Toughening Effect of Maleimide and Nadimide End Capped Polypropylene Glycol on Upr Resin"**  
Presented at National seminar on Sustainable and innovations in functional materials: Developments and Applications organized by Al-Ameen College, Edathala, held during 20th and 21st July 2022.