



## Mr Tijo Antony

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Address: Idukki ,Kerala,India - 685604

## Expertise

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### Polymer Science

Extraction and Characterisation of Nanocellulose

## Work experience

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1. Pavanatma College, Murrickacherry 2019 — Present

Assistant Professor (Grade-II)

Idukki

2. Pavanatma College, Murrickacherry 2013 — 2019

Assistant Professor (Grade-I)

Idukki

## Education

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1. B.Ed - 2011

M.G University College of Teacher's Education ,Nedumkandam

2. M.Sc - 2010

St.George's College Aruvithura

3. **B.Sc - 2008**

Pavanatma College Murickassery

4. **HSC - 2005**

St. Joseph's Higher Secondary School Peruvanthanam

5. **SSLC - 2003**

St. Antony's High School Mundakkayam East

## Honours and Awards

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1. **CSIR-UGC NET - 2012**

Council of Scientific & Industrial Research

2. **SET - 2012**

Directorate of General Education, Government of Kerala

## Publication

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1. **Developments in chitosan-based nanocomposites for food packaging applications**

Cherian R.M.;Antony T.;Zakuwan S.Z.;Jose C.;Kargarzadeh H.;Thomas S.

Nanomaterials from Renewable Resources for Emerging Applications, Volume , Year 2023, Pages 55-92

2. **Nanocellulose as an Avenue for Drug Delivery Applications: A Mini-Review**

Rini Varghese ., Reeba Cherian ., Cintil Chirayil ., Tijo Antony ., Hanieh Kargarzadeh ., Sabu Thomas .,  
Journal of Composites Science, Volume 7, Year 2023, Pages 210

3. **Non-cytotoxic, highly functionalized cellulose nanocrystals with high crystallinity and thermal stability derived from a novel agromass of Elettaria cardamomum, using a soft and benign mild oxalic acid hydrolysis., 253, p..**

Reeba Mary Cherian ., Rini Thresia Varghese ., Tijo Antony ., Akshit Malhotra ., Hanieh Kargarzadeh .,  
Suchitra Rajput Chauhan ., Ashwini Chauhan ., Cintil Jose Chirayil ., Sabu Thomas .,

4. Sustainable green packaging based on nanocellulose composites-present and future

Tijo Antony ., Reeba Mary Cherian ., Rini Thresia Varghese ., Hanieh Kargarzadeh ., Deepalekshmi Ponnamma ., Cintil Jose Chirayil ., Sabu Thomas .,  
Cellulose, Volume 30, Year 2023, Pages 10559-10593

5. Thermally stable, highly crystalline cellulose nanofibrils isolated from the lignocellulosic biomass of *G. Tiliifolia* plant barks by a facile mild organic acid hydrolysis

Rini Thresia Varghese ., Reeba Mary Cherian ., Tijo Antony ., Cintil Jose Chirayil ., Hanieh Kargarzadeh ., Akshit Malhotra ., Ashwini Chauhan ., Sabu Thomas .,  
Biomass Conversion and Biorefinery, Volume , Year 2023

6. A review on the best bioadsorbent membrane- nanocellulose for effective removal of pollutants from aqueous solutions

Rini Thresia Varghese ., Reeba Mary Cherian ., Tijo Antony ., Abhimanyu Tharayil ., Haritha Das ., Hanieh Kargarzadeh ., Cintil Jose Chirayil ., Sabu Thomas .,  
Carbohydrate Polymer Technologies and Applications, Volume 3, Year 2022, Pages 100209

7. A review on the emerging applications of nano-cellulose as advanced coatings

Cherian, R.M., Tharayil, A., Varghese, R.T., Antony, T., Kargarzadeh, H., Chirayil, C.J. and Thomas, S.  
Carbohydrate Polymers, Volume 282, Year 2022, Pages 119123