

	<b>Name</b>	<b>JITHIN JOY</b>
	<b>Designation</b>	<b>ASSISTANT PROFESSOR</b>
	<b>Qualification</b>	<b>M.Sc. B.Ed.</b>
	<b>Area of Specialization</b>	<b>Bio-Nanocomposites</b>

### **Educational Qualification**

Ph.D (Pursuing)	Nanoscience	Mahatma Gandhi University, Kottayam
B.Ed Degree	Physical Science	Mahatma Gandhi University, Kottayam
M.Sc. Degree	Chemistry	Mahatma Gandhi University, Kottayam
B.Sc. Degree	Chemistry	Mahatma Gandhi University, Kottayam

### **Publications**

#### **Books**

- Natural Rubber Materials Volume 2: Composites and Nanocomposites  
 Edited By: Sabu Thomas, Chin Han Chan, Laly A. Pothen, **Jithin Joy** and Hanna J. Maria  
 Publisher : RSC Publishing, United Kingdom.  
<http://pubs.rsc.org/en/content/ebook/978-1-84973-631-2>
- Recent Trends In Micro & Nanostructured Polymer Systems  
 Edited By: Sabu Thomas, Robert Shank and **Jithin Joy**  
 Publisher :Apple Academy,Canada.  
<https://www.crcpress.com/Micro--and-Nanostructured-Polymer-Systems-From-Synthesis-to-Applications/Thomas-Shanks-Joy/p/book/9781771881005>
- Engineering Technologies for Renewable and Recyclable Materials  
 Physical-Chemical Properties and Functional Aspects  
 Edited By: **Jithin Joy**, Maciej Jaroszewski, Praveen K. M., Sabu Thomas, Reza Haghi  
<http://www.appleacademicpress.com/engineering-technologies-for-renewable-and-recyclable-materials-physical-chemical-properties-and-functional-aspects/9781771886536>

## Research Publications

- Joy, J., Jose, C., Yu, X., Mathew, L., Thomas, S., & Pilla. The influence of nanocellulosic fiber, extracted from *Helicteres isora*, on thermal, wetting and viscoelastic properties of poly (butylene succinate) composites. *Cellulose* 24 (120):1-11., 2017
- Jithin Joy, Neenu George, P. Lovely Mathew, Sabu Thomas, Gas Transport Through Polymer Bio-nanocomposites. *Transport Properties of Polymeric Membranes*, 615-632, Elsevier, 2017
- George, G., Wilson, R., & Joy, J. Ultraviolet Spectroscopy: A Facile Approach for the Characterization of Nanomaterials. In *Spectroscopic Methods for Nanomaterials Characterization*, RSC Publishing, 55-72, 2017.
- Joy, Jithin, Cintil Jose, Srirama B. Varanasi, P. Mathew, Sabu Thomas, and Srikanth Pilla. "Preparation and Characterization of Poly (butylene succinate) Bionanocomposites Reinforced with Cellulose Nanofiber Extracted from *Helicteres isora* Plant." *Journal of Renewable Materials*, 4 (5): 351-364, 2016.
- Joy, Jithin, Cintil Jose, P. Lovely Mathew, Sabu Thomas, and Moayad N. Khalaf. "Biological Delignification of Biomass." *Green Polymers and Environmental Pollution Control*: 271, Apple Academic press, 2016.
- Chirayil, Cintil Jose, Jithin Joy, Hanna J. Maria, Igor Krupa, and Sabu Thomas. "Polyolefins in Automotive Industry." In *Polyolefin Compounds and Materials*, pp. 265-283. Springer International Publishing, 2016.
- Wilson, R., Joy, J., George, G., & Anuraj, V. Nanocellulose: A Novel Support for Water Purification. In *Advanced Environmental Analysis* 456-476, 2016
- Jithin Joy, Runcy Wilson, Lovely Mathew P., Sabu Thomas, Natural polymer blends and their composites: micro and nano structured polymer systems. *Micro-and nanostructured polymer systems: from synthesis to applications*, Apple academic press, 1-17. 2015
- Chirayil, Cintil Jose, Jithin Joy, Lovely Mathew, Joachim Koetz, and Sabu Thomas. Nanofibril reinforced unsaturated polyester nanocomposites: Morphology, mechanical and barrier properties, viscoelastic behavior and polymer chain confinement. *Industrial Crops and Products* 56: 246-254, 2014.
- Chirayil, Cintil Jose, Jithin Joy, Lovely Mathew, Miran Mozetic, Joachim Koetz, and Sabu Thomas. Isolation and characterization of cellulose Nano fibrils from *Helicteres isora* plant , *Industrial Crops and Products* 59, 27-34, 2014.

- Jithin Joy, Anu Tresa Sunny, Lovely Mathew P., Laly A Pothen, Sabu Thomas. "Micro and Nano Metal Particle Filled Natural Rubber Composites." *Natural Rubber Materials: Volume 2: Composites and Nanocomposites* 8 (2013): 307. eds. *Natural Rubber Materials: Volume 2: Composites and Nanocomposites*. Vol. 8. Royal Society of Chemistry, 2013
- Chin Han Chan, Jithin Joy, Hanna Maria, Thomas, Sabu, *Natural Rubber-Based Composites and Nanocomposites: State of the Art, New Challenges and Opportunities*. *Natural Rubber Materials: Volume 2: Composites and Nanocomposites*, 8, 1. 2013

