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Professor and Former Head, CUSAT

Former Controller of Examinations, CUSAT

Former Member, Syndicate, CUSAT

Former Dean, Faculty of Technology, CUSAT

Former Director, International Relations and Academic Admissions, CUSAT

Member, Academic Council, CUSAT

Education

Ph.D	**IIT, Kharagpur**	Composites	1992
M. Tech	CUSAT	Polymer Technology	**First Rank**
M. Sc	CUSAT	Applied Chemistry	**First Rank**
B.Sc	Calicut Uty	Chemistry	**Gold Medal**
SSLC	State Board	General	**School Topper**

Research	Conducting polymer systems Nanocomposites Short Fiber-Rubber Composites New Compounding Ingredients for Rubbers Recycled Rubber
publications	Total - 176 International Journals- 86 Conferences – 90 Books edited –1
Ph. D.	Awarded 17 Currently working 7
Funding	170 Million INR
QIP Courses Attended	7
International Conferences coordinated	5

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Research

- Worked extensively in developing polymeric systems based on conducting nanofillers for EMI shielding, super capacitors, sensors for strain, humidity and ammonia.
- Developed nano composites based on cellulose isolated from different natural sources and designed rubber composites through latex stage masterbatching.
- The use of coir as a filler in polymer matrices has been studied extensively and developed highly fire resistant composites for commercial applications.
- Developed antibacterial urinary catheters based on natural rubber for prolonged use.
- The applications of graphene oxide and reduced graphene oxide in tyre compounds been studied systematically.
- Developed polymer/ceramic composites for super capacitor applications.
- Developed anti corrosive coatings and antifungal pants for protection of metals.
- Studied extensively the use of natural oils in the compounding of natural and synthetic rubbers.

Other Experiences

1. Member, Faculty of Technology, CUSAT
2. Member, Academic council, CUSAT
3. Member, Research Advisory Committee, CUSAT
4. Member, International Relations Group, Govt. of Kerala.
5. Business Advisory Committee, Rubber Skill Development Council, Govt.of India
6. Member, Panel of experts, Ministry of Chemicals and Fertilizers, Govt.of India
7. Member, Expert Committee of UGC for evaluation of ongoing Major Projects
8. Member of Interview Board, Spices Board, Govt. of Kerala
9. Member, Technical Committee for Boat, constituted by Surface Water Transport Department, Govt.of Kerala.
10. Member, Board of experts for the recruitment of Faculty, CUSAT
11. Member, Advisory committee, Centre for Science in Society
12. Member, CAT monitoring committee, CUSAT
13. Member, Grievance redressal cell for settling complaints related to Common Admission Test.

14. Member, Scrutiny committee to monitor the effective implementation of the Erudite – 'Scholars-in- residence Programme' .
15. Member, Selection committee for recruitment of Professors, CUSAT
16. Member, Committee for inspection of recognized institutions of CUSAT
17. Member, IQAC core committee
18. Member, Monitoring committee for Virtual Centres.
19. Member, Deans Committee
20. Member, evaluation committee for Seed Money to new teachers
21. Member, evaluation committee for funding of Research Intensive Departments
22. Member, committee for framing modalities for AICTE Examination Reforms in TEQUIP III Institutions.
23. Member, Technical Committee for purchase of equipment for purchase of equipment under KIIIFB
24. Member, University Level Implementation and Monitoring Committee for e- Governance.
25. Member Editorial Board, Annual Report
26. Member, Committee for Selection of Chancellors Chair in the campus.
27. Member, Library Advisory Committee
28. Member, KIIFB Coordination Committee.
29. Member, M V Pylee Award Committee.
30. Member, Doctoral Committee, NIIST, Trivandrum
31. Member, Doctoral Committee, IIST, Trivandrum
32. Member, Doctoral Committee, IIIT-M, Kerala
33. Member, Doctoral Committee, NPOL, Trikkakara
34. Member, Selection committee for the selection of Principal, UCE, MG University.
35. Member, Special Committee to monitor and speed up the procedures related to collaboration proposals. (CUSAT)
36. Chairman, Committee for scrutiny of patent applications, CUSAT
37. Member, BOS, St. Teresa's college, Ernakulam
38. Member, BOS, Fathima Matha College, Kollam.
39. Former member, Senate, CUSAT,
40. Former member, Staff Council, CUSAT.

LIST OF TOTAL PUBLICATIONS

176 High dielectric constant, flexible and easy-processable calcium copper titanate/thermoplastic polyurethane (CCTO/TPU) composites through simple casting method, Lakshmi Variar, M. N. Muralidharan, Sunil K. Narayanankutty, Seema Ansari, Journal of Materials Science: Materials in Electronics volume 32, 5908–5919(2021), https://doi.org/10.1007/ s10854-021-05311-z

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174 Electrochemical Studies On Corrosion Resistance Of Coatings Based On Polyaniline And Silica Gel, Soumya C.C.1,2, Sunil K. Narayanankutty, K.E. George, Advanced Materials Research, Approved: 2021-04-20 publisher https://www.scientific.net

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171 Development of polypropylene composites with good electrical conductivity and high dielectric constant, Thekkedath, J., Bipinbal, P. K., Thomas, T. Narayanankutty, S. K., Journal of Advanced Scientific Research. 11, pp 101–108, 2020.

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168 Development and characterisation of natural rubber - gelatin blends with improved biodegradability, Gean A. Varghese, Bipinbal P K, Dileep P, Eby Thomas Thachil, Sunil K. Narayanankutty, Int. J. Adv. Res, Eng. Tech., 10(3), 69-80, 2019. (May-june, ISSN Online: 0976-6499, Article ID: IJARET_10_03_007)

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163 A novel humidity and ammonia sensor based on nanofibers/polyaniline/polyvinyl alcohol, V P Anju, PR Jithesh, S K Narayanankutty, Sensors and Actuators A: Physical 285, 35-44, 2018 doi10.1016/j.sna.2018.10.037

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148 Enhanced electrical conductivity of polypyrrole/ polypyrrole coated short nylon fiber/ natural rubber composites prepared by in situ polymerization in latex, Pramila Devi D.S., Bipinbal P.K., Jabin T., Sunil K.N. Kutty, Materials and Design, 43, 337-347, 2013

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128 Cure characteristics and mechanical properties of Maleic anhydride grafted reclaimed rubber/ Styrene butadiene rubber blends, P.A. Nelson and S.K.N. Kutty, Polymer - Plastics Technology and Engineering, (45(1), 245, 2004.

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123 Styrene Butadiene Rubber - short Nylon Fiber composites, Sreeja T.D and Kutty S.K.N., International Journal of Polymeric Materials , 52(3), 239, 2003.

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121 Studies on Acrylonitrile Butadiene Rubber - Reclaimed Rubber blends, Sreeja T.D and Kutty S.K.N., Journal of Elastomers and Plastics, 34(2), 145, 2002.

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119 Effect of urethane based bonding agent on the Cure Characteristics and mechanical properties of - Styrene Butadiene Rubber /Whole Tyre Reclaim - short Nylon Fiber composites, Sreeja T.D and Kutty S.K.N., Progress in Rubber Plastics and Recycling Technology, 18(4), 1, 2002.

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113 Short Kevlar fiber reinforced thermoplastic polyurethane, , Sunil K.N. Kutty, P.P. De and Golok B. Nando, , J. Appl. Polym. Sci., , 43(10), , 1913, 1991.

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111 Mechanical properties of short polyester fiber- polyurethane elastomer composite with different interfacial bonding agents, , F. Suhara, G.B. Nando and S.K.N. Kutty,, Polym. Plastics Technol. Eng. J., 37(2), , 241-252 , 1998.

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92 Evaluation of Thermal stability flammability and visco elastic properties of Coir fiber reinforced polymer composite, International conference on Advances in Polymer Technology (APT-21), Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Cochin, 2021.

91 Low-cost epoxy/CB composites for EMI shielding application, Lakshmi Variar C. V, M. N. Muralidharan, Sunil K. Narayanankutty and A. Seema, International conference on MultifunctinalElectronic Materials and Processing (MEMP-2021) on 8-10th March 2021 at C-MET, Pune (Poster)

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89 Preparation of flexible photoluminescent films from cellulose and XNBR, International seminar on Advances in Polymer Technology (APT21) organised by the Department of Polymer Science and Rubber Technology (PSRT), CUSAT 27 to 29, March 2021 at CUSAT

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