DETAILED FACULTY BIODATA FOR COLLEGE WEBSITE JUNE 2024 TO MAY 2025		
Sl. No.	**Name**	Dr. Poornima Vijayan P
1	**Designation**	Assistant Professor
2	**Department**	Department of Chemistry
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9	**Date of Entry into Service**	**17-01-2019**
10	**Date of Retirement**	**31-05-2044**
11	**Edu. Qualifications**	**MSc PhD**
12	**Areas of Interest/Specialisation**	**Polymer Science and Technology**
13	**Courses/Subject Taught**	**Chemistry**
14	**Field of Research**	**Polymer nanocomposites, Biobased Thermosets, Self-healing polymers, Edible biopolymer coatings, Flame retardant polymer composites etc.**

15	**Guideship Details (Guideship order number and date, Research Centre, Number of PhD students & title of their research topic)**
	1. Affiliated University: University of Kerala **2. Subject: Chemistry** **3. Guideship Order Number & Date: 1484/2021/UOK dated 17-03-2021** **4. Research Centre: Sree Narayana College for Women, Kollam** **5. Number of Full time PhD Research Scholars: 3** **6. Number of Part time PhD Research Scholars:Nil** **7. Details of PhD Research Scholars (Full Name, Title of Topic, Year of Joining:** **1. Sreedevi T** **Topic: Development of poly (vinyl alcohol) (PVA) nanocomposites reinforced with hybrid nanofillers** **Year of joining: 2021** **2. Revathy R V** **Topic: Development of bio-based epoxies and their nanocomposites for multifunctional structural materials** **Year of joining: 2022** **3. Anagha T S** **Topic: Fabrication of multifunctional epoxy nanocomposites for next generation composites and coatings** **Year of joining: 2023**

	• **Thesis Co-Advisor, SABARI UMESH [AM.PS.R4CHM24006], Department of Chemistry, ASAS, Amritha Vishwa Vidyapeetham, Amrithapuri, Kollam.**
16	**Google Scholar Profile Link/ORCID ID/Research Gate Profile Link (Give the links)**
	Listed in the top 2% scientists (2024) by Elsevier and Standford University. **1. Google Scholar: Poornima Vijayan P - Google Scholar** **2. ORCHID : https://orcid.org/0000-0002-2899-038XView this author's ORCID profile** **3. Scopus : Vijayan P, Poornima P. - Author details - Scopus** **4. Research Gate: https://www.researchgate.net/profile/Poornima-Vijayan-P**
17	**Patent Obtained/Applied (Give the details)**
	Indian Patent, A NANOCOMPOSITE COATING COMPOSITION AND PROCESS OF PREPARATION THEREOF: Applicant: SREE NARAYANA COLLEGE FOR WOMEN, Kollam Inventor: POORNIMA VIJAYAN P, ASHA BHANU A V and APARNA S, Application No.202341031524 A, Publication Date : 08/11/2024
18	**Teaching Experience (Permanent) (Give the details)**
	1. Assistant Professor at Sree Narayana College for Women, Kollam – 6 years 5 months
19	**Teaching Experience (Contract) (Give the details)**
	1. Nil
20	**Research Experience**
	1. Research Associate at Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram.

	2. Post Doctoral Researcher at Qatar University, Doha.
21	**Memberships in Learned Bodies/Societies, If Any**
	1. Academy of chemistry teachers, Kerala **2.** American chemical society community member (Membership number -30831098)
22	**Scholarships/Fellowships Obtained**
	1. INSA Visiting Scientist, Programme FY-2024-25, Indian National Science Academy, New Delhi **2.** Mentor, State Level Winning Team, Young Innovator Programme (YIP), Kerala Development and Innovation Strategic Council *(*K-DISC), Government of Kerala, India, 2022-2023 **3.** Financial Support for Conducting Workshop on Intellectual Property Rights (IPR), Kerala State Council for Science, Technology & Environment, Kerala, India 2024-25 4. Financial Support for Patent Filing TIPS@SCTIMST TIMed, Thiruvananthapuram, Kerala, BIRAC NBM project, 2022-2023 5. Best Researcher Poster Award, Materials Science and Engineering Symposium, Qatar 2016 6. Post-Doctoral Research Award (PDRA), Qatar National Research Fund, 2015– 2017 7. Travel Grant, Department of Science & Technology, New-Delhi, India, 2013 8. Grants for Young Researchers, MIUR Programme Italy - India (2007), University of Perugia, Italy. 2008 –2009
23	**Research Papers Published (Mention UGC Care Listed/Peer-reviewed). Include Name of Authors, Year, Name of Journal, Volume, Page numbers, ISSN Number, DOC if any**
	1. Sreedevi Thulaseedharakurup, Neethu Ninan, Bidhari Pidhatika, Andrew Hayles, Markos Negash Alemie, Krasimir Vasilev, Jyotishkumar Parameswaranpillai, Poornima Vijayan P, Surface functionalisation of crosslinked polyvinyl alcohol/ cellulose nanofiber biocompatible composite membrane using plasma, Nano-Structures & Nano-Objects, 41, 2025, 101461. 2. Elssa George, Jomon Joy, Poornima Vijayan P, Henri Vahabi, Soney C. George, Saithalavi Anas, Effect of filler loading on the frictional, thermal and mechanical properties of ABS/boron nitride (h-BN) nanocomposites, Nano-Structures & Nano-Objects, 40, 2024, 101372 -Scopus Indexed

	3. Viscoelastic and rheokinetic behaviour of cellulose nanofiber/ cloisite 30B hybrid nanofiller reinforced epoxy nanocomposites, Jesiya Susan George, *Poornima Vijayan P*, Marc Ponçot, Jibin Keloth Paduvilan, Sabu Thomas, Chemical Engineering Journal, 498, 2024, 155170 -Scopus Indexed 4. T Sreedevi, Henri Vahabi, Sabu Thomas, Hanna J Maria, Jesiya Susan George, Midhun Dominic CD, Nishar Hameed, *Poornima Vijayan P**, Thermal stability and flame retardancy of cotton fabric coated with PVA-boric acid-cellulose nanofiber hybrid: Role of chemical interactions, Materials Today Communications, 40, 2024, 109463 -Scopus Indexed 5. Aparna S, Jyotishkumar Parameswaranpillai, Jesiya Susan George, Sabu Thomas, Midhun Dominic C. D, *Poornima Vijayan P**, Bioderived Antibacterial Coating for Polypropylene Non-woven Fabric to Prevent Secondary Infection, Materials Circular Economy, 6(33), 2024 -Scopus Indexed 6. Jesiya Susan George, *Poornima Vijayan P*, Marc Ponçot, Henri Vahabi, Hanna J Maria, Sabu Thomas, Insights into the Synergistic Effect of Graphene Oxide/Silica Hybrid Nanofiller for Advancing the Properties of Epoxy Resin, ACS Appl. Polym. Mater. 2024, 6, 10, 5932–5944 -Scopus Indexed 7. Jesiya Susan George, *Poornima Vijayan P*, Henri Vahabi Hanna J Maria, Anju C S, Sabu Thomas, Sustainable hybrid green nanofiller based on cellulose nanofiber for enhancing the properties of epoxy resin, Colloids and surfaces a: physicochemical and engineering aspects, 694, 2024, 134082 -Scopus Indexed 8. S.V. Anjana Krishna, S. Umadevi, C.D. Midhun Dominic, Jyotishkumar Parameswaranpillai, A.V. Asha Bhanu, Jesiya Susan George, T. Sreedevi, Sabu Thomas, *P. Poornima Vijayan**, Biomass derived cellulose nanofiber loaded PVA-nanocurcumin coating for extending the shelf life of Mandarin oranges (Citrus reticulata), Hybrid Advances, 5, 2024, 100162-Scopus Indexed 9. *Poornima Vijayan P**, Chithra P.G, Anjana Krishna S V, Ansar E.B & Jyotishkumar Parameswaranpillai, Development and Current Trends on Ion Exchange Materials, Separation & Purification Reviews, 53 (1), 2024,40-60. -Scopus Indexed 10. Soorya Koymeth, Anjana Krishna S V, Sabu Thomas, Jyotishkumar Parameswaranpillai, Midhun Dominic C D, Jesiya Susan George, Reshmi R.S, *Poornima Vijayan P**, Biowaste derived chitosan nanocomposite coatings for the preservation of banana, Biomass conversion and Biorefinery, 2023. https://doi.org/10.1007/s13399-023-05051-6 -Scopus Indexed 11. CV Pious, *P Vijayan P*, JS George, N Kalarikkal, S Thomas, Tailoring of Nanophase Structure in Epoxy/Epoxidized Poly(styrene)-*b*-poly(isoprene)-*b*-poly(styrene) Blend by Tuning of the Molar Ratio of Styrene Block, Polymer Science, Series B 65 (6), 803-811, 2023. -Scopus Indexed 12. Jomon Joy, Elssa George, *Poornima Vijayan P*, Saithalavi Anas, Sabu Thomas, An overview of synthesis, morphology, and versatile applications of nanostructured graphitic carbon nitride (g-C_3N_4), Journal of

	Industrial and Engineering Chemistry, 2023, https://doi.org/10.1016/j.jiec.2023.12.016 -Scopus Indexed 13. Jomon Joy, Krzysztof Winkler, Anna Bassa, *Poornima Vijayan* P, Seno Jose, Saithalavi Anas and Sabu Thomas, Miscibility, thermal degradation and rheological analysis of epoxy/MABS blends, Soft Matter, 2023, 19, 80-89 -Scopus Indexed 14. Elssa George, Abhisha Manoli, *Poornima Vijayan P*, Henri Vahabi, Soney C. George, Saithalavi Anas, Polydopamine modified polymeric carbon nitride nanosheet based ABS nanocomposites for better thermal, frictional and mechanical performance, Nano-Structures & Nano-Objects, 35, 2023, 100987 -Scopus Indexed 15. Jose S, George JS, Jacob TA, *Vijayan P P*, Bhanu A. V. A, Nedumpillil NN and Thomas S (2023) Nanosilica incorporated coarse wool-epoxy hybrid biocomposites with improved physico-mechanical properties. Front. Mater. 2023, 10, 1140602 -Scopus Indexed 16. Vijayalekshmi V, *Poornima Vijayan P**, Midhun Dominic CD, Sabu Thomas, Understanding the role of TEMPO-oxidized cellulose nanofiber on natural rubber latex nanocomposites. Polymers from Renewable Resources. August 2022. doi:10.1177/20412479221122271 -Scopus Indexed 17. Jesiya Susan George, Arya Uthaman, Arunima Reghunadhan, Hiran Mayookh Lal, Sabu Thomas, *Poornima Vijayan P**, Bioderived thermosetting polymers and their nanocomposites: current trends and future outlook. Emergent materials, 5, 3–27 (2022). -Scopus Indexed 18. C.D. Midhun Dominic, Vandita Raj, K.V. Neenu, P.M. Sabura Begum, Krzysztof Formela, Mohammad Reza Saeb, Deepak D. Prabhu, *P. Poornima Vijayan*, T. G. Ajithkumar, Jyotishkumar Parameswaranpillai, Chlorine-free extraction and structural characterization of cellulose nanofibers from waste husk of millet (*Pennisetum glaucum*), International Journal of Biological Macromolecules 206 (2022) 92–104 -Scopus Indexed 19. *Poornima Vijayan, P**., Formela, K., Saeb, M.R. *et al.* Integration of antifouling properties into epoxy coatings: a review. J Coat Technol Res 19, 269–284 (2022). -Scopus Indexed 20. *Poornima Vijayan P**, Jesiya Susan George and Sabu Thomas, The Effect of Polymeric Inclusions and Nanofillers on Cure Kinetics of Epoxy Resin: A Review, Polymer Science, Series A, 2021, Vol. 63, No. 6, 637–651. -Scopus Indexed 21. *Poornima Vijayan P*,* P. G. Chithra, Pinky Abraham, Jesiya Susan George, Hanna J. Maria, Sreedevi T, Sabu Thomas, Nanocoatings: Universal antiviral surface solution against COVID-19, Progress in Organic Coatings, 163, 1066702021, 2022 -Scopus Indexed 22. Elssa George, Jomon Joy, *Poornima vijayan P*., Sarath P. S., Soney C. George, Saithalavi Anas, Development, characterization, and tribological behavior of polymeric carbon nitride/acrylonitrile butadiene styrene nanocomposites, Polymer Composites 2021, https://doi.org/10.1002/pc.26415 -Scopus

	Indexed 23. Pournami Vijayan P, *Poornima Vijayan P**, Anoop Chandran and K. C. George, Anomalous Dielectric Behavior in Co-Doped TiO_2 Nanotubes: Effect of Oxygen Vacancy Mediated Defect Dipole Pairs, ECS Journal of Solid-State Science and Technology, 2021 10 113006 -Scopus Indexed 24. Jesiya Susan George, *Poornima Vijayan P*, Jibin Keloth Paduvilan, Nisa Salim, Jaka Sunarso, Nandakumar Kalarikkal, Nishar Hameed, Sabu Thomas, Advances and future outlook in epoxy/graphene composites for anticorrosive applications, Progress in Organic Coatings, Volume 162, January 2022, 106571 -Scopus Indexed 25. Sugarcane Bagasse-Derived Activated Carbon-(AC-) Epoxy Vitrimer Biocomposite: Thermomechanical and Self-Healing Performance, Balaji Krishnakumar, Debajyoti Bose, Manjeet Singh, RV Sanka, Velidi VSS Gurunadh, Shailey Singhal, Vijay Parthasarthy, Liberata Guadagno, *Poornima Vijayan P*, Sabu Thomas, Sravendra Rana, International Journal of Polymer Science, 2021, https://doi.org/10.1155/2021/5561755 -Scopus Indexed 26. Asha Bhanu A.V, *Poornima Vijayan P**, Sabu Thomas, Jyotishkumar Parameswaranpillai, Debora Puglia, Suchart Siengchin, Aryakrishna L, Aiswarya Manohar, Fabrication of water-resistant epoxy nanocomposite with improved dynamic mechanical properties and balanced thermal and dimensional stability: Study on dual role of graphene oxide nanosheets and barium oxide microparticles, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 617, 2021, 126405 -Scopus Indexed 27. Sharika T. Nair, *Poornima Vijayan P*., Soney C. George, Nandakumar Kalarikkal and Sabu Thomas, Enhanced mechanical and thermal performance of multiwalled carbon nanotubes-filled polypropylene/natural rubber thermoplastic elastomers, New Journal of Chemistry (RSC), 2021, Advance Article, https://doi.org/10.1039/D0NJ05437B -Scopus Indexed 28. Nicolas Augusto Paolini, Alexandre Gonçalves Cordeiro Neto, Alana Cristine Pellanda, Agne Roani de Carvalho Jorge, Bryan de Barros Soares, João Batista Floriano, Marcos Antonio Coelho Berton, *Poornima Vijayan P*, Sabu Thomas, "Evaluation of Corrosion Protection of Self-Healing Coatings Containing Tung and Copaiba Oil Microcapsules", International Journal of Polymer Science, vol. 2021, Article ID 6650499, 13 pages, 2021. https://doi.org/10.1155/2021/6650499 -Scopus Indexed 29. Alana Cristine Pellanda, Alexandre Gonçalves Cordeiro Neto, Agne Roani de Carvalho Jorge, Marcos Antonio Coelho Berton, João Batista Floriano, Sabu Thomas, *Poornima Vijayan P*, "Performance Evaluation of Layered Double Hydroxides Containing Benzotriazole and Nitrogen Oxides as Autonomic Protection Particles against Corrosion", International Journal of Polymer Science, vol. 2021, Article ID 6630194, 16 pages, 2021. https://doi.org/10.1155/2021/6630194 -Scopus Indexed 30. *P. Poornima Vijayan**, A.V. Asha Bhanu, S.R. Archana, Anila Babu, Suchart Siengchin, Jyotishkumar

Parameswaranpillai, Development of chicken feather fiber filled epoxy protective coating for metals, Materials Today: Proceedings, 41, 2021, 468-472, https://doi.org/10.1016/j.matpr.2020.05.229. -Scopus Indexed

31. Behzad Shirkavand Hadavand, Maryam Jouyandeh, Seyed Mohamad Reza Paran, Reza Khalili, Henri Vahabi, Hamed Fakharizadeh Bafghi, Fouad Laoutid, *P. Poornima Vijayan*, Mohammad Reza Saeb, Silane-functionalized Al_2O_3-modified polyurethane powder coatings: Nonisothermal degradation kinetics and mechanistic insights. J Appl Polym Sci. 2020; 137:49412. -Scopus Indexed
32. Karami, Z.; Paran, S.M.R.; *Vijayan P.P.*; Ganjali, M.R.; Jouyandeh, M.; Esmaeili, A.; Habibzadeh, S.; J. Stadler, F.; Saeb, M.R. A Comparative Study on Cure Kinetics of Layered Double Hydroxide (LDH)/Epoxy Nanocomposites. *J. Compos. Sci.* 2020, *4*, 111. -Scopus Indexed
33. Jouyandeh, M.; Karami, Z.; Paran, S.M.R.; Mashhadzadeh, A.H.; Ganjali, M.R.; Bagheri, B.; Zarrintaj, P.; Habibzadeh, S.; *Vijayan P.P.*; Saeb, M.R. Effect of Nickel Doping on the Cure Kinetics of Epoxy/Fe_3O_4 Nanocomposites. *J. Compos. Sci.* 2020, *4*, 102. -Scopus Indexed
34. Pinky Abraham, Renjini S, *Poornima Vijayan*, Nisha V, Krishna Sreevalsan and V. Anithakumary, Review on the Progress in Electrochemical Detection of Morphine Based on Different Modified Electrodes, Journal of The Electrochemical Society, 2020, 167, 037559. -Scopus Indexed
35. *Poornima Vijayan P**, Debora Puglia, Biomimetic multifunctional materials: a review. Emergent materials, 2, 391–415 (2019) -Scopus Indexed
36. *Poornima Vijayan P**, Mariam Al-Maadeed, Self-Repairing Composites for Corrosion Protection: A Review on Recent Strategies and Evaluation Methods. *Materials*, 2019, *12*, 2754. -Scopus Indexed
37. *Poornima Vijayan P**, Aisha Tanvir, Miroslav Mrlik, Michal Urbanek, Mariam Al-Maadeed, TiO_2/Halloysite hybrid filler reinforced epoxy nanocomposites, Polymer Composites, 2018. doi:10.1002/pc.24731. -Scopus Indexed
38. *Poornima Vijayan P**, Yara Mohamed Hany El-Gawadya, Mariam Ali S A Al-Maadeed, A comparative study on long term stability of self-healing epoxy coating with different inorganic nanotubes as healing agent reservoirs, eXPRESS Polymer Letters, 2017, 11, 863–872. -Scopus Indexed
39. Mohammad Reza Saeb, Milad Nonahal, Hadi Rastin, Meisam Shabanian, Mehdi Ghaffari, Ghasem Bahlakeh, Samira Ghiyasi, Hossein Ali Khonakdar, Vahabodin Goodarzi, *Poornima Vijayan P*, Debora Puglia, Calorimetric Analysis and Molecular Dynamics Simulation of Cure Kinetics of Epoxy/Chitosan-modified Fe_3O_4 Nanocomposites, Progress in organic coating, Progress in Organic Coatings, 2017, 112, 176-186. -Scopus Indexed
40. *Poornima Vijayan P**, Aisha Tanvir, Yara Mohamed Hany El-Gawadya, Mariam Ali S A Al-Maadeed, Cellulose nanofibers to assist the release of healing agents in epoxy coatings, Progress in Organic coating,

	2017, 112, 127–132. -Scopus Indexed 41. *Poornima Vijayan P*, Debora Puglia, Mariam Ali S A Al-Maadeed, José M. Kenny, Sabu Thomas, Elastomer/thermoplastic modified epoxy nanocomposites: the hybrid effect of 'micro' and 'nano' scale, Materials Science & Engineering - R: Reports, 2017, 116, 1–29. -Scopus Indexed 42. *Poornima Vijayan P*, Debora Puglia, Hadi Rastin, Mohammad Reza Saeb, Behrouz Shojaei, Krzysztof Formela, Cure Kinetics of Epoxy/MWCNTs Nanocomposites: From Isothermal Calorimetric to Rheological Analysis, Progress in Organic Coatings, 2017, 108, 75-83. -Scopus Indexed 43. Seyed Mohammad Reza Paran, Mohammad Reza Saeb, Krzysztof Formela, Vahabodin Goodarzi, *Poornima Vijayan P*, Debora Puglia, Sabu Thomas, To what extent can hyperelastic models make sense the effect of clay surface treatment on the mechanical properties of elastomeric nanocomposites?, Macromolecular Materials and Engineering, 2017*, 1700036.* DOI: 10.1002/mame.201700036. -Scopus Indexed 44. *Poornima Vijayan P**, Mariam Ali S A Al-Maadeed, TiO_2 nanotubes and mesoporous silica as containers in self-healing epoxy coatings, Scientific Reports, 2016, 6, 38812. -Scopus Indexed 45. Mohammad Reza Saeb, Mehdi Ghaffari, Hadi Rastin, Hossein Ali Khonakdar, Frank Simon, Vahabodin Goodarzi, *Poornima Vijayan P*, Debora Puglia, Krzysztof Formela, Biowaste Chicken Eggshell Powder as a Potential Cure Modifier for Epoxy/Anhydride: Competitiveness with Terpolymer-modified Calcium Carbonate at Low Loading Levels, RSC advances, 2017, 7, 2218. -Scopus Indexed 46. Aisha Al-Saygh, Deepalekshmi Ponnamma, Mariam Al-Maadeed, *Poornima Vijayan P*, Alamgir Karim, Mohammad Hassan, Flexible Pressure Sensor based on PVDF nanocomposites containing Reduced Graphene Oxide-Titania Hybrid Nanolayers, *Polymers* 2017, *9*(2), 33. -Scopus Indexed 47. Deepalekshmi Ponnamma, Poornima Vijayan P, Mariam Ali S A Al-Maadeed, 3D Architectures of Titania Nanotubes and Graphene with Efficient Nanosynergy for Supercapacitors, Materials and Design, 2017, 117, 203–212. -Scopus Indexed 48. *Poornima Vijayan P**, Yara Hany El-Gawady, Mariam Al-Maadeed, Halloysite Nanotube as Multifunctional Component in Epoxy Protective Coating, ACS Industrial & Engineering Chemistry Research, 2016, 55, 11186−11192. -Scopus Indexed 49. Vijayan PP*, Al-Maadeed MASA. Inorganic Porous Materials Based Epoxy Self-Healing Coatings. Qatar Foundation Annual Research Conference Proceedings 2016, https://doi.org/10.5339/qfarc.2016.EEPP2129 50. Anu Tresa Sunny, *Poornima Vijayan P*, Rameshwar Adhikari, Suresh Mathew, and Sabu Thomas, Copper oxide nanoparticles in an epoxy network: microstructure, chain confinement and mechanical behavior, Physical Chemistry Chemical Physics, 2016,18, 19655- 19667. -Scopus Indexed 51. *Poornima Vijayan P*, Debora Puglia, Pournami Vijayan P, Jose M. Kenny and Sabu Thomas, The role of

clay modifier on cure characteristics and properties of epoxy/clay/carboxyl-terminated poly(butadiene-co-acrylonitrile) (CTBN) hybrid, Materials Technology: Advanced Performance Materials, 2016, doi:10.1080/10667857.2016.1161946. -Scopus Indexed

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53. *Poornima Vijayan P*, M.G. Harikrishnan, Debora Puglia, Pournami Vijayan P, Jose M. Kenny, Sabu Thomas, Solvent uptake of liquid rubber toughened epoxy/clay nanocomposites, Advances in Polymer Technology, 2016, 35, *21531.* -Scopus Indexed
54. Anu Tresa Sunny, *Poornima Vijayan P*, Thresiamma George, Kim Pickering, Suresh Mathew, Sabu Thomas, Cuprous oxide nanoparticles in epoxy network: Cure reaction, morphology and thermal stability, Polymer Engineering and Science, 2015, 55, 2293-2306. -Scopus Indexed
55. Sharika Thankappan Nair, *Poornima Vijayan P*, Priti Xavier, Suryasarathi Bose, Soney C. George, Sabu Thomas, Selective localisation of multi walled carbon nanotubes in polypropylene/natural rubber blends to reduce the percolation threshold, Composites Science and Technology, 2015, 116, 9–17. -Scopus Indexed
56. Sajeev Martin George, Debora Puglia, Jose` M. Kenny, Jyotishkumar Parameswaranpillai, *Poornima Vijayan P*, Jurgen Pionteck, Sabu Thomas, Volume shrinkage and rheological studies of epoxidised and unepoxidised poly(styrene-blockbutadiene- block-styrene) triblock copolymer modified epoxy resin–diamino diphenyl methane nanostructured blend systems, Physical Chemistry Chemical Physics, 2015, 17, 12760. -Scopus Indexed
57. *Poornima Vijayan P*, Jurgen Pionteck and Sabu Thomas, Volume shrinkage and cure kinetics in carboxyl-terminated poly(butadiene-co-acrylonitrile) (CTBN) modified epoxy/clay nanocomposite, Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, 2015, 52, 353–359. -Scopus Indexed
58. *Poornima Vijayan P*, Debora Puglia, Jürgen Pionteck, Jose M. Kenny, Sabu Thomas, Liquid-rubber-modified epoxy/clay nanocomposites: effect of dispersion methods on morphology and ultimate properties, Polymer Bulletin, 2015,72, 1703-1722. -Scopus Indexed
59. *Poornima Vijayan P*, Debora Puglia, Agnieszka Dąbrowska, Pournami Vijayan P, Andrzej Huczko, Jose M. Kenny and Sabu Thomas, Mechanical and thermal properties of epoxy/silicon carbide nanofiber composites, Polymers for Advanced Technologies, 2015, 26 (2), 142–146. -Scopus Indexed
60. *Poornima Vijayan P*, Jürgen Pionteck, Andrzej Huczko, Debora Puglia, Jose M. Kenny, Sabu Thomas, Liquid rubber and silicon carbide nanofiber modified epoxy nanocomposites: volume shrinkage, cure kinetics and properties, Composites Science and Technology, 2014,102, 65–73. -Scopus Indexed
61. Pournami Vijayan P, Marykutty Thomas, Lakshmi Nair, *Poornima Vijayan P*, George K C, Optical and AC conductivity studies of Co doped TiO_2 nanotubes, Int. J. Materials Engineering Innovation, 2014, 5 (3),

	205-215-Scopus Indexed 62. *Poornima Vijayan P*, Debora Puglia, Hanna J. Maria, Josè Kenny, Sabu Thomas, Clay nanostructure and its localisation in epoxy/liquid rubber blend, RSC Advances, 2013, 3 (46), 24634 – 24643. -Scopus Indexed 63. *Poornima Vijayan P*, Debora Puglia, Jose. M. Kenny, and Sabu Thomas, Effect of organically modified nanoclay on the miscibility, rheology, morphology and physical properties of epoxy/ carboxyl-terminated (butadiene-co-acrylonitrile) blend, Soft Matter, 2013, 9, 2899-2911. -Scopus Indexed 64. *Poornima Vijayan P*, Debora Puglia, Jyotishkumar P, Jose M. Kenny, Sabu Thomas, Effect of nanoclay and carboxyl-terminated (butadiene-co-acrylonitrile) (CTBN) rubber on the reaction induced phase separation and cure kinetics of an epoxy/cyclic anhydride system, Journal of Material Science, 2012, 47, 5241–5253. -Scopus Indexed 65. AP Meera, R Tlili, A Boudenne, L Ibos, *V Poornima*, S Thomas, and Y Candau, Thermophysical and mechanical properties of TiO_2 and silica nanoparticle-filled natural rubber composites, Journal of Elastomers & Plastics, 2012, 44, 369-382 -Scopus Indexed 66. *Poornima Vijayan P*, Sabu Thomas, Andrzej Huczko, Epoxy resin/SiC nanocomposites: Synthesis and Characterisation, Composites, 2010,10,11-14 -Scopus Indexed
24	**Popular Article Published**
	1. *Poornima Vijayan P*, Debora Puglia, Mariam Ali S A Al-Maadeed, José M. Kenny, Sabu Thomas, Elastomer/thermoplastic modified epoxy nanocomposites: the hybrid effect of 'micro' and 'nano' scale, Materials Science & Engineering - R: Reports, 2017, 116, 1–29. 2. *Poornima Vijayan P*, Debora Puglia, Jose. M. Kenny, and Sabu Thomas, Effect of organically modified nanoclay on the miscibility, rheology, morphology and physical properties of epoxy/ carboxyl-terminated (butadiene-co-acrylonitrile) blend, Soft Matter, 2013, 9, 2899-2911.
25	**Books Published (Include ISBN/ISSN Number)**
	1. **2.**
26	**Papers Presented**
	1. Presented a research paper entitled 'Biowaste- derived chitosan/nanocellulose/ nanocurcumin coating for banana' in the International Conference on Science for Sustainable Development on December 9-

	10, 2022 organised by Organized by Department of Science & Centre of Excellence- Water Research, Alliance University, Bengaluru, Karnatka-562106, India 2. Presented (oral) a paper titled 'Extraction of cellulose nanofibers from agricultural waste as future nanomaterials' at the ICTSGS-1 conference led by Yamagata University Japan on November 29-30, 2021-Online. 3. Presented (Oral) a paper entitled 'Fabrication of epoxy composites: The role of micro-fillers on morphology and solvent diffusion.' In National Seminar on Emerging Trends in Chemical Science and Engineering organized by Department of Chemistry, CET, Thiruvananthapuram, 26-27 February 2021. 4. Presented a poster entitled "Bio-waste filled epoxy protective coating for metals" in International Conference on Energy and Environment (iCEE *2K19*), at TKM College of arts and sciences, Kollam, Kerala, India, December 12-14, 2019. 5. Presented a poster entitled "Polydopamine capped mesoporous silica nano particles (MSNs) as a potential drug carrier" in International seminar on Supra and Nano chemistry of bioactive molecules 2019, Christian college, Kattakkada, Thiruvananthapuram, Kerala, India, 19-20 August, 2019. 6. Presented a poster entitled "Cellulose nanofibers to assist the release of healing agents in epoxy coating", in Qatar University Annual Research Forum & Exhibition 2017, May 3-4, Qatar. 7. Presented a poster entitled "Inorganic porous materials-based epoxy self-healing coatings" in Qatar Foundation Annual Research Conference (ARC), 22-23 March 2016, Qatar. Screened for final flash presentation. 8. Presented a poster entitled "Self-healing epoxy coatings" in Materials Science and Engineering Symposium, March10th, 2016, Qatar. 9. Presented a poster entitled "Self-healing epoxy coatings: TiO2 nanotube and mesoporous silica as containers for healing agents" in 4th Nano Today Conference, 6th-10th December 2015, Dubai, UAE. 10. Presented PhD thesis during the 'Best PhD Paper Award- 2014' contest conducted by Society for Polymer Science (SPS), India, Thiruvananthapuram Chapter during Formation Day Lecture on 16th January 2015 of SPSI, Thiruvananthapuram. 11. Presented a poster entitled "Carboxyl Terminated (Butadiene-Co-Acrylonitrile) Liquid Rubber Modified Epoxy/Clay Nanocomposite: Liquid Rubber−Clay Interaction, Liquid Rubber Assisted Dispersion and Orientation of Nanoclay" in 3rd International Symposium - Frontiers in Polymer Science 2013, 21 - 23 May 2013, Sitges, Spain 12. Oral presentation of paper entitled "Liquid Rubber Assisted Dispersion and Orientation of Nanoclay in Liquid Rubber Modified Epoxy/Clay Nanocomposite" at 25th Kerala Science congress, Thiruvananthapuram, Kerala, India, Januray 29 –February 1, 2013.

	13. Presented a poster entitled "Synthesis and characterization of silicon carbide nanofiber reinforced epoxy" in 14th CRSI National Symposium in Chemistry (NSC-14), Thiruvananthapuram, Kerala, India, February 3-5, 2012 15. 14. Oral presentation of paper entitled "Rubber Toughened Epoxy Clay Nanocomposites" in National Conference on Nanostructured materials and Nanocomposites (NCNM- 2010), Ottapalam, Palakkad, Kerala, India, March 17- 18, 2011 15. Oral presentation of paper entitled "Effect of Nanoclay on Morphology & Physical Properties of Diglycidyl Ether of Bisphenol-A Epoxy/ Carboxyl-Terminated (Butadiene-*co*-Acrylonitrile) (CTBN) Blend" in National Conference on Advances in Nanoscience and Technology (NANOSAT-10), Amal Jyothi College of Engineering, Kanjirapally, Kottayam, Kerala, India, April 22-23, 2010 16. Oral presentation of paper entitled "Rubber toughened epoxy nanocomposites Dynamic mechanical and rheological studies" in International Conference on Polymer Processing and Charecterization-2010 (ICPPC-2010), Nanoscience and Nanotechnology, M. G. University, Kerala, India, January 15-17, 2010 **17.** Presented a paper entitled "Effect of nanoclay on rubber toughened epoxy Morphological and thermo-mechanical studies" in ICNM-2009 (International Conference on Nano Materials -2009), School of Chemical Sciences, M. G. University, Kerala, India, April 6-8, 2009
27	**Invited Talks/Public Talks delivered**
	1. Delivered plenary lecture at International Conference on Polymers and Nanomaterials (ICPN-2025), March 21-23, 2025 2. Invited Lecture at Exploring the Cosmos, the crime scene, and the cell, A chemical odyssey held at M.S.M College, Kayamkulam, Kerala, India during Feb 17th and 18th 2025. 3. Delivered Alumni talk at Govt. College Kariavattom, on 10th Dec 2024. 4. Chief Guest, Nanotechnology for Food Packaging, at Department of Biotechnology, Sree Narayana College for Women, Kollam at 21st October 2024. 5. Speaker, Science Parliament during 'Aksharamuttam' Talent Fest 2024 at Govt. High School, Kottarakara Organised by Deshabhimani on 20th October 2024 6. Presented a Plenary lecture on 'Sustainable Coating Solutions from Biowaste' in the International Conference on Green Composites for a Sustainable Society (GCSS 2023) organised by Bhoomithra Sena Club, Sacred Heart College, Thevara, Kochi, India in collaboration with Directorate of Environment and Climate Change, Govt. of Kerala, India. 26-27 May 2023. 7. Resource person for certificate course on 'Step into Research' – session 9 ' The art of Writing Research

	Publication' organized by St. Joseph's college for Women, Alappuzha, Kerala, India on 24 Jan 2022. 8. **Resource person** in the National Webinar on Thermal Analysis of Materials organized by the Post Graduate Department of Chemistry, Vimala College (Autonomous) Thrissur on 6th February 2021 9. **Delivered guest lecture** on 'Self-healing coatings and composites' at International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN) on 16th January 2021 in online mode. 10. Delivered guest lectures for 'Materials Science and Technology Master Program', College of Arts and Sciences, Qatar University on 21-04-201 11. Invited talk on "Self-healing Epoxy Coating for Metal Substrate" in Sustainable Materials and Materials for Sustainability Workshop held under the Qatar-UK Research Networking Programme (Q-UKRNP), 8-10 May 2016, Qatar.
28	**Collaboration/Consultancy/Linkages**
	1. Mahatma Gandhi University, Kottayam, Kerala 2. UNIVERSITE DE LORRAINE, France 3. Alliance University, Bangalore, India 4. Sacred Heart College, Kochi, Kerala, India 5. Mahatma Gandhi College, Thiruvananthapuram, India 6. Gdańsk University of Technology, Gabriela Narutowicza Street, Gdansk, Poland 7. Università degli Studi di Perugia, Perugia, Italy 8. Technical University of Applied Sciences Wildau, Germany 9. National Research and Innovation Agency, Indonesia 10. Swinburne University of Technology, Australia
29	**Orientation Courses Attended**
	1. Participated in NEP 2020 Orientation and Sensitisation Programme MMTTP UGC Organised by MMTTC, University of Kerala, Thiruvananthapuram from 21-08-2024 to 03-09-2024.

	2. 4-Week Induction/Orientation Programme conducted by Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING for "Faculty in Universities/Colleges/Institutes of Higher Education" from June 26 - July 24, 2020 and obtained grade A.
30	**Refresher Courses Attended**
	1. Participated in the One-week Faculty Development Programme (FDP) on Edu. Tech Hands-on Online Workshop conducted by the Faculty Development Centre of the Kerala State Higher Education Council (KSHEC), Thiruvananthapuram from 23th to 28th June 2021. 2. Participated in online short-term Faculty Development Program on Nanomaterials Characterization Techniques and Results Analysis Methodology: Ideas, Innovations & Initiatives (chemistry) of five days Under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching conducted by MHRD'S Faculty Development center HRDC, Savitribai Phule Pune University, Pune, Maharashtra. 27-31 July 2020 3. Secured 83 % in external examination conducted by Swayam for Annual Refresher Programme in Teaching (ARPIT) – 2020 4. Certificate of Excellence from Elsevier Research Academy for the successful completion of Certified Peer Review Course. November-2019
31	**Seminars/Workshops/Training Organised**
	• Coordinator, One day hands-on training on Electrochemical Techniques on 10th March 2025. • Coordinator, Launching of Startup Programmes Sree Narayana College for Women, Kollam on 30th December 2024. • Coordinator, Stepping into Research at Sree Narayana College for Women, Kollam on 21st August 2024 • Coordinator, Impact Lecture Series at Sree Narayana College for Women, Kollam on 20th March 2024 funded by Institution's Innovation Council (IIC). • Coordinator, Research Paper Presentation Competition On behalf of International Journal for Advanced Interdisciplinary Sciences (IJAIS) at Sree Narayana College for Women Kollam, 17th January 2023. • Coordinator, online Inauguration of International Journal of Advanced Interdisciplinary Sciences (IJAIS) by Prof. Dr. Sabu Thomas, Hon'ble Vice Chancellor, M G University, Kerala India on 7th Jan 2021. • Coordinator, International webinar on the topic 'How to publish scientific papers: why you win or lose' on

	31-10-2020. • Convener of International webinar on 'Nanotechnology against COVID 19' organized by by Sree Narayana College for Women, Kollam on 23 July 2020. • Coordinator of technical session XII of PANLORE 2020, Seminar series conducted by Sree Narayana College for Women, Kollam (from 29 Jan 2020 to 10 Feb 2020) on 5th Feb 2020. • Convener of 'Invited lectures on smart materials and analytical techniques' on 3rd September 2019. Organized by department of chemistry, SNCW Kollam.
32	**Workshops Organised**
	1. **2.**
33	**Training Organised**
	1. **2.**
34	**Orientation Programmes/Induction Programmes Organised**
	1. **2.**
35	**FDP/Any Other Programmes Organised**
	1. **2.**
36	**Startups/Innovation/Incubation Centre (Give the details)**
	1.
37	**Seminars/Conferences Attended**

	1. **2.**
38	**Workshops Attended**
	1. **2.**
39	**Trainings Attended**
	1. One day training on 'Biological Evaluation Based on ISO10993' on 1st October 2018 at Biomedical Technology Wing, Sree Chitra Institute for Medical Sciences and Technology, Thiruvananthapuram. 2. Attended 'Second Young Polymer Scientists Conference and Sixth Short Course on Nanostructured Polymer Materials: From Chemistry to Applications', Terni, Italy, April 13-15, 2008
40	**Extension Activities Organised/Participated inside the Campus**
	1. **2.**
41	**Extension Activities Organised/Participated outside the Campus**
	1. **2.**
42	**Representation in Syndicate/Senate/Academic Council/Board of Studies**
	1.

	2.
43	**Tutorship in UG/PG (Mention the Class and Year/Batch)**
	1. UG 2020-24 **2. PG 2024-26**
44	**Academic Responsibilities Undertaken**
	Nodal Officer, Innovation and Entrepreneurship Development Centre (IEDC), 2025 April- till date Convenor, Institution's Innovation Council (IIC) (MoE, Govt. of India), Sree Narayana College for Women, Kollam October 2024- till date Vice-President, Institution's Innovation Council (IIC) (MoE, Govt. of India), Sree Narayana College for Women, Kollam 2020- September 2024 Nodal Officer, ATAL Ranking of Institutions on Innovation Achievements (ARIIA), Ministry of Education (MoE), Govt. of India, 2020-2024 Member, Internal Quality Assurance Cell (IQAC), Sree Narayana College for Women, Kollam, 2022-till date Managing Editor, International Journal of Advanced Interdisciplinary Sciences (IJAIS), online journal from SN college for Women. 2021- till date Member, Research Committee, SNCW, Kollam 2021- till date
45	**Any other Duties Performed at College**
	1. **2.**

Kindly attach a photograph as email attachment if you need to update in the website