Dr Poornima Vijayan P

Assistant Professor of Chemistry

ADDRESS & EMAIL

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QUALIFICATION

MSc, PhD

DATE OF JOINING

17-01-2019

EXPERIENCE IN YEARS

Teaching: 2 years

Research: 5 years

AREA OF SPECIALIZATION:

Polymer science and technology

ADMINISTRATIVE DISTINCTION

- Research Committee Member (2020-2021)
- SAAC Committee Member (2020-2021)
- Nodal Officer- AIIRA ATAL Ranking (2020-2021)
- Managing Editor, International Journal of Advanced Interdisciplinary Sciences (IJAIS), online journal from SN college for Women.

PAPER PRESENTATIONS

- 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, Kerala, India, 26-27 February 2021.
- 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.
- 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**.
- Presented a poster entitled "Inorganic porous materials based epoxy self-healing coatings" in Qatar Foundation Annual Research Conference (**ARC**), 22-23 March 2016, **Qatar**.
- Presented a poster entitled "Self-healing epoxy coatings" in Materials Science and Engineering Symposium, March10th, 2016, **Qatar**.
- Presented a poster entitled "Self-healing epoxy coatings: TiO_2 nanotube and mesoporous silica as containers for healing agents" in 4th Nano Today Conference, 6th-10th December 2015, Dubai, **UAE**.

- 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.
- 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**
- 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**, January 29 –February 1, 2013.
- 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
- 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
- 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
- Oral presentation of paper entitled "Rubber toughened epoxy nanocomposites; Dynamic mechanical and rheological studies" in International Conference on Polymer Processing and Characterization-2010 (ICPPC-2010), Nanoscience and Nanotechnology, M. G. University, Kerala, **India**, January 15-17, 2010
- 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

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

- 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.
- 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
- Successfully completed a 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.

- Attended Five day faculty development programme on 'A century of polymer science: Developments and challenges organised by PG department of chemistry, Vimala College, Thrissur 17-21 August 2020
- Secured 83 % in external examination conducted by Swayam for Annual Refresher Programme in Teaching (ARPIT) – 2020
- Certificate of Excellence from Elsevier Research Academy for the successful completion of Certified Peer Review Course-November 2019
- Participated in International seminar on Supra and Nano chemistry of bioactive molecules 2019, Christian college, Kattakkada, Thiruvananthapuram, Kerala, **India**, 19-20 August, 2019.
- 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, Inida.
- Attended 'Second Young Polymer Scientists Conference and Sixth Short Course on Nanostructured Polymer Materials: From Chemistry to Applications', Terni, **Italy**, April 13-15, 2008

INVITED LECTURES AS RESOURCE PERSON

- 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
- Delivered an invited 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.
- 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**.
- Delivered guest lectures for **'**Materials Science and Technology Master Program', College of Arts and Sciences, Qatar University. on 21-04-201

PUBLICATIONS IN BOOKS OR JOURNALS

Original Research Papers

- Balaji Krishnakumar, Debajyoti Bose, Manjeet Singh, RV Sanka, Velidi VSS Gurunadh, Shailey Singhal, Vijay Parthasarthy, Liberata Guadagno, **Poornima Vijayan P**, Sabu Thomas, Sravendra Rana, Sugarcane Bagasse-Derived Activated Carbon-(AC-) Epoxy Vitrimer Biocomposite: Thermomechanical and Self-Healing Performance, International Journal of Polymer Science, **2021**, https://doi.org/10.1155/2021/5561755
- 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

- 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

- 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

- 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

- **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, 2020, https://doi.org/10.1016/j.matpr.2020.05.229.
- 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:e49412.
- 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.
- 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
- 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.

- **Poornima Vijayan P**, Debora Puglia, Biomimetic multifunctional materials: a review. Emergent materials, **2,** 391–415 (2019)
- **Poornima Vijayan P**, Mariam Al-Maadeed, Self-Repairing Composites for Corrosion Protection: A Review on Recent Strategies and Evaluation Methods. *Materials*, 2019, *12*, 2754.
- **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.
- **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.
- 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.
- **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.
- **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.
- **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.
- 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.
- **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.
- 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.

- 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.
- 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.
- **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.
- **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
- 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.
- **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.
- **Poornima Vijayan P** and Mariam Ali S A Al-Maadeed, 'Containers' for self-healing epoxy composites and coating: trends and advances, eXPRESS Polymer Letters, 2016, 10 (6), 506–524.
- **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*.
- 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.
- 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.
- 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.

- **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.
- **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.
- **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.
- **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.
- 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
- 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.
- **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.
- **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.
- 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
- **Poornima Vijayan P**, Sabu Thomas, Andrzej Huczko, Epoxy resin/SiC nanocomposites: Synthesis and Characterisation, Composites, 2010,10,11-14

Book Chapters

- **P. Poornima Vijayan,** Sharika T. Nair, Self-Healing Polymer Coatings (Ch 12), in Polymer Coatings: Technologies and Applications. Rangappa, S. (Ed.),

Parameswaranpillai, J. (Ed.), Siengchin, S. (Ed.). (2021). Boca Raton: CRC Press, ISBN9780429199226 https://doi.org/10.1201/9780429199226

- **Poornima Vijayan P**, (2020) Scattering studies of compatibilized polymer blends. In: Compatibilization of Polymer Blends, Elsevier, pp-331-347.
- **Poornima Vijayan P**. (2020) Mechanical Properties of Shape-Memory Polymers, Polymer Blends, and Composites. In: Parameswaranpillai J., Siengchin S., George J., Jose S. (eds) Shape Memory Polymers, Blends and Composites. Advanced Structured Materials, vol 115. Springer, Singapore
- **Poornima Vijayan P**. 'Morphology of Epoxy/Rubber Blends'. In 'Handbook of Epoxy Blends', Springer International Publishing, 2015, pp 1-46.
- R. Arunima, **Poornima Vijayan P**, Sabu Thomas, Sect. 10.4, 'Miscibility and Solubility', In 'Properties and Performance of Polymer Blends' by S. F. Xavier, in 'Polymer Blends Handbook', Second edition, Springer Science+Business Media Dordrecht, 2014
- Vincent Sobotka, Didier Delaunay, Nicolas Boyard, Sabu Thomas, and **Poornima Vijayan P**, 'Thermal Properties', in 'Micro and Nanostructured Epoxy/Rubber Blends', John Wiley & Sons, Inc. 2014, ch-14, pp 289-304
- S M George, **Poornima Vijayan**, S Thomas, **'**Nanostructures and the toughening of thermosets', in 'Thermosets: Structure, properties and applications.' Woodhead Publishing in Materials, 2012, ch-5, pp 118-162
- **Poornima Vijayan P**, Siby Varghese, Sabu Thomas, **'**Mechanical and Viscoelastic Characterization of Multiphase Polymer Systems', in 'Handbook of Multiphase Polymer Systems', Wiley, USA, 2011, ch-7, pp 251–310.
- Raju Thomas, **Poornima Vijayan P** and Sabu Thomas, **'**Recycling of thermosetting polymers: Their blends and composites', in 'Recent Developments in Polymer Recycling', Transworld Research Network, 2011, ch-4, pp 121-153.
- Proceedings of ICNM-2009 (Open Access Book)**,** Editors: Sabu Thomas and **Poornima Vijayan;** ISBN : 978-81-906027-5-4 Publisher : Applied Science Innovations Private Limited, India. August 2009

MEMBERSHIP IN PROFESSIONAL BODIES

- **American chemical society (ACS)** community member (Membership number - 30831098)
- **ACT (Academy of Chemistry teachers)**State level professional body

OTHER ACHIEVEMENTS

- **Approved research guide** of **University of Kerala.**
- **Best Researcher Poster Award** in Materials Science and Engineering Symposium 2016, Qatar, on 10th March, 2016.
- Qatar National Research Fund **Post-Doctoral Research Award** (QNRF-PDRA) for the period of 25th Jan 2015– 24th Jan 2017

- **Travel grant** for attending International Conference from Department of Science & Technology, New-Delhi, India. May 2013
- **Visiting research student** at Organization: Leibniz-lnstitut fur Polymerforschung (IPF), Dresden, Germany during Sep 2011-Dec 2011
- Visiting research student under MIUR programme Italy - India (2007) - **Grants for Young Researchers in the field of Nanoscience and Nanotechnology** at University of Perugia, Italy during April 2008 –March 2009
- Acting as **Peer-Reviewer** of prestigious International Journals: Progress in polymer coating (Elsevier), Polymer (Elsevier), Macromolecular Symposia (Wiley), eXPRESS Polymer Letters, Industrial & Engineering Chemistry Research (ACS), Applied Physics A and Applied surface science, SN Applied Science (Springer)
- Acting as **guest editor** of the Special Issue on 'Self-healing Nanocomposites' published by International Journal of Polymer Science
- Programme co-ordinator, 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.
- Co-ordinator, International webinar on the topic 'How to publish scientific papers:why you win or lose' on 31-10-2020.
- Convenor, International webinar on 'Nanotechnology against COVID-19' on 23 rd July 2020

RESEARCH OUTPUT

- Published 50 research papers in prestigious international journals
- Published 10 Book chapters.
- Active research collaboration with University of Perugia, Terni, Italy and Faculty of Chemistry, University of Warsaw, Poland

CITATIONS AND INDEXING, IF ANY

- **JOURNAL CITATIONS**
  - **716 (Scopus)**
    Scopus Author ID: **55123407300**
    https://www.scopus.com/authid/detail.uri?authorId=55123407300
    Orchid ID: https://orcid.org/0000-0002-2899-038X
  - **852 (Google scholar)**
    https://scholar.google.com/citations?user=Fp9zGDwAAAAJ&hl=en

- **INDEXING (h-INDEX)**
  - **16 (Scopus)**
  - **17 (Google scholar)**