

PROFORMA FOR BIODATA

1. Name: Dr. G. JERALD MARIA ANTONY
2. Designation : Assistant Professor
3. Department : Department of Chemistry
4. Correspondence Address : 1/144, Philominal Puram, 3rd Street, Kattur, Tiruchirappalli-620 019
5. Email and Contact number: jeraldchem@nct.ac.in, 9442061981
6. Date of Birth : 27 June 1980
7. Gender : Male
8. Category (Gen/SC/ST/SCA/DNC/MBC/BCM/BC) : BC
9. Whether differently abled : No
10. Academic Qualification : MSc., MPhil., MTech., PhD

| S. No | Degree | Year | Subject | University/Institution | % of Marks |
|-------|--------|------|----------------|--|------------|
| 01 | PhD | 2020 | Chemistry | Visvesvaraya Technological University, India | |
| 02 | MTech | 2010 | Nanotechnology | Anna University, Tamil Nadu, India | 72 |
| 03 | MPhil | 2008 | Chemistr) | Bharathidasan University, Tamil nadu, India | 73 |
| 04 | MSc | 2002 | Chemistry | St Joseph's College, Tamil nadu, India | 62 |

11. Ph.D thesis title: Studies on Multifunctional Thin Films: Processing and Characterization with Embedded Hybrid Nano Inclusions

Guide's Name: Dr. S.T Aruna and Dr. S. Raja, CSIR-NAL, Bangalore.

Institution/ University: Visvesvaraya Technological University, India

Year of Award" 2020

12. Work Experience

| S. No | Position held | Name of the Institute | From | To | Pay Scale |
|-------|---------------------|-------------------------|-------------|-----------|-----------|
| 01 | Assistant Professor | National College Trichy | 23.Aug 2021 | Till date | 61200 |
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13. Professional Recognition/ Award/ Certificate/ Fellowship received by the applicant

- I. Indian society for the advancement of materials and process engineering (ISAMPE) award for Smart Materials and Systems Technology Development for “An Improved Thermoset Shape Memory Polymer and the Process for Preparation Thereof”, 2019.
- II. CSIR – NAL Best innovation award for Excellence in development, design, and project execution for “Synthesis and Properties of rGO-Fe₃O₄ Embedded Thermoplastic Shape Memory Polymer”, 2018.
- III. CSIR – NAL Best innovation award for Excellence in development, design, and project execution for “Development of Bio-Compatible Shape Memory Polymer”, 2015.
- IV. CSIR – Senior Research Fellow, Structural Technological Division, National Aerospace Laboratories, Bangalore, India. 2013 to 2016

14. Publications

| S. No. | Author(s) | Title | Name of Journal | Volume | Page | Year |
|--------|--|--|--------------------|--------------------------|------------|-------|
| 01 | Dhandayutham Saravanan., C. Ponraj, Themmila Khamrang, Madhukar Hemamalini, and G Jerald Maria Antony, | 2-(10-Bromoanthracen-9-yl)-N-phenylaniline | IUCrData | 9, no. 5 (2024): x240475 | | 2024 |
| 02 | Sureshkumar, K., Themmila Khamrang, Madhukar Hemamalini, Dhandayutham Saravanan, and G. Jerald Maria Antony. | 10-Bromo-N, N-diphenylanthracen-9-amine. | IUCrData | 9, no. 3 (2024): x240207 | | 2024 |
| 03 | G Jerald Maria Antony, BK Bhavya, S Raja, ST Aruna | “Solvent casting-assisted synthesis of thermally responsive shape memory polymer and its composites”. | Polymer Bulletin, | 80, | 1221–1223 | 2023 |
| 04 | G. Jerald Maria Antony, R. Sanjeeth Kevin, Chetan S. Jarali, S. Raja Y. Charles Lu, | A novel shape memory polymer composites with grafted hydroxyapatite nanoparticles for high strength and stiffness applications | Polymer Composites | ,43,6, | 3585-3597, | 2022. |

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|----|---|--|---|--------------|-------------|------|
| 05 | G. Jerald Maria Antony, Priya Poulouse, S.T. Aruna, S. K. Shanuja, A. Gnanamani, Y. K. Suneetha, and S. Raja, | “Synthesis and Properties of a New Chitosan-Based Shape Memory Polymer and its Composites” | . Chemistry Select, | 6, | 808 – 819, | 2021 |
| 06 | G. Jerald Maria Antony, S.T. Aruna, S. Raja, Chetan S. Jarali, | “Electrical and thermal stimuli-responsive thermoplastic shape memory polymer composites containing rGO, Fe ₃ O ₄ , and rGO-Fe ₃ O ₄ fillers”, | Polym. Bull. | 78, | 6267 – 6289 | 2021 |
| 07 | G. Jerald Maria Antony, S. Raja, Chetan S. Jarali, S.T. Aruna, | “Effect of the Addition of Diurethane Dimethacrylate on the Chemical and Mechanical Properties of tBA-PEGDMA Acrylate Based Shape Memory Polymer Network”. | Journal of the mechanical behavior of biomedical materials. | 110, 103951, | | 2020 |
| 08 | G. Jerald Maria Antony, S.T. Aruna, S. Raja | “Enhanced mechanical properties acrylate-based shape memory polymer using grafted hydroxyapatite”, | Journal of Polymer Research | 25,120, | | 2018 |
| 09 | G. Jerald Maria Antony, Chetan S. Jarali, S.T. Aruna, S. Raja. | “Tailored poly(ethylene) glycol dimethacrylate based shape memory polymer for orthopedic applications”. | Journal of the mechanical behavior of biomedical materials | 65 | 857– 865 | 2017 |
| 10 | M. Ganesh, G. Jerald Maria Antony, Rajesh, K. Rajasekar “ | A new Validated spectrophotometric method for determination of Trimetazidine in formulation and comparison with UV method. | Der PharmaChemica, | 1(2) | 97- 104. | 2009 |

h-index:5

i10 index:4

Total citations: 80

15. Details of patents: 01

S.T. Aruna, S. Raja, Chetan S. Jarali, G. Jerald Maria Antony “An improved thermoset shape memory polymer (SMP) and a process for preparation thereof”, (Application No: 201911023889; Patent No: 505102)

16. Books/ Reports/Chapters/General articles etc

| S. No | Title | Author's Name | Publisher | Year of Publication |
|-------|--|--|--|---------------------|
| 01 | “Stimuli-responsive self-healable material.” In: “Self-healing Materials and Their Allied Applications”, Inamuddin Inamuddin (eds) | G. Jerald Maria Antony, S. Raja, S.T. Aruna, | Wiley-Scrivener, Australia, ISBN: 1119710154, 9781119710158. | 2021 |
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17. Research guidance

Ph.D. : Awarded :
 Submitted :
 On going :
 M.Phil. : Awarded :
 M.Sc. Dissertation : Awarded : 04

18. List of Completed/Ongoing/Submitted projects

| S.No | Title of the Project | Duration | | Total Cost (Rs.) | Name of Funding Agency | Status |
|------|----------------------|----------|----|------------------|------------------------|--------|
| | | From | To | | | |
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- (a) Major Results/ Highlights of the project including achievement(publications, patents etc.), for *completed projects*
 (b) Up-to date Technical progress report for *on-going projects*.

19. Membership

- (a) Professional bodies
- (b) Editorial board
- (c) Advisory board
- (d) Academic bodies

20. Countries visited

21. Any other Information

DECLARATION: -

I certify that the foregoing information is correct and complete to the best of my knowledge and belief.

Place: Trichy

Date: 18.07.2024

Signature