

# Curriculum Vitae

## PARTHA BAIRI, PhD

Researcher

Research Initiative for Supra-Materials (RISM)

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## SUMMARY

- ✓ Planning and Execute Experiments, Laboratory Management, Experimental Data Analysis and Conclusion, Presentation, Collaboration, Critical Thinking and Problem Solving, Writing Research Articles, and Proposal (**14 years**)
- ✓ Capable of Working as a Team Member as Well as Independently
- ✓ Work Experience in Industrial Projects (**3 times**)
- ✓ Synthesis and Characterization of Hybrid Polymer Conducting Gels and Supramolecular Gels (**7 years**)
- ✓ Synthesis and Characterization of Conducting Nanostructured Polymers (**7 years**)
- ✓ Polymer Functionalized Graphene for Water Sensor (**2.5 Years**)
- ✓ Preparation of Polymer-Carbon Hybrid Membranes (**3 years**)
- ✓ Synthesis, and Characterization of Carbon and Carbon-Polymer Hybrid (**8 years**)
- ✓ Sensor for Healthcare Technology (**6 years**)
- ✓ Supercapacitors, Energy storage and Electrochemistry (**5 years**)
- ✓ Proficiency in Handling Analytical Instruments and Data Interpretation: (**14 years**)
  - FE-SEM, FT-IR, TGA, DSC, Fluorescence and UV-Vis Spectrometer, Powder XRD, Volumetric Adsorption, Raman Spectrometer, Rheology, Quartz Crystal Microbalance, Electrochemical Analyzer, Digital Multimeter
  - Software Skills: (**14 years**): Microsoft office, Origin, Chem Draw, Casa XPS, Fiji ImageJ, Internet
- ✓ Communication skills in English (Fluent), Hindi (Fluent) and Bengali (Native)

## AWARDS & FELLOWSHIP

- Dr. D S Kothari Postdoctoral Fellowship (Higher Fellowship), UGC, India, 2017
- American Chemical Society (ACS) Membership Award, 6<sup>th</sup> July, 2015 – 5<sup>th</sup> July 2018
- NIMS-MANA Postdoctoral Fellowship, NIMS, Japan, 2014- 2017
- Senior Research Fellowship, NET-CSIR, India, 2011-2014
- Junior Research Fellowship, NET-CSIR, India, 2009-2011
- GATE, 2009, percentile score 96.7, all India rank 219
- IIT Madras merit-cum-means scholarship, IIT Madras, India (2007-2009)
- Joint Admission Test for M.Sc. (JAM)-2007, (organised by IIT), all India rank 113

**RESEARCH PUBLICATION** Total publication: **51**, Average citation per paper: **37**, Total Citation: **1900+**, *h*-index: **27**  
(<https://scholar.google.co.in/citations?user=8mZAcPMAAAAJ&hl=en>)

## EDUCATION

- **PhD: Indian Association for the Cultivation of Science, India** Jul 2009 - Feb 2014  
Project: Design, synthesis and characterization of hybrid conducting polymer gels and supramolecular gels
- **MSc: First Class, Indian Institute of Technology Madras, India** Jul 2009  
Project: Classification of ayurvedic preparations using synchronous fluorescence spectroscopy and chemometrics
- **BSc Honours: First Class, The University of Burdwan, India** Jul 2007

## EXPERIENCE

- **Researcher, Shinshu University, Japan** Feb 2020 - Present  
Project: Functionalization of graphene by polymer for sensor and separation.
- **DSK Postdoctoral Fellow, Jadavpur University, India** Dec 2017 - Jan 2020  
Project: Design selective nitrogen-doped nanocarbon from conducting polymer for energy storage and conversion.
- **Research Fellow, Nanyang Technological University, Singapore** Apr 2017 - Nov 2017  
Project: Polymer functionalized microporous carbon membrane with the controlled thickness for separation.
- **NIMS Postdoctoral Researcher, National Institute for Materials Science, Japan** Apr 2014 - Mar 2017  
Project: Controlled synthesis of hierarchically structured nanocarbon for sensor and energy storage applications.

**REVIEWER EXPERIENCE (Volunteering):** ACS Appl. Mater. Interfaces, J. Nanosci. Nanotechnol., Adv. Sci. Eng. Med., Sci. Technol. Adv. Mater., J. Mater. Sci.: Mater. Electron., J. Oleo Sci.