

Curriculum Vitae

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EXPERIENCE:

1. Assistant Professor, July, 2017-present, Raghunathpur College (Affiliated to Sidho Kanho Birsha University).
2. Research Associate (CSIR), Indian Institute of Science Education and Research Kolkata (IISER-K), March 2017- June, 2017.
3. Project Research Assistant, IISER-K, June 2016- February, 2017.
4. Teaching Assistant, IISER-K, (Course: Chemistry of Macromolecules).

TEACHING AREAS:

1. Physical Chemistry: Chemical Kinetics, Properties of States (Gas, Liquid and Solid), Electrical Conductance, Ionic Equilibria, Transport Phenomena, Surface Phenomena, Nano-materials, Photochemistry, Catalysis, Polymer Chemistry.

EDUCATIONAL BACKGROUND:

1. PhD (Polymer Chemistry): Indian Institute of Science Education and Research-Kolkata (IISER-K), August 2010 - May 2016.
2. MSc Chemistry (Physical Chemistry Special): The University of Burdwan, 2010 (1st Class).
3. BSc Chemistry (Hons): The University of Burdwan (Burdwan Raj College), 2008 (1st Class).
4. Higher Secondary Education: West Bengal Council of Higher Secondary Education (Birbhum Zilla School), 2005 (1st Division).
5. Secondary Education: West Bengal Board of Secondary Education (Pandaveswar Sree Jaypuria High School), 2003 (1st Division).

AWARDS AND ACHIEVEMENTS:

1. American Chemical Society Best Poster Award in Macro, 2015 (An International Symposium on Polymer Science and Technology).
2. CSIR-SRF NET (January, 2012) Chemical Sciences.
3. CSIR-JRF NET (December, 2009) Chemical Sciences.
4. GATE 2010 Chemical Sciences.
5. Reviewer of Journals (a) European Polymer Journal (Elsevier, I. F. = 3.6); (b) Journal of Macromolecular Science, Part A: Pure and Applied Chemistry (Taylor & Francis, I. F. = 1.16).

PROFESSIONAL MEMBERSHIP:

1. Life Member of The Society of Polymer Science, India.

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PEER-REVIEWED PUBLICATIONS:

Publications after joining Raghunathpur College:

1. **K. Bauri**,[†] B. Saha,[†] A. Banerjee, P. De “Recent advances in the development and applications of nonconventional luminescent polymers” *Polym. Chem.* **2020**, *11*, 7293-7315 († equal contribution) (Invited Article) (I. F. = 5.37; Cited in total 02 publications).
2. B. Saha, B. Ruidas, S. Mete, C. D. Mukhopadhyay,* **K. Bauri**,* P. De*, “AIE-active non-conjugated poly(*N*-vinylcaprolactam) as fluorescent thermometer for intracellular temperature imaging” *Chem. Sci.* **2020**, *11*, 141-147 (* Corresponding Author) (I. F. = 9.55; Cited in total 07 publications).
3. B. Saha, N. Chaudhuri, A. Bhadrans, **K. Bauri**,* P. De*, “Amino acid-derived alternating polyampholyte luminogens” *Polym. Chem.* **2019**, *10*, 3306-3317 (* Corresponding Author) (I. F. = 5.37; Cited in total 10 publications).
4. **K. Bauri**, M. Nandi, P. De, “Amino acid-derived stimuli-responsive polymers and their applications” *Polym. Chem.* **2018**, *9*, 1257-1287 (Invited Review Article) (I. F. = 5.37; Cited in total 70 publications).
5. **K. Bauri**,[†] B. Saha,[†] J. Mahanti, P. De, “ A nonconjugated macromolecular luminogen for speedy, selective and sensitive detection of picric acid in water ” *Polym. Chem.* **2017**, *8*, 7180-7187 († equal contribution) (I. F. = 5.37; Cited in total 37 publications).

Publications during PhD and Research Associate:

6. **K. Bauri**,[†] B. Saha,[†] A. Bag, P. K. Ghorai, P. De, “ Conventional fluorophore-free dual pH- and thermo-responsive luminescent alternating copolymer” *Polym. Chem.* **2016**, *7*, 6895-6900 († equal contribution) (I. F. = 5.37; Cited in total 41 publications).
7. B. Maiti, **K. Bauri**, M. Nandi, P. De, “Surface functionalized nano-objects from oleic acid-derived stabilizer *via* non-polar RAFT dispersion polymerization” *J. Polym. Sci., Part A: Polym. Chem.* **2017**, *55*, 263-273 (I. F. = 3.11; Cited in total 13 publication).
8. **K. Bauri**, B. Maiti, P. De, “Leucine-based block copolymer nano-objects *via* polymerization-induced self-assembly (PISA)” *Macromol. Symp.* **2016**, *369*, 101-107 (I. F. = 0.9; Cited in total 01 publication).
9. **K. Bauri**, A. Pan, U. Haldar, A. Narayanan, P. De, “Exploring amino acid tethered polymethacrylates as CO₂-sensitive macromolecules: A concealed Property” *J. Polym. Sci., Part A: Polym. Chem.* **2016**, *54*, 2794-2803 (I. F. = 3.11; Cited in total 05 publications).
10. **K. Bauri**, S. G. Roy, P. De, “Side-chain amino acid derived cationic chiral polymers by controlled radical polymerization” *Macromol. Chem. Phys.* **2016**, *217*, 365-379 (I. F. = 2.6; Cited in total 31 publications).
11. **K. Bauri**, K. D. Sayala, R. Sinha Roy, P. De, “Chiral copoly(methacrylate)s carrying amino acid pendants in the side-chains” *Eur. Polym. J.* **2015**, *73*, 237-246 (I. F. = 3.53; Cited in total 04 publication).
12. **K. Bauri**, A. Narayanan, U. Haldar, P. De, “Polymerization-induced self-assembly driving chiral nanostructured materials” *Polym. Chem.* **2015**, *6*, 6152-6162 (I. F. = 5.37; Cited in total 40 publications).

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13. U. Haldar, **K. Bauri**, R. Li, R. Faust, P. De, "Polyisobutylene-based pH-responsive self-healing polymeric gels" *ACS Appl. Mater. Interfaces* **2015**, 7, 8779-8788 (I. F. = 7.50; Cited in total 54 publications).
14. U. Haldar, **K. Bauri**, R. Li, R. Faust, P. De, "Polyisobutylene containing organic/inorganic hybrid block copolymers and their crystalline behaviour" *J. Polym. Sci., Part A: Polym. Chem.* **2015**, 53, 1125-1133 (I. F. = 3.11; Cited in total 05 publications).
15. **K. Bauri**, R. Li, R. Faust, P. De, "Synthesis and self-assembly of polyisobutylene based thermoresponsive diblock copolymers via combination of cationic and RAFT polymerizations" *Macromol. Symp.* **2015**, 349, 65-73 (I. F. = 0.9; Cited in total 08 publication).
16. A. Narayanan, **K. Bauri**, B. Ruidas, G. Pradhan, S. Banerjee, P. De, "Specific counterion repercussions on the thermal, pH-response, and electrochemical properties of side-chain leucine based chiral polyelectrolytes" *Langmuir* **2014**, 30, 13430-13437 (I. F. = 3.99; Cited in total 09 publications).
17. S. G. Roy, **K. Bauri**, S. Pal, P. De, "Tryptophan containing covalently cross-linked polymeric gels with fluorescence and pH-induced reversible sol-gel transition properties" *Polym. Chem.* **2014**, 5, 3624-3633 (I. F. = 5.37; Cited in total 40 publications).
18. **K. Bauri**, P. De, P. N. Shah, R. Li, R. Faust, "Polyisobutylene-based helical block copolymers with pH-responsive cationic side-chain amino acid moieties by tandem living polymerizations" *Macromolecules* **2013**, 46, 5861-5870 (I. F. = 5.99; Cited in total 56 publications).
19. S. G. Roy, **K. Bauri**, S. Pal, A. Goswami, G. Madras, P. De, "Synthesis, characterization and thermal degradation of dual temperature-and pH-sensitive RAFT-made copolymers of *N, N*-(dimethylamino) ethyl methacrylate and methyl methacrylate" *Polym. Int.* **2013**, 62, 463-473 (I. F. = 2.07; Cited in total 64 publications).
20. **K. Bauri**, S. Pant, S. G. Roy, P. De, "Dual pH and temperature responsive helical copolymer libraries with pendant chiral leucine moieties" *Polym. Chem.* **2013**, 4, 4052-4060 (I. F. = 5.37; Cited in total 52 publications).
21. **K. Bauri**, S. G. Roy, S. Pant, P. De, "Controlled synthesis of amino acid-based pH-responsive chiral polymers and self-assembly of their block copolymers" *Langmuir* **2013**, 29, 2764-2774 (I. F. = 3.99; Cited in total 73 publications).
22. **K. Bauri**, S. G. Roy, S. Arora, R. K. Dey, A. Goswami, G. Madras, P. De, "Thermal degradation kinetics of thermoresponsive poly (*N*-isopropylacrylamide-*co-N, N*-dimethylacrylamide) copolymers prepared via RAFT polymerization" *J. Therm. Anal. Calorim.* **2013**, 111, 753-761 (I. F. = 2.2; Cited in total 49 publications).

RESEARCH INTERESTS:

1. Sensing and removal of anions
2. Unorthodox macromolecular luminogen for potential bioapplications
3. Fluorometric detection of small organic pollutants and nitro explosive in water
4. Stimuli-responsive macromolecular architectures
5. Polymerization-Induced Self-Assembly (PISA)