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***Education and Qualifications:*****October, 2018-present**

Professor, Indian Institute of Science Education and Research Kolkata, India

December, 2013-October, 2018

Associate Professor, Indian Institute of Science Education and Research Kolkata, India

November, 2009-November, 2013

Assistant Professor, Indian Institute of Science Education and Research Kolkata, India

September, 2008–October, 2009

Distinguished Scientist, PhaseRx Pharmaceuticals, Seattle, WA, USA.

January, 2007–August, 2008

(Advisor: Professor Brent S Sumerlin)

Post-Doctoral Fellow, Dept. of Chemistry, Southern Methodist University, Dallas, TX, USA.

March, 2002–December, 2006

(Advisor: Professor Rudolf Faust)

Post-Doctoral Fellow, Dept. of Chemistry, UMASS Lowell, Lowell, MA, USA.

Ph. D. August, 1997–March, 2002

(PhD advisor: Professor D. N. Sathyanarayana)

Indian Institute of Science, Dept. of Inorganic and Physical Chemistry, Bangalore, India.

M. Sc. August, 1995–July, 1997

Department of Chemistry, Jadavpur University, Kolkata, West Bengal, India.

B. Sc. August, 1992–July, 1995

Department of Chemistry, Jadavpur University, Kolkata, West Bengal, India.

Awards and Recognition:

- Editorial Advisory Board Member: Joint Editorial Advisory Board Member of Macromolecules and ACS Macro Letters (American Chemical Society Publications), January 2017 to Present.
- Outstanding Reviewers for Polymer Chemistry in 2016, Published by Royal Society of Chemistry, Impact Factor: 5.687.
- Editorial Board Member: Austin Biomolecules, Published by Austin Publishing Group, June 2016 - Present
- Editorial Advisory Board Member: Polymer Chemistry, Published by Royal Society of Chemistry, September 2015 - Present
- Reviewer for International Journals: (1) Langmuir; (2) Polymer; (3) Polymer Bulletin; (4) Chemistry of Materials; (5) Colloid and Polymer Science; (6) J. Macromol. Sci, Pure Appl. Chem.; (7) J. Polym. Sci., Part A: Polym. Chem.; (8) Polymer International; (9) Journal of Chemical Sciences; (10) International Journal of Polymer Science; (11) Journal of Materials Chemistry; (12) Biomacromolecules; (13) Analytical Chemistry; (14) Polymer Chemistry; (15) Chemical Communications; (16) International Journal of Biological Macromolecules; (17) Journal of Applied Polymer Science; (18) Journal of Thermal Analysis and Calorimetry; (19) Journal of Chemical &

Engineering Data; (20) Journal of Chemical & Engineering Data; (21) Carbohydrate Polymers; (22) Journal of Biomedical Materials Research: Part A; etc.

- Member of the American Chemical Society
- Member, The Society for Polymer Science, India
- Visiting Scientist at University of Massachusetts Lowell, USA, May-July, 2017
- Visiting Scientist at University of Massachusetts Lowell, USA, May-July, 2014
- Visiting Scientist at University of Massachusetts Lowell, USA, May-July, 2012
- Visiting Scientist at Université Pierre et Marie Curie, Paris, France, 2002
- Vasudevamurthy-Sundararajan Prize (1999) at Indian Institute of Science, India

Experience and Research Skills:

December, 2013-present: Indian Institute of Science Education & Research (IISER) Kolkata, India

- (1) Teaching (a) Physical Chemistry Laboratory, (b) Advanced Physical Chemistry Practical and (c) Polymer Chemistry courses.
- (2) There are several PhD (eight), BS-MS (four), Integrated PhD (three) and project (two) students are doing research in the area of general polymer chemistry to prepare macromolecular architectures for drug and gene delivery, etc.

November, 2009–November, 2013: IISER Kolkata, India

- (1) Teaching (a) Physical and Theoretical Chemistry Laboratory, (b) General Chemistry Practical and (c) Polymer Chemistry courses.
- (2) Several PhD, BS-MS, project, summer interns were trained to synthesize vinyl monomers, and polymerization of those monomers and other commercially available monomers to prepare polymers with targeted molecular weights for various types of applications.

September, 2008–October, 2009: PhaseRx Pharmaceuticals, Seattle, WA, USA

- (1) Synthesis of unique water-soluble homo-polymers and block copolymers having target specific ligands (i. e., Galactose ligands for liver targeting, folate ligands for tumor cell, ligands with specific activity towards kidney and other tissue, etc.) for medicinal applications.
- (2) Synthesis of novel water-soluble polymers by RAFT technique and labeling with fluorescent probe for pharmacokinetic and biodistribution studies in the drug delivery applications.
- (3) Synthesis of polymer-siRNA bioconjugates for pharmaceutical applications.

January, 2007–August, 2008: Post-Doctoral Fellow, Southern Methodist Univ., Dallas, TX, USA

- (1) Functionalization of polymers with biomolecules such as folic acid via “click” chemistry
- (2) Protein-polymer bioconjugates by *grafting to* via “click” chemistry and *grafting from* via RAFT polymerization
- (3) Synthesis of boronic acid polymers and block copolymers by RAFT polymerization for controlled delivery of insulin
- (4) Synthesis of novel stimuli-responsive, water-soluble block copolymers by RAFT polymerization; Synthesis of molecular bottle-brushes via ATRP and RAFT polymerization

March, 2002–December, 2006: Post-Doctoral Fellow, UMASS Lowell, Lowell, MA, USA

- (1) Worked on a collaborative project between UMASS Lowell and Infineum USA LP., involving the study of cationic polymerization mechanisms of mixed C4 feeds, expected to yield better reactor control and higher quality products (motor oil dispersants).
- (2) Worked on a National Science Foundation (NSF, USA) sponsored project and developed the “living”/controlled carbocationic polymerization of isobutylene, styrene, and styrene-based monomers in various solvent systems using various Lewis acids and initiating systems.

- (3) Studied the synthesis and physical chemistry aspects of capping reactions (functional polymers) in the carbocationic polymerization of isobutylene and styrene-based monomers.
- (4) Studied synthesis and characterization of poly(styrene-*b*-isobutylene-*b*-styrene) triblock elastomers, which are currently employed as the polymer drug carrier for the TAXUS™ Express2™ Paclitaxel-Eluting Coronary Stent system (For Boston Scientific Corp., USA).
- (5) Studied kinetic and mechanistic studies of the carbocationic precipitation polymerization of isobutylene in polar solvents (Project sponsored by Exxon-Mobil Chemical Co., USA).
- (6) Studied the effect of ligand of Lewis acid on the cationic polymerization of isobutylene using TiCl₄/TiBr₄-mixed coinitiator (Project sponsored by Kaneka Corporation, Japan).

August, 1997–March, 2002: PhD in Polymer Chemistry, IISc, Bangalore, India

- (1) Studied physico-chemical properties of new (co)polyperoxide polymers, detailed kinetics of free-radical induced oxidative polymerization and copolymerization, characterization by various spectroscopic and thermal methods, and reactivity ratios studied by different methods.
- (2) Studied flexibility and chain dynamics of polyperoxide polymers by ¹³C-NMR spin-lattice relaxation measurements, and glass transition temperature measurements.
- (3) Studied thermal degradation of polyperoxides, copolyperoxides and blends of polystyrene/poly(styrene peroxides) both in solution and in the solid state.

September, 1996–June, 1997: M. Sc. Research, Jadavpur University, Kolkata, India

Studied "Solvent and Electrode Kinetic Effects on the Cathodic Reduction of 3I₂ + 2e⁻ → 2I₃⁻ in Some Pure and Mixed Dipolar Aprotic Solvents" for Master's Degree Thesis.

Personal: Male; Married; Nationality: Indian; *Date of Birth:* 10 July 1974

PUBLICATIONS

Patents/Patent Disclosure Applications:

1. Faust, R.; **De, P.** Capping reactions in cationic polymerization; kinetic and synthetic utility. US Patent. WO 2006110647, **2006**.
2. Johnson, P.; Stayton, P. S.; Hoffman, A. S.; Convertine, A. J.; Overell, R.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Micelles for intracellular delivery of therapeutic agents. US Patent. WO 2009140432, **2009**.
3. Johnson, P.; Stayton, P. S.; Hoffman, A. S.; Convertine, A. J.; Duvall, C. L.; Benoit, D.; Overell, R.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Micellar assemblies comprising a plurality of copolymers. US Patent. WO 2009140429, **2009**.
4. Johnson, P.; Stayton, P. S.; Hoffman, A. S.; Convertine, A. J.; Duvall, C. L.; Benoit, D.; Lee, C. C.; Overell, R.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Targeted polymer bioconjugates and therapeutic uses thereof. US Patent. WO 2009140423, **2009**.
5. Stayton, P. S.; Hoffman, A. S.; Convertine, A. J.; Duvall, C. L.; Benoit, D.; Overell, R.; Johnson, P.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Polymeric carrier for the delivery of polynucleotides into a living cell. US Patent. WO 2009140421, **2009**.
6. Johnson, P.; Stayton, P. S.; Hoffman, A. S.; Overell, R.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Heterogeneous polymeric micelles and conjugates for intracellular delivery. US Patent. WO 2010021770, **2010**.
7. Prieve, M. G.; Johnson, P. H.; Stayton, P. S.; Hoffman, A. S.; Overell, R. W.; Gall, A. S.; Paschal, A. E. E.; Diab, C.; **De, P.**; Declue, M. S.; Monahan, S. D. Multiblock copolymers associated with polynucleotides for pharmaceutical compositions. US Patent. WO 2010054266, **2010**.

8. Johnson, P. H.; Stayton, P. S.; Hoffman, A. S.; Overell, R.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Micelles of hydrophilically shielded membrane-destabilizing copolymers. US Patent. WO 2010053597, **2010**.
9. Monahan, S. D.; Johnson, P. H.; Diab, C.; **De, P.**; Stayton, P. S.; Hoffman, A. S. Hydrophobic block conjugated therapeutic agents. US Patent. WO 2011060281, **2011**.
10. Monahan, S. D.; Johnson, P. H.; Declue, M. S.; **De, P.**; Gall, A.; Stayton, P. S.; Hoffman, A. S. Targeting monomers and polymers having targeting blocks. US Patent. WO 2011062965, **2011**.
11. Johnson, P. H.; Stayton, P. S.; Hoffman, A. S.; Overell, R.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Micelles of hydrophilically shielded membrane-destabilizing copolymers. US Patent. US 20110281934, **2011**.
12. Prieve, M. G.; Johnson, P. H.; Stayton, P. S.; Hoffman, A. S.; Overell, R. W.; Gall, A. S.; Paschal, A. E. E.; Diab, C.; **De, P.**; Declue, M. S.; et al Multiblock copolymers. US Patent. US 20110286957, **2011**.
13. Stayton, P. S.; Hoffman, A. S.; Convertine, A.; Duvall, C. L.; Benoit, D.; Overell, R. W.; Johnson, P. H.; Gall, A. S.; Prieve, M. G.; Paschal, A. E. E.; Diab, C.; De, P. Micellar assemblies. US Patent. US 20110123636, **2011**.
14. Johnson, P. H.; Stayton, P. S.; Hoffman, A. S.; Overell, R.; Gall, A.; Prieve, M.; Paschal, A.; Diab, C.; **De, P.** Heterogeneous polymeric micelles for intracellular delivery. US Patent. US 20120021514, **2012**.
15. Monahan, S. D.; Johnson, P. H.; Diab, C.; **De, P.**; Stayton, P. S.; Hoffman, A. S. Hydrophobic block conjugated therapeutic agents. US Patent. US 20130017167, **2013**.

Book Chapters:

1. **De, P.**; Faust, R. *Carbocationic Polymerization* In Macromolecular Engineering; Matyjaszewski, K.; Gnanou, Y.; Leibler, L. Eds.; Wiley-VCH, Weinheim, Germany, Vol. 1, Pages 57-101, **2007**.
2. **De, P.**; Faust, R. *Carbocationic Polymerization* In Synthesis of Polymers; Schluter, A. D.; Hawker, C. J.; Sakamoto, J. Eds.; Wiley-VCH, Weinheim, Germany, Vol. 2, Pages 775-817, **2012**.
3. **De, P.**; Faust, R. "Cationic Initiators" in Kirk-Othmer Encyclopedia of Chemical Technology, John Wiley & Sons, Inc. **2015**, 1-14.
4. Maiti, B.; Ruidas, B.; Roy, S. G.; **De, P.** "RAFT Polymerization of Side-Chain L-Proline Containing Methacrylate Monomer: Controlled Synthesis, Thermoresponsiveness and Self-Assembly" in Nanospectrum: A Current Scenario, Edited by S. Chakrabarti, P. Mukherjee, G. Khan, A. Adhikary, P. Patra, J. Bal. Allied Publishers Pvt. Ltd., **2015**, pp. 41-48.
5. Roy, S. G.; Banerjee, S.; **De, P.** "Cationic Polymerization of Nonpolar Vinyl Monomers for Producing High Performance Polymers" In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; **2016**. pp. 1-17.
6. Banerjee, S.; Jha, B. N.; Kumar, R.; Maiti, B.; Haldar, U.; **De, P.** "Synthesis of Chain End Functional Polymers by Living Cationic Polymerization Method" in Functional Polymers: Design, Synthesis and Applications, Edited by Shanmugam, R. Apple Academic Press, **2017**, pp. 127-147.
7. Roy, S. G.; **De, P.** *Polymers Prepared via Reversible-Deactivation Radical Polymerization (RDRP) for Biomedical Applications* In Functional polymers by Reversible Deactivation Radical Polymerization: Synthesis and Applications, Edited by Singha, N. K.; Mays, J. W. Smithers Rapra, UK, **2017**, pp. 269-320.

Journal Publications:

2018

139. Goswami, K. G.; Saha, B.; Mete, S.; De, P. "Alternating Placement of D- and L-Alanine Moieties in the Polymer Side-Chains" *Macromolecular Chemistry and Physics* **2018**, *In Press*.
138. Mete, S.; Mukherjee, P.; Maiti, B.; Pal, S.; Ghorai, P. K.; De, P.* "Degradable Crystalline Polyperoxides from Fatty Acid Containing Styrenic Monomers" *Macromolecules* **2018**, *In Press*.

137. Mete, S.; Choudhury, N.; De, P. "Degradable Alternating Polyperoxides from Poly(ethylene glycol) Substituted Styrenic Monomers with Water Solubility and Thermoresponsiveness" *J. Polym. Sci. Part A: Polym. Chem.* **2018**, *56*, 2030-2038.
136. Chakraborty, I.; Mukherjee, K.; De, P.; Bhattacharyya, R.* "NMR solvent relaxation across coil to globule transition of thermo-responsive polymers" *J. Phys. Chem. B* **2018**, *122*, 6094-6100.
135. Mukherjee, I.; Sinha, S. K.; Datta, S.*; De, P.* "Recyclable Thermoresponsive Polymer- β -Glucosidase Conjugate with Intact Hydrolysis Activity" *Biomacromolecules*, **2018**, *19*, 2286-2293.
134. Bauri, K.; Nandi, M.; De, P.* "Amino acid-derived stimuli-responsive polymers and their applications" *Polymer Chemistry* **2018**, *9*, 1257-1287.
133. Choudhury, N.; Mete, S.; Srikanth, K.; De, P.* "Side-Chain Glycylglycine-Based Polymer for Simultaneous Sensing and Removal of Copper(II) from Aqueous Medium" *J. Polym. Sci. Part A: Polym. Chem.* **2018**, *56*, 914-921.
132. Mukherjee, I.; Ghosh, A.; Bhadury, P.*; De, P.* "Leucine Based Polymer Architecture Induced Antimicrobial Properties and Bacterial Cell Morphology Switching" *ACS Omega*, **2018**, *3*, 769-780.
131. Taya, P.; Maiti, B.; Ahawalat, V.; De, P.; Satapathi, S.* "Design of a novel FRET based fluorescent chemosensor and their application for highly sensitive detection of nitroaromatics", *Sensors & Actuators: B. Chemical* **2018**, *255*, 2628-2634.

2017

130. Bauri, K.; Saha, B.; Mahanti, J.; De, P. "An Unorthodox Macromolecular Luminogen for Speedy, Selective and Sensitive Detection of Picric Acid in Water" *Polymer Chemistry* **2017**, *8*, 7180-7187.
129. Rajasekhar, T.; Haldar, U.; De, P.; Emert, J.; Faust, R. "Cationic Co- and Multi-component Polymerization of Isobutylene with C4 Olefins" *Macromolecules* **2017**, *50*, 8325-8333.
128. Nandi, M.; Maiti, B.; Srikanth, S.; De, P. "Supramolecular Interaction Assisted Fluorescence and Tunable Stimuli-Responsiveness of L-Phenylalanine Based Polymers" *Langmuir* **2017**, *33*, 10588-10597.
127. Maiti, B.; Haldar, U.; Rajasekhar, T.; De, P. "Functional polymer library through post-polymerization modification of copolymers having oleate and pentafluorophenyl pendants" *Chemistry - A European Journal*, **2017**, *23*, 15156-15165.
126. Chakraborty, I.; Mukherjee, I.; Haldar, U. De, P.; Bhattacharyya, R.* "Monitoring aggregation of a pH-responsive polymer via proton exchange" *Physical Chemistry Chemical Physics* **2017**, *19*, 17360-17365.
125. Haldar, U.; Sayala, K. D.; Ramakrishnan, L.; Sivaprakasam, K.; De, P. "Interfacial polycondensation-derived side-chain poly(ethylene glycol)-containing water-soluble polysulfide weak-link polymers as stabilizer for gold nanoparticles" *Reactive & Functional Polymers* **2017**, *115*, 10-17.
124. Mukherjee, I.; Ghosh, A.; Bhadury, P.; De, P. "Side-Chain Amino Acid Based Cationic Antibacterial Polymers: Investigating the Morphological Switching of Polymer Treated Bacterial Cell" *ACS Omega*, **2017**, *2*, 1633-1644.
123. Sao, S.; Mukherjee, I.; De, P. Chaudhuri, D. "Encapsulation induced aggregation – A self-assembly strategy for weakly pi-stacking chromophores" *Chem. Commun.* **2017**, *53*, 3994-3997.
122. Maiti, B.; Dutta, P.; Seal, S.; Pal, S.; De, P.; Maiti, S. "Side-Chain Amino Acid Based Cationic Polymer Induced Actin Polymerization" *Journal of Materials Chemistry B* **2017**, *5*, 1218-1226.
121. Datta, L. P.; Chatterjee, A.; Acharya, K.; De, P.; Das, M.; "Cytotoxicity and Apoptotic Effect of Enzyme Responsive Adenosine Triphosphate Coated Silver Nanoparticles on Human Liver Carcinoma Cells" *New Journal of Chemistry* **2017**, *41*, 1538-1548.
120. Maiti, B.; Bauri, K.; Nandi, M.; De, P. "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.

2016

119. Bauri, K.; Maiti, B.; De, P. "Leucine-Based Block Copolymer Nano-Objects via Polymerization-Induced Self-Assembly (PISA)" *Macromolecular Symposia*, **2016**, *369*, 101-107.
118. Saha, B.; Bauri, K.; Bag, A.; Ghorai, P. K.; De, P. "Conventional Fluorophore-free Dual pH- and Thermo- Responsive Luminescent Alternating Copolymer" *Polymer Chemistry* **2016**, *7*, 6895-6900.

117. Haldar, U.; Pan, A.; Mukherjee, I.; De, P. "POSS Semitelechelic $A\beta_{17-19}$ Peptide Initiated Helical Polypeptides and Their Structural Diversity in Aqueous Medium" *Polymer Chemistry* **2016**, *7*, 6231-6240.
116. Haldar, U.; Saha, B.; Azmeera, V.; De, P. "POSS End-Linked Peptide Functionalized Poly(ϵ -Caprolactone)s and Their Inclusion Complexes with α -Cyclodextrin" *J. Polym. Sci. Part A: Polym. Chem.* **2016**, *54*, 3643-3651.
115. Rumyantsev, A.; Pan, A.; Roy, S. G.; De, P.; Kramarenko, E. "Polyelectrolyte Gel Swelling and Conductivity vs Counterion Type, Cross-Linking Density and Solvent Polarity" *Macromolecules* **2016**, *49*, 6630-6643.
114. Bauri, K.; Pan, A.; Haldar, U.; Narayanan, A. De, P. "Exploring Amino Acid-Tethered Polymethacrylates as CO₂-Sensitive Macromolecules: A Concealed Property" *J. Polym. Sci. Part A: Polym. Chem.*, **2016**, *54*, 2794-2803.
113. Saha, B.; Haldar, U.; De, P. "Polymer-chlorambucil drug conjugates: A dynamic platform of anticancer drug delivery" *Macromolecular Rapid Communications*, **2016**, *37*, 1015-1020.
112. Haldar, U.; Roy, S. G.; De, P. "POSS tethered hybrid "inimer" derived hyperbranched and star-shaped polymers via SCVP-RAFT technique" *Polymer* **2016**, *97*, 113-121.
111. Maiti, B.; Maiti, S.; De, P. "Self-assembly of well-defined fatty acid based amphiphilic thermoresponsive random copolymers" *RSC Advances* **2016**, *6*, 19322-19330.
110. Bauri, K.; Roy, S. G.; De, P. "Side-Chain Amino Acid Derived Cationic Chiral Polymers by Controlled Radical Polymerization" *Macromolecular Chemistry and Physics* **2016**, *217*, 365-379. Invited Talent Article.
109. Roy, S. G.; Kumar, A.; De, P. "Amino Acid Containing Cross-Linked Co-Polymer Gels: pH, Thermo and Salt Responsiveness" *Polymer* **2016**, *85*, 1-9.
108. Jena, S. S.; Roy, S. G.; Azmeera, V.; De, P. "Solvent-Dependent Self-Assembly Behaviour of Block Copolymers Having Side-Chain Amino Acid and Fatty Acid Block Segments" *Reactive & Functional Polymers*, **2016**, *99*, 26-34.

2015

107. Datta, L. P.; Maiti, B.; De, P. "Synthetic Polymeric Variant of S-Adenosyl Methionine Synthetase" *Polymer Chemistry* **2015**, *6*, 7796-7800.
106. Bauri, K.; Sayala, K. D.; Roy, R. S.; De, P. "Chiral copoly(methacrylate)s carrying amino acid pendants in the side-chains" *European Polymer Journal* **2015**, *73*, 237-246.
105. Kumar, S.*; Bheemireddy, V.; De, P. " $A\beta_{17-20}$ Peptide-Guided Structuring of Polymeric Conjugates and Their pH-Triggered Dynamic Response" *Macromolecular Bioscience* **2015**, *15*, 1447-1456.
104. Kumar, S.; Maiti, B.; De, P. "Carbohydrate Conjugated Amino Acid Based Fluorescent Block Copolymers: Their Self-Assembly, pH Responsiveness and/or Lectin Recognition" *Langmuir* **2015**, *31*, 9422-9431.
103. Banerjee, S.; Jha, B. N.; De, P.; Emert, J.; Faust, R.* "Kinetic and Mechanistic Studies of the Polymerization of Isobutylene Catalyzed by EtAlCl₂/Bis(2-chloroethyl) Ether Complex in Hexanes" *Macromolecules*, **2015**, *48*, 5474-5480.
102. Bauri, K.; Narayanan, A.; Haldar, U.; De, P. "Polymerization-Induced Self-Assembly Driving Chiral Nanostructured Materials" *Polymer Chemistry* **2015**, *6*, 6152-6162.
101. Narayanan, A.; Chandel, S.; Ghosh, N.*; De, P.* "Visualizing Phase Transition Behavior of Dilute Stimuli Responsive Polymer Solutions via Mueller Matrix Polarimetry" *Analytical Chemistry* **2015**, *87*, 9120-9125.
100. Haldar, U.; Nandi, M.; Maiti, B.; De, P. "POSS Induced Enhancement of Mechanical Strength in the RAFT Made Thermoresponsive Hydrogels" *Polymer Chemistry* **2015**, *6*, 5077-5085.
99. Maiti, B.; Ruidas, B.; De, P. "Dynamic covalent cross-linked polymer gels through the reaction between side chain β -keto ester and primary amine groups" *Reactive & Functional Polymers* **2015**, *93*, 148-155.
98. Narayanan, A.; Maiti, B.; De, P. "Exploring the post-polymerization modification of side-chain amino acid containing polymers via Michael addition reactions" *Reactive & Functional Polymers* **2015**, *91-92*, 35-42.
97. Haldar, U.; Bauri, K.; Li, R.; Faust, R.; De, P. "Polyisobutylene Based pH-responsive Smart Self-Healing Polymeric Gels" *ACS Applied Materials & Interfaces* **2015**, *7*, 8779-8788.

96. Haldar, U.; Nandi, M.; Ruidas, B.; **De, P.**; “Controlled Synthesis of Amino-Acid Based Tadpole-Shaped Organic/Inorganic Hybrid Polymers and Their Self-Assembly in Aqueous Media” *European Polymer Journal* **2015**, *67*, 274-283.
95. Bauri, K.; Li, R.; Faust, R.; De, P. “Synthesis and Self-assembly of Polyisobutylene Based Thermoresponsive Diblock copolymers *via* combination of Cationic and RAFT Polymerizations” *Macromolecular Symposia*, **2015**, *349*, 65-73.
94. Haldar, U.; Bauri, K.; Li, R.; Faust, R. **De, P.** “Polyisobutylene Containing Organic/Inorganic Hybrid Block Copolymers and Their Crystalline Behavior” *J. Polym. Sci. Part A: Polym. Chem.* **2015**, *53*, 1125-1133.
93. Vaish, A.; Roy, S. G.; **De, P.** “Synthesis of Amino Acid Based Covalently Cross-Linked Polymeric Gels Using Tetrakis(hydroxymethyl) Phosphonium Chloride as a Cross-Linker” *Polymer* **2015**, *58*, 1-8.
92. Pal, S.; Vaish, A.; **De, P.** “The Effect of Different Catalysts on the Monomer Reactivity Ratios in Oxidative Copolymerization of Styrene and α -Methylstyrene” *Polymer International* **2015**, *64*, 541-546.
91. Kumar, R.; De, P.; Zheng, B.; Huang, K.-W.; Emert, J.; Faust, R. “Synthesis of Highly Reactive Polyisobutylene by FeCl₃/Ether Complexes in Hexanes; Kinetic and Mechanistic Studies” *Polymer Chemistry* **2015**, *6*, 322-329.

2014

90. Narayanan, A.; Bauri, K.; Ruidas, B.; Pradhan, G.; Banerjee, S.; **De, P.** “Specific Counterion Repercussion on the Thermal, pH-response and Electrochemical Properties of the Side-Chain Leucine Based Chiral Polyelectrolytes” *Langmuir* **2014**, *30*, 13430-13437.
89. Sahasrabudhe, A.; Pant, S.; Chatti, M.; Maiti, B.; De, P.; Roy, S. One Step, Microwave Assisted Green Synthesis of Biocompatible Carbon Quantum Dots and Their Composites with [α -PW₁₂O₄₀³⁻] for Visible Light Photocatalysis. *AIP Conf. Proc.* **2014**, *1951*, 353-355.
88. Maiti, B.; Kumar, S.; **De, P.** “Controlled RAFT Synthesis of Side-Chain Oleic Acid Containing Polymers and Their Post-Polymerization Functionalization” *RSC Adv.*, **2014**, *4*, 56415–56423.
87. Haldar, U.; Ramakrishnan, L.; Sivaprakasam, K.; **De, P.** “Main-chain sulphur containing water soluble poly(*N*-isopropylacrylamide-*co*-*N,N'*-dimethylacrylamide sulphide) copolymers *via* interfacial polycondensation” *Polymer* **2014**, *55*, 5656-5664.
86. Roy, S. G.; **De, P.** “Swelling properties of amino acid containing cross-linked polymeric organogels and their respective polyelectrolytic hydrogels with pH and salt responsive property” *Polymer* **2014**, *55*, 5425-5434.
85. Roy, S. G.; **De, P.** “Facile RAFT synthesis of side-chain amino acid containing pH responsive hyperbranched and star architectures” *Polymer Chemistry* **2014**, *5*, 6365-6378.
84. Kumar, S.; Acharya, R.; Chatterji, U.; De, P. “Controlled synthesis of β -sheet polymers based on side-chain amyloidogenic short peptide segments *via* RAFT polymerization” *Polymer Chemistry* **2014**, *5*, 6039-6050.
83. Roy, S. G.; **De, P.** “pH Responsive Polymers with Amino Acids in the Side Chains and Their Potential Applications” *J. Apply. Polym. Sci.* **2014**, *131*, 41084(1-12).
82. Kedia, N.; Roy, S. G.; De, P.; Bagchi, S. “Synthesis of a Polymer Bearing Several Coumarin Dyes Along the Side-Chain and Study of its Fluorescence in Pure and Binary Solvent Mixtures as well as Aqueous Surfactant Solutions” *J. Phys. Chem. B* **2014**, *118*, 4683-4692.
81. Roy, S. G.; Haldar, U.; **De, P.** “Remarkable Swelling Capability of Amino Acid Based Cross-Linked Polymer Networks in Organic and Aqueous Medium” *ACS Appl. Mater. Interfaces* **2014**, *6*, 4233-4241.
80. Roy, S. G.; Bauri, K.; Pal, S.; **De, P.** “Tryptophan containing covalently cross-linked polymeric gels with fluorescence and pH-induced reversible sol-gel transition properties” *Polymer Chemistry* **2014**, *5*, 3624-3633.
79. Pal, S.; Dhawan, A.; **De, P.** “Ortho- and meta-substituted polystyrene polyperoxides: synthesis, characterization and thermal decomposition studies” *Polymer International* **2014**, *63*, 746-751.
78. Kumar, S.; **De, P.** “Fluorescent labelled dual-stimuli (pH/thermo) responsive self-assembled side-chain amino acid based polymers” *Polymer* **2014**, *55*, 824-832.
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Selected Seminars and Contributions to Meetings:

56. 56. January 9, 2018. Presentation at ASP-17 during January 8-11, 2018, IIT Guwahati. Title of Presentation: Amino Acid/Peptide Containing Alternating Copolymers.

55. November 21, 2017. Presentation at TCG Lifesciences Chembiotek at Salt Lake, Kolkata, India. Title of Presentation: Sequence Controlled Polymers.
54. September 19, 2017. International Symposium on Ionic Polymerization (IP 2017), 17th-22nd September, 2017 at Durham University, England. Title of Presentation: Design, Synthesis, Characterization and Applications of Side-Chain Amino Acid Based Synthetic Polymers.
53. May 17, 2017. Invited lecture at Infineum USA, Linden, New Jersey, USA. Title of Presentation: Sequence controlled Polymers.
52. April 20, 2017. ‘Smart Materials: Methods and Applications (SMMA-2017)’ during 20-22 April 2017 at IISER Kolkata. Title of Presentation: Sequence controlled Polymers.
51. January 11, 2017. Macro 2017 Advances in Polymer Science and New Generation Technologies, January 08-11, 2017 at Thiruvananthapuram. Title of Presentation: Side Chain Amino Acid/Peptide Containing Synthetic Macromolecular Architectures.
50. January 05, 2017. Discussion Meeting on Supramolecular and Polymer Assembly, January 05, 2017 at IACS Kolkata. Title of Presentation: Alanine Containing Synthetic Polymers for Actin Dynamics.
49. December 19, 2016. Ishan Vikas Programme Winter 2016, December 7-22, 2016 at IISER Kolkata. Title of Presentation: Polymers and Plastics in Everyday Life.
48. December 13, 2016. International Conference on Functional Materials, December 12-14, 2016 at Indian Institute of Technology Kharagpur. Title of Presentation: Design, Synthesis and Properties of Side Chain Amino Acid/Peptide Containing Macromolecular Architectures.
47. January 30, 2016. IUPAC sponsored International Conference on “Polymer –Solvent Complexes and Intercalates, POLYSOLVAT-11” at Indian Association for the Cultivation of Science, Jadavpur. Title of Presentation: Polyisobutylene Based pH-Responsive Self-Healing Polymeric Gels.
46. December 10, 2015. Moscow State University. Title of Presentation: Polyisobutylene Based pH-Responsive Self-Healing Gels.
45. July 08, 2015. IUPAC International Symposium on Ionic Polymerization, Bordeaux, France. Title of Presentation: Polyisobutylene Based pH-Responsive Self-Healing Gels.
44. June 28, 2015. 13th International Conference of Polymers for Advanced Technologies (PAT 2015), Hangzhou (China). Title of Presentation: Polyisobutylene Based pH-Responsive Self-Healing Polymeric Gels.
43. Department Day Talk on December 07, 2014, Mohanpur, IISER Kolkata. Title of Talk: Macromolecular Engineering for Nano-Architectures.
42. Invited lecture in the national conference on Nanoscience and Nanotechnology on September 19, 2014, Kolkata. Title of Talk: Well-Defined Nanostructured Polymeric Materials for Drug Delivery Applications.
41. Invited presentation at University of Florida, Gainesville, USA on July 10, 2014. Title of Talk: Design, Synthesis and Applications of Polymeric Architectures with Amino Acids in the Side-Chain.
40. RAPT 2014, Kolkata on January 24, 2014. Title of Talk: Helical Block Copolymers by Combination of Living Cationic and RAFT Polymerizations.
39. Indo-US Workshop on December 15, 2013 at Trivandrum. Title of Talk: Helical Block Copolymers with Polyisobutylene and Side-Chain Amino Acid Segments by Combination of Living Cationic and RAFT Polymerizations.
38. National Seminar on Recent developments in research in Chemistry. West Bengal State University, Barasat. November 23, 2013. Title of Talk: Helical Block Copolymers with Polyisobutylene and Side-Chain Amino Acid Segments by Combination of Living Polymerization Techniques.
37. IUPAC International Symposium on Ionic Polymerization 2013, Japan. Polyisobutylene Based Helical Block Copolymers by Combination of Living Cationic and RAFT Polymerizations.
36. Macro 2013 Conference, Bangalore. Title of Talk: Side Chain Amino Acid/Peptide Containing Stimuli Responsive ‘Smart’ Polymers.
35. Indo-German Workshop, University of Delhi, January 14, 2013. Title of Talk Controlled Synthesis of Chiral Cationic Polymers with Amino Acid Side Chains via RAFT Polymerization.

34. Seminar at JIS College of Engineering, Kalyani, 2012. Title of Talk: Well-Defined Nanostructured Polymeric Materials for Drug Delivery Applications.
33. Symposium: Recent Trends in Chemical Science and Technology, IIT Patna, 2012. Title of Talk: Living/Controlled RAFT Made Cationic Chiral Polymers Containing Amino Acid Moieties as Pendants.
32. Seminar at University of Massachusetts Lowell, USA. July 13, 2012. Title of Talk: Living/Controlled RAFT Made Cationic Chiral Polymers Containing Amino Acid Moieties as Pendants
31. Seminar at Henkel Corporation, USA. July 24, 2012. Title of Talk: Living/Controlled Polymerization of Vinyl Monomers Using Cationic Polymerization and RAFT Techniques
30. Advances in Polymer Nanotechnology, University of Calcutta, January 21, 2012. Title of Talk: Synthesis of Chiral Cationic Polymers with Amino Acid Side Chains *via* Living/Controlled RAFT Polymerization.
29. Symposium on Polymer Science 2011, IISER-Kolkata, December 10, 2011.
28. Frontiers in Polymer Chemistry, IIT Kharagpur, November 29-30, 2011. Title of Talk: Cationic Chiral Polymers Containing Amino Acid Moieties as Pendants: Controlled Synthesis *via* RAFT Polymerization.
27. Frontiers in Synthetic and Bioorganic Chemistry at IISER-Kolkata on March, 2011
26. 1st In-House Symposium organized by Department of Chemical Sciences, IISER-Kolkata, Mohanpur, December 30-31, 2010.
25. IISc-DBT-UNSW-UQ Research Workshop, Bangalore. Title of Talk: Advanced Materials by Living/Controlled RAFT Polymerization Technique. 2011.
24. Macro-2010, 11th International Conference on Frontiers of Polymers and Advanced Materials, Delhi, December 15-17, 2010. Title of talk: Synthesis of "Smart" Polymer-Protein Bioconjugates *via* RAFT Polymerization
23. Colloquium on Perspectives in Polymer Science & Technology, on November 27, 2010 at Indian Association for the Cultivation of Science, Kolkata.
22. Sumerlin, B. S.; De, P.; Roy, D.; Cambre, J. N. *Smart Polymer Bioconjugates and 'Sweet Tooth' Micelles*. Zing Polymer Chemistry Conference. February 2009.
21. Sumerlin, B. S.; De, P.; Roy, D.; Cambre, J. N. *Materials of the Future-Science of Today*. IUPAC conference in Melbourne, Australia. February 2009.
20. De, P.; Li, M.; Roy, D.; Sumerlin, B. S. *Self-assembly of stimuli-responsive polymer-protein conjugates prepared by RAFT polymerization*. ACS National Meeting in Salt Lake City, UT, March 2009.
19. Sumerlin, B. S.; De, P.; Li, M.; Gondi, S. R. *Polymer-protein bioconjugates via grafting-from and grafting-to with RAFT-generated polymers*. ACS National Meeting in Philadelphia, PA, August 17-21, 2008.
18. Sumerlin, B. S.; De, P.; Gondi, S. R. *Responsive block copolymer micelles functionalized with biologically-relevant ligands*. ACS National Meeting in Philadelphia, PA, August 17-21, 2008.
17. De, P.; Gondi, S. R.; Sumerlin, B. S. *Folate conjugated responsive polymeric micelles: Synthesis by RAFT polymerization and click chemistry*. ACS National Meeting in New Orleans, LA, April 6-April 10, 2008.
16. De, P.; Li, M.; Gondi, S. R.; Sumerlin, B. S. *Polymer-protein bioconjugates via grafting-from by RAFT polymerization and azide-alkyne click chemistry*. ACS National Meeting in New Orleans, LA, April 6-April 10, 2008.
15. De, P.; Li, M.; Gondi, S. R.; Sumerlin, B. S. *Responsive polymer-protein bioconjugates by grafting-from via RAFT with the R-group approach*. ACS National Meeting in New Orleans, LA, April 6-April 10, 2008.
14. Li, M.; De, P.; Gondi, S. R.; Sumerlin, B. S. *Versatile end group modification strategy for RAFT-generated polymers*. ACS National Meeting in New Orleans, LA, April 6-April 10, 2008.

13. Li, M.; De, P.; Gondi, S. R.; Sumerlin, B. S. *Responsive polymer-protein bioconjugates prepared by RAFT polymerization and grafting-to via click chemistry*. ACS National Meeting in New Orleans, LA, April 6-April 10, 2008.
12. De, P. *Comparative study of the chain dynamics of polymers containing peroxy linkages in the backbone*. ACS National Meeting in Washington, DC, August 28-September 1, 2005.
11. De, P.; Faust, R. *Capping reactions in cationic polymerization; Kinetic and synthetic utility*. ACS National Meeting in Washington, DC, August 28-September 1, 2005.
10. De, P.; Faust, R. *Living cationic polymerization of p-methylstyrene using SnCl₄ in dichloromethane and determination of absolute rate constant of propagation*. ACS National Meeting in Washington, DC, August 28-September 1, 2005.
9. De, P.; Faust, R. *Living carbocationic polymerization of p-methoxystyrene using p-methoxystyrene hydrochloride/SnBr₄ initiating system*. ACS National Meeting in Philadelphia, PA, August 22-26, 2004.
8. De, P.; Faust, R. *Determination of the propagation rate constant in the cationic polymerization of p-chlorostyrene*. ACS National Meeting in Philadelphia, PA, August 22-26, 2004.
7. De, P.; Faust, R. *Cationic polymerization kinetics of styrene and styrene derivatives*. MACRO 2004 – 40th IUPAC World Polymer Congress, Paris, France.
6. De, P.; Munavalli, M. V.; Faust, R. *Determination of the propagation rate constants in the cationic polymerization of styrene*. IUPAC International Symposium on Ionic Polymerization, June 30-July 4, Boston, MA, 2003.
5. De, P.; Munavalli, M. V.; Faust, R. *On line visible spectroscopic study on the capping reaction of styrene cations with ditolylethylene*. ACS National Meeting in New York, NY, Sept. 7-11, 2003.
4. De, P.; Faust, R.; Schimmel, H.; Mayr, H.; Moreau, M.; Charleux, B.; Vairon, J –P. *Determination of the propagation rate constant in the carbocationic polymerization of 2,4,6-trimethylstyrene*. ACS National Meeting in New York, NY, September 7-11, 2003.
3. De, P.; Munavalli, M. V.; Faust, R. *Determination of the propagation rate constant in the carbocationic polymerization of styrene*. ACS National Meeting in New Orleans, Louisiana, 23–27 March 2003.
2. Two weeks intensive training on carbocationic polymerization at the Laboratoire de Chimie Macromoléculaire, Université Pierre et Marie Curie, T44 E1, 4 Place Jussieu, 75252 Paris, Ce0dex 05, France (2002). Presented a seminar: De, P *Determination of the propagation rate constant in the carbocationic polymerization*.
1. De, P.; Sathyanarayana, D. N. *Comparative study of the chain dynamics of polyperoxides of vinyl monomers*. "SIF-USERS' ONE-DAY SYMPOSIUM" held at Indian Institute of Science, Bangalore, India, May 5, 2000.

Teaching

❖ Courses Taught (2010-2013)

- CH222: Physical Chemistry Practical
- ID426: General Polymer Chemistry
- CH212: Chemistry Laboratory
- ID414: Introduction to Polymer Chemistry
- CH1202: Physical and Theoretical Chemistry Practical
- ID4103: Chemistry of Macromolecules
- 2014:** Spring Semester: Physical Chemistry Lab, CH-1202
Autumn Semester: CH3104: Chemistry of Macromolecules and ID4107: Polymer Chemistry
CH3105: Advanced Physical Chemistry Laboratory
- 2015:** Spring Semester: Physical Chemistry Lab, CH-1202
Autumn Semester: CH3104: Chemistry of Macromolecules and ID4107: Polymer Chemistry
CH3105: Advanced Physical Chemistry Laboratory
- 2016:** Spring Semester: Physical Chemistry Lab, CH-1202

- Autumn Semester: CH3105: Advanced Physical Chemistry Laboratory
2017: Spring Semester: Physical Chemistry Lab, CH-1202
 Polymer Chemistry, ID-4210
 Autumn Semester: CH3105: Advanced Physical Chemistry Laboratory
2018: Spring Semester: Physical Chemistry Lab, CH-1202
 Polymer Chemistry, ID-4210
 Autumn Semester: CH3105: Advanced Physical Chemistry Laboratory

Dissertation, & Research-Scholar Advising

❖ ***Ph.D. Advising***

Sunirmal Pal (May, 2010 – October, 2013)
 Saswati Ghosh Roy (February, 2010 – November, 2014)
 Sonu Kumar (May, 2011 – November, 2015)
 Kamal Bauri (January, 2011 - May, 2016)
 Ujjal Haldar (August, 2012 – October, 2016)
 Binoy Maiti (October, 2012 - August, 2017)
 Abhishek Pan (August, 2014 - present)
 Biswajit Saha (November, 2014-present)
 Ishita Mukherjee (November, 2014-present)
 Sourav Mete (August, 2015 – present)
 Neha Choudhury (January, 2016 - present)
 Krishna Gopal Goswami (January, 2016 - present)
 Swagata Mandal (February, 2018-Present)
 Subhasish Sahoo (February, 2018-Present)

❖ ***Post-Doc Advising***

Dr. Chandra Sekhar Reddy L. (September, 2013-January, 2014)
 Dr. Badri Nath Jha (September, 2014-July, 2015)
 Dr. Venkanna Azmeera (December, 2014-March, 2016)
 Dr. Saswati Ghosh Roy (December, 2015 – April, 2016)
 Dr. Kamal Bauri (March, 2017-July, 2017)
 Dr. Rita Das Mahapatra (October, 2017-April, 2018)
 Dr. Sipra Ghosh (April, 2017-Present)
 Dr. Pintu Sar (September, 2017-Present)
 Dr. Saswati Ghosh Roy (October, 2018 – Present)

❖ ***Integrated Ph.D. Advising***

Mridula Nandi (January, 2014 - Present)
 Soham Banerjee (January, 2017 - Present)

❖ ***Project Student Advising***

Bhuban Ruidas (December, 2012-March, 2015)
 Lakshmipriya Datta (September, 2013-March, 2016)
 Raju Biswas (April, 2016- June, 2016)
 Arijit Rauth (June, 2016- November, 2016)
 Kaustuv Mukherjee (November, 2016-November, 2017)
 Dr. Arijit Bag (January, 2017-August, 2017)
 Chandan Dey (March, 2015-Present)

❖ ***Undergraduate Advising***

Manish Roshan Aind (July, 2010-May, 2011)
 Nagaraj Patil (May, 2011 – April, 2012)
 Khusnud Shahidi (May, 2012 – April, 2013)
 Md Ezaz Hasan Khan (May, 2012 – June, 2013)
 Avichal Vaish (May, 2013 - April, 2014)

Anupam Kumar (May, 2013 - April, 2014)
 Balaraju Banoth (May, 2013 - April, 2014)
 Malay Kumar Singh (May, 2014 - April, 2015)
 Sudhansu Sekhar Jena (May, 2014 - April, 2015)
 Amal Narayanan (May, 2014 - April, 2015)
 Mridula Nandi (May, 2014 – April, 2015)
 Akhil P (June, 2015 – April, 2016)
 Kapil Dev Sayala (May, 2016 – April, 2017)
 Jnansankar Mahanti (May, 2017-November, 2017)
 Abhi Bhadrans (August, 2016 - May, 2018)
 Ritwik Barman (January, 2016 - April, 2018)
 Abhishek Kumar (August, 2017 - April, 2018)
 Soham Banerjee (August, 2017 - April, 2018)

❖ **Short Term Advising**

Simran Arora, IISER-Bhopal (May 13, 2011-July 13, 2011)
 G. Rahithya, JNTU-Hyderabad (May 16, 2011-July 16, 2011)
 Banoth Balaraju, IISER-Kolkata (May 10, 2011-July 10, 2011)
 Rajib Kumar Dey, NIT Rourkela (May 16, 2011-July 16, 2011)
 Saloni Gautam, IIT Guwahati (May 28, 2011-July 28, 2011)
 Shaivya Vashishtha, IIT Delhi (May 27, 2011-July 27, 2011)
 Goutam Pradhan, Ramakrishna Mission Vidyamandira Belur Math, February-June, 2013
 Payel Halder, NIT Durgapur, 2 Months during 2013 summer
 Imon Mandal, Presidency College, 2 Months during 2013 summer
 Bhumika Chaudhary, Delhi University, 2 Months during 2013 summer
 Bodhisattya Bhattacharya, IIT KGP, 2 Months during 2013 summer
 Tathagata Srimani, IIT KGP, 2 Months during 2013 summer
 Sudhansu Sekhar Jena, IISER-Kolkata, 2 Months during 2013 summer
 Pritam Dey, Ramakrishna Mission Vidyamandira Belur Math, February-April, 2014
 Suman Basak, Ramakrishna Mission Vidyamandira Belur Math, February-April, 2014
 Mahadeb Maity, West Bengal State University, April-May, 2014
 Preyasi De (September, 2013 – July, 2014)
 Arnab Chatterjee, Ramakrishna Mission Vidyamandira Belur Math, February-April, 2015
 Sandipan Saha, Ramakrishna Mission Vidyamandira Belur Math, February-April, 2015
 Kushanava Bhaduri, Indian School of Mines, 3 Months during 2015 summer
 Tamanna Mallick, University of Kalyani, 2 Months during 2015 summer
 Tanmay Bera, RMVCC, Rahara, 2 Months during 2016 summer
 Hritwika Roy, Sree Chaitanya College, March, 2017-July-2017
 S Kapil, Tirunelveli, Tamil Nadu, 2 Months during 2018 summer
 Indranil Dey, Calcutta University, 2 Months during 2018 summer
 Swagata Pan, IISER Kolkata, 2 Months during 2018 summer,
 Aayushi Kundu, Thapar University, 2 Months during 2018 summer
 Kaustuv Mukherjee (January, 2017-June, 2018)

Research Support Availed From Different External Sources

Grant Agency	Title of the project and Reference number	Duration	Amount in lakh Rs.
CSIR, India	Green Synthesis of Novel Degradable Polyperoxides	3 years from May, 2011	Rs. 16,00,000/-
DST, India	Design and Synthesis of Amino Acid Based Macromolecular Architectures	3 years from March, 2011	Rs. 41,47,000/-
DRDO, India	Polymer Chains with Inorganic Nano-Objects	3 years from August, 2012	Rs. 19,40,000/-
NSF, USA	CNIC: US-India Collaborative Research to Decipher Function and Evolution of GABAergic	September, 2013 to August, 2014	29570 USD IISER-K Share:

	Neurotransmission in Planaria		8000 USD
BRNS, India	Polymer Networks Assembled by Host-Guest Inclusion between Cyclodextrins and Amino Acid/Peptide Substituents on the Polymer Side-Chain	3 years from June, 2014	Rs. 18,45,950/-
DST-RFBR	Non-covalent interactions as instrument for control of water uptake and mechanical properties of side chain amino acid containing hydrogels: complex experimental and theoretical study	2 years from June, 2015	Rs. 24,84,680/-
Unilever	Development of novel stimuli-responsive gel forming polymers as non-aluminium antiperspirant	3 years from April, 2016	Rs. 39,15,900/-
Indo-Belarus	Well-defined Amphiphilic Block Copolymers for Pharmaceutical Applications	3 years February, 2017	Rs. 19,03,500/-
CSIR, India	Polymerization Induced Nanostructured Materials from Fatty Acid Based Renewable Resources	3 years from January, 2017	Rs. 21,00,000/-
DST, SERB	Bile Acid Containing Amino Acid Based Cationic Polymeric Architectures for Enhanced Actin Polymerization	3 years from April, 2017	Rs. 57,19,560/-