Dr. Deepak Poddar Male|28 Feb 1992|English, Hindi SRF (I.I.T D)/Guest faulty (N.S.U.T) poddardeepakpoddar@gmail.com Ph.D. in Chemistry +919711884485/+918506055646 Specialized in Polymer Science and Technology (Biomaterials) Current city: New Delhi, India Mar 2023

Positive to relocate and travel for work.

Current Research topic: Fabrication of biobased polymer coating for high barrier paper packaging application.

Ph.D. research topic: Fabrication of bi-facial porous polymeric scaffolds for bone tissue engineering applications.

Outline: The in-depth knowledge gained from working with various polymeric materials, have developed my understanding in different fields of studies with a wide exposure in multiple disciplines of chemistry, making my approach diversified. I consider myself to be interdisciplinary, good learner, and target-oriented researcher.

Publications: 7 Journal and 5 book chapter publication (list is attached in separate document).

Ongoing projects:

|  |  |  |  |
| --- | --- | --- | --- |
| Role  | Supervisor  | Title | Belonging |
| Project lead | Prof. Gorev Goel | Fabrication of biopolymer base materials for high WVTR and OTR application for paper packaging application  | Industrial project, IIT Delhi |
| Mentor  | Prof Anjana Sarkar | Fabrication of flexible TMDC base hydrogel for energy conversion application. | Ph.D. project, N.S.U.T, Dwarka |
| Co-worker  | Prof Anjana Sarkar | Synthesis for interstitial doped MoSe2 TMDC for photocatalysis and counter electrode material. | M.Sc. Internship Project, N.S.U.T, Dwarka |

Teaching Experience

|  |  |  |  |
| --- | --- | --- | --- |
| Post | Institute/University | Subjects | Duration |
| Guest faculty | Department of Chemistry, Netaji Subhas University of Technology (NSUT), Dwarka, Delhi | Environmental Science and Green Chemistry, Polymeric science and Technology | 07 Dec 2020--till now |
| Teaching research fellow | Department of Chemistry, N.S.I.T, Dwarka, University of Delhi | Engineering chemistry | 03 Aug 2016-31 Dec 2019 (38 months) |

Work experience

|  |  |  |  |
| --- | --- | --- | --- |
| Position | Employer | Role | Duration |
| Senior Research fellow | Indian Institute of Technology, Delhi | Development of paper base food packaging materials. Monitoring M.Tech MTP project work. | Nov 2022-till now |
| Research Assistant | Institute for Industrial Development | Report writing of polymeric product, its market, product development and applications | 6 weeks |
| Research Trainee | Sri Ram Panels Pvt. Ltd, Punjab | Development of polymeric adessives for ply wood application and several scientific problems solving | 7 days |
| Intern | Kumaun University”, Nanital, Uttarakhand | Functionalization and characterization of Carbon Nano material (Graphene, Graphene oxide & Carbon Nano Tube) | 5 weeks |
| Trainee (Product developer) | Vin Poly Technologies Pvt. Ltd., Naraina, Delhi, INDIA | WPC developer | 7 weeks |

Area of Interest

|  |  |
| --- | --- |
| BiopolymersPolymeric blends, composites Polymer synthesis, drug carrier designingNano material synthesis | Tissue engineering Packaging materialsDrug deliveryCatalytic application |

# Skills and Extracurricular Activities and Awards

|  |
| --- |
| * Project management, Planner, problem finding, problem solving.
* Team worker, team builder and leader.
* Target oriented, laboratory experience, experiment designer, data analysis skills.
* GATE 2017 qualified in Engineering Sciences (XE), with score of 544 and AIR of 129
* Young research award 2021 for the published research article "Influence of varying concentrations of chitosan coating on the pore wall of polycaprolactone based porous scaffolds for tissue engineering application” by Institute of Scholars.
* Awarded with *“*The Best Poster*”* title for the presentation on the paper entitled- “Preparation of Polycaprolactone, Hydroxyapatite with alendronate Hybrid Nanocomposites for their potential use in Bone Tissue Engineering Applications.” in the International Conference on Material Science research (ICMSR) held during November 27- November 28, 2019 at Kuala lumpur, Malaysia.
* First prize in Inter College cricket tournament, Bhaskaracharya College of applied science, University of Delhi, Delhi, INDIA (Feb 2013)
 |

Academic Qualification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Degree | Stream | University | Institute | Year  | Percentage |
| Ph.D. | Chemistry | University of Delhi | Netaji Subhas Institute of Technology, Delhi | 2016-2022 | NA |
| M.Sc. | Polymer Science & Technology | Gujarat University | Central Institute of Plastic Engineering and Technology, Ahmedabad | 2014-2016 | 70.8 |
| B.Sc. | Polymer Science & Technology | University of Delhi | Bhaskaracharya College of Applied Sciences, Delhi | 2011-2014 | 61.6 |
| H.S.C | Science  | C.B.S.E | Dr. Rajendra Prasad Govt. Co-Ed School, Delhi  | 2009-2010 | 64.2 |
| S.S.C | N.A. | C.B.S.E | Govt. Boy’s Sr. Sec. School, IARI Pusa, Delhi  | 2007-2008 | 64.2 |

Place: New Delhi

Dr. Deepak Poddar