

Curriculum Vitae

Personal Information:

- Full Name: Dr. Pramod Kumar Sethy
- Designation: Assistant Professor
- Department: Chemistry
- Institution: Bhadrak Auto. College, Bhadrak
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Professional Profiles:

- ResearchGate: <https://www.researchgate.net/profile/Pramod-Sethy>
- Google Scholar: <https://scholar.google.com/citations?user=OkeFsFcAAAAJ&hl=en>

ACADEMIC/RESEARCH EXPERIENCE:

- **August 2026-till date: Assistant Professor**, Bhadrak Auto. College, Bhadrak
- **August 2023-July 2026: Assistant Professor**, Government Auto. College, Angul
- **August 2022-July 2023: Lab. Assistant**, N. C. Auto. College, Jajpur, Odisha
- **January 2020-July 2022: Entrance Faculty**, Akash Institution, Bhubaneswar, Odisha
- **December 2009-January 2015: Lecturer**, Naidu Science College, Bhubaneswar Odisha.

EDUCATION:

- **2015-2020: Ph. D. (Chemistry)**, Veer Surendra Sai University of Technology, Burla Sambalpur, Odisha.
- ***Thesis Title: Nanostructured Materials embedded Polyacrylic acid based Hybrid Nanocomposites for Packaging Application.***
- **2006-2008: M. Sc. (Chemistry)**, Ravenshaw University, Cuttack, Odisha, India.
- **2003-2006: B. Sc. (Chemistry)**, Utkal University, Bhubaneswar, Odisha

Research Interests:

- **Research Area:** Synthesis of Nanocomposites and polymeric hybrid nanomaterials.
- **Applications:** Packaging & Drugs delivery.

Courses Taught: Physical, Inorganic, Organic Chemistry & Polymer Chemistry.

ACHIVEMENT: I have published **Six** International papers in reputed journal and **One** Book chapter in International publishing media. I have qualified **GATE** and **CSIR NET**.

Publications:

A. Publications in journals

1. **Pramod K. Sethy**, A. Biswal, P. Mohapatra and S. K. Swain* (2022) “Nano BN reinforced cellulose-based tripolymeric hybrid nanocomposites as packaging materials”. *Polymer-Plastics Technology and Materials*, 1-11. **(Taylor and Francis)** (Impact Factor: **3.267**)
2. **Pramod K. Sethy**, P. Mohapatra, S. Patra, D. Bharatiya, and S. K. Swain* (2021) “Antimicrobial and barrier properties of polyacrylic acid/GO hybrid nanocomposites for packaging application” *Nano-Structures & Nano-Objects*, 26 (2021), 100747. (2021) **(Elsevier)** (Impact Factor: **5.454**)
3. **Pramod K. Sethy**, Kalyani Prusty, P. Mohapatra, and S K Swain* “Nano-CaCO₃ embodied polyacrylicacid/dextran nanocomposites for packaging applications” *Journal of Applied Polymer Science*, 137 (2019) 48298-48309, **(Wiley)** (Impact Factor: **3.125**)
4. **Pramod K. Sethy**, Kalyani Prusty, P. Mohapatra, and S K Swain* “Nanoclay decorated polyacrylic acid/ starch hybrid nanocomposite thin films as packaging materials” *Polymer Composites*, 40, (2019) 229-239 **(Wiley)** (Impact Factor: **3.171**)
5. Anuradha Biswal, **Pramod K. Sethy**, & S K Swain* (2020). Change in Orientation of Polyacrylic Acid and Chitosan Networks by Imprintment of Gold Nanoparticles. *Polymer-Plastics Technology and Materials*, 1-13. **(Taylor and Francis)** (Impact Factor: **3.267**)
6. Kalyani Prusty, **Pramod K. Sethy**, and S K Swain* (2018). Sandwich-structured starch-grafted polyethylhexylacrylate/polyvinyl alcohol thin films. *Advances in Polymer Technology*, 37(8), 3779-3791. **(Wiley)** (Impact Factor: **2.389**)

B. Chapter contributed in Edited Book

1. S K Swain*, **Pramod K. Sethy** and A. J. Pattanayak, Synthesis of Soy Protein Based Biocomposites for Packaging Applications, **Chapter 07: Green Biocomposites: Design and Applications (Springer) (2017)** 143-166.

Student Guidance: M.Sc.: 06, UG: 25

Administrative Responsibilities: Deputy COE

Professional Memberships: Life member of Orissa Chemical Society

Skills & Techniques:

- Thermogravimetric Analysis (TGA)
- FTIR, DLS and Zeta potential
- UV-Vis spectrophotometer
- SEM and TEM
- XRD and NMR