



Curriculum Vitae

1. Name: Parimal Pal, PhD, FRSC

Fellow, Royal Society of Chemistry (London)

Senior most HAG Professor, National Institute of Technology Durgapur, India-713209

Ranking within Top 0.5% of the scientists across all streams as per Elsevier Science-published Research Citation Report of Standford University, USA 2021, 2022, 2023

(Ref. Link: <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>)

2. **Area of Specialization:** Sustainable Green Technology Innovation, Chemical Engineering, Environmental Engineering, Process Intensification, Membrane Technology, Water Treatment, Modelling Green Processes and Industrial Scale Up, Petroleum Refining, Mass Transfer

3. Current Nationality: Indian

4. Date of Birth: 09th July 1963

5. **Address for communication:**

Prof.Parimal Pal, Professor (HAG), Department of Chemical Engineering, National Institute of Technology Durgapur

M.G. Avenue, Durgapur, District: Burdwan (West). PIN:713209, India

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6. Academic Qualifications

- Fellow of the Royal Society of Chemistry (London).
- PhD (Chemical Engineering, Jadavpur University, Calcutta, India);
- Master of Technology (Chemical Engineering, Indian Institute of Technology, Kharagpur, India);
- Bachelor in Chemical Engineering (National Institute of Technology Durgapur, India);

7. Doctoral & Post-doctoral thesis supervision

Total thesis supervised: 19

Areas: Green Technology Development, Water Treatment Technology, Sustainable Energy Resource Management, Bio-fuel production, Process Intensification, Fuel Cell technology, Waste to Wealth technology

development, Nanocomposite Membrane & Module Development, Arsenic removal Hybrid Technology Development

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8. SCI PUBLICATION Total (Journal, books): 150

A. Books (Sole author):03

Book Title	Author	Publisher	Year; ISBN No.
1. Groundwater Arsenic Remediation: Treatment Technology & Scale Up	Parimal Pal	Elsevier Sci.	2015; 978-0-12-801281-9
2. Industrial Water Treatment Process Technology	Parimal Pal	Elsevier Sci.	2017; 978-0-12-810391-3,
3. Membrane-based Technologies for Environmental Pollution control	Parimal Pal	Elsevier Sci.	2020 978-0-12-819455-3

Published from: Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, Tokyo.

B. Book Chapters: 30 (ACS, RSC, Elsevier Science, Springer)

C. Peer reviewed (SCI) Publications 150

Typical SCI Journals where published (with impact factor I.F on 2022):

- Chemical Engineering Journal, Elsevier: **I.F. 17**
- Bioresource Technology, Elsevier, **I.F. 12**
- Water Research, Elsevier Science, **I.F. 12.8**
- Energy Conversion & Management, Elsevier, **I.F. 11.53**
- Separation & Purification Technology, Elsevier: **I.F. 9.2**
- Desalination, Elsevier, **I.F. 10.27**
- Journal of Membrane Science, Elsevier: **I.F. 8.7**
- Journal of Cleaner Production, Elsevier, **I.F. 11.07**
- Journal of Hazardous Materials, Elsevier, I.F. 10.58
- Science of Total Environment, Elsevier, **I.F. 10.17**
- Environmental Pollution, Elsevier, **I.F. 10**
- Separation & Purification Review, Taylor & Francis, **I.F. 9.6**
- Energy, Elsevier Science : **I.F. 8.8**
- Fuel Processing Technology, Elsevier, **I.F. 8.2**
- Chemosphere, Elsevier Science, **I.F. 7.087**
- Chemical Engineering Research & Design, Elsevier, I.F. 4.2
- Biochemical Engineering Journal, Elsevier, **I.F. 4.5**
- Chemical Engineering & Processing: Process Intensification, Elsevier, **I.F. 4.26**
- Journal of Taiwan Institute of Chemical Engineers, Elsevier, **I.F. 5.5**
- Environmental Science and Pollution Research (Springer), **I.F. 5.05**
- Industrial and Engineering Chemistry Research, ACS, **I.F. 4.07**

9. Areas of Innovation & Patent development

- (1) Industrial Water Treatment Process Technology
- (2) Waste to Wealth technology for Dairy Industry
- (3) Waste to Wealth Technology for Steel Industry
- (4) Membrane-based low-cost technology for community-based production of potable water from arsenic contaminated water
- (5) Low-cost, nanomembrane-based domestic water filter for safe and mineral water free from all virus, bacteria and anionic water contaminants such as F, As, Cr, Se, Fe etc.
- (6) Membrane-based system for Renewable energy from biomass
- (7) Green Technology as substitutes of polluting Chemical technologies
- (8) Green technology for clean production of monomer grade lactic acid from renewable resources like sugar cane juice
- (9) Membrane-based green technology for production of Glutamic acid from renewable carbon sources

10. Patent and Copy rights granted till date: 09

1. Green technology for Organic & Amino acid production
2. Arsenic removal technology
3. Green energy
4. Advanced Water Treatment Systems
5. Advanced plant control
6. Waste to wealth with circular economy for Dairy Industry

11. International Recognition/award

- Recognized as one of the top 0.5% of the World Scientists (across all branches) by Stanford University Research Citation Report since 2020, International rank in the Chemical Engineering is 181(2022) Stanford University, USA
- Fellow of the Royal Society of Chemistry (London)
- Hiyoshi Environment Award, Hiyoshi Corporation, Japan
- Best Research paper Award on Clean Technology & Environmental Policy, Springer, Berlin
- I.I. ChE Award (Millennium Congress)
- Title of Docent, Lappeenranta University of Technology, Finland
- Editorial Board Member, Biochemical Engineering Journal, Elsevier Science
- Editorial Board Member, Ionic Liquids, Elsevier Science
- Editorial Board Member, Frontiers of Sustainability
- Editorial Board Member, Membrane Science International
- Outstanding Reviewer Recognitions (ACS, Elsevier): 12