SHORT CURRICULUM VITAE
DR. ANJALI PAL

Personal Information and *Present Position*

Professor, Department of Civil Engineering, IIT Kharagpur 721302
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Education

1988	Ph. D. (Chemistry), Calcutta University
1978	M. Sc. (Chemistry), Calcutta University
1976	B. Sc. (Hons. in Chemistry), Calcutta University
1973	H. S., WBBSE*

Awards and Scholarship

(1) National Scholarship* (HS Exam.); (2) Convention Award (INDIAN CHEMICAL SOCIETY) (1988): (3) Advanced Technology Award / International Hall of Fame Award (INVENTORS CLUB OF AMERICA) (1993); (4) R & D 100 -Award (DOE, USA) (1994)

Research Experience

- In India and abroad (USA & JAPAN) more than 30 years

Teaching Experience

Taught TWELVE (UG & PG) different courses in Civil Engineering Department and in Chemistry Department during the last 20 years & Taught in other Universities as a guest teacher.

Guidance in B. Tech. / M. Tech. / Ph. D. Levels

Guided B.Tech, M.Tech and Ph.D. students covering different topics *viz.*
(1) Arsenic remediation; (2) Pollution abatement: (3) Nanomaterials synthesis, characterization and application; (4) Adsorption / Adsolubilization; (4) Catalysis; (5) Advanced oxidation processes

- Guidance at Doctoral level: 12 (Completed); 02 (undergoing)
- Guidance in Masters level: 35 (Completed); 04 (undergoing)

Research Publications

- In Standard National / International Journals: > **235** (including Book chapters and Monographs) (11 papers are Single authored)
- Citation: >**15026**
- In National / International Conferences: **> 110**

Research Field of Interest

(1) Pollution abatement and Environmental Engineering; (2) Nanomaterials syntheses and applications; (3) Catalysis and Spectroscopy; (4) Analytical Chemistry; (5) Natural Product Chemistry

Position of Authority Held

- **"***Editorial Advisory Board of Recent Patents on Nanotechnology" (Bentham Science Publications Ltd.)*
- **"***Editorial Advisory Board of Recent Patents on Engineering" (Bentham Science Publications Ltd.)*
- Co-Editor in the journal "*Research Journal of Chemistry and Environment"*
- *"Bentham Ambassador" (Bentham Science Publications Ltd.)(2018-2019)*
- "*Guest Editor*" for the SI in "Catalysis Today" (Elsevier) (2019)
- Reviewer for the many ACS, RSC, Elsevier & other International/National Journals

Foreign Invitation/Collaboration

(1) Visiting Scientist to work with Dr. Tuan Vo-Dinh in the Oak Ridge National Laboratory, USA
(2) Visiting Fellow to work with Prof. Kunio Esumi in the Tokyo University of Science, Japan
(3) Professional Advisor to Work with Prof. C. P. Wong in Georgia Institute of Technology, Atlanta, USA
(4) National University of Singapore to deliver a talk on "Nanogold Dissolution"
(5) Invited speaker for Faraday Discussion 132 to be Held in the Imperial College London to deliver a talk on "Synthesis and Characterization of SERS Gene Probe for BRCA-1 (Breast Cancer)"
(6) Invited to deliver talks on "Synthesis of Coinage Metal Nanoparticles and its Application to SERS" to The University of Catania (Italy) and National Nanotechnology Laboratory of CNR-INFM (Italy)
(7)Invited to deliver a series of lectures in different universities in Taiwan
(8) Invited for scientific collaboration with Prof. Tuan Vo-Dinh in Duke University, NC, USA
(9) Invited for scientific collaboration with Prof. Thomas Thundat in University of Alberta, Canada
(10) Invited for scientific collaboration with Prof. Yuichi Negishi in Tokyo University of Science, Japan

Sponsored Research Projects Undertaken

(1) DST sponsored project entitled *"Development of a low-cost technology for arsenic-removal and an easy to detect method for arsenic analysis for the rural areas of West Bengal"* (Project value: 5.6 Lakhs) (2003-2006)
(2) Investigator of ISIRD project entitled *"Synthesis and characterization of mono- and bimetallic nanoparticles on supported systems and their application for the degradation of organic pollutants"* (Project value: 5.0 Lakhs) (2007-2010)
(3) Co-investigator for the Calcutta University sponsored project entitled "*Determination of leishmanicidial potential of metal nanoparticles and their conjugates"* (Project value: 2.0 Lakhs) (2010-2012)

(4) Co-PI for DST sponsored project entitled "*Development of microbial fuel cell for direct electricity recovery during waste water treatment*" (2012-2016) (Project value: 61.1 Lakhs)
(5) Co-PI for SERB sponsored project entitled "*Development of Bioactive 3D scaffold with Nano/micro hierarchy for bone tissue engineering through combinatorial approach*" (2015-2018) (Project value: 45.45 Lakhs)
(6) Co-PI of a SERB sponsored project entitled "*Plasmonic Nanoparticles Decorated Heterogeneous Magnetic Nano-Catalysts for Removal of Pesticides: A Road Map towards Water Purification*." (2019-2022) (Project value: 19 Lakhs)

Teaching Interest (Subjects taught / teaching)

At the **UG** level:

(1) Environmental Science (Breadth) (EV20001 & EV10003); **(2)** Environmental Engineering (Elective) (CE31302); **(3)** Hazardous Waste Management (Elective) (CE41603); **(4)** Environmental Engineering & Science (Breadth) (CE31314); **(5)** Water & Wastewater Eng. Lab. (Core) (CE39011 / CE23001); **(6)** Common Design Project (Core) (CE37002)

At the **PG** level:

(1) Environmental Chemistry & Microbiol. (Elective)(CE60131 / CE60067); **(2)** Hazardous Waste Management (Elective) (CE60148 / CE60076); **(3)** Environmental Engineering Lab (I) (CE69023 / CE69011); **(4)** Advanced Engineering Monitoring Lab. (II) (CE69008); **(5)** Water Management Lab. (WM69003); **(6)** Introduction to Nano-science & Technology (NT70002)