

Debabrata Pradhan – Curriculum Vitae (Updated in October 2021)

Professor
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Professional Experience

09/2021 – Till date Professor, [Materials Science Centre, IIT Kharagpur, India](#)
05/2015 – 09/2021 Associate Professor, Materials Science Centre, IIT Kharagpur, India
09/2010 – 05/2015 Assistant Professor, Materials Science Centre, IIT Kharagpur, India
08/2006 – 08/2010 Postdoc, [Dept. of Chemistry, Univ. of Waterloo, Canada](#)
Electrochemistry, Nanomaterials, Surface & Interface Study
09/2004 – 07/2006 Postdoc, [Dept. of Physics, Tamkang Univ./Nat. Tsing Hua Univ, Taiwan](#)
Nanocrystalline Diamond Thin Films and Field Emission Study
05/2003 – 08/2004 RA and Postdoc, [RSIC/SAIF, IIT-Bombay, India](#)
Operation of Transmission Electron Microscopes

Output

(Journal Publication – 88, PhD – 07)
(Journal Publication – 22, Patents – 2, PhD – 01)
(Journal Publication – 19)
(Journal Publication – 07)
(Journal Publication – NIL)

Education

11/2003 PhD (Chemistry), IIT Bombay, India, Thesis: Synthesis of Carbon Nanomaterials and their Applications
07/1997 MSc, MPC College (Under Utkal Univ., Odisha, India), Spl.: Adv. Physical Chemistry, [Division: [First](#)]
07/1995 BSc, Udala College (Under Utkal University, Odisha, India) Honors: Chemistry [Division: [First](#)]
07/1992 ISc, Udala College, Odisha, India, Physics, Chemistry, Mathematics and Biology [Division: [First](#)]
07/1990 10th, Udala High School, BSE, Odisha, India, Oriya, Eng., Sanskrit, Math., Sci., etc. [Division: [First](#)]

Scholastic Achievements / Awards / Honors

- First rank in M.Sc. in the College (M. P. C. College, Baripada)
- [Adani Award](#) for Excellence in Teaching Physical Chemistry to the B. Tech. students at IIT-Bombay (2001-2002)
- [MRSI Medal 2019 by Materials Research Society of India](#) in recognition of significant contributions to the field of Materials Sc. & Eng.
- [Faculty Excellence Award 2019 by IIT Kharagpur](#) for outstanding contributions towards Teaching, Research, and Institutional Development.

Research Interests

- Nanotechnology: Synthesis, characterization, and applications of nanomaterials
- Electrocatalysis, photocatalysis, fuel cells, supercapacitors, perovskite solar cells

Research Outputs

Publications (Total journal papers = **146 (until 2021)**, Book Chapter = **2**, Edited Book = **1**, and Patents = **2**)

Total Citation: >6900, **h-index 46**, i10-index 119 (Goggle Scholar - <https://scholar.google.co.in/citations?user=MpTQVj0AAAAJ&hl=en>).

Average citations per year = 860 (during 2016 to 2020).

h-index is primarily contributed from the IIT Kharagpur work (40 journal papers published from IIT Kharagpur during 2013-2021 received citations more than 40) – All these journal papers are research articles.

Number of journal papers prior to joining IIT Kharagpur = 36

Number of journal papers during assistant professor (2010-2014): 22, Number of PhD produced: 01

Number of journal papers during associate professor (2015-Sep. 2021): 88, Number of PhD produced: 07

Total number of Publications from IIT KGP during 2013-2021: 110 int. refereed journal papers, 2 patents, 1 book and 1 book chapter.

Teaching

- Currently Teaching: (1) Techniques of Materials Characterization and (2) Science and Technology of Semiconductors

Research Funding (2011-2021):

Rs. 2.55 crore as PI and Rs 5.5 crore as Co-PI from outside agencies (DST, SERB, NASF, Waker Chemicals, Indo-Korea, Indo-UK, CSIR, and DRDO).