

Prof. (Dr.) D. KUMAR

C. Chem .M.R.S.C. (UK), LMISCA (India), UGC Research Awardee

Former Head, Department of Applied Chemistry

Delhi Technological University

(Govt. of NCT of Delhi)

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QUALIFICATIONS: M.Sc, M.Phil, Ph.D (Polymer Sci. & Tech.) Delhi University

RECENT AWARDS:

- **Featured in the list of World Ranking of Top 2% Scientists in 2021, 2022 & 2023 database by Stanford University**
- **1st Cumulative Citation Award: Gold, DTU Delhi for year 2022**
- **Highly Cited Paper Award, DTU Delhi for year 2022**
- **Yearly Citation Award: Early Research Impact and Influence Award, DTU Delhi for year 2022**
- **Research Excellence Award, Delhi Technological University, Delhi for four consecutive years 2019, 2020, 2021 & 2022 in a row**

TEACHING EXPERIENCE:

- **working as Professor, Department of Applied Chemistry, Delhi Technological University, Delhi w.e.f. 05/03/2010 to date.**
- worked as Associate Professor and Assistant Professor (Reader) through **UPSC SELECTION** at Delhi College of Engineering, Delhi University, Delhi.
- worked as Lecturer (**Founder Faculty & Head**) in the Department of Chemistry, Ch.Charan Singh University, Meerut
- and more....

ADMINISTRATIVE CONTRIBUTION:

- **Head, Department of Biotechnology, DTU Delhi w.e.f. 01/04/2015 to 03/11/2015 and again w.e.f. 01/06/2016 to 31/12/2017**
- **Head, Department of Applied Chemistry & Polymer Technology w.e.f. 01/08/2012 to 31/05/2016**
- Chairman, Department Research Committee (DRC)/Student Research Committee (SRCs)/ Board of Studies (BoS)/ Department Purchase Committee (DPC)/ Condemnation Committee/ Purchase Committee for Chemicals & Glasswares/ University Level Anti Ragging Squad/ Sports Council/ DTU Prospectus Committee/ Attendance Monitoring Committee/ Tender Opening Committee/ ERC, Faculty of Technology, Delhi University
- Chairman, TATVA and KARYON
- Co-Chairman, Central Time Table Committee for 02 yrs

- Sector Officer, MCD Election 2017, Govt. of NCT of Delhi
- Co-ordinator, Ph.D (Polymer Technology) Admission/ME (Polymer Technology) Admission/ Central Evaluation, DCE/DTU
- **Superintendent, BE/B.Tech Theory Exams, DTU** and Superintendent Practical Exams
- **Superintendent, CET Exams, DTTE, Delhi for 02 yrs**
- **Member, Academic council, Manav Rachana University, Faridabad**
- Academic Council (Apex Body) Delhi Technological University (Ex-member)
- **Member, IQAC at Bhaskaracharya College of Applied Sciences, DU**
- **Member, Board of Studies (BoS) at CIPET-IPT, Murthal**
- **Member of numerous committees of DTU**
- **Faculty Adviser for TATVA-2009 (Technical Festival)**
- **Warden, JCB Hostel, DTU**

COUNTRY VISITED FOR SCIENTIFIC ACTIVITIES: Four (04)

UNITED KINGDOM, JAPAN, MALAYSIA & BELGIUM

- worked as visiting researcher at Kyushu Institute of Technology, Kitakyushu, Japan
- worked as a collaborator at Tokyo Institute of Technology, Tokyo under DST-JSPS International programme

PEER REVIEWER FOR INTERNATIONAL JOURNALS

- **Analytica Chimica Acta, ACS Omega, Bioelectrochemistry, Canadian Journal of Chemistry (NRC, Canada), International Journal of Adhesion & Adhesives (U.K.), Journal of Polymer Engineering, Polymer Composites, Polymer International, Synthetic Metals (Elsevier), Sensors (Switzerland) and many more.....**

FELLOW / MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- **Indian Science Congress Association (ISCA) Life-member since July 2006 to date**
- **Royal Society of Chemistry, UK (Ex-member)**
- **American Chemical Society, USA (Ex-member) etc...**

LIST OF ARTICLES IN POPULAR MAGAZINES OR NEWSPAPERS:



SPONSORED MAJOR RESEARCH PROJECTS UNDERTAKEN

1. “Investigation on organic electrode materials for polymer electronics using EFISHG” India Japan Joint Research Project (DST-JSPS) funded by DST, New Delhi for two years.
2. “Investigation on conductive helical materials for technological applications” India Japan Joint Research Project (DST-JSPS) funded by DST, New Delhi for two years.
3. “Development of engineering materials for technological applications” funded by UGC, New Delhi
4. Recycle/reuse of PET waste funded by UGC, New Delhi
5. Thermal behaviour of conducting polyanilines funded by CSIR, New Delhi
6. Dielectric and thermal studies of conducting polyanilines funded by CSIR, New Delhi
7. Technological applications of conductive polyanilines funded by CSIR, New Delhi

GOOGLE SCHOLAR CITATIONS REPORT

- Citations – 5000+
- H-Index – 31 and i10-Index - 78

Google Scholar Citations: <https://scholar.google.com/citations?user=hvmGhKwAAAAJ>

Scopus profile link:

<https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=57224687076&zone=>

PRESENT RESEARCH ACTIVITIES:

Postdoctoral Fellows Guided: 02

DST Inspire Faculty: 02

Teaching cum Research Fellows guided: 02

Ph.D's GUIDED: 18

UNDER GUIDANCE: 09

M.E/M.Tech PROJECTS (DISSERTATIONS) GUIDED: 85

M.Sc PROJECTS (DISSERTATIONS) GUIDED: 04

A) BOOKS / BOOK CHAPTERS

1. "Technological aspects in the development of MXenes and its hybrid nanocomposites: Current challenges and prospects" by Sujeet K.Mishra and **D. KUMAR** (In press).
2. "Ag@CuO nanohybrid-based electrochemical biosensor for Trichlorfon detection" by Saroj Paneru and **Devendra Kumar** in a book titled "Recent Advances in Nanotechnology", Springer Proceedings in Materials, Vol. 28, 75-84 (2023).
3. **Chemistry for Engineers** by **D. KUMAR** and S.K.Mishra, AKN Learning, Delhi (2021).
4. "Nanocomposites: From Fabrication to Chemical Sensor Applications" by Rajesh, T. Ahuja, and **D. KUMAR** in a book titled "Chemical Sensors: Fundamentals of Sensing Materials" Vol. 2: Nanostructured Materials, Momentum Press, LLC, New York, pp. 335-368 (2010).
5. "Spectroscopic and thermal investigations of chemically synthesized polyanilines and polystyrene sulphonic acid composites" by Neetika Gupta, Shalini Sharma and **D.KUMAR**, in a book titled "Electroactive Polymers: Materials & Devices", Allied Publishers, New Delhi, Vol. 2, 243-252 (2007).
6. Latex Technology by **D.KUMAR** and R.Chandra, Dhanpat Rai & Co.(P) Ltd., Delhi 124 pp. (2001).

B) PATENT

1. "Process for preparing polybenzoxazines" by Prasun Kumar Roy, Pratibha Sharma, **Devendra Kumar** (2017) Pat. No. 334134 (India).
Filed on dated 14/02/2017 and granted on dated 06/03/2020. (Application No. 201711005289)

C) CONTRIBUTIONS TO ACADEMIC CONFERENCES/ SEMINARS/ SYMPOSIA: 120

D) ARTICLES IN JOURNALS: 135 Details available on google scholar