CV- Dr. Dinesh Kumar Verma

1. **Name and full Correspondence Address:** Dr. Dinesh Kumar Verma
   Assistant Professor
   Department of Chemistry,
   Prof. Rajendra Singh (Rajju Bhaiya)
   Institute of Physical Sciences for Study and Research
   Veer Bahadur Singh Purvanchal University,
   Jaunpur-222003, Uttar-Pradesh, India.
2. **Email ID:** dineshverma10790@gmail.com
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   Google Scholar Link:
   https://scholar.google.co.in/citations?user=GdnWDeoAAAAJ&hl=en&oi=ao
3. **Institution:** Department of Chemistry, Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur, U.P.
4. **Date of Birth:** 10th July 1990
5. **Gender:** Male
6. **Academic Qualifications:**

S. No.	Degree	Year	Subject	University/Institution/Board	% of Marks
1.	**M.Sc.**	2014	Chemistry	University of Allahabad, Prayagraj, U.P., India	72.5
2.	**B.Sc.**	2012	Chemistry, Physics, Mathematics	University of Allahabad, Prayagraj, U.P., India	63.6
3.	**12th**	2007	Mathematics Stream	U.P. Board	72.4
4.	**10th**	2005	Science Stream	U.P. Board	73.0

7. Ph. D Thesis title: "Investigations on Reduced Graphene Oxide-Based Nanohybrids as Friction and Wear Modifiers"

Guide's Name: Prof. R.B. Rastogi

Institute/University: Indian Institute of Technology (B.H.U.), Varanasi, India

Year of Award: 2021

8. Work Experience (in chronological order):

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1.	Assistant Professor	Department of Chemistry, Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur, India	02/11/2019	Still Cond..	Rs. 57,700-1,82,400 (Level-10)
2.	Research Scholar	Indian Institute of Technology (B.H.U.), Varanasi, India	23/07/2015	01/11/2019	JRF: Rs.25000/PM + HRA (2 Years) & SRF: Rs.28000/PM+ HRA (3 Years)

9. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received:

S.No	Name of Award	Awarding Agency	Year
1.	UGC-JRF (AIR: 058/0631)	CSIR	December-2015
2.	GATE-2015 (AIR: 380)	IIT-Kanpur	March-2015

10. Ongoing Projects:

S.No	Project Title	Role	Tenure	Funding Agency	Amount (Rs.)
1.	Nanocomposite of Graphene for Reduction of Friction and Wear	Principal Investigator (P.I.)	03 Years	Council of Science & Technology. U.P. (CST-UP)	11.44 Lakh
2.	Development of Graphene-Based Nano-Lubricant for Reducing Interfacial Friction and Wear of Steel Surfaces	Principal Investigator (P.I.)	01 Year	VBSPU Minor Project Grant	1.0 Lakh

11. Publications *(List of papers published in SCI Journals, in year-wise descending order)*:

S. No.	Author(s)	Title with DOI	Name of Journal with Impact Factor	Volume	Page	Year
1.	Nivedita Shukla, Alok K. Singh, Kavita, **Dinesh K. Verma**, Bharat Kumar, J.L. Maurya, D. Tiwari, and Rashmi B. Rastogi	Heterolamellar Bi_2Se_3/Bi_2WO_6 and Bi_2Se_3/N-Doped Bi_2WO_6 Nanosheet Composites as Potential Antifriction and Antiwear Agents https://doi.org/10.1021/acsaenm.3c00039	*ACS Applied Engineering Materials* **IF = 6.959**	……	……	2023
2.	Kavita, A.K. Singh, N. Shukla, B. Kumar, **Dinesh. K. Verma**, Jiya Lal Maurya**,** S. Singh, and R.B Rastogi	Improvement of Tribo-active Behavior of g-C_3N_4 Nanosheets Using m-$LaVO_4$ Nanoparticles https://doi.org/10.1016/j.colsurfa.2023.131031	*Colloids and Surfaces A: Physicochemical and Engineering Aspects* **IF = 5.518**	*663*	131031	2023
3.	Kavita, A.K. Singh, N. Shukla, **Dinesh. K. Verma,** B. Kumar, S. Singh, and R.B Rastogi	Polyaniline intercalated vanadium pentoxide nanosheets for the improvement of lubricity of base oil https://doi.org/10.1016/j.colsurfa.2022.128644	*Colloids and Surfaces A: Physicochemical and Engineering Aspects* **IF = 5.518**	*642*	128644	2022
4.	Alok K. Singh, Nivedita Shukla, **Dinesh K. Verma**, Kavita, Bharat Kumar, KD Mandal and Rashmi B. Rastogi	Reinforcement of nanoporous lanthanum-doped zinc borate by vanadium selenide nanosheets for improved tribological activity https://doi.org/10.1039/D2RA02806A	*RSC Advances* **IF = 4.036**	12	18685-18696	2022
5.	Alok K. Singh, Nivedita Shukla, **Dinesh K. Verma**, Kavita, Bharat Kumar, and Rashmi B. Rastogi	Enhancement of Triboactivity of Nanolamellar Graphitic-C_3N_4 by N-Doped ZnO Nanorods https://doi.org/10.1021/acs.iecr.0c03955	*Ind. Eng. Chem. Res*, **IF = 4.326**	60	864-874	2021
6.	**Dinesh K. Verma**, Jyoti Kuntail, Bharat Kumar, Nivedita Shukla, Alok K. Singh, Kavita, Indrajit Sinha and Rashmi B. Rastogi	Amino Borate-Functionalized Reduced Graphene Oxide Further Functionalized with Copper Phthalocyanine Nanotubes for Reducing Friction and Wear https://doi.org/10.1021/acsanm.0c00812	*ACS Appl. Nano Mater.*, **IF = 6.140**	3	5530-5541	2020
7.	**Dinesh K. Verma**, Nivedita Shukla, Bharat Kumar, Alok K. Singh, Kavita, Mithilesh Yadav, Kyong Yop Rhee and Rashmi B. Rastogi	Synergistic Tribo-activity of nanohybrid of Zirconia/Cerium-doped Zirconia nanoparticles with nanolameller reduced	*Nanomaterials*, **IF = 5.719**	10	707-726	2020

		graphene oxide and Molybdenum disulfide https://doi.org/10.3390/nano10040707				
8.	Nivedita Shukla, **Dinesh K. Verma**, Alok K. Singh, Bharat Kumar, Kavita and Rashmi B. Rastogi	Ternary Composite of Methionine-Functionalized Graphene Oxide, Lanthanum-Doped Yttria Nanoparticles, and Molybdenum Disulfide Nanosheets for Thin Film Lubrication https://doi.org/10.1021/acsanm.0c01468	*ACS Appl. Nano Mater.* **IF = 6.140**	3	8012-8026	2020
9.	Bharat Kumar, **Dinesh K. Verma**, Nivedita Shukla, Alok K. Singh, Kavita and Rashmi B. Rastogi	Ionic liquid stabilized Ag@C composite for improvement of triboactivity https://doi.org/10.1016/j.molliq.2020.113012	*J. Mol. Liq.,* **IF = 6.633**	307	113012	2020
10.	Kavita, Jyoti Kuntail, **Dinesh K. Verma**, Bharat Kumar, Alok K. Singh, Nivedita Shukla, Indrajit Sinha, and Rashmi B. Rastogi	Theoretical and experimental studies of pyranopyrazole and their tribological compatibility with a borate ester https://doi.org/10.1016/j.colsurfa.2020.125497	*Colloids and Surfaces A: Physicochemical and Engineering Aspects,* **IF = 5.518**	606	125497	2020
11.	Bharat Kumar, **Dinesh K. Verma**, Kavita and Rashmi B. Rastogi	Tribological activity of ionic liquid stabilized calcium-doped ceria nanoparticles https://doi.org/10.1177/1350650120935005	*Proc. IMechE Part J: J Engineering Tribology,* **IF = 1.818**	235	989-996	2020
12.	Kavita, Pratibha Verma, **Dinesh K. Verma**, Bharat Kumar, Alok K. Singh, Nivedita Shukla, Vandana Srivastava, Rashmi B. Rastogi	Tetrahydopyrazolopyridines as antifriction and antiwear agents: experimental and DFT calculations https://doi.org/10.1039/D0RA00794C	*RSC Advances,* **IF = 4.036**	10	10188-10196	2020
13.	Bharat Kumar, Jyoti Kuntail, **Dinesh K. Verma**, Rashmi B. Rastogi, Indrajit Sinha	Mechanism of triboactivity of Schiff bases Experimental and molecular dynamics simulations studies https://doi.org/10.1016/j.molliq.2019.111171	*J. Mol. Liq.,* **IF = 6.633**	289	111171	2019
14.	Bharat Kumar, **Dinesh K. Verma**, Alok K. Singh, Kavita, Nivedita Shukla, Rashmi B. Rastogi	Nanohybrid Cu@C: synthesis, characterization and application in enhancement of lubricity https://doi.org/10.1080/09276440.2019.1697134	*Compos. Interfaces,* **IF = 2.839**	27	777-794	2019
15.	**Dinesh K. Verma**, Kalyani, Vinay Jaiswal, and Rashmi B. Rastogi	Tribological studies of some quinoline derivatives and their synergistic interaction with phosphate ester https://doi.org/10.1177/1350655012093500	*Tribol. Trans.,* **IF = 2.056**	62	283-294	2019

16.	**Dinesh K. Verma,** Bharat Kumar, Kavita and Rashmi B. Rastogi	Zinc oxide-and magnesium-doped zinc oxide-decorated nanocomposites of reduced graphene oxide as friction and wear modifiers https://doi.org/10.1021/acsami.8b20103	*ACS Appl. Mater. Interfaces,* **IF = 10.383**	11	2418-2430	2019

12. Books/Chapters etc.

S.No	Title	Author's Name	Publisher	National / International : ISBN/ISSN Number	Year of Publication
1.	Recent Trends in Science and Technology Chapter 6: Cellulose Nanocrystals: A Versatile Emerging Material for Potential Applications	Mithilesh Yadav, **Dinesh K. Verma,** Pramod Kumar and Sujeet K. Chaurasia	Krishna Computer Sansthan, Prayagraj, India	National, **ISBN No:** 978-81-953793-1-6	2022

13. Any other Information:

- Life-time member of the Tribology Society of India (TSI) affiliated to International Tribology Council, United Kingdom.
- Technical skills on FTIR, NMR, UV-Vis, XPS, Raman Spectroscopy, XRD, FE-SEM, EDX, HR-TEM, AFM, TGA analyses.