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List of Publications, Conferences, and Workshops

List of Publications

1. **Kuldeep Kumar Maurya**, Kulveer Singh, and Manisha Malviya. "Effect of palladium and its nanogeometry on the redox electrochemistry of Tetracyanoquinodimethane modified electrode; application in electrochemical sensing of ascorbic acid." *Journal of Applied Electrochemistry* (2023): 1-12. <https://doi.org/10.1007/s10800-023-01878-z>
2. **Kuldeep Kumar Maurya**, Kulveer Singh, and Manisha Malviya, "Fabrication of dopamine sensor based on a carbon paste electrode modified with tetracyanoquinodimethane and cobalt tungstate nanoparticles". *J Mater Sci: Mater Electron* 35, 13 (2024). <https://doi.org/10.1007/s10854-023-11721-y>
3. **Kuldeep Kumar Maurya**, Kulveer Singh, and Manisha Malviya. "Design of a Low Voltage TCNQ-Pd-Co@NC-Modified Electrode-Based NADH Sensor". *Electrocatalysis* (2024). <https://doi.org/10.1007/s12678-024-00865-y>
4. Kulveer Singh, **Kuldeep Kumar Maurya**, Manisha Malviya (2023). "Influence of Pd Nanostructures on The Redox Electrochemistry of Ferrocene Monocarboxylic Acid and Ferrocene for Ascorbic Acid Sensing", *Analytical and Bioanalytical Electrochemistry*, 15(7), pp. 516-530. <https://doi: 10.22034/abec.2023.70650>
5. Kulveer Singh, **Kuldeep Kumar Maurya**, and Manisha Malviya "Redox electrochemistry of electrodes tuned with dimethyl ferrocene based on Co-NC-Pd Nanogeometry: An Impedimetric Sensor for NADH sensing." *J. Mater Sci: Mater Electron* 34, 1898 (2023). <https://doi.org/10.1007/s10854-023-11257-1>
6. Kulveer Singh, **Kuldeep Kumar Maurya**, & Manisha Malviya. "Electrochemical determination of dopamine using Ni Pd bimetallic nanoparticles decorated on

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MWCNT: an amperometric sensor”. *J. Nanoparticle Research*. (2024).

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7. Kulveer Singh, **Kuldeep Kumar Maurya**, & Manisha Malviya, “Critical Study of Electrochemical Sensors and Biosensors Based on First-Row Transition Metals, their Oxides, and Noble Metals Nanoparticles”. *J. Anal. Test.* (2023).

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8. Manjit Singh, **Kuldeep Kumar Maurya**, & Manisha Malviya, “Liquid-Assisted Grinding [LAG] approach, Metal-free synthesis of 2, 3-dihydro-1, 5-Benzothiazepines and its Electrochemical study”. *Australian Journal of Chemistry* (2024).

List of Conferences & Workshops

Conferences

1. International Conference on Advanced Functional Materials: Future Prospective (AFMFP-2022) on the topic “*Impact of Pd nanogeometry on redox electrochemistry of TCNQ modified electrode and its application in sensing of ascorbic acid.*” (Poster presentation)
2. International Conference on Nanotechnology: Opportunities & Challenges (ICNOC-2022) on the topic “*Electrochemical determination of NADH in the presence of TCNQ modified carbon paste electrode.*” (Oral Presentation)
3. 17th International Conference on Polymer Science and Technology (SPSI MACRO 2023) on the topic “*Fabrication of dopamine sensor based on a carbon paste electrode modified with tetracyanoquinodimethane and cobalt tungstate nanoparticles.*” (Poster presentation)

Workshops

1. Indo-UK Workshop on “*Valorisation of agri-waste for energy and Nutrient Recovery*”. (15-17 January 2020).
2. Workshop on “*Green Chemistry and Good Laboratory Practices*”. (27th January 2022) organized by the Department of Chemistry S.S. Khanna Girls Degree Collage Prayagraj U.P. India.
3. Indo-USA SPARC Workshop on “*Additive Manufacturing Materials and Applications*”. (7 February 2022).
4. SERB Sponsored one-day national workshop on “*Wear, Corrosion and Biocompatibility of Ta-coated 316L stainless steel for orthopedic applications*”. Organized by the Department of Metallurgical Engineering, IIT (BHU), Varanasi, on 10 November 2022.
5. National Conference on “*Indian Knowledge Systems*” Organised by IKS Center IIT (BHU) Varanasi.
6. Workshop Cum Public Outreach Programme on “*Nuclear Energy for Health, Environment and Development*”. (14th October 2023) organised by Indian Nuclear Society in association with BHU and IIT BHU