



Dr. Kedar Kumar Rout

Designation: Assistant Professor (Guest)

Qualification: Ph.D

Date of Birth: 02-05-76

Date of Joining: 02-07-2024

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Area of Interest

Natural Product, Herbal Formulation, Semi-Synthesis, NCE-Development, Bio-active molecules, Chromatography & Spectroscopy

Courses taught

Organic Chemistry, Physical Chemistry, Analytical Chemistry & Spectroscopy

Career

Assistant Professor (2024-present): Rama Devi Women's University, Bhubaneswar

Teaching Experience

7.5 Years

Research Experience

12 Years

Awards & Honours

PD Sethi National Award

Membership in Scientific Societies

Orissa Chemical Society (Life member)

The Indian Science Congress Association (Life member)

Publications

Total Publication:31, Total citation: 486, H-index: 14; i10 index:17

Journal publications:

1. **KK. Rout**, M. Kar, PC. Agarwal, SK. Dash, Analysis of Bioactive Hispidulin: an Anticancer Flavone of *Clerodendrum philippinum*, Journal of Planar Chromatography, 2024, 37(1), 49-56.
2. S. Parida, KK. Rout, A. Mishra, G. Mahalik, NK. Dhal, Pharmacognostic evaluation of *apium*

graveolens linn. and *trachyspermum roxburghianum* (dc.) craib: the drug "ajmoda" in indian system of medicine, Indian drug, 2023, 60(12), 54-59.

3. S. Behera, **KK. Rout**, PC. Panda and SK. Naik, Production of non-embryogenic synthetic seeds for propagation and germplasm transfer of *Hedychium coronarium* J. Koenig, Journal of Applied Research on Medicinal and Aromatic Plants, 19(2020) 100271.
4. S. Behera, S.K. Kar, **KK. Rout**, DP. Barik, PC. Panda and, SK. Naik, Assessment of genetic and biochemical fidelity of field-established *Hedychium coronarium* J. Koenig regenerated from axenic cotyledonary node on *meta*-topolin supplemented medium, Industrial Crops & Products, 2019, 134, 206-215.
5. S. Behera, PK. Kamila, **KK. Rout**, DP. Barik, PC. Panda and SK. Naik, An efficient plant regeneration protocol of an industrially important plant, *Hedychium coronarium* J. Koenig and establishment of genetic & biochemical fidelity of the regenerants, Industrial Crops & Products, 2018, 126, 58-68.
6. A. Moharana, DP. Barik, SK. Naik and **KK. Rout**, Comparative TLC Studies and Development of HPTLC Method for Quantification of Lawsone in Natural and Micropropagated Plant Parts of *Lawsonia inermis* L., Journal of Planar Chromatography, 2018, 31(2), 155-162.
7. **KK. Rout**, Isolation and HPTLC Analysis of Bioactive Lupenone: a Lupane Triterpenoid from *Diospyros melanoxylon*, Journal of Planar Chromatography, 2017, 30(4), 259-263.
8. **KK. Rout** and SK. Mishra, Development of a sensitive HPTLC method for quantification of nimbolide in *Azadirachta indica* and its dosage form, Journal of Chromatographic Science 2014, 52 (9), 1089-1094.
9. **KK. Rout**, SS. Swain, PK. Chand, Quantification of β -sitosterol in Hairy Root Cultures and Natural Plant Parts of *Clitoria ternatea* L., Journal of Planar Chromatography, 2014, 27(1), 42-46.
10. SK. Karan, A. Mondal, SK. Mishra, DK. Pal and **KK. Rout**, Antidiabetic effect of *Streblus asper* in streptozotocin-induced diabetic rats, Pharmaceutical Biology, 2013, 51(3), 369-375.
11. **KK. Rout**, RK. Singh, DP. Barik and SK. Mishra, Thin-Layer Chromatographic Separation and Validated HPTLC Method for Quantification of Ursolic Acid in Various *Ocimum* Species, Journal of Food and Drug Analysis, 2012, 20(4), 865-871.

Participation & paper presentation in conferences & seminars:

1. Application of Material Science in Emerging Fields, 15 & 16th February, 2023 (presented) Fakir Mohan College, Balasore, Odisha

2. Research Methodology: Tools and Techniques, 20- 22th January, 2022, IES University, Bhopal, India.
3. Recent Advances in Chemistry Education and Chemical Research, National Convention of Chemistry Teachers (NCCT-2020), MLSM College, 29th November to 1st December, 2020, Darbhanga, Bihar, India.
4. A few tips on writing and selecting journals for publication: do's and don'ts" 18th September, 2020, GIET University, Gunpur, Odisha.
5. Recent Trends in Chemical Science, Faculty Development Programme, 24-29th, August, 2020, AURO University, Gujarat.
6. **K.K. Rout** and B. K. Mishar, Biodiversity Conservation for Sustainable Development and Environment Management in a Eco-Sensitive area with People Participation by Ensuring their Livelihood Option,—*in the proceedings* of National Conference on Biodiversity Conservation for Sustainable Development and Environment Management (BCSDEM-2018), 1st &2nd , April, 2018, p. 72.