

## FACULTY PROFILE



### Dr. Sunil Kumar Yadav

Ph.D. (Jointly, HBTU K & IIT Roorkee)  
Assistant Professor  
Department of Chemistry  
SRM Institute of Science and Technology,  
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### Professional Qualification:

Degree	Institute/Organization	Div.	Specialization	Year of Passing
Ph.D.	Jointly, <b>Harcourt Butler Technological Institute Kanpur</b> (Affiliated by Dr. A.P.J. Abdul Kalam Technical University Lucknow) & <b>Indian Institute of Technology, Roorkee (UK)</b>	-	Analytical Chemistry: Wastewater treatment	2016
M.Sc.	D.A.V. P.G. College (U.P. Govt.), Kanpur affiliated to C.S.J.M. University, Kanpur	1 <sup>st</sup> div	Chemistry (Chemical Science)	2007
B.Sc.	D.A.V. P.G. College(U.P. Govt.), Kanpur affiliated to C.S.J.M. University, Kanpur	1 <sup>st</sup> div	Chem, Botany	2005

**OTHERS:** 02 Months Vocational Training Course on “**Advance Analytical Chemistry**” from **Indian Institute of Technology, Kanpur**, 21 Sep. to 15 Nov. 2006.

### Publications (Journals & Conferences):

**Book: 01,**

**Book Chapters: 06**

<b>International Journals</b>	<ol style="list-style-type: none"><li>1. <b>Sunil Kumar Yadav</b>, Pallavi Jain, Wastewater Treatment Reclamation and Reuse, <i>The Green Revolution: Building Sustainable Solutions</i>, 2025, 348–361.</li><li>2. Pallavi Jain, <b>Sunil Kumar Yadav</b>, Strategies, Techniques and Advancement for Biomass Conversion: A Methodological Exploration, <i>The Green Revolution: Building Sustainable Solutions</i>, 2025, 608–630.</li><li>3. Anticancer and Antimicrobial Activities of Schiff Base Ligand and Their Co(II), Cu(II), and Zn(II) Transition Metal Complexes: An Overview, Manisha, Pallavi Jain, <b>Sunil Kumar Yadav</b> <i>Emerging Trends in Synthesis and Catalysis in Chemistry-Springer Nature</i>, 1, 257-298, <b>2024</b></li></ol>
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4. Comparison of Production and Physicochemical Properties of Vetiver Essential Oil Extracted from Conventional and Modified Conventional Hydrodistillation Methods from Vetiver Roots,  
Brahm Kumar Tiwari , Pankaj Kumar Pandey, **Sunil Kumar Yadav\***  
**African Journal of Biological Sciences, 6(7) , 2024.**
5. Review on Chemical Composition of Essential Oil Extracted From Aromatic Plants by Hydrodistillation and Steam Distillation,  
Akanksha Yadav , Ashok Kumar Ranjan , **Sunil Kumar Yadav**  
**Eur. Chem. Bull., 12( Special Issue 8),1581-1600, 2023. IF: 0.247**
6. Response Surface Optimization Of Banana (Musa Sp.) Fruit Juice Clarification Using Multi-Enzyme System(Pectinase, Cellulase And Hemicellulase)  
Ravi Kumar\*, Alak Kumar Singh, **Sunil Kumar Yadav**, Mahendra Kumar  
**Journal of Namibian Studies, 35, 33-48, 2023.**
7. Adsorption Studies of Pb(II) from aqueous solution by using modified date palm trunk.  
M. Pandey, B.K.Tiwari, A.Sharma, F.K. Pandey and **S.K. Yadav**  
**International Journal of Advanced Research, 5(1), 517-525, 2017**
8. Adsorptive removal of Hg (II) from synthetic and real aqueous solutions using modified papaya seed  
**Sunil Kumar Yadav**, Dhruv Kumar Singh, Shishir Sinha  
**Journal of Dispersion Science and Technology 37 (11), 1613-1622, 2016. IF: 2.057**
9. Chromium (VI) removal from aqueous solution and industrial wastewater by modified date palm trunk  
**Sunil Kumar Yadav**, Shishir Sinha, Dhruv Kumar Singh  
**Environmental Progress & Sustainable Energy 34 (2), 452-460, 2015. IF: 2.824**
10. Efficient removal of Cr(VI) from aqueous solution onto palm trunk charcoal: kinetic and equilibrium studies  
**Sunil Kumar Yadav**, Arvind Dixit  
**Chemical Sciences Journal 7, (1-7), 2015. (OMICS- Los Angeles , USA)**
11. Storage Behaviour onto Mint Oil: Physicochemical Properties.  
CM Dixit, A Tiwari, **SK Yadav**, AK Dixit  
**Asian Journal of Chemistry 27 (3), 2015 IF: 0.158**
12. Chemical carbonization of papaya seed originated charcoals for sorption of Pb (II) from aqueous solution  
**Sunil Kumar Yadav**, Dhruv Kumar Singh, Shishir Sinha  
**Journal of Environmental Chemical Engineering 2 (1), 9-19, 2014. IF: 7.968**
13. Adsorption of Toxic Metal Ions from Aqueous Solutions by Modified Cellulosic Waste Material  
A Dixit, A Tiwari, **SK Yadav**  
**Asian Journal of Chemistry 25 (1), 2013 IF: 0.158**
14. Adsorption study of lead (II) onto xanthated date palm trunk: kinetics, isotherm and mechanism  
**Sunil Kumar Yadav**, Dhruv Kumar Singh, Shishir Sinha  
**Desalination and Water Treatment 51 (34-36), 6798-6807, 2013. IF: 1.273**
15. Removal of Lead (II) from aqueous solution using papaya seed carbon: characteristics and kinetics study  
**Sunil Kumar Yadav**, Dhruv Kumar Singh, Shishir Sinha  
**International J. of Chem. Environ. Engg. 4 (2), 127-136, 2013. (WARP- Malaysia)**

<p><b>National Journals :</b></p>	<ol style="list-style-type: none"> <li>Standardization of quality parameters in isolated essential oils of Mentha citrata of Indian origin: under varied geographical location AK Dixit, CM Dixit, <b>SK Yadav</b>, A Tewari <b>Journal of Pharmacognosy and Phytochemistry 3 (2), 119-121, 2014.</b></li> <li>A Review on Potential Usage of Modified Agro Waste Adsorbents for Binding Pb(II), Hg(II) &amp; Cr(VI) Ions from Aqueous Solutions M. Pandey, B.K. Tiwari, A. Sharma, <b>S.K. Yadav</b> <b>International Journal of Engineering Research &amp; Technology (IJERT), 6 (114-120) 2017.</b></li> </ol>
<p><b>International Conference Proceeding Papers : 03</b></p>	<ol style="list-style-type: none"> <li>Isotherm and Kinetic Studies for the removal of Hg(II) onto modified date palm trunk, International Conference on Modelling of Environmental and Water Resources Systems (ICMEWRS-2017), Kanpur, India, <b>March 24-26, 2017, Page 109-111.</b></li> <li>Kinetics, Isotherms And Mechanisms of Cr (VI) Adsorption onto Activated Date Palm Trunk (DPT), International Journal of Scientific Research Engineering &amp; Technology, EATHD-2015 Conference Proceeding at Shanti Institute of Technology, Meerut (U.P.) India, <b>Vol.2 pp142-147 (2015)</b></li> <li>Preparation, Characterization and Adsorption Mechanism of Pb(II) onto Chemically Modified Low-cost Adsorbent, Proceedings of Indian Chemical Engineering Congress-64th CHEMCON-2011 Bangalore Regional Centre Department of Chemical Engineering M S Ramaiah Institute of Technology Bangalore, <b>Vol.1pp. 285-288 (2011).</b></li> </ol>
<p><b>International Conference : 10</b></p>	<ol style="list-style-type: none"> <li>Standardization of Nagarmotha (Cyperus scariosus) Oil in order to develop Purity Parameters, Page 224, International Conference on Chemical and Biological, Sciences (ICCBS), <b>27 - 29 January, 2024</b>, Organized by Atma Ram Sanatan Dharma College (University of Delhi).</li> <li>Quality assessment of the essential oil of Eucalyptus Oil cultivated in Various Locations of India. L06, 101, 8th International conference <b>ICRAS- 2024 on 14 -15 March, 2024</b>, Organized by Applied Science, Invertis University, Bareilly.</li> <li>Wastewater Treatment Reclamation and Reuse, OP-64, 3rd International Conference on Recent Trends in Environment and Sustainable Development (<b>RTESD</b>) <b>22-24 Dec. 2023</b>, Organized by Department of Science, Vivekananda Global University, Jaipur.</li> <li>2nd Biennial International Symposium on Fluids and Thermal Engineering on "Scientific and Technological Advances in Materials for Energy Storage and Conversions" organized by Department Of Mechanical Engineering, Amity School of Engineering &amp; Technology, Noida on <b>20 - 21 July 2023 (FLUTE-2023),</b></li> <li>A Comparative Study of Chemical Composition and Yield of Essential Oils Obtained by Hydrodistillation and Steam Distillation of Vetiver Roots, 2<sup>nd</sup> International Online Conference On "Emerging Trends In Chemical Science" (E.T.C.S-23) <b>March 17-18<sup>th</sup>, 2023.</b></li> <li>Study of Yield and constituents of the Essential oil of Vetiver wild and cultivated in Bundelkhand region, 4<sup>th</sup> International Conference Recent Advances In Science (ICRAS-2020), Invertis University Bareilly, <b>February 28-29, 2020.</b></li> <li>Extraction of Hg(II) from Industrial Effluents by Modified Jackfruit Leaves, 3<sup>rd</sup> International Conference Recent Advances In Science (ICRAS-2019), Invertis University Bareilly, <b>March 01-02, 2019</b></li> <li>Adsorption Mechanism Hg(II) from Synthetic Solution and Industrial wastewater by using Modified Grass, 2<sup>nd</sup> International Conference Recent Advances In Science (ICRAS-</li> </ol>

	<p>2018), Invertis University Bareilly, <b>March 09-10, 2018.</b></p> <p>9. Adsorption &amp; Desorption of Pb(II) Ions from Aqueous Solution onto Chemical Carbonization of Lawny Grass Originated Charcoal, Conference on Futuristic Materials &amp; Emerging Trends in Chemical Sciences (ICOFMAETICS-2016), D.B.S. College, affiliated: C.S.J.M. University, Kanpur, <b>February 8-10, 2016.</b></p> <p>10. Preparation and utilization of Xanthated Banana Trunk For the Removal of Hg(II): Kinetics, Isotherm and Mechanism, Conference on Health, Environment &amp; Industrial Biotechnology, Motilal Nehru National Institute Technology, Allahabad, <b>November 21-23, 2013.</b></p>
<b>National Conference: 03</b>	<p>1. National Conference on Advances in Chemistry for Sustainable Development (ACSD-2017), Department of Chemistry &amp; Mechanical Engineering, H.B. Technical University, Kanpur. <b>March 22-23, 2017.</b></p> <p>2. Adsorption of Toxic Metals (Pb &amp; Cr) From Wastewater onto Vegetable Waste Biomass, Conference on Green Chemistry: An Approach To Meet The Challenges of Sustainability (GCMS-2011), Department of Chemistry, M.M.H., College Ghaziabad (UP), <b>Jan 22-23, 2011.</b></p> <p>3. Low cost Adsorbents for the Removal of Lead (II) From Contaminated Waters: Review, Seminar on Introduction To Green Chemistry Education: Theory and Practice, Department of Chemistry, V.S.S.D. College, Kanpur, <b>October 22-23, 2010.</b></p>

### Awards and Achievements

Name of Award/Honor	Name of Awarding Body
1. 1 <sup>st</sup> Position for Oral Presentation	4 <sup>th</sup> International Conference Recent Advances in Science (ICRAS- 2020), Invertis University Bareilly, Feb. 2020.
2. Reviewer Award	Journal of Environmental Chemical Engineering (IF 7.7): Elsevier, Nov. 2015
3. 1 <sup>st</sup> Honour's & distinction in 05 Subjects 10 <sup>th</sup> Board Exam -1998	Superintendent of Police (S.P.), Fatehpur (U.P.), Motivated with Rs.100/Monthly scholarship Award From 01.09.1998 to June 1999.

### Workshops/Seminars/FDPs

➤ Training/ Faculty Development Programmes (FDP) : 11

Name of the Programme	Organizer	No of Days
1. One week Nation e-Workshop on Innovation and Intellectual Property Right, <b>June 12-17, 2023</b>	CSIR_IMMT Bhubeneshwar	06
2. National Level One Week (6-days )Faculty Development Programme on Research Methodology from <b>24 to 29 June 2023</b>	Kamla Naharu Mahavidyalaya-Nagpur	06
3. 10 days FDP program on Step by Step to write A Good Research Papers dt <b>18-27 March 2023</b>	Research Foundation of India	10

4. Faculty Development Programme On Developing Healthy Work Culture Conducted by Curriculum Development Centre Department From 13-03-2023 to 17-03-2023	NITTTR Chandigarh Organized AICTE Recognized	05
5. FDP on Microbes' Potential to Bail Out the Energy Crisis December 15-20, 2022	HBTU Kanpur	06
6. A Faculty Development Programme on "Emerging Trends in Food and Bio-Process Industries". Feb. 6-11, 2017	Jointly by Department of Biochemical and Food Technology, H.B. Technical University, Kanpur.	
7. Faculty Development Programme on "Corrosion Control in Chemical and Allied Industries" Applied Research, Training and Education in Lipid Science Under TEQIP-II, World Bank Project, August 22-27, 2016.	Department of Oil and Paint Technology, H.B. Technical University, Kanpur.	06
8. Chemical Processing of Aromatic Plants & Its Quality Assessment, Training Programme, October 17-20, 2011.	MSME Technology Development Centre Fragrance and Flavour Development Centre, Kannauj India	04
9. Science Academics 'Lecture Workshop on Advances In Bio-Inorganic and Nano Chemistry, November 12-13, 2011.	Department of Chemistry D.A.V. P.G. College, Kanpur	02
10. Testing of Adulterating Materials in Food Items, Under TEQIP, World Bank, Govt. of India, March 2-4, 2009.	U.P. Textile Technology Institute, Kanpur	03
11. Modern Analytical Techniques for Research and Industry, Technical Education Quality Improvement Program (TEQIP, World Bank, Govt. Of India), November 10-14, 2008.	Department of Chemistry, H.B. Technical University, Kanpur (UP)	06

### Work Experience:

1. Assistant Professor	SRM Institute of Science and Technology, NCR Campus-Delhi, Ghaziabad (U.P.)	Sep 2022 to till date
2. Assistant Professor	Invertis University, Bareilly (U.P.)	Jan 2018 to July 2022
3. Lecturer (Contractual)	Harcourt Butler Technical University, Kanpur (U.P)	July 2014 to May 2017
4. Research (Ph.D.)	Jointly, HBTU Kanpur & IIT Roorkee (UK)	Jan 2009 to Jun 2014

### Responsibilities:

- **Lab-Incharge, Chemistry**, SRM Institute of Science and Technology, Delhi-NCR Campus Modinagar, Ghaziabad
- **Co-convener**: "3rd International Conference on Recent Advances in Science (ICRAS-2019)" dated on 1-2 March 2019 at Invertis University, Bareilly.
- **Question Paper Setter**: Ph.D. Entrance Examination-2017-18 and 2018-19, at Invertis University, Bareilly.

### Professional Memberships:

Life Member: **L 597**

Indian Desalination Association

Life Member: **L 16865**

The Indian Science Congress Association

Life Member: **LM 137499**

The Indian Society For Technical Education