

Curriculum Vitae

- 1. Name:** Dr. Vineet Kumar, *M.Phil., Ph.D.*
- 2. Designation:** **President**, Society for Green Environment, New Delhi, India
(<http://sgeindia.org/>)
- 3. Present Affiliation:** Department of Microbiology, School of Life Sciences,
Central University of Rajasthan,
Bandarsindri, Kishangarh Ajmer- 305817, Rajasthan, India
- 4. Contact No. & E-mails:** Mob: +91-9997478949; +91-9354778229
E-mail: drvineet.micro@gmail.com; vineet.way18@gmail.com
- 5. Specialization:** Environmental Microbiology and Biotechnology
- 6. Research Interest:** Bioremediation, Wastewater Treatment, Phytoremediation, Metagenomics, Environmental Monitoring, Biofuel and Bioplastic Production, and Waste Management



7. Web IDs

Researchgate	https://www.researchgate.net/profile/Vineet_Kumar55
Google Scholar	https://scholar.google.co.in/citations?user=4J7kizUAAAAJ&hl=en
Web of Science	https://publons.com/researcher/3548351/dr-vineet-kumar/
Loop (Frontier)	Loop Vineet Kumar (frontiersin.org)
ORCID	https://orcid.org/0000-0001-9536-7355
Scopus ID	https://www.scopus.com/authid/detail.uri?authorId=57220202594

8. Publication Record

Research/Review Articles/Editorial	Books	Book Chapters	Book series	Conference Proceeding Papers	Magazine articles	Impact Factor	Citations	h-index
43+	25+	52+	2+	4+	4+	216.5+	2015+	26

9. Academic Qualification:

Degree/Certificate	University/Institute	Year of Passing	Subject
Ph.D.	Babasaheb Bhimrao Ambedkar (A Central) University, Lucknow, Uttar Pradesh	2018	Environmental Microbiology
M.Phil.	Ch. Charan Singh University, Meerut, Uttar Pradesh	2012	Microbiology
M.Sc.	Ch. Charan Singh University, Meerut, Uttar Pradesh	2010	Microbiology
B.Sc.	Meerut College, Meerut, Uttar Pradesh	2008	Chemistry, Zoology, Botany
Intermediate (10+2)	UP Senior Secondary Board Allahabad, Uttar Pradesh	2005	Hindi, English, Physics, Chemistry, Biology

Ph.D. Thesis "[*Study of Bacterial Communities In Two Step Treatment Of Post Methanated Distillery Effluent By Bacteria And Constructed Wetland Plant Treatment System*](#)"

M.Phil. Thesis “*Isolation and Biochemical Characterization of MDR and ESBL Producing Pseudomonas aeruginosa from Clinical Samples and Its Sensitivity to Medicinal Plant Extracts*”

10. Research and Teaching Experience

- Works as **National Postdoctoral Fellow** in the Department of Microbiology, School of Life Sciences at **Central University of Rajasthan**, Ajmer, Rajasthan, India; [Mentor: Professor Pradeep Verma] (*19 December 2022 to continue*)
- Worked as **Assistant Professor** in the Department of Basic and Applied Science, School of Engineering and Sciences at **GD Goenka University**, Gurugram, Haryana, India (*On lien from 29 November 2022*)
- Worked as **Senior Project Associate** in the Waste Re-processing Division at **CSIR-National Environmental Engineering Research Institute, Nagpur (CSIR-NEERI)**, Nagpur, Maharashtra, India (*November 12, 2021 to April 30, 2022*)
- Worked as **Assistant Professor (Ad-hoc)** in the Department of Botany at **Guru Ghasidas Vishwavidyalaya (A Central University)**, Bilaspur-495009, Chhattisgarh (*January 27, 2021, to November 11, 2021*)
- Worked as **Assistant Professor (Contract)** in the Department of Microbiology and Biotechnology at **Vinayak Vidyapeeth**, Meerut, Affiliated to Ch. Charan Singh University, Meerut, Uttar Pradesh (*18 August 2020 to January 22, 2021*)
- Worked as **Senior Research Fellow** at the School of Environmental Sciences, **Jawaharlal Nehru University (JNU)**, New Delhi (*April 02, 2019, to August 01, 2019*)
- Worked as **Guest Faculty** in the Department of Microbiology at **Dr. Shakuntala Misra National Rehabilitation University**, Lucknow, Uttar Pradesh (*September 01, 2018, to December 31, 2018*)

11. Fellowship

- Awarded **National Postdoctoral Fellowship (N-PDF)** by Science and Engineering Research Board (SERB), Government of India for pursue for his Doctoral Research Work for the year 2022-24, in the **Department of Microbiology at Central University of Rajasthan**, Rajasthan, India [F.No.: PDF/2022/000038]
- Awarded **Rajiv Gandhi National Fellowship (RGNF)** by “**University Grants Commission**”, Government of India (GOI), New Delhi for his **Doctoral Research Work** for the period October 08, 2012, to October 07, 2017, in the **Department of Environmental Microbiology at Babasaheb Bhimrao Ambedkar (Central) University**, Lucknow, India. [No. F1-17.1/2012-13/RGNF-2012-13-SC-UTT-30458/(SA-III/Website), February 28, 2013]

12. Competitive Exams Qualified at National Levels

Qualified “National Eligibility Test (NET: 2014)” conducted by “Agricultural Scientists Recruitment Board (ASRB)” of “Indian Council of Agricultural Research (ICAR)”, New Delhi, India.

13. Awards/Honors

[4]

- Awarded **Young Scientist Award-2018** in International Conference Organized by Agro-Environmental Development Society UP held at Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, Uttar Pradesh, India (**29 November 2018**)
- Awarded **3rd Prize for Best Poster Presentation** in 4th Lucknow Science Congress (LUSCON-2017) Organized by B.B. AU, Lucknow, Uttar Pradesh, India (**4 March 2017**)
- Awarded **Merit Certificate** for Best Academic Contribution by B.B. Ambedkar University, Lucknow, Uttar Pradesh, India (**2013**)

14. Membership of Professional Bodies

[6]

- Member of **Microbiology Society**, United Kingdom (*Membership No: C038680*)
- Life Member of **Association of Microbiologists of India (AMI)**, Lucknow, India (*Membership No: 3317-2013*)
- Life Member of **The Biotech Research Society (BRSI)**, India (*Membership No: LM1792*)
- Life Member of **Indian Science Congress Association (ISCA)**, Kolkata, India (*Membership No: L23148*)

15. Published Articles in SCI/Scopus Indexed Journals

[44]

44. Sabreena, Hassan, S., **Kumar, V.**, Bhat, S.A., Ganai, B.A., 2023. Unravelling the Microbes as Potential Proxies for Remediation of Heavy Metals and Pesticides Contamination: A State-of-the Art Review. **International Journal of Environmental Research**. (IF 3.2) (Accepted)
43. Cruza, I.A., Nascimento, V.R.S., Felisardo, R.J.A., dos Santos, A.M.G., de Jesus, A.A., de Vasconcelos, B.R., **Kumar, V.**, Cavalcanti, E.B., de Souza, R.L., Ferreira, L.F.R., 2023. Evaluation of artificial neural network models for predictive monitoring of biogas production from cassava wastewater: a training algorithms approach. **Biomass and Bioenergy** 175, 106869. <https://doi.org/10.1016/j.biombioe.2023.106869> (IF:6)
42. **Kumar, V.**, Bhat, S.A., Kumar, S., Verma, P., Badruddin, I.A., Américo Pinheiro, J.H.P., Sathyamurthy, R., Atabani, A.E., 2023. Tea byproducts biorefinery for sustainable energy production and value-added products development: A step toward environmental sustainability. **Fuel** 350, 128811. <https://doi.org/10.1016/j.fuel.2023.128811> (IF:7.4)
41. Vashishth, A., Tehri, N., Tehri, P., Sharma, A., Sharma, A.K., **Kumar, V.**, 2023. Unraveling the potential of bacterial phytases for sustainable management of phosphorous. **Biotechnology and Applied Biochemistry** 2023, 1-17. <https://doi.org/10.1002/bab.2466> (IF:2.8)
40. Gudeta, K., **Kumar, V.**[#], Bhagat, A., Julka, J.M., Bhat, S.A., Ameen, F., Qaqdri, H., Singh, S., Amarowicz, R., 2023. Ecological adaptation of earthworms to cope with plant polyphenols, heavy metals, and microplastics in the soil: A critical review. **Heliyon** e14572. <https://doi.org/10.1016/j.heliyon.2023.e14572> (IF: 4)
39. Sharma, U., Sharma, S., Rana, V.S., Rana, N., Kumar, V., Sharma, S., Qadri, H., **Kumar, V.**, Bhat, S.A., 2023. Assessment of microplastics pollution on soil health and eco-toxicological risk in horticulture. **Soil Systems** 7(1), 7. <https://doi.org/10.3390/soilsystems7010007>
38. **Kumar, V.***, Kumar, S., Pinê Américo-Pinheiro, J.H., Vinthange, M., Sher, F., 2023. Editorial: Emerging Approaches for Sustainable Management for Wastewater. **Frontiers in Environmental Science** 10:1122659. <https://doi.org/10.3389/fenvs.2022.1122659> (IF: 4.6)
37. Bhat, S.A., **Kumar, V.**, Kumar, S., Atabani, A.E., Štěpanec, L., Juchelková, D., 2023. Supercapacitors Production from Waste: A new window for sustainable energy and waste management. **Fuel** 337, 127125. <https://doi.org/10.1016/j.fuel.2022.127125> (IF:7.4)
36. Dey, S., Anand, U., **Kumar, V.***, Kumar, S., Ghoraj, M., Ghosh, A., Kant, N., Suresh, S., Bhattacharya, S., Bontempi, E., Bhat, S.A., Dey, A., 2023. Microbial strategies for degradation of microplastic generated from COVID-19 healthcare waste. **Environmental Research** 216, 114438. <https://doi.org/10.1016/j.envres.2022.114438> (IF: 8.3)
35. El Messaoudi, N., El Khomri, M., El Mouden, A., Bouich, A., Jada, A., Lacherai, A., Iqbal, H.M.N., Mulla, S.I., **Kumar, V.**, Pinê Américo-Pinheiro, J.H., 2022. Regeneration and reusability of non-conventional low-cost adsorbents to remove dyes from wastewaters in multiple consecutive adsorption-desorption cycles: a review. **Biomass Conversion and Biorefinery**. <https://doi.org/10.1007/s13399-022-03604-9> (IF: 4)
34. Dhanker, R., Rawat, S., Chandna, V., Deepa, Das, S., Sharma, A., **Kumar, V.***, Kumar, R., 2022. Recovery of silver nanoparticles and management of food wastes: obstacles and opportunities. **Environmental Advances** 9, 100303. <https://doi.org/10.1016/j.envadv.2022.100303>

33. Afsheen, N., Rafique, S., Rafeeq, H., Irshad, K., Hussain, A., Huma, Z., **Kumar, V.**, Bilal, M., Aleya, L., Iqbal, H.M.N., **2022**. Neurotoxic effects of environmental contaminants—measurements, mechanistic insight, and environmental relevance. **Environmental Science and Pollution Research**. <https://doi.org/10.1007/s11356-022-22779-2> (IF 5.8)
32. Mondal, M., **Kumar, V.**, Bhatnagar, A., Vithanage, M., Meers, E., Selvasembian, R., Ambade, B., Chaudhuri, P., Biswas, J.K., **2022**. Bioremediation of metal(loid) cocktail, struvite biosynthesis and plant growth promotion by a versatile bacterial strain *Serratia* sp. KUJM3: Exploring environmental co-benefits. **Environmental Research** **214**, 113937. <https://doi.org/10.1016/j.envres.2022.113937> (IF 8.3)
31. Hassan, S., Sabreena, Khurshid, Z., Bhat, S.A., **Kumar, V.**, Ameen, F., Ganai, B.A., **2022**. Marine Bacteria and omic approaches: A novel and potential repository for bioremediation assessment. **Journal of Applied Microbiology**. <https://doi.org/10.1111/jam.15711> (IF: 4)
30. Ugwu, E.I., Pinê Américo, J.H., Nwobia, L.I., Lam, S.S., **Kumar, V.**, Ikechukwu, E.L., Victor, E.C., **2022**. Optimisation of parameters in biomethanization process with co-digested poultry wastes and palm oil mill effluents. **Cleaner Chemical Engineering** **3**, 100033. <https://doi.org/10.1016/j.clce.2022.100033>
29. **Kumar, V.***, Agrawal, S., Bhat, S.A., Américo-Pinheiro, J.H.P., Shahi, S.K., Kumar, S., **2022**. Environmental impact, health hazards, and plant-microbes synergism in remediation of emerging contaminants. **Cleaner Chemical Engineering** **2**, 100030. <https://doi.org/10.1016/j.clce.2022.100030>
28. Sabreena, Hassan, S., Bhat, S.A., **Kumar, V.**, Ameen, F., Ganai, B.A., **2022**. Phytoremediation of heavy metals: An indispensable contrivance in green remediation technology. **Plants** **11**, 1255. <https://doi.org/10.3390/plants11091255> (IF 4.5)
27. Singh, S., Sunil Kumar Naik, T.S., Anil, A.G., Khasnabis, S., Nath, B., Uppara, B., **Kumar, V.**, Garg, V.K., Subramanian, S., Singh, J., Ramamurthy, P.C., **2022**. A Novel CaO nanocomposite crosslinked graphene oxide for Cr(VI) removal and sensing from wastewater. **Chemosphere** **301**, 134714. <https://doi.org/10.1016/j.chemosphere.2022.134714> (IF 8.8)
26. Wani, A.K., Akhtar, N., Naqash, N., Chopra, C., Singh, R., Kumar, **V., Kumar**, S. Mulla, S.I., Américo-Pinheiro, J.H.P., **2022**. Bioprospecting culturable and unculturable microbial consortia through metagenomics for bioremediation. **Cleaner Chemical Engineering** **2**, 100017. <https://doi.org/10.1016/j.clce.2022.100017>
25. Agrawal, S., **Kumar, V.**, Kumar, S., Shahi, S.K., **2022**. Plant development and crop protection using phytonanotechnology: a new window for sustainable agriculture. **Chemosphere** **299**, 134465. <https://doi.org/10.1016/j.chemosphere.2022.134465> (IF 8.8)
24. **Kumar, V.***, Bilal, M., Ferreira, L. F. R., **2022**. Editorial: Recent trends in integrated wastewater treatment for sustainable development. **Frontiers in Microbiology** **13**, 846503. <https://doi.org/10.3389/fmicb.2022.846503> (IF: 5.2)
23. Singh, S., Anil, A.G., Sunil K. Naik, T.S., Basavaraju, U., Khasnabis, S., Nath, B., **Kumar, V.**, Singh, J., Subramanian, S., Ramamurthy, P.C., **2022**. Mechanisms and kinetics of Cr(VI) adsorption on carbon derived from *Citrobacter freundii* under different pyrolysis temperatures. **Journal of Water Process Engineering** **47**, 102723. <https://doi.org/10.1016/j.jwpe.2022.102723> (IF: 7)
22. Dhanker, R., Kumar, R., Tiwari, A., **Kumar, V.**, **2022**. Diatoms as a biotechnological resource for the sustainable biofuel production: a state-of-the-art review. **Biotechnology and Genetic Engineering Reviews** **38**(1), 111-131. <https://doi.org/10.1080/02648725.2022.2053319> (CiteScore 8.1)

21. Hitkari, G., Chowdhary, P., **Kumar, V.**, Singh, S., Motghare, A. **2022**. Potential of copper-zinc oxide nanocomposite for photocatalytic degradation of Congo Red dye. **Cleaner Chemical Engineering** 1, 100003. <https://doi.org/10.1016/j.clce.2022.100003>
20. **Kumar, V.***, Ameen, F., Islam, M.A., Agrawal, S., Motghare, A., Dey, A., Shah, M.P., Américo-Pinheiro, J.H.P., Singh, S., Ramamurthy, P.C., **2022**. Evaluation of cytotoxicity and genotoxicity effects of refractory pollutants of untreated and biomethanated distillery effluent using *Allium cepa*. **Environmental Pollution** 300, 118975. <https://doi.org/10.1016/j.envpol.2022.118975> (IF: 8.9)
19. **Kumar, V.***, Agrawal, S., Shahi, S.K., Motghare, A., Singh, S., Ramamurthy, P.C., **2022**. Bioremediation potential of newly isolated *Bacillus albus* strain VKDS9 for decolourization and detoxification of biomethanated distillery effluent and its metabolites characterization for environmental sustainability. **Environmental Technology & Innovation** 26, 102260. <https://doi.org/10.1016/j.eti.2021.102260> (IF: 7.1)
18. Aguiar, M.M., Wadt, L.C., Vilar, D.S., Hernández-Macedo, M.L., **Kumar, V.**, Monteiro, R.T.R., Mulla, S.I., Bharagava, R.N., Iqbal H.M.N., Bilal, M., Ferreira, L.F.R., **2022**. Vinasse Bio-Valorization for enhanced production of protein-rich biomass and exopolysaccharides from *Pleurotus Strains*. **Biomass Conversion and Biorefinery**. <https://doi.org/10.1007/s13399-021-02198-y> (IF: 4)
17. Américo-Pinheiro, J.H.P., Paschoa, C.V.M., Salomão, G.R., Cruz, I.A., Isique, W.D., Ferreira, L.F.R., Sher, F., Torres, N.H., **Kumar, V.**, Pinheiro, R.S.B., **2022**. Adsorptive remediation of naproxen from water using in-house developed hybrid material functionalized with iron oxide. **Chemosphere** 289, 133222. <https://doi.org/10.1016/j.chemosphere.2021.133222> (IF 8.8)
16. Amith, A., Sukanya, R., Subramanian, S., **Kumar, V.**, Ramamurthy, P., **2021**. Chromium (VI) detection by microbial carbon dots: Microwave synthesis and mechanistic study. **Journal of Basic Microbiology** 62(3-4),455-464. <https://doi.org/10.1002/jobm.202100394> (IF: 3.1)
15. Singh, S., Anil, A.G., Khasnabis, S., Kumar, V., Nath, B., Sunil Kumar Naik, T.S., Subramanian, S., **Kumar, V.**, Singh, J., Ramamurthy, P.C., **2021**. Sustainable removal of Cr(VI) using graphene oxide-zinc oxide nanohybrid: Adsorption kinetics, isotherms, and thermodynamics. **Environmental Research** 203, 111891. <https://doi.org/10.1016/j.envres.2021.111891> (IF 8.3)
14. **Kumar, V.**, Srivastava, S., Thakur, I.S., **2021**. Enhanced recovery of polyhydroxyalkanoates from secondary wastewater sludge of sewage treatment plant: Analysis and process parameters optimization. **Bioresource Technology Reports** 15, 100783. <https://doi.org/10.1016/j.biteb.2021.100783> (CiteScore 3.8)
13. **Kumar, V.***, Shahi, S.K., Ferreira, L.F.R., Bilal, M., Biswas, J.K., Bulgariu, L., **2021**. Detection and characterization of refractory organic and inorganic pollutants discharged in biomethanated distillery effluent and their phytotoxicity, cytotoxicity, and genotoxicity assessment using *Phaseolus aureus* L. and *Allium cepa* L. **Environmental Research** 201, 111551. <https://doi.org/10.1016/j.envres.2021.111551> (IF 8.3)
12. Agrawal, N., **Kumar, V.**, Shahi, S.K., **2021**. Biodegradation and detoxification of phenanthrene in in vitro and in vivo conditions by a newly isolated ligninolytic fungus *Corioloropsis byrsina* strain APC5 and characterization of their metabolites for environmental safety. **Environmental Science and Pollution Research** 29, 61767–61782. <https://doi.org/10.1007/s11356-021-15271-w> (IF 5.8)
11. **Kumar, V.***, Ferreira, L.F.R., Sonkar, M., Singh, J. **2021**. Phytoextraction of heavy metals and ultrastructural changes of *Ricinus communis* L. grown on complex organometallic sludge discharged from alcohol distillery. **Environmental Technology & Innovation** 22, 101382. <https://doi.org/10.1016/j.eti.2021.101382> (IF 7.1)
10. Singh, S., Dhanjal, D.S., Bhardwaj, S., Sharma, S.G., Kumar, V., Datta, S., **Kumar, V.**, Kumar, M., Singh, J., **2020**. An insight in bacteriophage-based biosensors with focus on their detection methods and recent

- advancements. **Environmental Technology & Innovation** 20, 101081. <https://doi.org/10.1016/j.eti.2020.101081> (IF 7.1)
9. **Kumar, V.,** Chandra R., 2020. Metagenomics analysis of rhizospheric bacterial communities of *Saccharum arundinaceum* growing on organometallic sludge of sugarcane molasses-based distillery. **3 Biotech** 10, 316. <https://doi.org/10.1007/s13205-020-02310-5> (IF 2.8)
 8. **Kumar, V.,** Thakur, I.S., 2020. Extraction of lipids and production of biodiesel from secondary tannery sludge by in situ transesterification. **Bioresource Technology Reports** 11, 100446. <https://doi.org/10.1016/j.biteb.2020.100446> (CiteScore 3.8)
 7. **Kumar, V.,** Thakur, I.S., 2020. Biodiesel production from transesterification of *Serratia* sp. ISTD04 lipids using immobilised lipase on biocomposite materials of biomineralized products of carbon dioxide sequestering bacterium. **Bioresource Technology** 307, 123193. <https://doi.org/10.1016/j.biortech.2020.123193> (IF 11.4)
 6. **Kumar, V.,** Chandra, R., 2018. Characterization of manganese peroxidase and laccase producing bacteria capable for degradation of sucrose glutamic acid-maillard products at different nutritional and environmental conditions. **World Journal of Microbiology & Biotechnology** 34, 32. <https://doi.org/10.1007/s11274-018-2416-9> (IF 4.1)
 5. Chandra, R., **Kumar, V.,** Tripathi, S., 2018. Evaluation of molasses-melanoidins decolorisation by potential bacterial consortium discharged in distillery effluent. **3 Biotech** 8,187. <https://doi.org/10.1007/s13205-018-1205-3> (IF 2.8)
 4. Chandra, R., **Kumar, V.,** Tripathi, S., Sharma, P., 2018. Heavy metal phytoextraction potential of native weeds and grasses from endocrine-disrupting chemicals rich complex distillery sludge and their histological observations during in-situ phytoremediation. **Ecological Engineering** 111, 143-156. <https://doi.org/10.1016/j.ecoleng.2017.12.007> (IF: 3.8)
 3. Chandra, R., **Kumar, V.,** 2017. Detection of androgenic-mutagenic compounds and potential autochthonous bacterial communities during in-situ bioremediation of post methanated distillery sludge. **Frontiers in Microbiology** 8, 87. <https://doi.org/10.3389/fmicb.2017.00887> (IF: 5.2)
 2. Chandra, R., **Kumar, V.,** 2017. Detection of *Bacillus* and *Stenotrophomonas* species growing in an organic acid and endocrine-disrupting chemicals rich environment of distillery spent wash and its phytotoxicity. **Environmental Monitoring and Assessment** 189, 26. <https://doi.org/10.1007/s10661-016-5746-9> (IF: 3)
 1. Chandra, R., **Kumar, V.,** 2017. Phytoextraction of heavy metals by potential native plants and their microscopic observation of root growing on stabilised distillery sludge as a prospective tool for *In-situ* phytoremediation of industrial waste. **Environmental Science and Pollution Research** 24, 2605-2619. <https://doi.org/10.1007/s11356-016-8022-1> (IF 5.8)

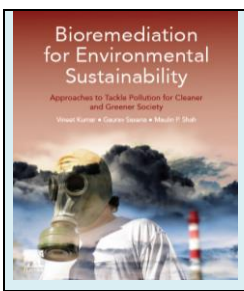
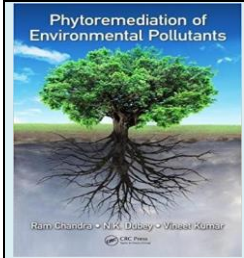
*Corresponding author; #Equal contribution

16. Books Published (Authored/Edited)

[14]

Book	Book Details
	<p>Title: Genomics Approach to Bioremediation: Principles, Tools, and Emerging Technologies Editors: <u>V. Kumar</u>, M. Bilal, L.F. R. Ferreira, Hafiz. M.N. Iqbal Publisher: Wil ISBN: 9781119852100 Year of Publication: 2023 Publisher: Wiley; Pages: 560 https://onlinelibrary.wiley.com/doi/book/10.1002/9781119852131 Indexing:</p>
	<p>Title: Omics Insights in Environmental Bioremediation Editors: <u>V. Kumar</u>, I.S. Thakur Year of Publication: 2022 ISBN: 978-981-19-4320-1; Publisher: Springer Nature, Singapore; Pages: 702 https://link.springer.com/book/10.1007/978-981-19-4320-1 Indexing: Scopus</p>
	<p>Title: Environmental Management Technologies: Challenges and Opportunities Editors: P. Chowdhary, <u>V. Kumar</u>, S. Kumar, V. Hare Year of Publication: to be published in 2022 ISBN: 9781032145617 Publisher: CRC Press (Taylor and Francis Group) Pages: 352 Environmental Management Technologies: Challenges and Opportunities - (routledge.com) Indexing:</p>
	<p>Title: Microbial Technologies for Wastewater Recycling and Management: Recent Trends, Challenges and Perspectives Editors: <u>V. Kumar</u>, J. Singh Year of Publication: 2022; ISBN: 9781032137582 Publisher: CRC Press (Taylor and Francis Group); Pages: 368 https://www.routledge.com/Microbial-Technologies-for-Wastewater-Recycling-and-Management-Recent-Trends/KUMAR-Singh/p/book/9781032137582 Indexing: Scopus</p>
	<p>Title: Omics for Environmental Engineering and Microbiology Systems Editors: <u>V. Kumar</u>, V.K. Garg, S. Kumar, J.K. Biswas Year of Publication: 2022; ISBN: 9781032162836 Publisher: CRC Press (Taylor and Francis Group); Pages: 522 https://www.routledge.com/Omics-for-Environmental-Engineering-and-Microbiology-Systems/Kumar-Garg-Kumar-Biswas/p/book/9781032162836 Indexing: Scopus</p>
	<p>Title: Metagenomics to Bioremediation: Applications, Cutting Edge Tools, and Future Outlook Editors: <u>V. Kumar</u>, M. Bilal, S.K. Shahi, V.K. Garg Year of Publication: 2022 Publisher: Academic Press (Elsevier) USA ISBN: 9780323961134 Pages: 832 https://www.elsevier.com/books/metagenomics-to-bioremediation/kumar/978-0-323-96113-4 Indexing: Scopus</p>

	<p>Title: Integrated Environmental Technologies for Wastewater Treatment and Sustainable Development Editors: <u>V. Kumar</u>, M. Kumar Year of Publication: 2022 ISBN: 9780323911801; Publisher: Elsevier; Pages: 584 https://www.elsevier.com/books/integrated-environmental-technologies-for-wastewater-treatment-and-sustainable-development/kumar/978-0-323-91180-1 Indexing: Scopus</p>
	<p>Title: Phytoremediation Technology for the Removal of Heavy Metals and Other Contaminants from Soil and Water Editors: <u>V. Kumar</u>, M.P. Shah, Sushil Kumar Shahi Year of Publication: 2022 ISBN: 9780323857635; Publisher: Elsevier Pages: 664 https://www.elsevier.com/books/phytoremediation-technology-for-the-removal-of-heavy-metals-and-other-contaminants-from-soil-and-water/kumar/978-0-323-85763-5 Indexing: Scopus</p>
	<p>Title: Recent Advances in Distillery Waste Management for Environmental Safety Authors: <u>V. Kumar</u>, P. Chowdhary, and M.P. Shah Year of Publication: 2021 Publisher: CRC Press (Taylor and Francis Group); ISBN: 9780367466015; Pages: 202 https://www.routledge.com/Recent-Advances-in-Distillery-Waste-Management-for-Environmental-Safety/Kumar-Chowdhary-Shah/p/book/9780367466015 Indexing:</p>
	<p>Title: New Trends in Removal of Heavy Metals from Industrial Wastewater Editors: M.P. Shah, S Rodriguez-Couto, <u>V. Kumar</u> Year of Publication: 2021; ISBN: 9780128229651 Publisher: Elsevier; Pages: 748 https://www.elsevier.com/books/new-trends-in-removal-of-heavy-metals-from-industrial-wastewater/shah/978-0-12-822965-1 Indexing:</p>
	<p>Title: Microbe-Assisted Phytoremediation of Environmental Pollutants: Recent Advances and Challenges Authors: <u>V. Kumar</u> and G. Saxena Year of Publication: 2020; ISBN: 9780367330576 Publisher: A K Peters/CRC Press, New York, UK; Pages: 216 https://www.routledge.com/Microbe-Assisted-Phytoremediation-of-Environmental-Pollutants-Recent-Advances/Kumar-Saxena/p/book/9780367330576 Indexing:</p>
	<p>Title: Bioremediation for Environmental Sustainability: Toxicity, Mechanisms of contaminants Degradation and Detoxification and Challenges. Editors: G. Saxena, <u>V. Kumar</u>, and M.P. Shah Year of Publication: 2020; ISBN: 9780128205259; Publisher: Elsevier; Pages: 692 https://www.sciencedirect.com/book/9780128205242/bioremediation-for-environmental-sustainability</p>

	<p>Title: Bioremediation for Environmental Sustainability: Approaches to Tackle Pollution for Cleaner and Greener Society Editors: <u>V. Kumar</u>, G. Saxena, and M.P. Shah Year of Publication: 2020; ISBN: 9780128203170; Publisher: Elsevier; Pages: 538 https://www.elsevier.com/books/bioremediation-for-environmental-sustainability/kumar/978-0-12-820318-7</p>
	<p>Title: Phytoremediation of Environmental Pollutants Editors: R. Chandra, N.K. Dubey, <u>V. Kumar</u> Year of Publication: 2017; ISBN: 9781138062603 Publisher: CRC Press (Taylor & Francis Group), UK Pages: 510 https://www.routledge.com/Phytoremediation-of-Environmental-Pollutants/Chandra-Dubey-Kumar/p/book/9780367572532</p>

17. Books (Under Publication)

[11]

Book	Book Detail
	<p>Title: Earthworm Technology in Organic Waste Management: Recent Trends And Advances Editors: H. Kui, S. A. Bhat, F. Li, <u>V. Kumar</u> Year of Publication: October 2024 ISBN: 9780443160509 Publisher: Elsevier Pages: In Press https://www.elsevier.com/books/earthworm-technology-in-organic-waste-management/978-0-443-16050-9</p>
<p>Image not Available</p>	<p>Title: Electronic Waste Management: Policies, Processes, Technologies, and Impact Editors: S. Kumar, <u>V. Kumar</u> Year of Publication: to be published in 2022 Publisher: Wiley Pages: In Press</p>
<p>Image not Available</p>	<p>Title: Solid Waste Management Treatment Technologies: Challenges and Perspectives Editors: P. Gautam, <u>V. Kumar</u>, S. Kumar, Year of Publication: to be published in 2023 Publisher: CRC Press (Taylor and Francis Group) Pages: In Press</p>
<p>Image not Available</p>	<p>Title: Environmental Nexus Approach: Management of Water, Waste, and Soil Editors: S. A. Bhat, <u>V. Kumar</u>, F. Li, F. Ameen, S. Kumar Year of Publication: to be published in 2023 Publisher: CRC Press (Taylor and Francis Group) Pages: In Press</p>
<p>Image not Available</p>	<p>Title: Microbial Nexus for Sustainable Wastewater Treatment: Resources, Efficiency, and Reuse Editors: <u>V. Kumar</u>, S. Kumar, P. Verma, S. A. Bhat Year of Publication: to be published in 2023 ISBN: 9781032528595 Publisher: CRC Press (Taylor and Francis Group) Pages: In Press</p>

Image not Available	<p>Title: Phytocapping Technology for Waste Management: Advances, Challenges, and Perspectives</p> <p>Editors: A. Khapre, V. Kumar, S. Kumar</p> <p>Year of Publication: to be published in 2023</p> <p>Publisher: CRC Press (Taylor and Francis Group)</p> <p>Pages: Agreement Signed</p>
Image not Available	<p>Title: Detection and Treatment of Emerging Contaminants in Wastewater</p> <p>Editors: S. A. Bhat, V. Kumar, F. Li, P. Verma</p> <p>Year of Publication: to be published in 2024</p> <p>Publisher: IWA Publishing</p> <p>Pages: Agreement Signed</p>
Image not Available	<p>Title: Environmental Engineering and Waste Management</p> <p>Editors: V. Kumar, S. A. Bhat, S. Kumar, P. Verma</p> <p>Year of Publication: to be published in 2024</p> <p>Publisher: Springer Nature</p> <p>Pages: Agreement Signed</p>
Image not Available	<p>Title: Recent Trends in Management and Utilization of Industrial Sludge</p> <p>Editors: V. Kumar, S. A. Bhat, P. Verma, S. Kumar,</p> <p>Year of Publication: to be published in 2024</p> <p>Publisher: Springer Nature</p> <p>Pages: Agreement Signed</p>
Image not Available	<p>Title: Management of Micro and Nano-plastics in Soil and Biosolids: Fate, Occurrence, Monitoring, and Remedies</p> <p>Editors: S.A. Bhat, V. Kumar, F. Li, S. Kumar</p> <p>Year of Publication: to be published in 2024</p> <p>Publisher: Springer Nature</p> <p>Pages: Agreement Signed</p>
Image not Available	<p>Title: Microbial Bioremediation and Multiomics Technologies for Sustainable Development: Recent Trends</p> <p>Editors: F. Ameen S.A. Bhat, V. Kumar</p> <p>Year of Publication: to be published in 2024</p> <p>Publisher: Royal Society of Chemistry Publisher</p> <p>Pages: Agreement Signed</p>

18. Book Series Editor

[2]

Image not Available	<p>Series Name: Environmental Nexus in Waste Management</p> <p>Series Editors: V. Kumar, Sunil Kumar</p> <p>Total Books in Series: Eight (8)</p> <p>Publisher: CRC Press (Taylor and Francis Group);</p> <p>https://www.routledge.com/Environmental-Nexus-in-Waste-Management/book-series/CRCENWM?fbclid=IwAR0p2f5VSEwdTUEm2kvXYId5Y-E4RhTm1qUFFTD3G195iN9d3VF96sAWra4</p>
Image not Available	<p>Series Name: Sustainable Environment and Waste Management</p> <p>Series Editors: V. Kumar, Sunil Kumar</p> <p>Total Books in Series: Twelve (12); Publisher: International Water Association, UK</p> <p>Pages: Agreement Completed</p>

53. Dey, S., Dey, A., Anand, U., **Kumar, V., 2023.** Anammox bacteria and their application in wastewater treatment plants. In *Ammonia Oxidizing Bacteria: Applications in Industrial Wastewater Treatment*, RSC (Proof Submitted)
52. **V. Kumar***, P. Verma, **2024.** Development of Smart nanomaterials from tea waste and their environmental applications: Recent advances, challenges, and perspectives. In *Smart Nanomaterials for Environmental Applications*. Elsevier (In Press).
51. **V. Kumar***, P. Verma, **2024.** Recent trends in pulp and paper effluents based biorefinery for bioenergy and value-added products formation. In *Biorefinery of Industrial Effluents for a Sustainable Circular Economy*. Elsevier (In Press).
50. M. Saharia, G. Dey, **V. Kumar, 2024.** Vermiremediation of plant agro waste to recover residual nutrients and improve crop productivity. In *Earthworm Technology in Organic Waste Management: Recent Trends And Advances*. Elsevier (In Press)
49. P. Biswas, S. Mandal, T. Das, S. Dey, M. Ghorai, S. Bhattacharya, A. Ghosh, P. Nongdam, **V. Kumar**, A. R. Al-Tawaha, E. Bursal, A. Dey, **2023.** Generation of biofuels from rice straw and its future perspectives. In *Green Approach to Alternative Fuel for a Sustainable Future*. Elsevier <https://doi.org/10.1016/B978-0-12-824318-3.00014-X>
48. S.A.Bomfim, D. da Silva Vilar, G.P. Barros, R. N.Bharagava, M. Bilal, **V. Kumar**, K.I.B. Eguiluz, L.F. R.Ferreira, **2023.** Oxidative catalytic potential of lignin-modifying enzymes in the treatment of emerging contaminants. In *Genomics to Bioremediation: Applications, Tools, and Emerging Technologies*. Wiley <https://doi.org/10.1002/9781119852131.ch22>
47. Biswas, P., Mandal, S., Das, T., Dey, S., Ghorani, M., Bhattacharya, S., Ghosh, A., Nongdam, P., **Kumar, V.**, Al-Tawaha, A.R., E. Bursal, Dey, A., **2023.** Generation of biofuels from rice straw and its future perspectives. In *Green Approach to Alternative Fuel for a Sustainable Future*. <https://doi.org/10.1016/B978-0-12-824318-3.00014-X> (In Press)
46. A.Sharma, S. Sharma, C.S. Singh, **V. Kumar, 2022.** Decontamination and management of industrial wastewater using microorganisms under aerobic condition. In *Omics Insights in Environmental Bioremediation*. Springer Nature. https://doi.org/10.1007/978-981-19-4320-1_9.
45. S. Mitra, M. Ghorai, **V. Kumar**, S. Mandal, N.K. Jha, M. Hoda, **2023.** Deciphering the Potential of RNAi technology as modulator of plant secondary metabolites with biomedical significance. In *Phytochemical Genomics*. Springer Nature. https://doi.org/10.1007/978-981-19-5779-6_24
44. S. Dey, U. Anand, S. Bhattacharya, **V. Kumar**, A. Dey, **2022.** Microbial community composition and function in activated sludge treatment systems. In *Omics Insights in Environmental Bioremediation*. Springer Nature https://doi.org/10.1007/978-981-19-4320-1_8.
43. S.Dey, M.S. Shekhawat, D.K.Pandey, M. Ghora, U. Anand, M. Hod, S. Bhattacharya, R. Bhattacharjee, A. Ghosh, Potshangbam Nongdam, **V. Kumar***, A. Dey. **2022.** Microbial community and their role in bioremediation of polluted e-waste sites. In *Metagenomics to Bioremediation: Applications, Cutting Edge Tools, and Future Outlook*. Elsevier <https://doi.org/10.1016/B978-0-323-96113-4.00006-8>
42. Arunraja.D, S. Ivo Romauld, P. Brindha Devi, S. Thiruvengadam, **V. Kumar, 2022.** Genetically engineered microbes for bioremediation and phytoremediation of contaminated environment. In *Metagenomics to Bioremediation: Applications, Cutting Edge Tools, and Future Outlook*. Elsevier <https://doi.org/10.1016/B978-0-323-96113-4.00039-1>
41. Bhuvaneshwari S, Illakiya Bharathi K, Mrs. Rajakumari, **V. Kumar, 2022.** Recent advances in bioremediation by metagenomics-based approach for pharmaceutical derived pollutants. In *Metagenomics to Bioremediation: Applications, Cutting Edge Tools, and Future Outlook*. Elsevier <https://doi.org/10.1016/B978-0-323-96113-4.00012-3>
40. A. Khan, S. Malik, N. Ali, M.Bilal, Y.Yang, M.S. Akhter, **V. Kumar**, H.M.N. Iqbal, **2022.** Polymer nanocomposites for wastewater treatment. In *Environmental Management Technologies: Challenges and Opportunities*. CRC Press. <https://doi.org/10.1201/9781003239956-18>

39. A.S. Chauhan, A. Kumar, K. Parmar, **V. Kumar**, 2022. Microbial ecology of wastewater treatment processes: Trends, challenges, and perspectives. In *Omics Insights in Environmental Bioremediation*. Springer Nature. https://doi.org/10.1007/978-981-19-4320-1_13
38. J.K.Biswas,M. Mondal, **V. Kumar**, M.Vithanage, R.Selvasembian, B. Ambade, M. Kumar, L. Singh, 2022. Omics reflection on the bacterial escape from the toxic trap of metal(loid)s: Cracking the code of contaminants stress, resistance repertoire, and remediation. In *Omics for Environmental Engineering and Microbiology Systems*. CRC Press. <https://doi.org/10.1201/9781003247883-16>
37. S. Mitra, M.Ghorai, U.Anand, S.Nandy, R.Sanyal, A.Rahman Al-Tawaha, N. K. Jha, **V.Kumar**, Potshangbam Nongdam et al., 2022. Gibberellins' cross talk and signal transduction in plant stress response. In *Auxins, Cytokinins and Gibberellins Signaling in Plants, Signaling and Communication in Plants*. Springer Nature. https://doi.org/10.1007/978-3-031-05427-3_10
36. N. Sharma, S. Shukla, K. Shukla, A. Varma, **V. Kumar**, Menaka D. Salam, A Mishra, 2022. Recent advancements in microbial degradation of xenobiotic by using proteomics approaches. In *Omics for Environmental Engineering and Microbiology Systems*. CRC Press <https://doi.org/10.1201/9781003247883-9>.
35. S. Parethe. S, S. Ivo Romauld, P. Vivek S, S. Thiruvengadam, **V. Kumar**, 2022. Enzyme technology for remediation of contaminants in the environment. In *Omics Insights in Environmental Bioremediation*. Springer Nature. https://doi.org/10.1007/978-981-19-4320-1_6
34. J.K. Biswas, M.Mondal, **V.Kumar**, A. Bhatnagar, S. Biswas, M. Vithanage, 2022. Nature-inspired ecotechnological approaches towards recycling and recovery of resources from wastewater. In *Integrated Environmental Technologies for Wastewater Treatment and Sustainable Development*. Elsevier. <https://doi.org/10.1016/B978-0-323-91180-1.00025-9>
33. A.Khan, S.Malik, N.Ali, M. Bilal, F.Sher, **V.Kumar**, L.F.R. Ferreira, H.M.N. Iqbal, 2022. Treatment of pulp and paper industry waste effluents and contaminants. In *Nanotechnology in Paper and Wood Engineering*. Elsevier. <https://doi.org/10.1016/B978-0-323-85835-9.00018-0>
32. S. Agarwal, **V. Kumar**, S. Singh, S.K. Shahi, 2022. Gene mediated phytodetoxification of environmental contaminants. In *Phytoremediation Technology for the Removal of Heavy Metals and Other Contaminants from Soil and Water*. Elsevier. <https://doi.org/10.1016/B978-0-323-85763-5.00033-7>
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30. A.R.Bagheri, M.Zubair, **V. Kumar**, P.Bhatt, A.Roy, S.Ghotekar, M. Bilal, 2022. Metal organic frameworks for pesticides removal. In *Pesticides in Natural Environment: Sources, Health Risks, and Remediation*. <https://doi.org/10.1016/B978-0-323-90489-6.00017-3>
29. **V. Kumar**, 2021. Phytoremediation of Distillery Waste: Current scenario and future prospects. In *Bioremediation for Environmental Sustainability: Toxicity, Mechanisms of contaminants Degradation and Detoxification and Challenges*. Elsevier. <https://doi.org/10.1016/B978-0-12-820524-2.00014-6>
28. A. Kumar, G. Saxena, **V. Kumar**, 2021. Environmental Contamination, Toxicity Profile and Bioremediation Approaches for Treatment and Detoxification of Pulp Paper Industry Effluent. In *Bioremediation for Environmental Sustainability: Toxicity, Mechanisms of contaminants Degradation and Detoxification and Challenges*. Elsevier. <https://doi.org/10.1016/B978-0-12-820524-2.00015-8>
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- 25. V. Kumar,** K. Singh, M.P. Shah, **2021.** Advanced oxidation processes for complex wastewater treatment. In *Advance Oxidation Process for Industrial Effluent Treatment*. Elsevier. <https://doi.org/10.1016/B978-0-12-821011-6.00001-3> pp1-31
- 24. V. Kumar,** K. Singh, M.P. Shah, M. Kumar, **2021.** Phytocapping: An Eco-sustainable Green Technology for Pollution Control. In *Bioremediation for Environmental Sustainability: Approaches to Tackle Pollution for Cleaner and Greener Society*. Elsevier. <https://doi.org/10.1016/B978-0-12-820318-7.00022-8> pp481-491
- 23. V. Kumar,** A. Kaushal, K. Singh, M.P. Shah, **2021.** Phytoaugmentation Technology for Phytoremediation of Environmental Pollutants: Opportunities, Challenges and Future Prospects. In *Bioremediation for Environmental Sustainability: Approaches to Tackle Pollution for Cleaner and Greener Society*. Elsevier. <https://doi.org/10.1016/B978-0-12-820318-7.00016-2> pp329-381
- 22. S.S. Kumar,** A. Rai, R. Singh, **V. Kumar.** D.Kumar, J.Kumar, A.Kumar, S.K. Malyan, **2020.** Bioelectroremediation technologies in remediation of environmental pollutants: Challenges and future prospects. In *Bioremediation for Environmental Sustainability: Approaches to Tackle Pollution for Cleaner and Greener Society*. Elsevier <https://dx.doi.org/10.1016/B978-0-12-820318-7.00007-1> pp147-165
- 21. V. Kumar,** I.S.Thakur, A.K. Singh, M.P. Shah, **2020.** Application of metagenomics in remediation of contaminated sites and environmental restoration. In *Emerging Technologies in Environmental Bioremediation*. Elsevier. <https://doi.org/10.1016/B978-0-12-819860-5.00008-0> pp197-232
- 20. V. Kumar,** I.S.Thakur, M.P. Shah, **2020.** Bioremediation approaches for pulp and paper industry wastewater treatment: Recent advances and challenges. In *Microbial Bioremediation & Biodegradation*. Springer Nature. https://doi.org/10.1007/978-981-15-1812-6_1 pp1-48
- 19. G. Saxena,** I. S. Thakur, **V. Kumar,** M.P. Shah, **2020.** Electrobioremediation of contaminants: Concepts, mechanisms, applications, and challenges. In *Combined Application of Physico-Chemical & Microbiological Processes for Industrial Effluent Treatment Plant*. Springer Nature. https://doi.org/10.1007/978-981-15-0497-6_14 pp291-313
- 18. V. Kumar,** R. Chandra, **2020.** Bacterial-assisted phytoextraction mechanism of heavy metals by native hyperaccumulator plants from distillery waste contaminated site for eco-restoration. In *Microbes for Sustainable Development and Bioremediation*. CRC Press, USA. pp.1-41. <https://doi.org/10.1201/9780429275876-1>
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- 16. V. Kumar,** R. Chandra, **2020.** Bioremediation of melanoidins containing distillery waste for environmental safety. In *Bioremediation of Industrial Waste for Environmental Safety: Volume II Microbes and Methods for Industrial Waste Management*. Springer Nature. pp_495-529. https://doi.org/10.1007/978-981-13-3426-9_20
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12. R. Chandra, **V. Kumar**, S. Tripathi, P. Sharma, **2018**. Phytoremediation of industrial pollutants and life cycle assessment. In *Phytoremediation of Environmental Pollutants*. CRC Press, pp.441-470
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10. R. Chandra, **V. Kumar**, **2018**. Phytoremediation: A green sustainable technology for industrial waste management. In *Phytoremediation of Environmental Pollutants*. CRC Press, pp.1-42
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8. **V. Kumar** and K. Singh, **2017**. Bacterial assisted phytoremediation: The Role of Plants and rhizosphere bacteria for remediation of Industrial Pollutants. In *Microbiology and Biotechnology for a Sustainable Environment*. Nova Science Publisher, New York, US pp.20-31
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6. R. Chandra, **V. Kumar**, **2016**. Persistent Organic Pollutants (POPs): Health Hazards and Challenges for their Bioremediation in Environment. In *Bioremediation of Industrial Pollutants*. Write and Print Publications, New Delhi, pp.1-51
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20. Research Articles Published in Conference Proceeding [4]

S. No.	Author(s)	Title	Name of Proceeding	ISBN	Page	Year
4.	R. Chandra and V. Kumar	Heavy metal phytoextraction potential of native plants and their histological observation growing on stabilized distillery sludge: A prospective tool for in-situ phytoremediation of hazardous industrial waste.	Proceeding of 106 th Indian Science Congress	---	pp. 68	2019
3.	V. Kumar , G. Saxena, R. Chandra, C. Singh	Degradation and Decolourisation of anaerobically Treated Distillery Effluent in Two-Stage Sequential Treatment By Bacteria and Constructed Wetland.	Proceeding of International Conference of Agro Environmental Developmental Society UP	978-93-88237-24-6	pp. 241-249	2018

2.	G. Saxena, C.P. Singh, V. Kumar, R.N. Bharagava	Isolation and characterization of bacteria capable for COD removal from tannery wastewater: A bioremediation study	Proceeding of International Conference of Agro Environmental Developmental Society UP	978-93-88237-24-6	pp. 278-282	2018
1.	R. Chandra, V. Kumar, Sonam Tripathi	Environmental Health Hazards of Post Methanated Distillery Waste and its Detoxification	In: Proceeding of 74th Annual Convention of STAI	81-85871-83-3	pp. 684-699	2016

21. Popular Science Articles in Hindi

[4]

Authors	Title	Science Magazine Publisher		Year
राम चन्द्रा एवम् विनीत कुमार	आसवनी अपशिष्ट एवं कागज उद्योग उत्स्राव के कारण पयावरण प्रदूषण तथा भारी धातुओं से खाद्य श्रंखला एवं औषधीय पौधो से मानव स्वास््य पर खतरा	ववषववज्ञान संदेि] आई0एस0एस0न0 0972&1746	पेज: 5361	2017
विनीत कुमार एवम् राम चन्द्रा	आसवनी अपशिष्ट को अनाँवसीकरत प्रक्रिया द्वारा िोधनोपरान्दत पयावरण मे सुरक्षात्मक ननस्तारण की चुनौतयाँ	ववषववज्ञान संदेि] आई0एस0एस0न0 0972&1746	पेज: 34&49]	2016
राम चन्द्रा विनीत कुमार सोनम त्रिपाठी एिम् पूजा शमाा	कागज कारखानों से उत्सर्जात ववषैले अपशिष्टों का पयावरण पर दुष्प्रभाव तथा सुरक्षात्मक ननस्तारण की चुनौतयाँ	ववषववज्ञान संदेि] आई0एस0एस0न0 0972&1746	पेज: 19&33]	2016
राम चन्द्रा एवम् विनीत कुमार	आसवनी अपशिष्ट एवं कागज उद्योग उत्स्राव के कारण पयावरण प्रदूषण तथा भारी धातुओं से खाद्य श्रंखला एवं मानव स्वास््य पर खतरा	ववषववज्ञान संदेि] आई0एस0एस0न0 0972&1746	पेज: 4&14]	2016

22. Conferences/Seminars/Symposia Attended

[9]

S. No.	Seminars/Symp./Workshops	National/ International	Organizer	Year
9.	106 th The Indian Science Congress	International	The 106th The Indian Science Congress, Kolkata	Jan 3-7, 2019
8.	Workshop on High Performance Liquid Chromatography(HPLC), Polymerase chain reaction (PCR), Gel Doc and Spectrometry organized by	National	CytoGene Research and Development, Lucknow, Uttar Pradesh, India	May 14-20 2018
7.	National Symposium on IPRs in Agricultural Research	National	Babasaheb Bhimrao Ambedkar University, and UPCAR Lucknow	August 31-31, 2017
6.	Workshop on “Placement and Employment Prospects in Indian Patent Offices and Hands on Training for Patenting the Research Work”	National	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, India	March 18, 2013
5.	Symposium on “Building an Ecologically Sustainable Society”	National	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, India	August 16, 2013
4.	Workshop on “Placement and Employment Prospects in Indian Patent Offices and Hands on Training for Patenting the Research Work”	National	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, India	March, 18, 2013
3.	International Conference on Environmental Technology and Sustainable Development: Challenges and Remedies	International	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh, India	Feb 21-23, 2014

2.	Ist Lucknow Science Congress on Innovations in Science for Better Tomorrow	National	Babasaheb Ambedkar University, Lucknow	March 20-21, 2013
1.	National Conference on Traditional Conservation of Plant Diversity and Energy Resources vis-à-vis Biotechnological Tools for Sustainability	National	Ch. Charan Singh University, Uttar Pradesh, India	Dec 25-26, 2010

23. Papers Presented (Oral/Poster) in Conferences/Workshop [8]

S. No.	Authors	Title of Presentation	Conference	Presentation	Organizer	Year
1.	V. Kumar, G. Saxena, R. Chandra	Degradation and Decolourisation of anaerobically Treated Distillery Effluent in Two-Stage Sequential Treatment By Bacteria and Constructed Wetland.	International Conference on Emerging Issues in Agricultural, Environmental, and Applied Sciences for Sustainable Development	Oral	Agro Environmental Developmental Society, UP	Nov 27-29, 2018
2.	R. Chandra, V. Kumar	Heavy metal Phytoextraction potential of native weeds and grasses from endocrine-disrupting chemical rich complex distillery sludge and their histological observations during in-situ phytoremediation	International Conference on Science and Technology for Sustainable Future	Poster	Babasaheb Ambedkar University Lucknow Uttar Pradesh, India	Jan 10-11, 2018
3.	V. Kumar and R. Chandra	Degradation and decolourisation of molasses-melanoidins by potential bacterial consortium extracted from anaerobic digested distillery effluent at different nutritional and environmental conditions.	International conference of AMI & International Symposium on Microbes for Sustainable Development: Scope & Applications	Oral	Babasaheb Ambedkar University Lucknow Uttar Pradesh, India	Nov 16-19, 2017
4.	V. Kumar, R. Chandra	Isolation and characterization of manganese peroxidase and laccase producing bacteria capable for degradation and decolourisation of sucrose-glutamic acid maillard products	4 th Lucknow Science Congress on Science Technology & Innovation for Sustainable Development	Poster	Babasaheb Ambedkar University Lucknow Uttar Pradesh, India	March 2-3, 2017

5.	V.Kumar, R.Chandra	Isolation, screening and characterization of MnP and laccase producing bacteria capable for degradation and decolourisation of sucrose-glutamic acid maillard products.	International conference of AMI & International Symposium on Microbes and Biosphere What's Next What's Next	Poster	University of Gauhati, Assam	Nov 24-27, 2016
6.	R.Chandra V.Kumar	Phytoextraction and bioremediation of heavy metals by potential native plants growing on post methanated distillery effluent sludge dumping sites.	International Conference on Emerging Trends in Biotechnology (ICETB 2014) & 11 th convention of The Biotech Research Society, India (BRSI)	Poster	Jawaharlal Nehru University, New Delhi	Nov 8-10, 2014
7.	R.Chandra V.Kumar	Characterization of antibiotic and heavy metal resistant bacteria isolated from the rhizosphere of native plant growing on distillery effluent methane reactor sludge dumping site	International Conference organized by Association of Microbiologist of India (AMI)	Poster	Tamil Nadu Agricultural University, Coimbatore	Nov 12-14, 2014
8.	R.Chandra V.Kumar	Environmental Health Hazards of Distillery Waste Water and Its Biodegradation of Environmental Safety	National Workshop on Innovation and Technology Transfer to Industries Role of Universities	Poster	Babasaheb Bhimrao Ambedkar University Lucknow Uttar Pradesh, India	March 10-11, 2014

24. Technical Reports:

Prepared a **Technical Recommendation Report** for the **International Conference** organized by **Association of Microbiologist of India (AMI)** held from Nov 16-19, 2017 at B. B. Ambedkar University, Lucknow, India

25. Professional Trainings Received

GIAN Course on **“Bioremediation for Environmental Sustainability”** organized by National Institute of Technology Karnataka and Ministry of Human Resource Development (MHRD), Govt on India held at National Institute of Technology Karnataka, Suratkal, Mangalore from 11-15 August 2018

26. Academic and Professional Skills

- Academic writing, editing and content organizational and drafting skill
- Basic knowledge of computer, MS office, Photoshop CS, Corel Draw, MEGA 7.0, Clustal W, and Internet
- Detail-oriented, self motivated and ability to prioritized varied workload
- Ability to work in team, positive attitude, and leadership quality

27. Research Activity and Key Skills

- Recovery of metagenomics DNA from contaminated environment
- Synthesis of Biodiesel from Industrial Sludge/Microbial Biomass
- Recovery of bioplastic from wastewater

- Enzyme purification and immobilization on solid support

28. Key Characterization Tools

- Internal, Surface Property, and Morphology-TEM, SEM, SEM-EDX
- Functional and Optical Property-FT-IR, ¹H & ¹³C NMR, UV-Vis Spectroscopy
- Chemical Characterization- GC-MS/MS, LC-MS/MS, HPLC
- Molecular and Phylogenetic Identification of Microbes:- BLAST (Blast N), MEGA 8.0, ClustalW

29. Expert Reviewer in Journals

[49]

S.No.	Name of Journal	S.No.	Name of Journal
1.	Vaccines (MDPI)	26.	Applied Biochemistry and Biotechnology (Springer)
2.	Applied Sciences (MDPI)	27.	Journal of Air & Waste Management Association (T&F)
3.	Agriculture (MDPI)	28.	Cleaner Chemical Engineering (Elsevier)
4.	Environmental Pollution (Elsevier);	29.	Environmental Technology (Wiley)
5.	Water Research (Elsevier)	30.	International Journal of Thermofluids (Elsevier)
6.	Journal of Basic Microbiology (Wiley)	31.	BioMed Research International (Hindawi)
7.	Environmental Research (Elsevier)	32.	Applied and Environmental Soil Science (Hindawi)
8.	Environmental Science and Pollution Research (Springer)	33.	Biomass Conversion and Biorefinery (Springer)
9.	Catalysis Letters (Springer)	34.	Fuel (Elsevier)
10.	Current Microbiology (Current Microbiology);	35.	International Journal of Environmental Research (Springer)
11.	Frontiers in Microbiology (Frontier);	36.	Bioprocess and Biosystem Engineering (Springer)
12.	Chemosphere (Elsevier)	37.	Journal of Hazardous Material Advances (Elsevier)
13.	Journal of Applied Microbiology (Wiley);	38.	Environmental Engineering and Management Journal
14.	Environmental Nanotechnology, Monitoring and Management (Elsevier)	39.	PlosOne (Plos)
15.	Clean-Soil, Air, Water (Wiley)	40.	Biotechnology and Genetic Engineering Review (T&F)
16.	Process Biochemistry (Elsevier)	41.	Achieve in Microbiology (Springer)
17.	Frontiers in Environmental Science (Frontier);	42.	Emergent Materials (Springer)
18.	International Journal of Environmental Science and Technology (Springer);	43.	Water (MDPI)
19.	Journal of Microbiology (Springer)	44.	Advances in Environmental and Engineering Research (LIDSEN Publishing)
20.	Biotechnology, and Food Sciences	45.	Sustainability (MDPI)
21.	Vegetos (Springer)	46.	Environmental Processes (Springer)
22.	Water, Air, & Soil Pollution (Springer)	47.	Environmental Sustainability (Springer)
23.	Journal of Food Chemistry & Nanotechnology	48.	Bioengineering (MDPI)
24.	United Scientific Group	49.	Antibiotics (MDPI)
25.	Environmental and Experimental Botany (Elsevier)	50.	Current Microbiology (Springer)

		51	Journal of Environmental Chemical Engineering
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30. Editorial Board Member

[11]

Associate Editor; Frontiers in Microbiology (Section: Microbiotechnology)
Review Editor; Frontiers in Microbiology (Section: Microbiotechnology)
Review Editor; Frontiers in Environmental Sciences (Section: Toxicology, Pollution and the Environment)
Review Editor; Frontiers in Water (Section: Environmental Water Quality)
Review Editor; Frontiers in Energy Research (Section: Bioenergy and Biofuels)
Review Editor; Frontiers in Material (Section: Biomaterials and Bioinspired Materials)
Review Editor; Frontiers in Environmental Chemistry (Section: Organic Pollutants)
Review Editor; Frontiers in Sustainability (Section: Waste Management)
Board Member; Current Research in Wastewater Management
Associate Editor; American Journal of Environmental Sciences
Board Member; SN Applied Sciences

31. Guest Edited Special Issues (SI)

[5]

Journal name: Fermentation, SI entitled: Recent advances and trends in the recovery of value-added products and bioenergy from biomass by-products; Publisher: MDPI

Journal Name: Frontiers in Cellular and Infection Microbiology, SI: entitled: **Evolution, Molecular Mechanisms and the Strategies to Combat Antimicrobial Resistance (AMR): A One Health Approach**; Publisher: Frontiers Media (June 1, 2023-onward)

<https://www.frontiersin.org/research-topics/55925/evolution-molecular-mechanisms-and-the-strategies-to-combat-antimicrobial-resistance-amr-a-one-health-approach>

Journal Name: SN Applied Sciences, SI entitled: **Earth and Environmental Sciences: Emerging Pollutants in Soil and Wastes**; Publisher: Springer Nature (April 2023-onward)

<https://link.springer.com/collections/adbifiahbb>

Journal Name: Frontiers in Environmental Science, SI entitled: **Emerging Approaches for Sustainable Management for Wastewater**, Publisher: Frontiers Media (2022)

<https://www.frontiersin.org/research-topics/31386/emerging-approaches-for-sustainable-management-for-wastewater>

Journal Name: Frontiers in Microbiology, SI entitled: **Recent Trends in Integrated Wastewater Treatment for Sustainable Development**, Publisher: Frontiers Media (2021).

<https://www.frontiersin.org/research-topics/20892/recent-trends-in-integrated-wastewater-treatment-for-sustainable-development>

32. Expert Reviewer of Book Proposals

Springer Nature, Singapore
Wiley
CRC Press (Taylor and Francis Group)
RSC Publisher
Elsevier Science

33. Student Guided

Undergraduate: 05 Post Graduate: 03

Declaration

I hereby declare that the above information furnished is true and correct to the best of my knowledge and belief.

Place: New Delhi

Date: July 4, 2023

(Dr. VINEET KUMAR)