

Publications of Dr. Vipin Kumar

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List of Research Publications in Refereed International and National Journals

SCI/SCIE

1. Gupta P., **Kumar V***, Rani R. and Chandra A. 2018. Potential applications of *Pseudomonas* sp. (strain CPSB21) to ameliorate Cr⁶⁺ stress and phytoremediation of tannery effluent contaminated agricultural soils. *Scientific Reports*. 8(1): 4860. (IF = 4.259). ISSN: 2045-2322.
2. Gupta P., **Kumar V***, Usmani Z., Rani R. and Chandra A. 2018. Phosphate solubilization and chromium (VI) remediation potential of *Klebsiella* sp. strain CPSB4 isolated from the chromium contaminated agricultural soil. *Chemosphere*. 192: 318-327. DOI: 10.1016/j.chemosphere. 2017.10.164. (IF = 4.208). ISSN: 0045-6535.
3. Chaturvedi A., Bhattacharjee S., Singh A K. and **Kumar V**. 2018. A new approach for indexing groundwater heavy metal pollution. *Ecological Indicators*. 87: 323-331. DOI: 0.1016/j.ecolind.2017.12.052. (IF = 3.898). ISSN: 1470-160X.
4. Besra M. and Kumar V*. 2018. In vitro investigation of antimicrobial activities of ethnomedicinal plants against dental caries pathogens. *3Biotech*. DOI: 10.1007/s13205-018-1283-. 8: 257. (IF = 1.361).
5. Usmani Z., **Kumar V***, Rani R., Gupta P. and Chandra A. 2018. Changes in physico-chemical, microbiological and biochemical parameters during composting and vermicomposting of coal flyash: A comparative study. *International Journal of Environmental Science and Technology*. DOI: 10.1007/s13762-018-1893-6. Accepted. (IF = 1.915).
6. Rani R., Usmani Z., Gupta P., Kumar V*, Chandra A. and Das A. 2017. Effects of organochlorine pesticides on plant growth-promoting traits of phosphate solubilizing rhizobacterium, *Paenibacillus* sp. IITISM08. *Environmental Science and Pollution Research*. 25(6), 5668-5680. DOI 10.1007/s11356-017-0940-z. (IF =2.74).
7. Ray M., Usmani Z., Chandra A., **Kumar V*** and Jain M. K. 2017. Bacterial diversity in mining and non-mining regions with emphasis on plant growth promoting traits. *Chemistry and Ecology*. 33(9): 826-842. DOI: 10.1080/02757540.2017.1389909. (IF = 1.463). ISSN: 0275-7540.
8. Pandey V., Usmani Z., Chandra A., Mishra R. K. and **Kumar V***. 2017. Environmental impact of leaching of trace elements from fly ash dumps on aquatic ecosystems. *Chemistry and Ecology*. 33(8): 777-794. DOI: 10.1080/02757540.2017.1376663. (IF = 1.463). ISSN: 0275-7540.
9. Gupta G., **Kumar V***. and Pal A.K. 2017. Microbial degradation of high molecular weight polycyclic aromatic hydrocarbons with emphasis on Pyrene. *Polycyclic Aromatic Compounds*. DOI: 10.1080/10406638.2017.1293696. (IF = 1.569). ISSN: 1040-6638.
10. Usmani Z. and **Kumar V***. 2017. Characterization, partitioning and potential ecological risk quantification of trace elements in coal fly ash. *Environmental Science and Pollution Research*. 24(18): 15547-15566. DOI: 10.1007/s11356-017-9171-6 (IF =2.76). ISSN: 0944-1344.
11. Kumar S., Hansd A., Chandra A., Kumar A., Kumar M., Sithambaresan A., Faizi S.H., **Kumar V**. and John R. P. 2017. Co(II), Ni(II), Cu(II) and Zn(II) complexes of acenaphthoquinone 3-(4-benzylpiperidyl)thiosemicarbazone: Synthesis, structural, electrochemical and

- antibacterial studies. DOI: 10.1016/j.poly.2017.05.055. *Polyhedron*. 134: 11-21. (IF =2.108). ISSN: 0277-5387.
12. Usmani Z. and **Kumar V***. 2017. Metal bioaccumulation in tissues of *Puntius sarana* and *Labeo rohita* and its associated risk status: A case study of Damodar River, India. DOI: 10.5004/dwt.2017.20719. *Desalination and Water Treatment*. 76: 196-211. (IF =1.272). ISSN: 1944-3994.
 13. Hansda A., **Kumar V***. and Anshumali. 2017. Cu-resistant *Kocuria* sp. CRB15: a potential PGPR isolated from the dry tailing of Rakha copper mine. DOI: 10.1007/s13205-017-0629-5. *3Biotech*. 7: 132. (IF = 1.361). ISSN: 2190-5738.
 14. Rani R. and **Kumar V***. 2017. Endosulfan Degradation by Selected Strains of Plant Growth Promoting Rhizobacteria. *Bulletin of Environmental Contamination and Toxicology*. 99:138-145. DOI: 10.1007/s00128-017-2102-x. (IF =1.412). ISSN: 0007-4861.
 15. Mritunjay S. K. and **Kumar V***. 2017. A study on prevalence of microbial contamination on the surface of raw salad vegetables. DOI: 10.1007/s13205-016-0585-5. *3Biotech*. 7: 13. (IF = 1.361). ISSN: 2190-5738.
 16. Singh M. K., Roy S., Hansda A., Kumar S., Kumar M., **Kumar V.**, Peter S. C., and John R. P. 2017. Synthesis, characterisation and antibacterial activity evaluation of trinuclear Ni(II) complexes with N-substituted salicylhydrazide ligands. DOI: 10.1016/j.poly.2017.01.019. *Polyhedron*. 126(2017): 100-110. (IF =2.108). ISSN: 0277-5387.
 17. Usmani Z. and **Kumar V***. 2017. Vermicomposting of Coal Fly ash using Epigeic and Epi-endogeic Earthworm Species: Nutrient Dynamics and Metal Remediation. DOI: 10.1039/c6ra329g. *RSC Advances*. 2017(7): 4876-4890. (IF =3.289).
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 21. Tripti, Kumar A., Usmani Z., **Kumar V.** and Anshumali. 2017. Biochar and fly ash inoculated with plant growth promoting rhizobacteria act as potential biofertilizer for luxuriant growth and yield of tomato plant. DOI: org/10.1016/j.jenvman.2016.11.060. *Journal of Environmental Management*. 190 (2017): 20-27. (IF = 4.010).
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 23. Besra M. and **Kumar V***. 2016. Antimicrobial Activity of Essential oils and Herbal Extracts against Etiological Agent of Dental Caries. *Journal of Essential Oil Bearing Plants*. DOI:10.1080/0972060X.2015.1029988. 19(7): 1807-1815. (IF = 0.493).
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28. Chandra A., **Kumar V***. and Jain M. K. 2015. The seasonal changes in soil properties due to coal mine impacts. *Carpathian Journal of Earth and Environmental Sciences*. 10(1): 241-248. (IF = 0.730).
29. Mukherjee, R., Sinha A., Lama Y. and **Kumar V.** 2015. Utilization of Zero Valent Iron (ZVI) Particles Produced from Steel Industry Waste for In-Situ Remediation of Ground Water Contaminated with Organo-Chlorine Pesticide Heptachlor. *International Journal of Environmental Research*. 9(1): 19-26. (IF = 1.8).

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35. Sen S. and **Kumar V.** 2016. Study on effectiveness of various soil amendments on soil properties, growth pattern of *Cajanus cajan* L. *Journal of Environmental Science and Engineering*. 58(2): 123-130. (H Index =22).
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46. **Kumar V.** 2014. Characterization, Bio-Formulation Development and Shelf-Life Studies of Locally Isolated Bio-Fertilizer Strains. *Octa Journal of Environmental Research*. 2(1): 32-37.
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