

Publications of Dr. Vipin Kumar

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List of Research Publications in Refereed International and National Journals

SCI/SCIE

1. Kushwaha B. K., Singh S., Tripathi D. K., Sharma S., Prasad S. M., Chauhan D K., **Kumar V.** and Singh V. P. 2018. New adventitious root formation and primary root biomass accumulation are regulated by nitric oxide and reactive oxygen species in rice seedlings under arsenate stress. Doi: 10.1016/j.jhazmat.2018.08.035. *Journal of Hazardous Materials*. (IF = 6.434). ISSN: 0304-3894.
2. 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. Doi: 10.1038/s41598-018-23322-5. *Nature Scientific Reports*. 8(1): 4860. (IF = 4.259). ISSN: 2045-2322.
3. 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.
4. 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.
5. 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).
6. 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).
7. 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).
8. 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.
9. 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.

10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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**).
19. Singh M., Kushwaha B. K., Singh S., **Kumar V.**, Singh V. P. and Prasad S. M. 2017. Sulphur alters chromium (VI) toxicity in *Solanum melongena* seedlings: Role of sulphur assimilation and sulphur-containing antioxidants. DOI: 10.1016/j.plaphy.2016.12.024. *Plant Physiology and Biochemistry*. 112(2017): 183-192. (**IF = 2.928**). ISSN: 0981-9428.
20. Mritunjay S. K. and **Kumar V***. 2017. Microbial quality, safety and pathogen detection using qPCR of raw salad vegetables sold in Dhanbad City, India. DOI:10.4315/0362-028X.JFP-16-223. *Journal of Food Protection*. 180(1): 121-126. (**IF =1.849**). ISSN: 0362-028X.
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22. 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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28. Tripti, Kumar A., **Kumar V.** and Anshumali. 2015. Effect of commercial pesticides on plant growth promoting activities of *Burkholderia* sp. Strain L₂ isolated from rhizosphere of *Lycopersicon esculentum* cultivated in agricultural soil. *Toxicological & Environmental Chemistry*. DOI: 10.1080/02772248.2015.1093632. 97(9): 1180-1189. **(IF = 0.825)**.
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34. Lothe A.G. Hansda A. and **Kumar V** (2016): Phytoremediation of Copper Contaminated Soil using *Helianthus annuus*, *Brassica nigra* and *Lycopersicon esculentum* Mill. : A Pot Scale Study. *Environmental Quality Management*. DOI: 10.1002/tqem.21463. 25(4): 63-70. **(H Index = 9)**.
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