

Publications of Dr. Vipin Kumar

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List of Research Publications in Refereed International and National Journals

1. Mritunjay S. K. and **Kumar V.** 2017. A study on prevalence of microbial contamination on the surface of raw salad vegetables. *3Biotech*. In Press. (IF =0.992). ISSN: 2190-5738.
2. 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).
3. 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.
4. 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.
5. Hansda A., **Kumar V.** and Anshumali. 2017. Influence of Cu fractions on soil microbial activities and risk assessment along Cu contamination gradient. DOI: 10.1016/j.catena.2016.12.003. *Catena*. 151 (2017): 26–33. (IF =2.612).
6. Tripti, Kumar A., Usmani Z., **Kumar V.** and Anshumali. 2017. Biochar and flyash inoculated with plant growth promoting rhizobacteria act as potential biofertilizer for luxuriant growth and yield of tomato plant. *Journal of Environmental Management*. 190 (2017): 20-27. (IF = 3.16).
7. 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 = 0.313).
8. **Kumar V.**, Chandra A. and Usmani Z. 2017. Impact of coal mining on soil properties and their efficient eco-restoration. *International Journal of Energy Technology and Policy*. DOI: 10.1504/IJETP.2017.10000607. 13(1-2): 158-165. (H Index =11).
9. Gupta P. and Kumar V. 2016. Value added phytoremediation of metal stressed soils using phosphate solubilizing microbial consortium. *World Journal of Microbiology and Biotechnology*. 33(1): 1-15. DOI :10.1007/s11274-016-2176-3. (IF =1.532).
10. Gupta G, **Kumar V.** and Pal A.K. 2016. Biodegradation of Polycyclic Aromatic Hydrocarbons by Microbial Consortium: A distinctive approach for decontamination of Soil. *Soil and Sediment Contamination: An International Journal*. 25(6): 597-623. DOI:10.1080/15320383.2016.1190311. (IF = 1.189).
11. Hansda A., **Kumar V.** and Anshumali. 2016. A comparative review towards potential of microbial cells for heavy metal removal with emphasis on Biosorption and Bioaccumulation. *World Journal of Microbiology and Biotechnology*. 32:170. DOI: 10.1007/s11274-016-2117-1. (IF =1.532).
12. Sen S. and **Kumar V.** 2016. Evaluating soil quality and bio-efficacy study of *Cajanus cajan* L. in coal-mine degraded land. *Turkish Journal of Agriculture and Forestry*. 40: 499-511. DOI: 10.3906/tar-1406-21. (IF = 1.311).

13. Usmani Z. and **Kumar V.** 2016. Management of Fly Ash through Vermicomposting: A Rational Approach. *Environmental Quality Management*. DOI: 10.1002/tqem.21461. 25(3): 53-66. **(H Index =9)**.
14. 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)**.
15. 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*. 25(4): 63-70. **(H Index = 9)**.
16. **Kumar V.**, Chandra A., Behera A. and Jain M. K. 2016. Adsorption kinetics and equilibrium studies of heavy metals removal using *Musa sapientum* stems - a low cost agro waste biosorbent. *Journal of Environmental Science and Engineering*. Accepted. **(H Index =19)**.
17. Chandra A., **Kumar V.** and Jain M. K. 2016. Impact of open cast coal mining on groundwater quality around Jharia coal field area, India. *Journal of Environmental Science and Engineering*. Accepted. **(H Index =19)**.
18. 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*. Accepted. **(H Index =19)**.
19. Chandra A., Kumar V. and Jain M. K. 2015. Seasonal Impacts studies of coal mining activities on surface water quality. *Indian Journal of Environmental Protection*. 35(12): 981-989. **(H Index =13)**.
20. 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)**.
21. 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)**.
22. Chandra A., Jain M. K. and **Kumar V.** 2015. Impacts of mine waste leachate on water quality in coal mining area with emphasis to heavy metals contamination. *Journal of Mines, Metals and Fuels*. 63(4): 104-108. **(H Index =7)**.
23. Hansda A., **Kumar V.** and Anshumali. 2015. Biosorption of Copper by Bacterial Adsorbents: A Review. *Research Journal of Environmental Toxicology*. 9(2): 45-58. DOI: 10:3923/rjet.2015.45.58. **(H Index =7)**.
24. Mritunjay S. K. and **Kumar V.** 2015. Fresh Produce Source of Pathogen: A Review. *Research Journal of Environmental Toxicology*. 9(2): 59-70. DOI: 10:3923/rjet.2015.59.70. **Thomson Reuters and SCOPUS Indexed (H Index =7)**.
25. Usmani Z. and **Kumar V.** 2015. Role of earthworms against metal contamination: A Review. *Journal of Biodiversity and Environmental Sciences*. 6(1): 414-427.
26. Sen S., **Kumar V.** and Sen P. 2014. Feasibility of *Cymbopogon citrates* (DC) Ex nees in revegetation of coal mine overburden dumps – A study. *Journal of Mines, Metals and Fuels*. 62(4): 96-104. **(H Index =7)**.
27. Hansda A., **Kumar V.** Anshumali and Usmani Z. 2014. Phytoremediation of heavy metals contaminated soil using plant growth promoting rhizobacteria (PGPR): A current perspective. *Recent Research in Science and Technology*. 6(1): 131-134.
28. Chandra A., Jain M. K. and **Kumar V.** 2014. Quality Index of Surface Water near Overburden Dumping Site in Coal Mining Area. *Mining Engineer's Journal*. 15(11): 18-22.

29. Chandra A., Jain M. K. and **Kumar V.** 2014. Impact Studies of Coal Mining on Microbiological Population in Soil at and around the coal Mines. *The Indian Mining & Engineering Journal*. 53(5): 26-29.
30. **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.
31. Sen S. and **Kumar V.** 2014. Reclamation of coal mine degraded land by revegetation of *Vigna unguiculata* L. with application of various soil amendments. *The Indian Mining and Engineering Journal*. 53(3): 27-31.
32. **Kumar V.** and Chandra A. 2013. Microbiological quality monitoring of raw eaten salad vegetables. *Int. J. Multidisciplinary Research*. 2(7): 25-28.
33. Mukherjee R., Kumar R., Lama Y., Sinha A. and **Kumar V.** 2013. In-Situ remediation of Groundwater Contaminated by Heptachlor using Nano Iron particles Extracted from Steel Industry Waste (S-nZVI). *Int. J. Environmental Research & Development*. 3(6): 1-4.
34. Sen S. and **Kumar V.** 2012. The Effect of Different Soil Amendments on Growth of Mung bean (*Vigna Radiata* L.) in Coal Mine Overburden Dumps. *International Journal of Emerging Technology and Advanced Engineering*. 2(12): 264-270.
35. **Kumar V.** 2012. Incidence of *Salmonella* sp. and *Listeria monocytogenes* in Some Salad Vegetables which are eaten raw: A Study of Dhanbad City, India. *Int. J. Engg & Sci Res*. 2(10): 1437-1442.
36. **Kumar V.**, Gupta P. and Dwivedi S. 2012. Bio-efficacy of fly-ash based *Trichoderma* formulations against damping-off and root-rot diseases in tomato (*Lycopersicum esculentum*). *J. Ind. Phytopathology*. 65 (4): 404-405.
37. Tripti, **Kumar V.** and Anshumali. 2012. Phosphate Solubilizing Activity of Some Bacterial Strains Isolated from Chemical Pesticide Exposed Agriculture Soil. *Int. J. Engineering Research and Development*. 3(9): 01-06.
38. **Kumar V.**, Mishra R. K., Chandra A. and Gupta P. 2011. Incidence of β -lactamase producing gram-negative clinical isolates and their antibiotic susceptibility pattern: A case study in Allahabad. *Int. J. Res. in Pure and Applied Microbiol.* Universal Research Publications. 1(3): 36-39.
39. **Kumar V.** 2011. Genetically Modified Crops: Environmental Risk Assessment and Public Concern. *Int. Res. J. Shodh Prerak*. 1 (3):86-89.
40. **Kumar V.**, Dwivedi S., Mishra R. K and Gupta P. 2011. Bio-efficacy studies of local strain vs foreign strain of *Azotobacter chroococcum* inoculated in Brinjal. *New Agriculturist*. 22(2): 221-223.
41. **Kumar V.**, Dwivedi S., Mishra R. K and Gupta P. 2011. Comparative Bio-efficacy studies of Talc based *Trichoderma* spp. formulation in tomato. *Bioved*. 22(2): 161-263.
42. **Kumar V.**, Chandra A and Singh G. 2010. Efficacy of fly-ash based bio-fertilizers vs perfected chemical fertilizers in wheat (*Triticum aestivum*). *Int. J. Engg, Sc. and Technol*. 2(7): 31-35. DOI:10.4314/ijest.v2i7.63737.
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44. **Kumar V.**, Gupta P. and Chauhan U.K. 2009. Studies on shelf-life of fly-ash based *Rhizobium leguminosarum* formulation and its bio-efficacy in chickpea (*Cicer arietinum* L.). *J Microbial World*. 11 (1): 49-53.
45. **Kumar V.**, Gupta P. and Chauhan U.K. 2009. RAPD analysis of fly-ash based bio- fertilizers and bio-pesticides formulations. *An Int. J. The Bioscan*. 4 (2): 217-220.
46. **Kumar V.**, Gupta P, Dwivedi S. and Chauhan U.K. 2009. Comparative study on bio-efficacy of local strain of PSB vs commercial strain. *J. Microbial World*. 11 (1):104-106.

47. **Kumar V.** and Chauhan U. K. 2008. "Utilization of fly-ash as carrier for *Beauveria bassiana* based formulation" *An International J. The Ecoscan*. 2 (1): 107-109.
48. **Kumar V.** and Gupta P. 2008. Efficacy of fly-ash based *Rhizobium* inoculant on growth and incidence of powdery mildew in pea. *Annals Pl Protection Sc*. 16 (1): 248-249.
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