DR. M. L. DOTANIYA

Name: Dr M. L. Dotaniya

Designation: Scientist (SS)

Date of birth: 30/06/1982

Education: Ph. D. (Soil Science & Agricultural Chemistry)

Major Research area: Soil chemistry/Fertility/ Microbiology; Heavy Metal pollution & Remediation; Soil and Water Pollution; Phosphorus Dynamics; Carbon Sequestration; Crop Residue Management

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Professional Experience

Since 20th April, 2010, working as a Scientist in the Division of Environmental Soil Science, ICAR-IISS, Bhopal.

Awards

Young Scientist Award by Samgra Vikas Welfare Society-2016
Best Oral Paper Presentation Award by Search & Research Society- 2015

Publications (Ten best publications)

1. **Dotaniya M. L.,** Rajendiran S., Coumar M. Vassanda, Meena V. D., Saha J. K., Kundu S., Kumar A., Patra A. K. (2017). Interactive effect of cadmium and zinc on chromium uptake in spinach grown on Vertisol of Central India. Intl J Environ Sci Tech Doi10.1007/s13762-017-1396-x
2. **Dotaniya M. L.,** Meena V. D., Rajendiran S., Coumar M. Vassanda, Saha J. K., Kundu S., Patra A. K. (2017). Geo-accumulation indices of heavy metals in soil and groundwater of Kanpur, India under long term irrigation of tannery effluent. Bull Environ Contam Toxicol 98(5): 706-711 DOI:10.1007/s00128-016-1983-4
3. **Dotaniya M. L.,** Rajendiran S., Meena V. D., Saha J. K., Coumar M. Vassanda, Kundu S., Patra A. K. (2017). Influence of chromium contamination on carbon mineralization and enzymatic activities in Vertisol. Agric Res 6(1):91-96 DOI: 10.1007/s40003-016-0242-6
4. **Dotaniya M. L**., Datta S. C., Biswas D. R., Dotaniya C. K., Meena B. L., Rajendiran S., Regar K. L. (2016). Use of sugarcane industrial byproducts for improving sugarcane

productivity and soil health. Intl J Recyc Org Waste Agric 5:185–194 DOI: 10.1007/s40093-016-0132-8

5. **Dotaniya, M. L**., Datta, S. C., Biswas, D. R., Meena, H. M., Rajendiran S. and Meena, A. L. (2015). Phosphorus Dynamics mediated by Bagasse, Press mud and Rice straw in Inceptisol of North India. Agrochimica 59 (4):358-369.

6. **Dotaniya, M. L**., Das, H. and Meena, V. D. (2014). Assessment of chromium efficacy on germination, root elongation, and coleoptile growth of wheat (*Triticum aestivum* L.) at different growth periods. Environ Monit Assess 186:2957-2963. DOI 10.1007/s10661-013-3593-5
7. **Dotaniya, M. L**., Kushwah, S. K., Rajendiran, S., Coumar, M. V., Kundu, S. and Rao, A. Subba (2014). Rhizosphere effect of kharif crops on phosphatases and dehydrogenase activities in a Typic Haplustert. Natl Acad Sci Lett 37(2):103–106.DOI: 10.1007/s40009-013-0205-4

8. **Dotaniya, M. L**., Datta, S. C., Biswas, D. R. and Kumar, K. (2014). Effect of organic sources on phosphorus fractions and available phosphorus in Typic Haplustept. J Indian Soc Soil Sci 62(1):80-83.

9. **Dotaniya, M. L**., Datta, S.C. (2014). Impact of bagasse and press mud on availability and fixation capacity of phosphorus in an Inceptisol of north India. Sugar Tech 16(1):109-112. DOI 10.1007/s12355-013-0264-3

10. **Dotaniya, M. L**., Datta, S.C., Biswas, D.R. and Meena B.P. (2013). Effect of solution phosphorus concentration on the exudation of oxalate ions by wheat *(Triticum aestivum* L.). Proc Natl Acad Sci, India Sec B: Biol Sci 83(3):305–309. DOI 10.1007/s40011-012-0153-7