

REFERENCES

- Adams, F. 1981. Nutritional imbalances and constraints to plant growth on acid soils. *J. Plant Nutr.* 4:81–87.
- Aishwath, O.P., Coefficient of variation and correlation coefficient in underground water quality parameters in and adjoining municipal area of Boriavi, Gujrat, India, *Pollution Research*, 24(4): 745-752 (2005).
- Aishwath, O.P., and Pal, B., 2000, Performance of palmarosa (*Cymbopogon martini*) under various soil textures and salinity levels, *Indian Perfumer*, 44: 285-290.
- Alabaster J.S.(1972) Suspended solids and fisheries, Proc. R. Soc. B. 180, P. 395-406
- Amman, J (1995). Guidelines for Drinking Water Quality, Vol. 1, WHO.
- Angelone, M. and Bini,C.,1992, Trace elements in soils and plants of western Europe, In D.C. Adriano(Ed), *Biogeochemistry of Trace metals*, Lewis Publishers, Boca Raton, pp 19-60.
- Aniol, A.; Gustafson, JP. Genetics of Tolerance in Agronomic Plants. In: Shaw AJ. ,Editor. Heavy Metal Tolerance in Plants: Evolutionary Aspects. Boca Raton, Florida: CRC Press; 1990. pp. 179–193.
- APHA, AWWA and WPCF (1985) Standard methods for the examination of water and wastewater, 16th edn. American Public Health Association, Washington, D.C
- APHA, AWWA and WPCF,1995.Standard methods for the examination of water and wastewater (19th edn.), American Public Health Association, Washington, D. C
- Arora, B. R., Azad, A. S., Singh, B. and Sekhon, G. S.: 1985, *Indian J. Agric. Sci.* 45, 80.
- Arao T, Ae N. Genotypic variation in cadmium levels of rice grain. *Soil Sci Plant Nutr.* 2003; 49(4): 473–479.
- Arunan, Janaki, S. Lalitha, R. Kasthuri, K. Banumathi and A. Agita, Study on quality of drinking water at pilgrim centers in Tiruchirapalli, *IJEP* 24, 193-198 (2004).
- Assunção AGL, Schat H, Aarts MGM (2003) *Thlaspi caerulescens*, an attractive model species to study heavy metal hyper accumulation in plants. *New Phytol.* 159:351-360.

- ATSDR, (Agency for Toxic Substances and Disease Registry)1989. Toxicological Profile for Phenol, Agency for Toxic Substances and Disease Registry, United States Public Health Service.
- Balcioglu, I.A. and Arslan, I (2001). Partial oxidation of reactive dyestuffs and synthetic textile dyebath by the O₃ and O₃/H₂O₂ processes. *Water Sci.& Tech.*, 43,pp 221-228.
- Bailey, S.W., 1980, Structure of layer silicates, Chapter-1 In: Crystal structure of clay minerals and their X-ray identification(Ed G.W. Brindley and G.Brown) Mono., 5, Mineralogical Society, London, pp 1-124.
- Banat, I.M.Nigam, P., Singh, D., Marchant, R. (1996). Microbial decolorization of textile dye containing effluents: A review. *Biores. Technol.* 58, 217-227.
- Banerjee, Samir K. (1994) Environmental chemistry, p 85-91.
- Bansal, O.P., 1998, Heavy metal pollution of soils and plants due to sewage irrigation, *Indian J. Environ. Hlth.* 40: 51-57.
- Barik, R.N. , and R.K.Patel Seasonal variation of water quality of Atharabanki river near , *IJEP* 24 (3) : 161-166 (2004).
- Bell, G.H. , J.N. Davidson and H. Scarborough 1961, Textbook of physiology and biochemistry. pp 1117.
- Benerji, Samir K (1994) Environmental Chemistry, p 85-91.
- Beydilli, M.L., Pavlostathis, S.G., Tincher, W.C., 1998,Decolourization and toxicity screening of selected reactive azo dyes under methaogenic condition, *Water.Sci. Tech.* 38,225-232.
- Bingham, F. T., Page, A. I., Hahler, R. J. and Ganje, T. J., Growth and cadmium accumulation of plants grown on soil treated with cadmium enriched sewage sludge. *J. Environ. Qual.*, 1975, 4, 207–210.
- BIS, 1981, Guide for treatment and disposal of effluents of fertilizer industry, Bureau of Indian Standards, BIS: 9841.
- Biswas, T.D., Mukherjee, S.K., Textbook of Soil Science, Tata Mc Graw Hill Publishing, New Delhi, First reprint, 1989.
- Bowen, H. J. M.: 1966, 'The biochemistry of the elements', *Trace Elements in Biochemistry*, Academic Press, London, New York, pp. 173–210.

- Brindley, G.W., 1961: In: X ray identification and crystal structure of clay minerals(Ed. G.Brown) Mineralogy Soc. London.
- Brindley, G.W and Brown, G. : 1980, In: Crystal structure of clay minerals and their X-ray identification(Ed G.W. Brindley and G.Brown) Mono., 5, Mineralogical Society, London, pp 305-360.
- Brown PJ, Lewis DM, McDonald A, Ward R, McEvoy J, Parr W, Dixon E. Colour standards for watercourses. R&D Technical Report P104, Foundation for Water Research, Medmenham, Bucks, 1998.
- Brown JC, Jones WE (1975) Heavy metal toxicity in plants 1. A crisis in embryo. Commun. Soil. Sci. Plant Anal. 6:421-438.
- Brzóska MM, Moniuszko-Jakoniuk J. Interactions between cadmium and zinc in the organism. Food Chem Toxic. 2001; 39(10): 967–980.
- Calabrese, E.J. and Tuthill, R.W. (1977) Elevated blood pressure and high sodium levels in the public drinking water, *Archives of Env. Hlth.* 35, p 200.
- Carrol, D., 1970, Clay Mineral- A guide to their X-ray identification, Geol. Soc America, Sp. Paper:126.
- Chao, W.L. and S.L. Lee, Decoloration of azo dyes by three white-rot fungi: influence of carbon source, *World J. Microbiol. Biotechnol.*, 10, 556-559 (1994).
- Chappell J.S., Exley C. and Birchall J.D. A mechanism for acute aluminium toxicity in fish, *J.Theor Biol* (1991) 151(3):417-28.
- Chen, X.J. 1985, Rock Miner, Anal 4, 243.
- Chen, Z.S. 1991 Cadmium and lead contamination of Soils Near Plastic Stabilizing Materials Producing Plants in Northern Taiwan water, Air, Soil Pollut. (57-58), 745-754.
- Chen, Z.S. 1992. Metal contamination of flooded soils, rice plants, and surface waters in Asia. In: *Biogeochemistry of Trace Metals*, D.C. Adriano (Ed.). Lewis Publishers Inc., Florida, USA, pp. 85-107.
- Chen, Z.S., S.L. Lo, and H.C. Wu. 1994. Summary analysis and assessment of rural soils contaminated with Cd in Taoyuan. Project report of Scientific Technology Advisor Group (STAG), Executive Yuan. Taipei, Taiwan. (In Chinese, with English abstract and Tables). (Unpub. mimeo-graph).

- Cho M, Chardonnens AN, Dietz KJ (2003) Differential heavy metal tolerance of *Arabidopsis halleri* and *Arabidopsis thaliana*: a leaf slice test. *New Phytol.* 158:287-293.
- Chopra, S.L. and Konwar, J.S. 1986- Analytical agricultural chemistry, Kalyani Publishers Ludhiana, New Delhi
- Chung K.T. The significance of azo-reduction in the mutagenesis and carcinogenesis of azo dyes.1983, *Mutat Res* 1983; 114:269–81.
- Cieæko, Z., S. Kalembasa, M. Wyszkowski, E. Rolka, Effect of Soil Contamination by Cadmium on Potassium Uptake by Plants, *Polish Journal of Environmental Studies Vol. 13, No. 3 (2004)*, 333-337
- Clemens S, Palmgreen MG, Kramer U (2002): A long way ahead: understanding and engineering plant metal accumulation. *Trends Plant Sci.* 7:309-315.
- Cooper P. (1993), Removing color from dye house wastewaters: a critical review of technology available. *J. Soc. Dyers Colorists* 109, 97-101.
- Daoust, Catherine M., Christian Bastien and Louise Deschênes. Influence of Soil Properties and Aging on the Toxicity of Copper on Compost Worm and Barley, American society of Agronomy, (2006) *J Environ Qual* 35:558-567
- Das P, Samantaray S, Rout GR (1997) Studies on cadmium toxicity in plants: a review. *Environ. Pollution* 98:29-36.
- David, J.C. , V. Iswaria and M.N. Guruswami 1965. Pharmacology and pharmacotherapeutics (6th edn.) pp 834.
- Devi, Arundhuti Impact of oil field operations on soil quality near upper Assam oil fields, PhD Thesis, Gauhati University, Assam, 1996.
- Dezuane, J (1997). Hand book of drinking water quality. 2nd edition, John Wiley & Sons.
- Dhanya, D., S.Tamilarasi, R. Subashkumar and P. Lakshmanaperumalsamy, 2005, IJEP 25 (6): 495-502.
- Dierberg, F.E. (1991) Non point sources loading of nutrients and dissolved organic carbon from an agricultural sub urban watershed in East Central Florida, *Wat. Res.* 25, p. 363-374.

- Dietz KJ, Baier M, Kramer U (1999) Free radicals and reactive oxygen species as mediators of heavy metal toxicity in plants. In: Prasad MNV, Hagemeyer J (eds), Heavy metal stress in plants: from molecules to ecosystems, pp.73-97. Springer-Verlag, Berlin.
- Dickman, S.R. and Bray, R.H. 1940, Colorimetric determination of phosphate, *Indus and Engg. Chem. Anal* Edn 12: 665-668
- Dikshith, T.S.S. (1996), Safety Evaluation of Environmental Chemicals, New Age International (P) Limited, New Delhi.
- Dixit,S.S., and Witcomb,D.1983 Heavy metal burden in water substrate and macroinvertebrate body tissues of a polluted river Irwell(England), *Environ.Pollut.(Series B)*, 6:161-172.
- Dobermann A, Fairhurst T. 2000. Rice. Nutrient disorders & nutrient management. Handbook series. Potash & Phosphate Institute (PPI), Potash & Phosphate Institute of Canada (PPIC) and International Rice Research Institute. 191 p.
- DOH/ROC. 1988. *The Critical Concentration of Cd in Diet Rice for Health*. Department of Health (DOH), Executive Yuan, ROC.
- Dowdy, R. H., Larson, W. E., Titrud, J. M. and Latterel, J. J., Growth and metal uptake of snap beans grown on sewage sludge amended soil – A four year field study. *J. Environ. Qual.*, 1978, 7, 252–257.
- Driscoll, C T; Letterman, R D (1988). Chemistry and fate of Al⁺³ in treated drinking water. *J. Environ. Eng. Div.* 114(1):21-37.
- Dudka S, Piotrowska M, Terelak H. Transfer of cadmium, lead and zinc from industrially contaminated soil to crop plants: a field study. *Environ Pollut.* 1996; 94(2): 181–188
- Dutta, P.K. An over view of textile pollution and its remedy IJEP 14 (6): 443-446 1994.
- Easton J.R. The problem of colour: The dye maker's view. In: Cooper P, editor. Colour in dye house effluent, Society of Dyers and Colourists, (1995). p. 9–21.
- Elinder CG. Zinc. In: Friberg L, Nordberg GF, Vouk VB, eds. *Handbook on the toxicology of metals*, 2nd ed. Amsterdam, Elsevier Science Publishers, 1986:664-679.

- Elliot, J., Environmental Chemistry of dyes and pigments, A Wiley Interscience Publication, New York, 1,215-237(1996).
- Ernst WHO, Verkleij JAC, Schat H (1992) Metal tolerance in plants. *Acta Bot. Neerl.* 41:229-248.
- Falkowski, P. G., R. T. Barber, V. Smetacek, Science 281, 200 (1998)
- Fats, Oil and Grease Best Practices Manual, Environmental Compliance Division Grease Management Program, 1635 3rd Avenue North, St. Petersburg, 2002.
- Fishbein, L. (1991), In metals and their compounds in the environment (E.Meridian ed.) VCH Weinheim P.1153-1190.
- Fornazier RF, Ferreira RR, Vitória AP, Molina SMG, Lea PJ, Azevedo RA (2002) Effects of cadmium on antioxidant enzyme activities in sugar cane. *Biol. Plant.* 45:91-97.
- Fostner, W. and Wittman, G.T.W., 1983, Metal Pollution in the aquatic environment, 2nd Edn. Springer-Verlag, 486.
- Foy CD, Chaney RL, White MC (1978) The physiology of metal toxicity in plants. *Ann. Rev. Plant Physiol.* 29:11-566.
- Gallego SM, Benavides MP, Tomaro ML (1996) Effect of heavy metal ion excess on sunflower leaves: evidence for involvement of oxidative stress. *Plant Sci.* 121:151-159.
- Galal-Gorchev H (1991) Dietary intake of pesticide residues, cadmium, mercury, and lead. *Food Additives and Contaminants*, 8:793-806. (WHO/SDE/WSH/05.08/10 2005)
- Gardner, M J; Gunn, A M (1991). Bioavailability of aluminum from food and drinking water. *Proc. royal. Med*
- Garg, D.K., A.B. Pant, M.R. Agarwal and B.N. Gayal., 1990, Seasonal variations in the ground water quality of Roorkee city, *Indian J.Env. Proc.*, 10 (9) : 673-676.
- Garg, S.S. Water Quality of Well and Bore Well of 10 selected Locations of Chitrakoot Region *IJEP* 23 (9) : 966-974(2003).
- Garrett RG, MacLaurin AI, Gawalko EJ, Tkachuk R. A prediction model for estimating the cadmium content of durum wheat from soil chemistry. *J Geochem Exploration*. 1998; 64(1-3): 101-110.

- Gawas, A.D., Lokhade, P.B., and Mujawar, H.A., Study of physico – Chemical parameters of surface waters in the Mahad industrial area, *Pollution research* 25(1): 109-114(2006).
- Ghose, A.B., Bajaj, J.C., Hasan, R., and Singh, D., 1983, *Quality rating of irrigation water*, In. soil and water testing methods, A laboratory manual, pp 36-45.
- Gillham, E.W.F. and Simpson, D.T., 1973, U.K. Central Electricity Generating Board, Report, SSD/ MID/R2/73.
- Gillies ME, Paulin HV. Estimations of daily mineral intakes from drinking water. *Human nutrition: applied nutrition*, 1982, 36:287-292.
- Gimeno-García E, Andreu V, Boluda R. Heavy metals incidence in the application of inorganic fertilizers and pesticides to rice farming soil. *Environ Pollut.* 1996; 92(1): 19–25.
- Girisha, S.T., Muniyama, M., and Umesha, S., Heavy metals impact on *Brachiaria mutica*, a fodder grass during sewage water irrigation, *Jr. of Industrial Pollution Control* 21(2) 2006, pp 285-290.
- Glynn, A W; Sparen, A; Danielsson, L G; Sundstrom, B; Jorhem, L (1999). Concentration dependent absorption of aluminum in rats exposed to labile aluminum in drinking water. *J Toxicol Environ Health* 56:501 –512.
- Gower, A.M. (1980) Ecological effects of changes in water quality in catchment ecosystem (AM Gower Edn.) John Wikey and Sons. New York, p 147-153.
- Grant CA, Buckley WT, Bailey LD, Selles F. Cadmium accumulation in crops. *Can J Plant Sci.* 1998; 78:1-17.
- Grana Rani, D. Freeda., Arunkumar, K., Valarmathy, T., Potability of drinking water Sources of eleven villages in Perambalur district, tamil Nadu, *Pollution research*, 25 (1): 171-174 (2006).
- Greenland, D. J. and Hayes, M. H. B. (eds.): 1981, *The chemistry of soil processes*. John Wiley and sons Ltd., pp. 593–619.
- Groppa MD, Tomaro ML, Benavides MP (2001) Polyamines as protectors against cadmium or copper-induced oxidative damage in sunflower leaf discs. *Plant Sci.* 161:481-488.
- Gupta, A. P., Antil, R. S. and Singh, A.: 1986, Proc. C. S. I. O. Chandigarh, India.

- Gupta, P.K. 2000. Methods in environmental Analysis Water, Soil and Air, First Edition Agrobios (INDIA)
- Hall JL (2002) Cellular mechanisms for heavy metal detoxification and tolerance. *J.Exp. Bot.* 53:1-11.
- Hem, J. D. 1985, Study and interpretation of the chemical characteristics of natural waters, 3rd. Edi. USGS water supply paper. 2254: 117-120.
- Hesse, P.R. 1971, *A Textbook of Soil Chemical Analysis*, John Murray (publishers) Ltd. 50. Albemarle Street, London, WIX4BD.
- Heuscher, Sonja A., Craig C. Brandt and Philip M. Jardine, Using Soil Physical and Chemical Properties to Estimate Bulk Density, *Soil Sci. Soc. Am. J.* 69:51-56 (2005).
- Hussain et.al. 2001, Physico – chemical characteristics of water for bore wells of an industrial town Bhilwara, Rajasthan: A correlation study, *Asian J.Chem.*, 13(2) : 509-512.
- Hussain, J. et al. Characterization of textile wastewater *J. of Indu. Poll. Control* 20 (1) 2004 pp 137-144.
- IPCS (1989) *Mercury — environmental aspects*. Geneva, World Health Organization, International Programme on Chemical Safety (Environmental Health Criteria 86).
- Imam, M.B.1994, *J. geol. Soc. Indian*, 44:547-561.
- Irshad, A., Ali, S., Jan, M.R., 1997. Physico-Chemical Studies of Industrial Pollutants. NSMTCC'97 on Environment Pollution. Islamabad, Pakistan.
- ISI, 1980 Guide for treatment and disposal of effluents of cotton and synthetic textile industry, ISI –9508 New Delhi.
- ISI (Indian Standard Institution), 1983 Specification for drinking water, ISI-10500, New Delhi.
- Iversen, V., Moldrup, P; Schjonning, P and Loll, P: 2001 Air and water permeability in differently textured soil at two measurement scales, *Soil Sc. 166 (10)*: 643-659.
- Izosimova, Alexandra, Vladimir Drichko, Renata Gaj and Ewald Schnug, *Landbauforschung Volkenrade 1/2005 (55)*: 21-27.

- Jackson, AP.; Alloway, BJ. The Transfer of Cadmium from Agricultural Soils to the Human Food Chain. In: Adriado DC. , Editor. Biogeochemistry of Trace Metals. Boca Raton, FL: Lewis Publishers; 1992. pp. 109–158.
- Jackson, M.L. 1967, In: Soil Chemical Analysis, Prantice Hall (India) Pvt. Ltd. New Delhi.
- Jackson, M.L. 1975 In: Soil chemical Analysis. Prantice Hall (India) Pvt. Ltd. New Delhi
- Jasmond, K., and mering, J., 1979, In: Data handbook for clay minerals and other non metallic minerals (eds H. Van Olphen and J.J. Fripiat) Pergamon Press, Oxford, pp 177 – 193.
- Jayashree, J. 2002 Chemistry of coastal groundwater in Triruvanantapuram *J.Ecology Env. Conservation, 8 (1)* : 59-61.
- Jekel, M R(1991). Aluminum in water: How it can be removed? Use of aluminum salts in treatment. *Proc. of the Int. Water Supply Ass, Copenhagen, Denmark*.
- Jenkinson, D.S.; Ladd, JN. Microbial Biomass in Soil: Measurement and Turnover. In: Paul EA, Ladd JN. , Editors. *Soil Biochemistry*. Vol. 5. New York: Marcel Dekker; 1981. pp. 455–471.
- Joffe, J.S., 1949: Pedology, 2nd Edition, Rutgers University Press, New Brunswick.
- Johnson, A.E. 1986 Soil Organic Matter, effects on Soils and Crops. *Soil use manage* 2: 97-105
- Joseph, K.J. , P.N.K. Nambian, C.S. Shynamma and P.T. Lakshmanan (1984). Studies on phytoplankton in polluted waters, *J.Mar. Biol. Ass. India 26*, p. 42 – 46. 9.
- Joshi, M., Srivastava, R.K., Removal of iron from waste waterby using non conventional ecofriendly material, *Poll Res. 25 (1)* : 185 – 188 (2006).
- Joy, C.M. , K.P. Balakrishnan and A Joseph (1990) Effect of discharges on the ecology of phytoplankton production in the river Periyer (India) *Wat. Res. 24*, p.787-796.
- Juang, R.S., Tseng, R.L., Wu, F.C., Lin, S.J., (1996) Use of chitin and chitosan in lobstar shell wastes for colour removal from aqueous solutions. *J.Environ.Sci. Health A 31*, 325-338.

- Kannan, K. (1991) Ist Edn. Fundamental of Environmental Pollution, S.Chand and Company Ltd. New Delhi.
- Kannan, K., (1994) Fundamentals of Environmental Pollution, S. Chand and Company Ltd. , IIIrd Edn. New Delhi.
- Kellar,A.W. (1979) Env. Geology,Charles E.Meril Publishing Co.Ohio, p 548.
- Khabade, S.A. and Mule, M.B.: Studies on physico- chemical parameters of Pundi water reservoir from Tasgaon Tahsil, *IJEP* 23(9): 1003-1007 (2003).
- Khalid, B. Y. and Tinsley, J.: 1980 *Plant and Soil.* 55, 139.
- Khound, Smritishikha, 2002, Soil contamination due to a pulp and paper industry a case study at Jagiroad, Assam (India), PhD Thesis submitted to Gauhati University, Assam
- Kidd, P.S., Diez, J. and Martinez, C.M. 2004, Tolerance and bioaccumulation of heavy metals in five populations of *Cista ladanifer* L. subsp. *Ladanifer*.*Plant and soil*, 258(1-2): 189-205.
- Kondratieva, L Vodnue Resursu, 27 (2000), 221.
- Kraemer, S. M. Aquat. Sci. 66, 3 (2004)
- Kumaresan, A, and Bagavathiraj, B.K. 1996 Physico chemical and microbiological aspect of courtallam water, *Poll res.* 15(2): 159-161.
- Kumari T. Kusum, Maruthi Rao and Ranganavakulu, N, 2001, Characterization and distribution of cationic micronutrients, *Indian J. Environ Proctec.* 21(9): 847-849.
- Lalitha, S., R. Kasthuri, K.Banumathi and . Swapna, Assay of drinking water quality in selected pilgrim centers near Tiruchirapalli, *IJEP* 24 (1) : 33 – 40 (2004).
- Lahermo P et al. The geochemical atlas of Finland, Part 1. *The hydrogeochemical mapping of Finnish groundwater*. Espoo, Finland, Geological Survey of Finland, 1990.
- Lalitha, S. R. Kasthuri, K.Banumathi and S. Swapna, Assay of Drinking water quality in selected pilgrim centers near Tiruchirapalli, *IJEP* 24 (1): 33-40 (2004).
- Larsen, W. E., Gilley, J. R. and Linden, D. R.: 1975, *Soil and Water Cons.* 2, 68.
- Laszlo J. A. (1994). Removing acid dyes from textile wastewater using biomass for decolorization. *Am. Dyest. Rep.* 83(August), 17-21.

- Leeper, G.W., 1978, In: managing the heavy metals on the Land, Ed Young R.A. and Cheremisinoff P.N., Marcel Dekker Inc Publication.
- Lenntech ,2006 Water treatment & Air purification Holding, Netherlands,
<http://www.lenntech.com>
- Lin, S., H.Lin, 1993, Treatment of textile waste effluent by ozonation and chemical coagulation, *Water Res.*, 27, 1743-1748.
- Liu JG, Liang JS, Li KQ, Zhang ZJ, Yu BY, Lu XL, Yang JC, Zhu QS. Correlations between cadmium and mineral nutrients in absorption and accumulation in various genotypes of rice under cadmium stress. *Chemosphere*. 2003;52(9):1467–1473. doi: 10.1016/S0045-6535(03)00484-3.
- Li YM, Chaney RL, Schneiter AA, Miller JF, Elias EM, Hammond JJ. Screening for low grain cadmium phenotypes in sunflower, durum wheat and flax. *Euphytica*. 1997; 94(1): 23–30.
- Lochart, E.E. , C.L.Tucker and M.C.Merritt (1995) The effects of water impurities on the flavour of brewed coffee. *Food Res.* , 20 : 598 – 605.
- Lohani, T.K. Statistical approach to physico- chemical and trace element analysis of ground water samples in Athgarh area Orissa *IJEP* 25 (6) : 535-545 (2005).
- Lokeshwari, H and G. T. Chandrappa, Impact of heavy metal contamination of Bellandur Lake on soil and cultivated Vegetation, *Current Science*, Vol. 91, No.5, 10 September 2006.
- Lokhande, R. S. and Kelkar, N., Studies on heavy metals in water of Vasai Creek, Maharashtra. *Indian J. Environ. Protect.*, 1999, 19, 664–668
- Lomass, M.J.Soc.Dyers Colourist, 109,10-40(1983).
- Lopez, F F; Carmen, C; Lorenzo, M L; Lopez, M C (2002). Aluminium content of drinking waters, fruit juices and soft drinks: contribution to dietary intake. *The Sci Total Environ* 292:205–213.
- Macfarlane GR, Burchett MD (2001) Photosynthetic pigments and peroxidase activity as indicators of heavy metal stress in the greymangrove, *Avicennia marina* (Forsk.) Vierh. Mar. *Pollut. Bull.* 42:233–40.
- Madhuri, T.Usha. ; T. Srinivas and K.Sireesha, A study on ground water quality in commercial areas of Visakhapatnam, *Poll Res.* 23 (3) : 565-568 (2004).

MAGC Technologies www.magctech.com.

- Maleki, Afshin, Babak Roshani, Farham Karakani, Study on the Efficiency of the Different units for Removing Metallic ions in Isfahan Water Treatment Plant, *Journal of Applied Sciences & Environmental Management*, Vol. 9, No. 2, 2005, pp. 61-64.
- Manahan, Stanley E., Toxicological Chemistry Fourth Edn.1991, Chap.5, Toxic elements
- Manning, John L, 1989, Applied Principles of Hydrology CBS Publishers & distributor, Shahdara, Delhi, p 255.
- Marschner, H. Mineral Nutrition of Higher Plants. IIInd Edition, London, San Diego, CA.: Academic Press; 1995.
- Mathias, R.J. and Cummings, T.F. 1973 Selected metals in sediments, water, and biota in Illinois River, *J.Wat.Pollut.Cont.Fed.* 45:1573-1583.
- McBride, M.B., Richards, B.K. and Steenhuis, T. 2004 Bioavailability and crop uptake of trace elements in soil columns amended with sewage sludge products, *Plant and Soil*, 262(1-2): 71-84.
- McLaughlin MJ, Parker DR, Clarke JM. Metals and micronutrients-food safety issues. *Field Crops Res.* 1999;60(1-2):143-163.
- McMullan, G., Meehan, C., Conneely, A., Kirby, N., Robinson, T., Nigam, P., Banat, I.M., Marchant, R., Smyth, W.F., (2001). Microbial decolourisation and degradation of textile dyes. *Appl. Microbiol. Biotechnol.* 56, 81-87.
- Melamed R, Cao X, Chen M, Ma L. Field assessment of lead immobilization in a contaminated soil after phosphate application. *The Science of the Total Environment.* 2003; 305(1-3): 117-127
- Miller, R., and Donahue, R.L., 1992, In: An introduction to soil and plant growth, prentice Hall of India, New Delhi
- Mishra, G., Tripathy, M. (1993). A Critical review of the treatments for decolourization of textile effluent. *Colourage* 40:35-38
- Mohan, R. et. al. 2000. Hydrochemistry and quality assessment of ground water in Naini industrial areas, Allahabad . *J. Geol. Soc. India* 55 : 79-87.

- Moore J.W., and E.A.Moore, (1976) Environmental Chemistry, Academic Press, New York.
- Moore, D.M. and Reynolds Jr. R.C.; 1989 In: *X-ray Diffraction and the Identification and The Analysis of Clay Minerals*. Oxford University Press, New York, pp 179-200.
- Moral R, Gilkes RJ, Moreno-Caselles J. A comparison of extractants for heavy metals in contaminated soils from Spain. *Communi Soil Sci. Plant Ana.* , 2002;
- Morel, F. M. M.,N. M. Price, *Science* 300, 944 (2003)
- Morishita T, Fumoto N, Yoshizawa T, Kagawa K. Varietal differences in cadmium levels of rice grains of Japonica, Indica, Javanica and hybrid varieties produced in the same plot of a field. *Soil Sci Plant Nutri.* 1987; 33:629–637.
- Murali Krishna, K.V.S.G., 1998, Rural, Municipal and Industrial Water Management, First Edition.
- Murali Krishna, B.C. Shetty, U. and Narayan, K.S.J. 2003 Effect of contact time and stirring rate of fluoride removal by burnt brick clay powder. *Poll. Res.*, 22 (3) : 365-367 (2003)
- Nan ZR, Zhao CY, Li JJ, Chen FH, Sun W. Relations between soil properties and selected heavy metal concentrations in spring wheat (*Triticum aestivum* L.) grown in contaminated soils. *Water Air and Soil Pollut.* 2002; 133(1/4): 205–213.
- Nasr, C., Vinodgopal, K., Hotchandani, S., Chattopadhyay, A.K., Kamat, P.V., 1997. Photocatalytic reduction of azo dyes naphthol blue black and disperse blue 79. *Res. Chem. Intermed.* 23, 219-231.
- Nawlkhe, W.G. and Bulusu, K.R. (1989) Water treatment technology for removal of excess fluoride. In appropriate methodologies for development and management of ground water resources in developing countries (Vol 2), Edn. C.P.Gupta, Oxford and IB4 Publishers Ltd., New Delhi, p 815-828.
- Nawlkhe, W.G. , S.L.Lutade, P.M. Patni and L.S. Despande (1995). Ground water quality in Shivpuri district in Madhya Pradesh, *Ind. J. Env. , Hlth.* 37 (4) p. 278 – 284.

- Nemedé, P.N. and V.S. Shrivastava, 1996, Metals in distillery effluents and their impact on surrounding ground water and plant tissues, *Indian J. Envi. Proc.*, 17 (2): 133-136.
- Nemedé, P.N. and V.S. Shrivastava, 1998, Physico chemical and metallic status of distillery waste amended soil, *Indian J. Envi. Proc.*, 18(5): 359-363
- Nigam, P., Armour, G., Banat, I.M., Singh, D., Marchant, R., (2000); Physical removal of textile dyes and solid-state fermentation of dye adsorbed agricultural residues. *Biores. Technol.* 72, 219–226.
- Niess DH (1999) Microbial heavy-metal resistance. *Applied Microbiol. Biotech.* 51:730-750.
- Norvell WA, Wu J, Hopkins DG, Welch RM. Association of cadmium in durum wheat grain with soil chloride and chelate-extractable soil cadmium. *Soil Sci Society of Ame J.* 2000; 64:2162–2168.
- Nriagu JO, Edn. Zinc in the environment. Part I, Ecological cycling. New York, NY, John Wiley, 1980.
- Nriagu, J.O. and Azcue J. M. 1990. Food contamination with arsenic in the environment. In: Food Contamination from environmental sources (Ed. J.O. Nriagu and M. S. Simmons) pp. 121-144. John Wiley & Sons, Inc. N. Y.
- Nriagu, J. O. and Pacyna J. M. 1988. Quantitative assessment of worldwide contamination of air, water and soils by trace metals, *Nature* (London), 333, 134-139.
- NSF International official website publication : <http://www.nsf.org>
- Onodera, S., K, Yoshimatsu, H. Satoh and A. Uchida, *Jpn. J. Toxicol Environ Health*, 1998, 44, 289.
- Park, J. E., and Park, K., 1986 Environment and Health, Text Book of Prevention and Social Medicine, p 437, 11th Edition Banarsidas Bhanot Publishers, Napier Town, Jabalpur, India.
- Patil, P.R. et. al. 2003 Water quality of river Tapi at Bhubneswar town, *IJEP*. 23 (6) : 620-623.
- Peavy, Howard S., Donald, R., Row and George Tchobanoglous, 1987, Environmental Engineering, Mc Graw Hill International Editions, New Delhi.

- Pendias, Alina., Kabata and Pendias, Henryk Trace elements in soils and plants, 5th Edn.1989, CRC Press, Inc. pp195.
- Penner GA, Clarke J, Bezte LJ, Leisle D. Identification of RAPD markers linked to a gene governing cadmium uptake in durum wheat. *Genome*. 1995; 38:543–547.
- Peralta-Zamora, P., Moraes, S.G., Pelegrini, R., Freire, M.J., Mansilla, H., Reyes, J., Duran, N., (1998). Evaluation of ZnO TiO₂ and supported ZnO on the photoassisted remediation of black liquor cellulose and textile mill effluents. *Chemosphere* 36, 2119-2133.
- Pinta, M.D. 1975 Detection and determination of trace elements, ANA, Arbor Science Publication INC
- Pinto AP, Mota AM, de Varennes A, Pinto FC (2004) Influence of organic matter on the uptake of cadmium, zinc, copper and iron by sorghum plants. *Sci. Tot. Environ* 326:239–247.
- Pinto E, Sigaud-Kutner TCS, Leitão MAS, Okamoto OK, Morse D, Colepicolo P (2003) Heavy metal-induced oxidative stress in algae. *J. Phycol.* 39:1008–1018.
- Prasad, C.K. Shanmuga and Bhagan, V.Umayor; Physico chemical characteristics of underground water in Nagercoli town (south), *IJEP* 24(1): 53-56(2004).
- Prasad MNV (1999) Metallothioneins and metal binding complexes in plants. In: Prasad MNV, Hagemeyer J (eds), Heavy metal stress in plants: from molecules to ecosystems, pp.51–72. Springer Verlag, Berlin, Heidelberg
- Prashanthi, V., Jeevan Rao K; Sreenivasa, Raju A, 2001, Soil Pollution due to a land disposal of industrial effluents, *J of Indus Poll. Control*, 17 (1): 9-18.
- Purandara, B.K., Varadarajan, N., Jayashree, K., 2003, Impact of sewage on ground water quality- A case study, *Pollution Research* 22 (2) : 189-197.
- Pueye, M., Sastre, J., Hernandez, E., Vidal, M. Lopez, Sanchez, J.F. and Rouet.G. 2003 Prediction of trace element mobility in contaminated soil by sequential extraction. *J.Environ. Qual.* 32: 2054-66.
- Rai,H. 1975 Immunological studies on river Yamuna at Delhi, India, Part I : Relationship between chemistry and state of pollution of river Yamuna, *Archiv.fur. Hydrobiol.* , 25 : 144-146.

- Rani, D.Freeda Granna., Arunkumar, K., and Valarmathy, T., Potability of drinking water sources of eleven villages in Perambalur District , Tamil Nadu *Poll. Res.* 25 (1): 171-174 (2006).
- Rao, S.S. and Sitaramya, M: 1997 Changes in total and available soil nitrogen status under integrated nutrient management of rice, *J. of the Indian Society of Soil Science* 45: 445-449
- Rashid, M.T., R.P.Voroney, Land application of oily food waste and corn production on amended soils, *Agron. J.* 96:997-1004, 2004, *American Society of Agronomy*
- Roads, F. M., Olson, S. M. and Manning, A.: 1989, *J. Environ. Qual.* 18, 159.
- Rouret.G. 2003 Prediction of trace element mobility in contaminated soil by sequential extraction. *J.Environ. Qual.*32: 2054-66.
- Rulkens WH, Tichy R, Grotenhuis JJC. Remediation of polluted soil and sediment: perspectives and failures. *Water Sci Techn.* 1998; 37(8): 27–35.
- Rajmohan, N. et.al. (2003), Major correlation in ground water of Kancheepuram region, South India, *IJ. Env. Hlth.*, 45(1): 1-5.
- Robinson, T., McMullan, G., Marchant, R., Nigam, P., 2001. Remediation of dyes in textile effluent: A critical review on current treatment technologies with a proposed alternative. *Bioresource Technol.* 77, 247–255.
- Rogan, N, T. Dolenec , T. Serafimovski , M. Dolenec , G. Tasev , M. Dobnikar - Trace metal concentrations of water, paddy soil and rice of the Kojcani field (Eastern Macedonia) due to base metal mining activities, *Geophysical Research Abstracts*, Vol. 9, 01712, 2007 © European Geosciences Union 2007.
- Sahu, B.K., and S.K. Behra, 1995, Studies on some physico – chemical characteristics of the Ganga river water (Rashikesh, Kanpur) within 24 hr during winter, *Ecol. Env Const.* 1 (1-4) : 35 – 38.
- Sameni, A. M., Maftoun, M. and Bassiri, A.: 1987, *J. Hort. Sci.* 62, 227.
- Sanita di Toppi and Gabberielli, 1999,Responses to cadmium in higher plants, A review, *Env. Exp. Bot.*, 41: 105 – 130.

- Sandalio LM, Dalurzo HC, Gomez M, Romero-Puertas MC, del Rio LA (2001) Cadmium-induced changes in the growth and oxidative metabolism of pea plants. *J. Exp. Bot.* 52:2115-2126.
- Sarić MR. Theoretical and practical approaches to the genetic specificity of mineral nutrition of plants. *Plant and Soil.* 1983; 72(2-3):137–150.
- Sastry., C.A., Alagarsamy, S.R. and Kothandaraman, V., 1974, Treatment of waste water from small paper mill without soda recovery – A case study , *Indian J. Environ. Hlth.* 19: 346-359.
- Sastry, K.V., Shukla Vineeta, Abusaria, S. and Gill, P, 2001, Studies on the impact of bicycle manufacturing industry effluent on soils, *Poll Res* 20 (2) : 187-192.
- Sauerbeck, D, 1987, Effect of agricultural practices on the physico chemical and biological properties of soil, Part II, Use of sewage sludge and agricultural waste, In: Barth H.P.L. Hermite (Ed) Scientific Basis for Soil Protection in European Community, Elsevier, London, New York, pp 181-210.
- Sawyer C.C. and McCarty P.L. (1978), Chemistry for Environmental Engineers, McGraw Hill, New York. pp 331–514.(1992)
- Schwepppe H. Handbuch der Naturfarbstoffe: Vorkommen, Verwendung, Nachweis, ecomed, Landsberg/Lech, 1992.
- Seregin IV, Ivanov VB. Physiological aspects of cadmium and lead toxic effects on higher plants. *Russ J Plant Physiol.* 2001;48(4):523–544.
- Shacklette et al., 1971, Elemental composition of surficial materials in the conterminous United States, U.S. Geological Survey Profes, Paper 574 – D, 71.
- Sheppard, SC (1992) Summary of phytotoxic levels of soil arsenic. *Water, Air and Soil pollution* 64: 539-550, Will, ME and Suter II, GW (1995) Toxicological Benchmarks for screening potential contaminants of concern for effects on terrestrial plants: 1995 Revision, Environmental Restoration Risk Assessment Program, Oak Ridge National Laboratory.
- Sharma, B.K.2001, Environmental Chemistry, Goel Publishing House, Meerut.
- Sharma et.al.(1999) ,Environment impact assessment of textile printing industries in Sanganer, Jaipur: A case study. *J.Indian Bot. Soc.*, 78: 71-85.

- Sharma et.al. (2001), Ground water quality of an industrial town, Bhilwara, Rajasthan, *IJEP*. 8 (1): 109-114.
- Shrivastava, V.S., A.K.Rai and R.C. Mehrotra, 1989, Movement of Fe, Cu and Cd in soils beneath the sewage disposal pond as Jaipur city, *Indian J. Environ. Protection.*, 9 (3): 203-208.
- Shrivastava, V.S., and Ganesh Choudhury 2000, Hazardous heavy metals in and ground MIDC, Jalgaon by ICP – AES, *Indian J. Environ. Ecoplan*, 3 (3): 707-709
- Shrivastava, V.S., 2001 Correlation of metal organic fractions in industrial sludge amended soils, *Indian J. Environ. Protection*, 21(5) : 428-430.
- Shrivastava, V.S., Patil, S.S., Impact of hazardous metals on surrounding environment, *IJEP* 25 (11) : 1021 – 1024 (2005).
- Sikdar, P.K., N Dasgupta and S.S.Sarkar 1994, Ground water management in parts of Saltora block, Bankura district, West Bengal, *J.Geol. Soc. India*, 44: 291-293
- Singanan, M. and K.S.Rao 1996, Evaluation of Rameswaram island groundwater resources for irrigation and industrial purposes. *Indian J. Env. Prot.* 16 (3) : 171-175.
- Singh,A.J.A.Rangit. , T.T.Ajith Kumar (2004) Water quality analysis of drinking water resources in selected villages in Tirunelveli district. *Ind.J.Env.Prot.* 24 (12).
- Sinha, A.K. , Kamala Kant, Underground water quality and its impact on the health of its users in Sareni block of RaeBareli, *IJEP* 23 (9) : 1017-1024 (2003).
- Singh, B. R. and Steinnes, E.: 1994, in R. Lal and B. Stewart (eds.), *Soil Processes and Water Quality*, Lewis Publishers, Chelsea, Mich, 233–271 pp.
- Singh, M., K.C. Gupta, Study on physico- chemical characteristics of the Yamuna river water, *IJEP* 24 (3) : 182-186 (2004).
- Singh, T.B., Bala,I., and Singh, D. 1999 Assessment of ground water quality of Panota sahib (H.P.), *Poll. Res* 18 (1): 111-114.
- Sommers, L.E., Nelson, D.W., and Yost, K.L.,1976, Variable nature of chemical composition of sewage sludge, *J Environ. Qual*, 5: 303-305.
- Spadaro, J.T., Isabella, L., Ranganathan, V., 1994, Hydroxyl radical mediated degradation dyes: evidence for benzene generation. *Environ.Sci.Tech.* 28, 1389-1393.

- Sparrow, L.A., and N.C. Uren. 1987. Oxidation and reduction of Mn in acidic soils: Effect of temperature and soil pH. *Soil Biol. Biochem.* 19:143–148
- Sponza D, Karaoglu N. Environmental geochemistry and pollution studies of Aliaga metal industry district. *Environ Inter.* 2002; 27(7):541–553.
- Srinivasan, P T; Viraraghavan, T; Subramanian, K S (1999). Aluminum in drinking water: An overview. *Wat San* 25 (1): 345-349.
- Stevenson, F.J. 1986; Carbon balance of the soil and role of organic matter in soil fertility. In: cycles of soil – Carbon, nitrogen, phosphorus, sulphur, and micronutrients. John, Wiley & Son, New York pp 45-47.
- Stohs SJ, Bagchi D (1995) Oxidative mechanisms in the toxicity of metal ions. *Free Rad. Biol. Med.* 18:321-336.
- Storey, E; Masters, C L (1995). Amyloid, aluminum and the etiology of Alzheimer's disease. *Med J Aust* 163:256 –259.
- Sudarshan, V and B. Rajeswara Reddy (1991) Pollution Of fluoride in ground water and its impact on environment and socio economic status of the people –A case study in Sivannagudem Area, Ind. *J. Env.Prot.*, 11 (3) p 185-192.
- Swaranlatha,N and a. Narsing Rao, 1997, Interrelationship of physico chemical factors of a pond, *J.Env.Biol.*, 18(1) : 67-72
- Susheela, A.K. (1993) Prevention and control of fluorosis in India, Rajiv Gandhi National Drinking water Mission, Ministry of Rural Development, New Delhi, Health Aspect Vol.1.
- Taylor, G.W., Natural dyes in textile applications. *Rev.Prog. Colouration* (1986); 16:53-61.
- Tchaikovskaya,O I.Sokolova, L.Kondratieva& E.Karetnikova; Role of photochemical and microbial degradation of phenol in water, *International Journal of Photoenergy*, 2001, Vol 3, p177-180
- Thayer, J.S. (1995) Environmental Chemistry of the heavy metals, VCH Publishers, Inc, New York.
- Thomson, M., Potts, P. J., Kane, J.S. and Webb, P.C., 1996, *J of Geostandards and Geoanalysis*, 22, 127-156.

Toxicological Profile for Phenol December 1989, Agency for Toxic Substances and Disease Registry United States Public Health Service.

Trivedy, R.K. (1990) Environmental Directory of India (Env. Media, Karad) p. 279-281.

Trivedy, R.K. and P.K.Goel,(1984) Chemical and Biological methods for water pollution studies, 1st Edn. Environmental Publication (Karad), India, p 35-80.

Trivedy, R.K., and Goel, P.K. 1986 Chemical and Biological Methods for Water Pollution Studies, IInd Edn.,Environmental Publications, Karad, p6, 10,12, 55-57.

Troch Frederick. R. and Thompson, Louis M: 1993 *In soil and soil fertility*, 5th edition, Oxford University Press, New York

Tyler G, Pahlsson AM, Bengtsson G, Baath E, Tranvik L (1989) Heavy metal ecology and terrestrial plants, microorganisms and invertebrates: a review. Water, Air Soil Pollut. 47:189-2150.

Tylor, L.L., 1961, Nature, 189, p732.

Unnisa, Syeda Azeem and M. K. Khalillullah, Impact of industrial pollution on ground and surface water quality in the Kattedan industrial area. *Journal IAEM*, vol. 31, 77-80 (2004).

USEPA- ground water & drinking water Jan, 2003: www.epa.gov/safewater/dwh/c-ion/copper.html

Van Assche F, Clijsters H (1990) Effects of metals on enzyme activity in plants. *Plant Cell Environ.* 13:195–206.

Van Benschoten, J E; Edzwald, J K (1990). Measuring aluminum during water treatment: methodology and application. *J AWWA* 82(5): 71-79.

Vellidis, G., Hubbard, R.K., Davis, J.G., Lawrence, R., Williams, R.G., Johnson, J.C. and Newton, G.L., 1996 Nutrient concentrations in the soil solution and shallow ground water of a liquid dairy manure land application site. *Trans. ASAE*, 39; 1357-1365.

Verkleij JAC, Schat H (1990) Mechanisms of metal tolerance in higher plants. In: Shaw J. (eds), Heavy metal tolerance in plants: evolutionary aspects, pp.179–193. CRC Press, Boca Raton.

- Verma S, Dubey RS. Effect of cadmium on soluble sugars and enzymes of their metabolism in rice. *Biologia Plantarum*. 2001; 44(1): 117–123.
- Vermani, O.P., and Narula, A.K., 1995, Applied Chemistry Theory and Practice, New Age International (P) Ltd Publishers, New Delhi, p 38, 43, 45, 47.
- Vitosh, M.L., Warncke D.D. and Lucas, R.E., Department of Crop and Soil Sciences Michigan State University Extension, Secondary and Micronutrients for Vegetables and Field Crops, *Extension Bulletin E-486, Revised August 1994*.
- Walter, I (1981). Handbook of Water Purification, McGraw-Hill.
- Wang CX, Mo Z, Wang H, Wang ZJ, Cao ZH. The transportation, time-dependent distribution of heavy metals in paddy crops. *Chemosphere*. 2003; 50(6): 717–723.
- Waters, B. D. (1995) The regulator's view. In Color in Dye house Effluent, Ed P. Cooper), pp. 22-30. Society of Dyers and Colourists, Bradford.
- Weast RC (1984) CRC Handbook of Chemistry and Physics. 64th Edn. CRC Press, Boca Raton .
- Weber, J., Adams R.L., Chemical and sediment mediated reduction of the azo dyes disperse blue 79. *Environmental Science and Technology* 1995; 29:1163-1170.(1995).
- Weber E. J. and Stickney V. C. (1993) Hydrolysis kinetics of reactive blue 19-vinyl sulfone. *Water Res.* 27, 63-67.
- Weigert, P., 1991- In.Metals and their compounds in the environment, VCH, Weinheim, pp, 449-468.
- WHO (1984) Guidelines for drinking water quality Vol. 1 – 3, (Geneva)
- WHO (1991) International Program on Chemical safety Environmental Health Criteria.
- World Health Organization, Geneva, 1996,Guidelines for drinking-water quality, 2nd Edn. Vol. 2. *Health criteria and other supporting information*.
- World Health Organization, Geneva, 2004 Guidelines for Drinking-Water Quality - Third Edition - Volume 1: Recommendations,
- WHO (1993), Inorganic constituents for drinking water quality.
- Wood JM, Wang HK (1983) Microbial resistance to heavy metals. *Environmental Science and Technology*, 17:82a–90a.

- Wu J, Norvell WA, Hopkins DG, Welch RM. Spatial variability of grain cadmium and soil characteristics in a durum wheat field. *Soil Sci. Society of Ame J.* 2002; 66:268–275.
- Yang YY, Jung JY, Song WY, Suh HS, Lee Y. Identification of rice varieties with high tolerance or sensitivity to lead and characterization of the mechanism of tolerance. *Plant Physiol.* 2000;124(3):1019–1102.
- Yadav, B.R. and Khera, M.S., 1993, Analysis of irrigation waters, In. methods of Analysis of Soils, plants, waters and Fertilizers (Ed. H.L.S. Tandan) pp 83-116.
- Yeh R. Y. L., Liu R. L. H., Chiu H. M. and Hung Y. T. (1993) Comparative study of adsorption capacity of various adsorbents for treating dye wastewaters. *Int. J.Environ. Stud.* 44, 259-284.
- Zhang GP, Fukami M, Sekimoto H. Genotypic differences in effects of cadmium on growth and nutrient compositions in wheat. *J Plant Nutr.* 2000;23(9):1337–1350.
- Zhang GP, Fukami M, Sekimoto H. Influence of cadmium on mineral concentrations and yield components in wheat genotypes differing in Cd tolerance at seedling stage, *Field Crops Res.* 2002 ; 77(2-3):93–98
- Zhang,M and Karathansis 1997 Characterization of iron-manganese correlation in Kentucky Alfisols with Perched water table, clay. *Clay Miner.*, 45: 428-439.
- Zissi,U., Lyberatos,G. 1996, Azo dye biodegradation under anoxic conditions. *Water Sci. Tech.*34, 495-500.
- Zsoldos F, Vashegyi Á, Bona L, Pécsváradi A, Szegletes Zs (2000) Growth and potassium transport of winter wheat and durum wheat as affected by various aluminium exposure times. *J Plant Nutr* 23:913-926.
- Zuan, J (1997). Handbook of Drinking Water Quality, Van Nostrand Reinhold.