References

Abbas N. and Subramanian V. (1984), 'Erosion and sediment transport in the Ganges river basin'. Journal of Hydrology, Vol.69, pp.173-182.

Abdul-Razak A., Asiedu A.B., Entsua-Mensah R.E.M. and deGraft-Johnson K.A.A. (2009), 'Assessment of the water quality of the Oti river in Ghana', West African Journal of Applied Ecology, vol.15.

Abhilash P.C., Jamil S. and Singh N. (2007), 'Matrix solid-phase dispersion extraction versus solid-phase extraction in the analysis of combined residues of hexachlorocyclohexanes isomers in plant matrices', Journal of Chromatography A, Vol.1176, pp.43–47.

Abhilash P.C., Jamil S., Singh V., Singh A., Singh N. and Srivastava S.C. (2008), 'Occurrence and distribution of hexachlorocyclohexane isomers in vegetation samples from a contaminated area', Chemosphere, Vol.72, pp.79–86.

Agarwal H.C., Mittal P.K., Menon K.B. and Pillai M.K.K. (1986), 'DDT residues in the river Jamuna in Delhi, India', Water, Air, and Soil Pollution, vol.28, pp. 89-104.

Ahmed W., Stewart J., Gardner, T., Powell D., Brooks P., Sullivan D. and Tindale N. (2007), 'Sourcing faecal pollution: A combination of library-dependent and library-independent methods to identify human faecal pollution in non-sewered catchments', Water Research, Vol.41, pp.3771–3779.

Ahmed A., Barbary, E.l., Yehia, M. M., Mohamed, M., Bouraie, E.l., 2008. Evaluation of Organochlorine Pesticides (OCPs) in Surface Water and Bed Sediment Samples from the River Nile at Rosetta Branch, Egypt. Journal of Applied Sciences Research, Vol. 4, pp.1985-1993.

Aitken M.N. (2003), 'Impact of agricultural practices and river catchment characteristics on river and bathing water quality', Water Science and Technology, Vol.48, No.10, pp.217–24.

Allen-Gil S.M., Gubala C.P., Wilson R., Landers D.H., Wade T.L., Sericano J.L. and Curtis L.R. (1997), 'Organochlorine pesticides and polychlorinated biphenyls (PCBs) in sediments and biota from four U.S. Arctic lakes', Archives of Environmental Contamination and Toxicology, Vol.33, pp.378–387.

Amaraneni S.R. (2006), 'Distribution of pesticides, PAHs and heavy metals in prawn ponds near Kolleru lake wetland, India', Environmental International, Vol.32, pp.294–302.

Anderberg M. R. (1973), 'Cluster analysis for applications', Academic Press, New York NY and London.

APHA (American Public Health Association). (1980), 'Standard methods for the examination of water and wastewater', 15th edn, Washington, DC.

APHA (American Public Health Association). (1998), 'Standard methods for the examination of water and wastewater', 19th edn, Washington, DC.

APHA (2001), 'Supplement to standard methods for the examination of water and wastewater', 20th ed.; APHA, American water works association, and water pollution control federation, Washington, DC.

Archibald F. (2000), 'The presence of coliform bacteria in Canadian pulp and paper mill water systems – a cause for concern?', Water Quality Research Journal Canada, Vol.35, pp.1–22.

Arnold J.C., Srinivasan R., Muttiah R., and Williams J.R. (1998), 'Large area hydrologic modelingand assessment: Part 1, Model development'. Journal of American Water Resources Association Vol.34, pp. 73-89.

Arseni A. E. and Koumentakou I. (1964), 'Viability of *Pseudomonas aeroginosa*', Journal of Bacteriology, Vol.87, pp.1253.

Ashbolt N., Grohmann G. and Kueh C. (1993), 'Significance of specific bacterial pathogens in the assessment of polluted receiving waters of Sydney', Water Science and Technology, Vol.27, pp.449.

Ashbolt N.J., Grabow W.O. and Snozzi, M. (2001), 'Indicators of microbial water quality', in L. Fewtrell and J. Bartram (eds), water quality – guidelines, standards and health: Assessment of risk and risk management for water-related infectious disease, World Health Organization, Geneva, Switzerland.

ATSDR (Agency for Toxic Substances and Disease Registry), (1989). 'Public Health Statement for Aldrin and Dieldrin, Agency for Toxic Substances and Disease Registry'.

ATSDR (Agency for Toxic Substances and Disease Registry), (1997). 'Tox FAQs for Endrin, gency for Toxic Substances and Disease Registry'.

ATSDR (Agency for Toxic Substances and Disease Registry). (2002), Toxicological Profile for Aldrin/Dieldrin, US Department of Health and Human Services, Public Health Service, Atlanta, GA.

Awofolu R.O. Fatoki O.S. (2003), 'Persistent organochlorine pesticide residues in freshwater systems and sediments from the Eastern Cape, South Africa', Water South Africa, Vol.29, pp.323-330.

Backer E. (1994), 'Computer-assisted reasoning in cluster analysis', Pearson education, 300pp.

Badge U.S. and Varma A.K. (1982), 'Distribution and periodicity of total, fecal coliform bacteria in an aquatic ecosystem', International Journal of Applied Bacteriology, Vol.67, pp.213-217.

Badge U.S. and Rangari A.K. (1999), 'Periodicity of coliforms bacteria in an aquatic environment', Water Science and Technology, Vol.40, pp.151-157.

Baghel V.S., Gopal K., Diwedi S. and Tripathi, R.D. (2005), 'Bacterial indicators of faecal contamination of the Gangetic river system right at its source', Ecological Indicators, Vol.5, pp.49–56.

Balasubramanian A., Sharma K.K. and Sastri J.C.V. (1985), 'Geological and hydrogeochemical evolution of coastal aquifers of Tamiraparani basin, Tamil Nadu', Geophysical Research Bulletin, Vol.23, pp.203-206.

Balasubramanian A. and Sastri J.C.V. (1987), 'Studies .on the quality of groundwater of Tamiraparani river basin, Tanil Nadu, India'. Journal of Association of Exploration Geophysics'. Vol.8, pp.41-51.

Balbus J., Parkin R., Makri A., Ragain L., Embrey M. and Hauchman F. (2004), 'Defining susceptibility for microbial risk assessment: results of a workshop', Risk Analysis, Vol.24, No.1, pp.197–208.

Baudizˇsov´a D. (1997), 'Evaluation of *Escherichia coli* as the main indicator of faecal pollution', Water Science and Technology, Vol.35, pp.333–336.

Begum A., HariKrishna S. and Khan I. (2009), 'A survey of persistent organochlorine pesticides residues in some streams of the Cauvery river, Karnataka, India', International Journal of Chem Tech Research, Vol.1, No.2, pp.237-244.

Berner E.K. and Berner R.A. (1987), 'The Global water cycle: Geochemistry and Environment'; Prentice Hall, Englewood Cliffs, N.J., 397pp.

Berner E.K. and Berner R.A. (1996), 'Global environment: water, air and geochemical cycles', Prentice Hall, New Jersey, 376pp.

Bhanti M. and Taneja A. (2007), 'Contamination of vegetables of different seasons with organophosphorus pesticides and related health risk assessment in northern India', Chemosphere, Vol.69, pp.63–68.

Bhatnagar V.K., Patel J.S., Baria M.R.,Venkaih R., Shah M.P. and Kashyap S.K. (1992), 'Level of organochlorine insecticides in human blood from Ahmedabad (rural) India'. Bulletin Environmental Contamination and Toxicology, Vol.48, pp.302–307.

Bhattacharaya B., Sarkar S.K. and Mukherjee N. (2003), 'Organochlorine pesticide residues in sediments of a tropical mangrove estuary, India: Implications for monitoring', Environmental International, Vol.29, pp.587–592.

Biksham G. and Subramanian V. (1988), 'Nature of solute transport in the Godavary basin India', Journal of Hydrololgy, Vol.103, pp.375-392.

Binderup M.L., Pedersen G.A., Vinggaard A.M., Rasmussen E.S., Rosenquist H. and Cederberg T. (2002), 'Toxicity testing and chemical analyses of recycled

fibre-based paper for food contact', Food Addition and Contamination, Vol.19, pp.13 – 28.

BIS (Bureau of Indian Standards), (2009), 'Draft Indian standard drinking water – specification', (Second Revision of IS 10500) Doc: FAD 25(2047) C.

Blais J.M., Schindler D.W., Muir D.C.G., Kimpe L.E., Donald D.B. and Rosenberg B. (1998), 'Accumulation of persistent organochlorine compounds in mountains of western Canada', Nature, Vol.395, pp.585–588.

Bluth G.J.S. and Kump L.R. (1994), 'Lithologic and climatologic controls of river chemistry', Geochimica et Cosmochimica Acta, Vol.58, No.10, pp.2341-2359.

Bock E., Koops H.P. (1992), 'The genus nitrobacter and related genera. In: Balows', A., Tru¨ per, H.G., Dworkin, M., Harder, W., Shleifer, K.-H. (Eds.), The Prokaryotes, second Ed. Springer, New York, pp.2302–2309.

Bonde G.J. (1977), 'Bacterial indication of water pollution advances in aquatic microbiology', in: M. R. Droop and H. W. Januasch (eds), Academic Press, London and New York, pp. 273–364.

Boonyaratumanond R., Jaksakul A., Puncharoen P. and Tabucanon M.S. (2002), 'Monitoring of organochlorine pesticides residues in green mussels (*Perna viridis*) from the coastal area of Thailand', Environmental Pollution, Vol.119, pp.245–252.

Bordner R. and Winter J. (eds). (1978), 'Microbiological methods for monitoring the environment', EPA 600/8-78-017, US Environmental Protection Agency, Cincinnati.

Borst M. and Selvakumar A. (2003), 'Particle-associated microorganisms in storm water runoff', Water Research, Vol.37, No.1, pp.215– 23.

Bossi R., Laesen B. and Premazze G. (1992), 'Polychlorinated biphenyl congeners and other chlorinated hydrocarbons in bottom sediment cores of lake Garden (Italy)', Science of the Total Environment, Vol.121, pp.77-93.

Boule P., Bolte M. and Richard C. (1999), 'Phototransformations induced in aquatic media by NO_3^- /NO_2^-, Fe-III and humic substances. In: P. Boule (ed.)', The Handbook of Environmental Chemistry Vol. 2.L (Environmental Photochemistry), Springer, Berlin, pp.181–215.

Brock T., Madigan M.T. Martinko J.M. and Parker J. (1994), 'Biology of microorganisms', (7^{th} edn.). New Jersey: Prentice hall.

Brunskill G.J. (1975), 'The chemistry, minerology and rates of sediments in the Mackenzie and Rcupine river watersheds, N.W.T and Yukon', Technological Reporter, Vol.3, pp.566-569.

Bryce S.A., Larsen D.P., Hughes R.M. and Kaufmann P.R. (1999), 'Assessing relative risks to aquatic ecosystems: a mid-Appalachian case study', Journal of American Water Resource Association, Vol.35, No.1, pp.23 – 36.

Bulut S., Erdoðmuþ S.F., Konuk M. and Cemek M. (2010), 'The Organochlorine pesticide residues in the drinking waters of Afyonkarahisar, Turkey', Ekoloji, Vol.19, No.74, pp.24-31.

Burrough P.A. and McDonnell R.A. (1998), 'Principles of Geographical Information Systems', Oxford University Press, Oxford.

Byamukama D., Mach R.L., Kansiime F., Manafa M. and Farnleitner A.H. (2005), 'Discrimination efficacy of faecal pollution detection in different aquatic habitats of a high-altitude tropical country, using presumptive coliforms, *Escherichia coli*, and *Clostridium perfringens* spores', Applied Environmental Microbiology, Vol.71, No.1, pp.65–71.

Cabelli V.J. (1983), 'Water-borne viral infections', in: M. Butler, A.R. Medlen and R. Morris (eds), Viruses and disinfection of water and wastewater, Surrey Press, Guilford, England, pp.107– 130.

Calamari D., Bacci E., Focardi S., Gaggi C., Morosini M. and Vighi M. (1991), 'Role of plant biomass in the global environmental partitioning of chlorinated hydrocarbons', Environmental Science and Technology, Vol.25, pp.1489–1495.

Caldwell L.K., Bartlett D.E., Parker D.E., and Keys D.L. (1982), 'A study of ways to improve the scientific content and methodology of environmental impact analysis', Advanced studies in science, technology and public affairs, School of Public and Environmental Affairs, Indiana University, Bloomington, IN, pp.24–53.

Camper A.K., McFeters G.A., Characklis W.G. and Jones W.L. (1991), 'Growth kinetics of coliform bacteria under conditions relevant to drinking-water distribution systems', Applied Environmental Microbiology, Vol.57, pp.2233–39.

Carrillo M., Estrada E. and Hazen T. C. (1985), 'Survival and enumeration of the fecal indicators *Bifidobacterium adolescentis* and *Escherichia coli* in tropical rain forest watershed', Applied Environmental Microbiology, Vol.50, pp.468–476.

Ce´bron A., Berthe T. and Garnier J. (2003), 'Nitrification and nitrifying bacteria in the lower Seine river and estuary (France)', Applied Environmental Microbiology, Vol.69, pp.7091–7100.

Ce´bron A., Coci M. Garnier J. and Laanbroek H.J. (2004), 'DGGE analysis of the ammonia oxidizing bacterial community structure in the lower Seine River: impact of the Paris wastewater effluents', Applied Environmental Microbiology, Vol.70, pp.6726–6737.

Chakrapani G.J. and Subramanian V. (1990), 'Preliminary studies on the geochemistry of the Mahanadi river basin, India', Chemical Geology, Vol.81, pp. 241–253.

Charles K., Ashbolt N., Ferguson C., Roser D., McGuinness R. and Deere D. (2003), 'Centralised versus decentralised sewage systems: a comparison of pathogen and nutrient loads released into Sydney's drinking water catchments', Water Science and Technology, Vol.48, No.11-12, pp.53– 60.

Chatterjee S.K., Bhattacharjee I. and Chandra G. (2010), 'Water quality assessment near an industrial site of Damodar River, India', Environment Monitoring Assessment, Vol.161, pp.177–189.

Chauhan R.S. and Singhal L. (2006), 'Harmful effects of pesticides and their control through cowpathy', International journal of cow science, Vol.2, No.1, pp.61-70.

Craun G.F. (1978), 'Impact of the coliform standard on the transmission of disease', in: C.W. Hendricks (ed), Evaluation of the microbiology standards for drinking water, U.S. Environmental Protection Agency, Washington, DC, pp.21–35.

Craun G.F. (1986), 'Water borne disease in the United States', CRC Press, Boca Raton, FL.

Daims H., Nielsen J.L., Nielsen P.H., Schleifer K.H. and Wagner M. (2001), 'In situ characterisation of nitrospira like nitrite-oxidizing bacteria active in wastewater treatment plants', Applied Environmental Microbiology, Vol.67, pp.5273–5284.

Dalai T.K. Rengarajan R. and Patel P.P. (2004), 'Sediment geochemistry of the Yamuna river system in the Himalaya: Implications to weathering and transport', Geochemical Journal, Vol.38, pp.441–453.

Darko G. Akoto O. Oppong C. (2008). 'Persistent organochlorine pesticide residues in fish, sediments and water from Lake Bosomtwi, Ghana', Chemosphere, Vol.72, pp.21-24.

Datta D. and Subramanian V. (1997), 'Nature of solute load in the rivers of Bengal basin, Bangladesh', Journal of Hydrology, Vol.198, pp.196-208.

Datta D.K. and Subramanian V. (1998), 'Distribution and fractionation of heavy metals in the surface sediments of the Ganges-Brahmaputra-Meghna river system in the Bengal basin', Environmental Geology, Vol.36, pp.93-102.

DeJong G. (1991), 'Long-term health effects of aldrin and dieldrin. A study of exposure, health effects and mortality of workers engaged in the manufacture and formulation of the insecticides aldrin and dieldrin', Toxicology Letter, (Supplement). pp.1–206.

Deo N. and Ali M. (1993), 'Water quality of a mining area in Keonjhar District for drinking and agriculture', Indian Journal of Environmental Protection, Vol.13, No.9, pp.652-658.

Depetris P.J and Griffin J.J. (1968), 'Suspended load in the Rio de la Plata drainage basin', Sedimentology, Vol.11, pp.53-60.

Dionisi H.M., Layton A.C., Harms G., Gregory I.R., Robinson K.G. and Sayler G.S. (2002), 'Quantification of nitrosomonas oligotropha-like ammonia-

oxidizing bacteria and Nitrospira spp. from full-scale wastewater treatment plants by competitive PCR', Applied Environmental Microbiology, Vol.68, pp.245–253.

Dixon W. and Chiswell B. (1996), 'Review of aquatic monitoring program design', Water Research, Vol.30, pp.1935–1948.

Donald D.B., Stern G.A., Muir D.C.G., Fowler B.R., Miskimmin B.M. and Bailey R. (1998), 'Chlorobornanes in water, sediment and fish from toxaphene treated and untreated lakes in western Canada', Environmental Science and Technology, Vol.32, pp.1391–1397.

Donnelly A, Dalal-Clayton B, Hughers R. (1998), 'A directory of impact assessment guidelines. 2nd edition. London, UK7 International Institute for Environment and Development.

Doong R.A., Sun Y.C., Liao P.L. and Wu S.C. (2002), 'Distribution and fate of organochlorine pesticide residues in sediments from the selected rivers in Taiwan', Chemosphere, Vol.48, pp.237-246.

Doong R.A., Lee S.H., Lee C.C., Sun Y.C. and Wu S.C. (2008), 'Characterization and composition of heavy metals and persistent organic pollutants in water and estuarine sediments from Gao-ping River, Taiwan', Marine Pollution Bulletin, Vol.57, pp.846–857.

Douglas I. (1973), 'Rates of chemical denudation in selected small catchment in eastern Australia', University of Hill occasional papers in Geography. No.21, 131pp.

Drever J.I. (1988), 'The Geochemistry of natural waters', 2nd edn, Prentice Hall, Englewood Cliffs, N.J., pp.437.

Dupré B., Gaillardet J., Rousseau D. and Allegre C.J. (1996), 'Major and trace elements of river-borne material: The Congo basin', Geochimica et Cosmochimica Acta, Vol.60, No.8, pp1301-1321.

Dupré B., Viers J., Jean-Louis D., Polve M., Benezeth P., Vervier P. and Braun J. (1999), 'Major and trace element associated with colloids in organic rich river water: ultrafiltration of natural and spiked solutions', Chemical Geology, Vol.160, pp.63-80.

Ebdon J., Muniesa M. and Taylor H. (2007), 'The application of a recently isolated strain of Bacteroides (GB-124) to identify human sources of faecal pollution in a temperate river catchment', Water Research, Vol.41, pp.3683–3690.

Eckhardt D.A.V. and Stackelberg P.E. (1995), 'Relation of ground-water quality to land use on long Island', New York. Ground water, Vol.33, pp.1019-1033.

Edge T.A. and Hill S. (2007), 'Multiple lines of evidence to identify the sources of fecal pollution at a freshwater beach in Hamilton Harbour, Lake Ontario', Water Research, Vol.41, pp.3585–3594.

Efford I.E. (1975), 'Problems associated with environmental impact studies in Canada. In: Proc workshop on the biological significance of Environmental Impacts', US Nuclear Regulatory Commission, NR-CONF-002, Washington, DC, pp.25–42.

Eriksson G., Jensen S., Kylin H. and Stracham W.M.J. (1989), 'The pine needle as a monitor of atmospheric pollution', Nature, Vol.341, pp.42–44.

Everitt B. (1993), 'Cluster Analysis', 3rd edn., Halsted Press, Division of Wiley, New York.

Exall K., Marsalek J. and Schaefer K. (2004), 'A review of water reuse and recycling, with reference to Canadian practice and potential: 1. Incentives and implementation', Water Quality Research Journal of Canada, Vol.39, No.1, pp.1– 12.

Exner M. and Tuschewitzki G.J. (1993), 'Aktuelle hygienisch-mikrobiologische aspekte der trinkwasser hygiene', Forum Staedte-Hygiene, Vol.45, pp.57–63.

Fairfax S.K. (1978), Science Vol.199, pp.743–748.

Falandysz J., Brudnowska B., Kawano M. and Wakimoto T. (2001), 'Polychlorinated biphenyls and organochlorine pesticides in soils from the southern part of Poland', Archive of Environmental Contamination and Toxicology, Vol.40, pp.173–178.

FAO (Food and Agriculture Organization). (1994), 'Questionnaire on the State of Implementation of the International code of conduct on the distribution and use of pesticides, Rome.

FAO (Food and Agriculture Organization). (2005), 'Proceedings of the Asia Regional Workshop, Regional Office for Asia and the Pacific, Bangkok.

Fatima R.A. and Ahmad M. (2006), 'Allium cepa derived EROD as a potential biomarker for the presence of certain pesticides in water', Chemosphere, Vol.62, pp.527–537.

Feng P.C.S. and Hartman P.A. (1982), 'Fluorogenic assays for immediate confirmation of *Escherichia coli*', Applied Environmental Microbiology, Vol.43, pp.1320–1329.

Ferguson C., Husman A.M.D., Altavilla N, Deere D. and Ashbolt N. (2003), 'Fate and transport of surface water pathogens in watersheds', Critical Review in Environmental Science and Technology, Vol.33, No.3, pp.299– 361.

Fujioka R. (2002), 'Microbial indicators of marine recreational water quality. In C. J. Hurst, R. L. Crawford, G. Knudsen, M. J. McIneney, L. D. Stetzenbach (Eds.), Manual of environmental microbiology (2nd ed.,). Washington DC: American Society for Microbiology Press. pp. 234–243.

Gaillardet J., Dupré B. and Allègre C.J. (1995), 'A global geochemical mass budget applied to the Congo basin river: Erosion rates and continental crust

composition', Geochimica et Cosmochimica Acta, Vol.59, No. 17, pp.3469-3485.

Gaillardet J., Dupré B., Allègre C.J. and Négrel P. (1997), 'Chemical and physical denudation in the Amazon river basin', Chemical Geology, Vol. 142, pp.141-173

Gannon J.T., Manilal V.B. and Alexander M. (1991a), 'Relationship between cell surface properties and transport of bacteria through soil', Applied Environmental Microbiology, Vol.57, pp.90–193.

Garg P.K. (1999), 'Global positioning system – a future scenario', GIS India, Vol.8, No. 4, pp.9-12.

Garnier J., Servais P., Billen G., Akopian M. and Brion, N. (2001), 'The oxygen budget in the Seine estuary: balance between photosynthesis and degradation of organic matter', Estuaries, Vol.24, pp.964–977.

Garrels R.M. and Meckenzie F.T. (1971), 'Gregor's denudation of the continents', Nature, Vol.231. No.5302, pp.382-383.

Garrels R.M., Mackenzie F.T. and Hunt C. (1975), 'Chemical cycle and the global environment', William Kaufman, New York, pp.260.

Gaur V.K., Gupta S.K., Pandey S.D., Gopal K. and Misra V. (2005), 'Distribution of heavy metals in sediment and water of river Gomti', Environmental Monitoring and Assessment, Vol.102, pp.1–3.

Gauthier F. and Archibald F. (2001), 'The Ecology of faecal indicator bacteria commonly found in pulp and paper mill water systems', Water Research, Vol.35, pp.2207–2218.

Gavini F., Leclerc H. and Mossel D.A.A. (1985), '*Enterobacteriaceae* of the coliform group in drinking water: Identification and worldwide distribution', Systematic and Applied Microbiology, Vol.6, pp.312–318.

Geldreich E.E. and Kenner B.A. (1969), 'Concepts of faecal streptococci in stream pollution', Journal of Water Pollution and Control Federation, Vol.41, pp.R336–R352.

Geldreich E.E. (1976), 'Faecal coliform and faecal streptococcus density relationships in waste discharges and receiving waters', Critical Review Environmental Control, Vol.6, pp.349–369

Geldreich E.E. (1978), 'Bacterial population and indicator concepts in feces, sewage, stormwater and solid wastes', in: G. Berg (ed), Indicators of Viruses in Water and Food, Ann Arbor Science, Ann Arbor, Mich. pp.51–97.

George I., Petit M., Theate C. and Servais P. (2001). Distribution of coliforms in the Seine River and Estuary (France) studied by rapid enzymatic methods and plate counts. Estuaries, Vol.24, pp.94–102.

Gessel P.D., Hansen N.C., Goyal S.M., Johnston L.J. and Webb J. (2004), 'Persistence of zoonotic pathogens in surface soil treated with different rates of liquid pig manure', Applied Soil Ecology, Vol.25, No.3, pp.237–43.

Gibbs R.J. (1967), 'The geochemistry of the Amazon river system. Part 1: The factors that control the salinity and the composition and concentration of the suspended solids', Geological Society of America Bulletin, Vol.78, pp.1203-1232.

Gibbs R.J. (1970), 'Mechanism controlling the world water chemistry', Science, Vol.17, pp.1088-1090.

Gibbs R.J. (1972), 'Water chemistry of Amazon river', Geochimica et Cosmochimica Acta, Vol.36, pp.1061-1066.

Gilmore M.S., Coburn P.S., Nallapareddy S.R. and Murray B.E. (2002), 'Enterococcal virulence', In The enterococci: pathogenesis, molecular biology and antibiotic resistance edited by: Gilmore MS, Clewell DB, Courvalin P, Dunny GM, Murray BE, Rice LB. Washington DC: American Society for Microbiology Press, pp.317.

Gilpin A. (1995), 'Environmental impact assessment: Cutting edge for the twenty-first century', Cambridge University Press, Cambridge, UK, 214pp.

Godfree A.F., Kay D. and Wyer M.D. (1997), 'Fecal streptococci as indicators of fecal contamination in water', Journal of Applied Microbiology, Vol.83, pp.110–119.

Goodchild M.F. (1993), 'Data models and data quality: problems and prospects'. In: Goodchild, M.F., Parks, B.O., Steyaert, L.T. (Eds.), Environmental Modeling with GIS. Oxford University Press, New York, pp. 8–15.

Gordeev V.V. and Sidorov I.S. (1993), 'Concentrations of major elements and their out flow into the Laptev Seea by the Lena River', Marine Chemistry, Vol.43, pp.33-45.

Graves A.K., Hagedorn C., Brooks A., Hagedorn R.L. and Martin E. (2007), 'Microbial source tracking in a rural watershed dominated by cattle', Water Research, Vol. 41, pp.3729–3739.

GSI (Geological Survey of India), (2007), 'Application of remote sensing and GIS for Mineral exploration', (6^{th} Course): Centre for Geoinformation Management Training, Hyderabad, 1pp.

Gu¨ler C., Thyne G., McCray J.E. and Turner A.K. (2002), 'Evaluation and graphical and multivariate statistical methods for classification of water chemistry data', Hydrogeological Journal, Vol.10, pp.455–474.

Gunnison D. (1999), 'Evaluating microbial pathogens in reservoirs. Water quality technical notes collection (WQTN PD-03)', US Army Engineer Research and Development Center, Vicksburg, MS. Available at www.wes.army.nil/el/elpubs/wqtn cont. html.

Guo H. and Wang Y. (2004), 'Hydrogeochemical processes in shallow quaternary aquifers from the northern part of the Datong basin, China', Applied Geochemistry, Vol.19, pp.19-27.

Gupta P.K. (1989), 'Pesticide production in India: an overview, in: P.C. Mishra (Ed.), Soil Pollution and Soil Organisms', Ashish Publishing House, New Delhi, pp.1–16.

Gupta L.P. and Subramanian, V. (1994), 'Environmental geochemistry of Gomti river: A tributary of the Ganges river', Environmental Geology, Vol.24, pp.235-243.

Gupta P.K. (2004), 'Pesticide exposure-Indian scene', Toxicology, Vol.198, pp.83–90.

Handa R.K. (1972), 'Geochemistry of Ganges river', Indian Journal of Geohydrology, Vol.13, pp.71-78.

Hartley A.M., House W.A., Callow M.E. and Leadbetter B.S.C. (1997), 'Co-precipitation of phosphorus with calcite in the presence of photosynthesizing green algae', Water Research, Vol.31, pp.2261-2268.

Harwood V.J., Brownell M., Perusek W. and Whitelock J.E. (2001), 'Vancomycin-resistant enterococcus sp. Isolated from waste water and chicken feces in the United States', Applied Environmental Microbiology, Vol.67, pp.4930–4933.

Hasnain S. and Singh A.K.I. (1998), 'Environmental geochemistry of Damodar river basin, east coast of India', Environmental Geology, Vol.37, pp.1–2.

Hattula M.L., Janatuinen J., Sarkar J. and Pasivirta J. (1978), 'A five year monitoring studies of the chlorinated hydrocarbons in the fish of a Finish lake ecosystem', Environmental Pollution, Vol.15, pp.121-139.

Heathwaite A.L. (1997), 'Sources and pathways of phosphorus loss from agriculture', In: Tunny H, Carton OT, Brookes PC, Johnston AE, editors. Phosphorus loss from soil to water. CAB International, pp.205-223.

Heer J.E. and Hagerty D.J. (1977), 'Environmental Assessments and Statements', New York: Van Nostrand Reinhold.

Helena B., Pardo R., Vega M., Barrado E., Fernandez J.M. and Fernandez L. (2000), 'Temporal evolution of groundwater composition in an alluvial aquifer (Pisuerga river, spain) by principal components analysis', Water Research, Vol.34, pp.807-816.

Hernandez J., Ferrus A.A., Hernandez M. and Alonso J.L. (1997), 'Comparison of six different methods for typing *Pseudomonas aeroginosa* strains isolated from bottled and well waters', Water Research, Vol.31, pp.3169.

Herrmann R. (1987), 'Temporal variations of some trace organics (HCB, HCH, PCB and PAH) in rainfall, runoff and in lake sediments in remote sites of New Zealand', Catena, Vol.14, pp.233–48.

Hoadley A.W. (1968), 'On the significance of *Pseudomonas aeroginosa* in surface waters', Journal of Nutrition in England, Water Works Association, Vol.82, pp.99-111.

Hoadley A.W. (1977), 'Potential health hazards associated with Pseudomonas aeruginosa in water', In A.W. Hoadley and B.J. Dutka (ed.), Bacterial indicators/health hazards associated with water. American Society for Testing and Materials, Philadelphia, PA, pp.80–114.

Holas J. and Hrncir M. (2002), 'Integrated watershed approach in controlling point and non-point source pollution within Zelivka drinking water reservoir', Water Science and Technology, Vol.45, No.9, pp.293–300.

Horowitz A.J. (1995), 'The use of suspended sediment and associated trace elements in water quality studies', IAHS Special Publication No.4, IAHS Press, Wallingford, UK, 58pp.

Horowitz A.J. (1997), 'Some thoughts on problems associated with various sampling media used for environmental monitoring', Analyst, Vol.122, pp.1193–1200.

House W.A. and Denison F.H. (1997), 'Nutrient dynamics in a lowland stream impacted by sewage effluent - Great Ouse, England', Science of the Total Environment, Vol.205, pp.25-49.

Houston A.C. (1900), 'On the value of examination of water for Streptococci and Staphylococci with a view to detection of its recent contamination with animal organic matter', In Sup. 29th Annual Report of the Local Government Board containing the Report of the Medical Officer for 1899–1900, London City Council, London, pp. 548.

Howell J.M., Coyne M.S. and Cornelius P.L. (1995), 'Faecal bacteria in agricultural waters of the blue grass region of Kentucky', Journal of Environmental Quality, Vol.24, pp.411–419.

Huang S.W., Chang, C.H. Tai, T.F. and Chang, T.C. (1997), 'Comparison of the β-Glucuronidase assay and the conventional method for identification of *Escherichia coli* on eosin-methylene blue agar', Journal of Food Protection, Vol.60, pp.6–9.

Huming-Hui, Y., Stallard R.F. and Edmond J.M. (1982), 'Major ion chemistry of large Chinese river', Nature, Vol.298. (5874), pp.550-553.

Hunter P.R. (2003), 'Climate change and waterborne and vector-borne disease', Journal of Applied Microbiology, Vol.94, pp.37S– 46S.

Imo S.T., Sheikh M.A., Hirosawa E., Oomori T. and Tamaki. F. (2007), 'Contamination by organochlorine pesticides from rivers', International Journal of Environmental Science and Technology, Vol.4, No.1, pp.1-9.

IPEP (International POPs Elimination Project), (2006), 'Country Situation on Persistent Organic Pollutants (POPs) in India'. Pp.1-57.

Islam M.S., Siddika A., Khan M.N.H., Goldar M.M., Sadique M.A., Kabir A.N.M.H., Huq A. and Colwell R.R. (2001), 'Microbiological analysis of tube-well water in a rural area of Bangladesh', Applied Environmental Microbiology, Vol.67, pp.3328–3330.

Ittekkot V. and Arrain R. (1986), 'Nature of particulate organic matter in river Indus, Pakistan' Geochim.Cosmochim.Acta, Vol.50, pp.1643-1653.

Iwata H., Tanabe S., Sakai N. and Tatsukawa R. (1993a), 'Distribution of persistent organochlorine in the oceanic air and surface seawater and the role of ocean on their global transport and fate', Environmental Science and Technology, Vol.27, pp.1080–1093.

Iwata H., Tanabe S., Sakai N., Nishimura A. and Tatsukwa R. (1994), 'Geographical distribution of persistent organochlorines in air, water and sediments from Asia and Oceania and their implications for global distribution from lower latitudes', Environmental Pollution, Vol.85, pp.15–33.

IWS (1988), 'Water research management studies in Tamil Nadu final project report, UND-CTD', Technical report IWSIB5I01 Institute for Water Studies, Public Works Department, Government of Tamil Nadu, Chennai.

Ize-Iyamu O.K., Asia I.O. and Egwakhide P.A. (2007), 'Concentrations of residues from organochlorine pesticide in water and fish from some rivers in Edo State Nigeria', International Journal of Physical Sciences, Vol. 2, No.9, pp.237-241.

Jain R.K., Urban L.V. and Stacey G.S. (1977), 'Environmental Impact analysis: A new dimension in decision making', New York: Van Nostrand Reinhold.

Jain C.K. and Sharma M.K. (2002), 'Heavy metal transport in the Hindon river basin, India', Water, Air, Soil Pollution, Vol.137, pp.1–19.

Jalees K. and Vemuri R. (1980), 'Pesticide pollution in India', International Journal of Environmental Studies, Vol. 15, pp. 49-54.

James R.A. (2000). Environmental biogeochemistry of Tamiraparani river basin, South India. Ph.D. Thesis submitted to Anna University, Chennai.

Jensen A.A. (1983), 'Chemical Contaminants in Human Milk', Residue Reviews, Vol.89, pp.1-128.

Jimenez L., Muniz I., Toranzos G.A. and Hazen T.C. (1989), 'Survival and activity of *Salmonella typhimurium* and *Escherichia coli* in tropical freshwater', Journal of Applied Bacteriology, Vol.67, pp.61–69.

John P.J., Bakore N. and Bhatnagar P. (2001), 'Assessment of organochlorine pesticide residue levels in dairy milk and buffalo milk from Jaipur city, Rajasthan, India', Environmental International, Vol.26, pp.231–236.

Kannan K., Tanabe S. and Tatsukawa R. (1995), 'Geographical distribution and accumulation features of organochlorine residues in fish in tropical Asia and Oceania', Environmental Science and Technology, Vol.29, pp.2673–2683.

Kannan K., Tanabe S., Giesy J.P. and Tatsukawa R. (1997), 'Organochlrine pesticides and polychlorinated biphenyls in foodstuffs from Asian and Oceanic countries', Review of Environmental Contamination and Toxicology, Vol.152, pp.1–55.

Kannel P.R., Lee S., Kanel S.R., Khan S.P. and Lee Y.S. (2007), 'Spatial–temporal variation and comparative assessment of water qualities of urban river system: a case study of the river Bagmati (Nepal)', Environmental Monitoring and Assessment, Vol.129, pp.433–459.

Karaca M., Deniz A. and Tayanc M. (2000), 'Cyclone track variability over Turkey in association with regional climate', International Journal of Climatology, Vol.20, pp.122-136.

Kassim T.A. and Simoneit B.R.T. (2001), 'Pollutant-solid phase interactions: Mechanisms, chemistry and modeling', The Handbook of Environmental Chemistry (Water Pollution Series), Part E. Springer, Berlin Heidelberg New York, Vol.5, pp.435.

Kassim T.A and Simoneit B.R.T. (2005), 'Environmental Impact Assessment: Principles, methodology and conceptual framework', Handbook Environmental Chemistry, Vol.5, Part F, Vol.1, pp.1–57.

Kataria H.C., Iqbal S.A. and Shandilya A.K. (1997), 'MPN of total coliform as pollution indicator in halali river water of Madhya Pradesh India', Pollution Research, Vol.16, No.4, pp.255–257.

Kaushik C.P., Sharma H.R., Jain S., Dawra J. and Kaushik A. (2008) 'Pesticide residues in river Yamuna and its canals in Haryana and Delhi, India', Environmental Monitoring and Assessment, Vol.144, pp.329–340.

Kenner B.A. (1978), 'Fecal streptococcal indicators', In Indicators of viruses in water and food (ed. G. Berg), Ann Arbor Science, Ann Arbor, MI, pp.147–169.

Khans R.K., Farooq M., Babu G.S., Srivastava S.P., Joshi P.C. and Viswanathan P.N. (1999), 'Agricultural produce in the dry bed of the river Ganga in Kanpur, India—a new source of pesticide contamination in human diets', Food and Chemical Toxicology, Vol.37, pp.847–852.

Khera A.K., Jain D.C. and Dutta K.K. (1996), J. Commun. Dis., Vol.28, pp.129–138.

Kieber R.J., Li A. and Seaton P.J. (1999), 'Production of nitrite from the photodegradation of dissolved organic matter in natural waters', Environmental Science and Technology, Vol.33, pp.993–998.

Kim G., Choi E. and Lee D. (2005), 'Diffuse and point pollution impacts on the pathogen indicator organism level in the Geum river, Korea', Science of the Total Environment, Vol.350, pp.94– 105.

Kistemann T., Dangendorf F. and Exner M. (2001), 'A geographical information system (GIS) as a tool for microbial risk assessment in catchment areas of

drinking water reservoirs', International Journal of Hygiene and Environmental Health, Vol.203, pp.225–233.

Kong R.Y.C., Lee S.K.Y., Law T.W.F., Law S.H.W. and Wu R.S.S. (2002), 'Rapid detection of six types of bacterial pathogens in marine waters by multiplex PCR', Water Research, Vol.36, pp.2802–2812.

Kornacki J.L. and Johnson J.L. (2001), '*Enterobacteriaceae*, Coliforms and *Escherichia coli* as quality and safety indicators', in F. Downs (ed), Compendium of Methods for the Microbiological Examination of Foods, APHA. Washington DC.

Koshy M. and Nayar T.V. (1999), 'Water quality aspects of river pamba', Pollution Research, Vol.18, No.4, pp.501–510.

Krishnaswami S and Singh S.K. (2005), 'Chemical weathering in the river basins of the Himalaya, India', Current Science, vol.89, No.5, pp.841-849.

Kumari V.K. Madan and Kathpal T.S. (2006), 'Monitoring of pesticide residues in fruits', Environmental Monitoring Assessment, Vol.123, pp.407–412.

Kurtz D.A. (Ed), (1990), 'Long range transport of pesticides, Lewis Publishers Inc, Michigan, US.

Lal B. (2007), 'Pesticide-induced reproductive dysfunction in Indian fishes', Fish Physiology and Biochemistry, Vol.33, pp.455–462.

Lal R., Narayana P.S. and Rao V.V.S. (1989), 'Residues of organochlorine insecticides in Delhi vegetable', Bulletin Environmental Contaminants and Toxicology, Vol.42, pp.45–49.

Lallas P. (2001), 'The Stockholm convention on persistent organic pollutants', American Journal of International Law, Vol.95, pp.692–708.

Langenegger O. (1990), 'Ground water quality in rural areas of western Africa', UNDP Project INT/81/026, 10pp.

Langergraber G. and Muellergger E. (2005), 'Ecological sanitation – a way to solve global sanitation problems?', Environment International, Vol.31, pp.433–444.

LeChevallier M.W. (1990), 'Coliform re-growth in drinking water: A review of Research Technology', Journal of American Water Works Association, Vol.82, pp.74–86.

Leclerc H., Mossel D.A., Edberg S.C. and Struijk C.B. (2001), 'Advances in the bacteriology of the coliform group: Their suitability as markers of microbial water safety', Annual Reviews in Microbiology, Vol.55, pp.201–234.

Leong K.H., Tan L.L.B. and Mustafa A.M. (2007), 'Contamination levels of selected organochlorine and organophosphate pesticides in the Selangor river, Malaysia between 2002 and 2003', Chemosphere, Vol.66, pp.1153–1159.

Li J., Zhu T., Wang F., Qiu X.H. and Lin W.L. (2006), 'Observation of organochlorine pesticides in the air of the Mt. Everest region', Ecotoxicology and Environmental Safety', Vol.63, pp.33–41.

Lin S., Evans R.L. and Beuscher D.B. (1974), 'Bacteriological assessment of Spoon river water quality', Applied Microbiology, pp.288-297.

Lipp E.K., Farrah S.A. and Rose J.B. (2001), 'Assessment and impact of microbial fecal pollution and human enteric pathogens in a coastal community. Marine Pollution Bulletin, Vol.42, No.4, pp.286– 93.

Livingstone D.A. (1963), 'Chemical composition of rivers and lakes, data on geochemistry', U.S. Geological Survey, 440G: G1-G64, 2235pp.

Loganathan B.G. and Kannan K. (1994), 'Global organochlorine contamination trends: an overview', Ambio 23, pp-187-191.

Lopez-Torres A.J., Hazen T.C. and Toranzos G.A. (1987), 'Distribution and in situ survival and activity of *Klebsiella pneumoniae* and *Escherichia coli* in tropical rain forest watershed', Current Microbiology, Vol.15, pp.213–218.

Lowbury E.J.L. (1975), 'Ecological importance', of Pseu-Clarke and M.H. Richmond (ed.), Genetics and biochemistry of *Pseudomonas*. John Wiley and Sons, Inc., London.

Lu Y., Morimoto K., Takeshita T., Takevchi T. and Saito T. (2000), 'Genotoxic effects of alpha endosulfan and beta endosulfan on human Hep G2 cells', Environment Health Perspective, Vol.108, pp.559–561.

Ma X., Ran Y., Gong J. and Zou M. (2007), 'Concentrations and inventories of polycyclic aromatic hydrocarbons and organochlorine pesticides in watershed soils in the Pearl River Delta, China', Environmental Monitoring and Assessment, Vol.145, No. 1-3, pp.453-464.

Malik A., Ojha P. and Singh K.P. (2009), 'Levels and distribution of persistent organochlorine pesticide residues in water and sediments of Gomti river (India)—a tributary of the Ganges river', Environmental Monitoring Assessment, Vol. 148, pp.421-435.

Maron P.A., Coeur C., Pink C., Clays-Josserand A., Lensi R., Richaume A. and Potier P. (2003), 'Use of polyclonal antibodies to detect and quantify the NOR protein of nitrite oxidizers in complex environments', Journal of Microbiological Methods, Vol.53, pp.87–95.

Martins M.T., Rivera I.G., Clark D.L., Stewart M.H., Wolfe R.L. and Olson B.H. (1993), 'Distribution of uidA gene sequences in *Escherichia coli* isolates in water sources and comparison with the expression of beta-glucuronidase activity in 4-methylumbelliferyl-beta-D-glucuronide media', Applied Environmental Microbiology, Vol.59, No.7, pp.2271–2276.

Maul J.D. and Cooper C.M. (2000), 'Water quality of seasonally flooded agricultural fields in Mississippi USA', Agriculture, Ecosystem & Environment, Vol. 81, No.3, pp.171–178.

McBride G.B., Salmon C.E., Bandaranayake D.R., Turner S.J., Lewis G.D. and Till D.G. (1998), 'Health effects of marine bathing in New Zealand', International Journal of Environmental Health and Research, Vol.3, pp.173–189.

McCrea R.C., Kwiatkowski R.E., Campbell D.E., McCarthy P.P. and Norris T.A. (1984), 'An investigation of contaminants and benthic communities in the major rivers of the Hudson Bay lowland, Ontario', Environment Canada, Inland Waters Directorate, Technical Bulletin.

Mcdaniels A.E., Bordner R.H., Gartside P.S., Haines J.R., Conner K.P. and Rankin C.C. (1985), 'Holding effects on coliform enumeration in drinking water samples', Applied Environmental Microbiology, Vol.50, pp.755–762.

McLay C.D.A., Dragten R, Sparling G. and Selvarajah N. (2001), 'Predicting groundwater nitrate concentrations in a region of mixed agricultural land use: a comparison of three approaches', Environmental Pollution, Vol.115, pp.191-204.

McLellan S.L., Daniels A.D. and Salmore A.K. (2001), 'Clonal populations of thermotolerant enterobacteriaceaes in recreational water and their potential interference with faecal *Escherichia coli* counts, Appllied Evnironmental Microbiology, Vol.67, pp.4934– 4938.

McLellan S.L. and Salmore A.K. (2003), 'Evidence for localized bacterial loading as the cause of chronic beach closings ion a freshwater marina', Water Research, Vol.37, pp.700–2708.

McMurry S.W., Coyne M.S. and Perfect E. (1998), 'Fecal coliform transport through intact soil blocks amended with poultry manure', Journal of Environmental Quality, Vol.27, No.1, pp.86– 92.

Meybeck M. and Carbonnel J.P. (1975), 'Chemical transport by Mekong river'. Nature, Vol.225, pp.134-136.

Meybeck M. (1979), 'Dissolved load of World Rivers', Review of Geology Dynasty Geographical Physics, Vol.21, pp.215-246.

Meybeck M. (1982), 'Carbon, nitrogen and phosphorus transport by world rivers', American Journal of Science, Vol.282, pp.401-450.

Meybeck M. (1987), 'Global chemical weathering of surficial rocks estimated from river dissolved load', American Journal of Science, Vol.287, pp.401–428.

Milliot G. (1970), 'Geology of clays', Springer, Berlin Heildelberg New York.

Mills A.L., Herman J.S., Hornberger G.M. and DeJesus T.H. (1994), 'Effect of solution ionic strength and iron coatings on mineral grains on the sorption of

bacterial cells to quartz sand', Applied Environmental Microbiology, Vol.60, pp.3300–3306.

Misra V. and Bakre P.P. (1994), 'Organochlorine contaminants and avifauna of Mahala water reservoir, Jaipur, India', Science of the Total Environment, Vol.144, pp.145–151.

MoCF (Ministry of Chemicals and Fertilizers) (2005-06), 'Annual Report of Ministry of Chemicals and fertilizers, Department of Chemicals and Petrochemicals', pp.54-55.

Mohandass C., Nair S., Achuthankutty C. T. and Loka Bharathi P.A. (2000), 'Pollution monitoring of coastal and estuarine areas: I. Bacterial indicators along the south Gujarat coast', Indian Journal of Marine Sciences, Vol.29, pp.43-47.

Mohapatra B.C. and Saha C. (2000), 'Pesticides in aquatic environment. In: Aquatic Pollution and Management, first ed. Central Institute of Fresh water Aquaculture', pp.29–53.

Momtaz S. (2002), 'Environmental impact assessment in Bangladesh: a critical review', Environmental Impact Assessment Review, Vol.22, No.2, pp.163 –79.

Mukherjee D., Chattopadhaya M. and Lahiri S.C. (1993), 'Water quality of the river Ganga (The Ganges) and some of its physicochemical properties', Environmentalist, Vol.13, pp.199–210.

Murray B.E. and Weinstock G.M. (1999), 'Enterococci: new aspects of an old organism', Proceedings of the Association of American Physicians, Vol.111, pp.328-334.

Murray R.W. (2002), 'Forty years after Silent Spring, Analytical Chemistry', Vol.74, pp.501A–501A.

Nagvenkar G.S. and Ramaiah N. (2009), 'Abundance of sewage-pollution indicator and human pathogenic bacteria in a tropical estuarine complex', Environment Monitoring and Assessment, Vol.155, pp.245-256.

Naidu A.S., Mowatt T.C., Somayajulu B.L.K. and Rao K.S. (1985), 'Characteristics of clay minerals in the bed loads of major rivers in India', SCOPE/UNEP, Hamburg, pp.559–569.

Narayansawamy S. and Purnalakshmi N. (1967), 'Charnockiitc rocks of Tirunelveli district, Madras', Geological Society of India, Vol.8, pp.38-50.

Narayansawamy S. and Purnalakshmi N. (1993), 'Charnockiitc rocks of Tirunelveli district, Madras', In: Continental crust of South India, Memoir of Geological Society of India, Vol.25, pp.135-153.

Nevondo T.S. and Cloete T.E. (1999), 'Bacterial and chemical quality of water supply in the Dertig village settlement', Water South Africa, Vol.25, No.2, pp.215–220.

Niewolak S. (1998), 'Total viable count and concentration of enteric bacteria in bottom sediments from the Czarna Hańcza river, Northeast Poland', Polish Journal of Environmental Studies, Vol.7, No.5, pp.295-306.

Noble B.F. (2000), 'Strategic environmental assessment: what is it and what makes it strategic?', Journal of Environmental Assessment Policy and Management, Vol.2, No.2, pp.203 –24.

Noble R.T., Moore D.F., Leecaster M.K., McGee C.D. and Weisberg S.B. (2003), 'Comparison of total coliform, faecal coliform, and Enterococcus bacterial indicator response for ocean recreational water quality testing', Water Research Vol.37, pp.1637–1643.

Novotny V. (1999), 'Diffuse pollution from agriculture: A worldwide outlook', Water Science and Technology, Vol.39, pp.1-13.

Obi C.L., Potgieter N., Bessong P.O. and Matsaung G. (2002), 'Assessment of the microbial quality of river water sources in rural Venda communities in South Africa', Water South Africa, Vol.28, No.3, pp.287–292.

Ohrui K. and Mitchell M.J. (1998), 'Stream water chemistry in Japanese watersheds and its variability on a small regional scale', Water Recourse Research, Vol.34, pp.1553– 1561.

Panigrahy B.K. and Raymahashay B.C. (2005), 'River water quality in weathered limestone: A case study in upper Mahanadi basin, India', Journal of Earth System Science, Vol.114, pp.533–543.

Parveen S., Hodge N.C., Stall R.E., Farrah S.R. and Tamplin M.l. (2001), 'Phenotypic and genotypic characterization of human and nonhuman *Escherichia coli*', Water Research, Vol.35, No.2, pp.379–386.

Pathak S.P., Gopal K. (2001), 'Rapid detection of *Escherichia coli* as an indicator of faecal pollution in water', Indian Journal of Microbiology, Vol.41, pp.139–151.

Pellet S., Bigley D.V. and Grimes D.J. (1983), 'Distribution of *Pseudomonas aeruginosa* in Riverine ecosystem', Applied Environmental Microbiology, Vol.45, pp.328.

Pillai M.K.K. (1986), 'Pesticide pollution of soil, water and air in Delhi area, India', Science of the Total Environment, Vol.55, pp.321–327.

Piper A.M. (1994), 'A graphic procedure in the geochemical interpretation of water analysis, Union Trans', Journal of American Geophysics, Vol.25, pp.914-928.

Pollack M. (2000), '*Pseudomonas aeruginosa*'. In: Mandell GL, Bennett JE, Dolin R, eds. Principles and Practice of Infectious Diseases. 5th Ed. New York, NY: Churchill Livingstone, pp.2310-27

Poolpak T., Pokethitiyook P., Kruatrachue M., Arjarasirikoon U. and Thanwaniwat N. (2008), 'Residue analysis of organochlorine pesticides in the

Mae Klong river of central Thailand, Journal of Hazardous Materials, Vol.156, pp.230–239.

Power K. and Marshall K.C. (1988), 'Cellular growth and reproduction of marine bacteria on surface bound substrate', Biofouling, Vol.1, pp.163–74.

Rajendran R.B. and Subramanian A.N. (1997), 'Pesticide residues in water from the river Kaveri, South India', Chemical Ecology, Vol.13, pp.223–236.

Rajendran R.B. and Subramanian A.N. (1999), 'Chlorinated pesticide residues in surface sediments from the River Kaveri, South India', Journal of environmental science and health. Part B: Pesticides, food contaminants, and agricultural wastes (USA), pp.269-288.

Rajendran R.B., Venugopalan V.K. and Rames R. (1999), 'Pesticide residues in air from coastal environment, South India', Chemosphere, Vol.39, pp.1699–1706.

Ramaiah N., Kolhe V. and Sadhasivan A. (2004), 'Abundance of pollution indicator and pathogenic bacteria in Mumbai waters', Current Science, Vol.87, pp.435–439.

Ramanathan A.L., Vaithyanathan P., Subramanian V. and Das B.K. (1994), 'Nature of solute load from Cauvery river, South India', Water Research, Vol.28, pp.1585-1593

Ramesh R. and Subramanian V. (1988), 'Nature of the dissolved load of the Krishna river basin, India', Journal of Hydrology, Vol. 103, pp.139-155.

Ramesh S., Tanabe H., Tatsukawa R., Subramanian A.N., Palaichamy S., Mohan D. and Venugopalan V.K. (1989), 'Seasonal variations of organochlorine insecticide residues in air from Porto Novo, South India', Environmental Pollution, Vol.62, pp.213–222.

Ramesh S., Tanabe H., Iwata R., Tatsukawa A., Subramanian D., Mohan V.K. and Venugopalan V.K. (1990), 'Seasonal variation of persistent organochlorine insecticide residues in Vellar river waters in Tamil Nadu, South India', Environmental Pollution, pp.289–304.

Ramesh A., Tanabe S., Iwata H., Tatsukawa R., Subramanian A.N., Mohan D. and Venugopalan V.K. (1990a), 'Seasonal variation of persistent organochlorine insecticide residues in Vellar River waters Tamil Nadu, South India', Environmental Pollution, Vol.67, No.4, pp.289–301.

Ramesh S., Tanabe H., Murase A., Subramanian R. and Tatsukawa. (1991), 'Distribution and behavior of persistent organochlorine insecticides in paddy soil and sediments in the tropical environment: a case study in South India', Environmental Pollution, Vol.74, pp.293–307.

Ramesh R., Shiv Kumar K., Eswaramoorthy S. and Purvaja G.R. (1995), 'Migration and contamination of major and trace elements in groundwater of Madras city, India', Environmental Geology, Vol.25, pp.126–136.

Ramesh R and Anbu M. (1996), 'Chemical methods for environmental analysis', Macmillan India Ltd, Chennai, 210pp.

Ramteke P.W., Pathak S.P., Bhattacherjee J.W., Gopal K. and Mathur N. (1994), 'Evaluation of the presence-absence (P-A) test. A simplified bacteriological test for detecting coliform in rural drinking water of India', Environmental Monitoring and Assessment, Vol.33, pp.53–59.

Ramteke P.W. (1995), 'Comparison of standard most probable number method with three alternate tests for detection bacteriological water quality indicators', Environmental Toxicology Water Quality, Vol.10, pp.173–178.

Ramteke P.W. and Tewari S. (2002), 'Comparative study of fluorogenic and chromogenic media for specific detection of environmental isolates of thermotolerant *Escherichia coli*', Environmental Monitoring and Assessment, Vol.79, pp.121–127.

Ravichandran S., Ramanibai R. and Pundarikanthan. (1995), 'Ecoregions for describing water quality patterns in Tamiraparani basin, South India', Journal of Hydrology, Vol.178, pp.257-276.

Ravichandran S., Ramanibai R. and Pundarikanthan N.V. (1996), 'Ecoregions for describing water quality patterns in Tamiraparani basin, South India', Journal of Hydrology, Vol.178, pp.257-276.

Ravichandran S. (2003), 'Hydrological influences on the water quality trends in Tamiraparani basin, South India', Environmental Monitoring and Assessment, Vol.87, pp.293-309.

Ray S.B., Mohanti M. and Somayajulu B.L.K. (1984), 'Suspended matter, major cations and dissolved silicon in the estuarine waters of the Mahanadi river, India', Journal of Hydrology, Vol.69, pp.183–196.

Raymahasay B.C. (1970), 'Charecteristic of stream erosion in the Himalayan region of India', Hydrogeochemistry and biogeochemistry, Vol.1, pp.82-89.

Raymahasay B.C. (1987), 'A Comparative study of clay minerals for pollution control', Journal of Geological Society of India, Vol.30, pp.408-413.

Raymond F. (1992), 'Le Problame dis ean dans le monde (problems of water)', EB and Sons Ltd., UK, pp.123-126.

Rehana Z., Malik A. and M. Ahmad. (1995), 'Mutagenic activity of the ganges water with special reference to the pesticide pollution in the river between Kachla to Kannauj (U.P.), India', Mutation Research/Genetic Toxicology, Vol.343, No.2-3, pp.137-144.

Rehana Z., Malik A. and Ahmad M. (1996), 'Genotoxicity of the Ganges water at Narora (U.P.), India', Mutation Research, Vol.367, pp.187–193.

Riedel G.F., Tvvilliams S.A., Riedel G.S., Oilmour C.C. and Sanders J.G. (2000), 'Temporal and spatial patterns of trace elements in the Patuxent river: a whole watershed approach', Estuaries, Vol.23, pp.521–535.

Rissato S.R. Galhiane M.S. Ximenes V.F. de Andrade R.M.B. Talamoni J.L.B. Libanio M. de Almeida M.V. Apon B.M. and Cavalari A.A. (2006),'Organochlorine pesticides and polychlorinated biphenyls in soil and water samples in the Northeastern part of Sao Paulo State, Brazil', Chemosphere, Vol. 65, pp.1949-1958.

Rode M. and Suhr U. (2007), 'Uncertainties in selected river water quality data', Hydrology and Earth System Sciences, Vol.11, pp.863–874.

Rogan W.J. and Aimin Chen M.D. (2005), 'Health risks and benefits of bis (4-chlorophenyl)-1, 1, 1-trichloroethane (DDT)', The Lancet, Vol.366, pp.763-773.

Rotthauwe J.H., Witzel K.P. and Liesack W. (1997), 'The ammonia mono-oxygenase structural gene amoA as a functional marker: molecular fine-scale analysis of natural ammonia-oxidizing populations'. Applied Environmental Microbiology, Vol.63, pp.4704–4712.

Ruiz F., Gomis V. and Blasco P. (1990), 'Application of factor analysis to the hydrogeochemical study of a coastal aquifer', Journal of Hydrology, Vol.119, pp.169–177.

Rusin P.A., Rose J.B., Gerba C.P. (1997), 'Health signify cance of pigmented bacteria in drinking water', Water Science and Technology, Vol.35, pp.21.

Sadler B. (1996). Environmental Assessment in a Changing World: Evaluating Practice to Improve Performance. International Study of the Effectiveness of Environmental Assessment, Final Report. Canadian Environmental Assessment Agency, Canada.

Sadler B. (1999), 'Environmental sustainability assessment and assurance'. In: Petts J, editor. Handbook on environmental impact assessment. London, Blackwell; pp.12–32.

S**alyers A. and Whitt D**. (2002), 'Bacterial pathogenesis: A Molecular Approach', 2nd Edn', ASM Press Washington, DC.

Samoh A.N.H. and Ibrahim M.S., (2008), Organochlorine pesticide residues in the major rivers of Southern Thailand. Malaysia, Journal of Analytical Science, Vol.12, pp.280-284.

Sarin M.M. and Krishnaswamy S. (1984) 'Major ion chemistry of Ganga-Brahmaputra river system, India', Nature Vol. 312, No.5994, pp.538-541.

Sarin M.M., Krishnaswamy S., Dilli K., Somayajulu B.L.K. and Moore W.S. (1989), 'Major ion chemistry of the Ganges-Brahmaputra river system, weathering process, fluxes to the Bay of Bengal', Geochimica et Cosmochimica Acta, Vol.53, pp.997-1009.

Sarita Verma. (2009), 'Seasonal Variation of Water Quality in Betwa River at Bundelkhand Region, India', Global Journal of Environmental Research, Vol.3, No.3, pp.164-168.

Sarkar R.S. and Gupta. (1989), 'Determination of organochlorine pesticides in Indian coastal water using a moored in situ sampler', Water Research, Vol.23, pp.975–978.

Sarkar S.K, Bhattacharya B.D., Bhattacharya A., Chatterjee M., Alam A., Satpathy K.K. and Jonathan M.P. (2008), 'Occurrence, distribution and possible sources of organochlorine pesticide residues in tropical coastal environment of India: An overview', Environment International, Vol.34, pp.1062-1071.

Saxena D.P., Joos P., Grieken V. and Subramanian V. (2001), 'Sedimentation rate of the floodplain sediments of the Yamuna river basin (tributary of the river Ganges, India) by using 210Pb and 137Cs techniques', Journal of Radio Analytical and Nuclear Chemistry, Vol.251, pp.399–408.

Schaffter N. and Parriaux A. (2002), 'Pathogenic-bacterial water contamination in mountainous catchments', Water Research, Vol.36, pp.131-139.

Schillinger J.E. and Gannon J.J. (1985), 'Bacterial adsorption and suspended particles in urban stormwater', Journal of Water Pollution Control Federation, Vol.57, No.5, pp.384– 9.

Scholl M.A., Mills A.L., Herman J.S. and Hornberger G.M. (1990), 'The influence of mineralogy and solution chemistry on the attachment of bacteria to representative aquifer materials', Journal of Contamination and Hydrology, Vol. 6, pp.321–336.

Scott T.M., Rose J.B., Jenkins T.M., Farrah S.R. and Lukasik J. (2002), 'Microbial source tracking: current methodology and future directions', Applied Environmental Microbiology, Vol.68, No.12, pp.5796–5803.

Shah V.G., Dunstan R.H., Geary P.M., Coombes P., Roberts T.K. and Nagy-Felsobuki E.V. (2007), 'Evaluating potential applications of faecal sterols in distinguishing sources of faecal contamination from mixed faecal samples', Water Research, Vol.41, pp.3691–3700.

Shankar T.V., Zynudheen A.A., Anandan R. and Nair P.G.V. (2006), 'Distribution of organochlorine pesticides and heavy metal residues in fish and shellfish from Calicut region, Kerala, India', Chemosphere, Vol.65, pp.583–590.

Shetty P.K. (2001), 'Creation of Database on Use and Misuse of Pesticides in India, DST-NIAS Report, Bangalore.

Shrestha S. and Kazama F. (2007), 'Assessment of surface water quality using multivariate statistical techniques: A case study of the Fuji river basin, Japan', Environmental Modeling and Software, Vol.22, pp.464-475.

Shrihari S. and Avvannavar M.S. (2008), 'Evaluation of water quality index for drinking purposes for river Netravathi, Mangalore, South India', Environmental Monitoring and Assessment, Vol.141, pp.201-212.

Simonich S.L. and Hites R.A. (1995), 'Global distribution of persistent organochlorine compounds', Science, Vol.269, pp.1851–1854.

Singh K.P., Malik A., Sinha S., Singh V.K. and Murthy R.C. (2005), 'Estimation of source of heavy metal contamination in sediments of Gomti river (India) using principal component analysis', Water, Air, Soil Pollution,Vol.166, pp.321–341.

Singh A. P., Ghosh S. K. and Sharma P. (2007), 'Water quality management of a stretch of river Yamuna: An interactive fuzzy multi-objective approach', Water Resource Management, Vol.21, pp.515–532.

Singh M. and Singh A.K. (2007), 'Bibliography of environmental studies in natural characteristics and anthropogenic influences on the Ganga river', Environmental Monitoring Assessment, Vol.129, pp.421–432.

Singh P.B and Singh V. (2008), 'Pesticide bioaccumulation and plasma sex steroids in fishes during breeding phase from north India', Environmental Toxicology and Pharmacology, Vol.25, pp.342–350.

Sinha N., Narayan R., Shankar R. and Saxena D.K. (1995), 'Endosulfan induced biochemical changes in the testis of rats', Veterinary and Human Toxicology, Vol.37, pp.547–551.

Sinton L.W., Finlay R.K. and Hannah D.J. (1998), 'Distinguishing human from animal contamination in water: a review', New Zealand Journal of Marine and Freshwater Research, Vol.32, pp.323–348.

Skaliy P. and Eagon R.G. (1972), 'Effect of physiological age and state on survival of desiccated *Pseudomonas aeroginosa*', Applied Microbiology, Vol.24, pp.763-767.

Slanetz L.W. and Bartley C.H. (1957), 'Numbers of enterococci in water, sewage and feces determined by the membrane filter technique with an improved medium', Journal of Bacteriology, Vol.74, pp.591–595.

Sood A., Singh K.D., Pandey P. and Sharma S. (2008), 'Assessment of bacterial indicators and physicochemical parameters to investigate pollution status of Gangetic river system of Uttarakhand (India)', Ecological indicators, Vol.8, pp.709 – 717.

Srivastava V.K. (2001). 'Role of remoate sensing and global positioning system in land environment management in mining area' proceeding on 4th conference on coal mine surveying. pp.11-15.

Stallard R.F. and Edmond L.M. (1983), 'Geochemistry of the Amazon, 2: The influence of geology and weathering environment on the dissolved load', Journal of Geophysical Research, Vol.88, pp.9671–9688.

Stevens M., Ashbolt N. and Cunliffe D. (2001), 'Microbial indicators of water quality' – An NHMRC Discussion Paper.

Subramanian V. (1983), 'Factors controlling the chemical composition of river waters of India', Proceedings of the Hamburg Symposium, Vol.141, pp.145-151.

Subramanian V. (1984), 'River transport of phosphorus and genesis of ancient phosphorites', Special publication in Geological Survey of India, Vol.17, pp.11-15.

Subramanian V. (1987), 'Environmental geochemistry of Indian river basins-a review', Journal of Geological Society of India, Vol.29 pp, 205–220.

Subramanian V., Biksham G. and Ramesh R. (1987), 'Environmental Geology of peninsular river basin of India', Journal of Geological Society of India, Vol.30, pp.393-401.

Subramanian V. (1993), 'Sediments load of the Indian rivers', Current Science, Vol. 64, pp.928–930.

Subramanian A.N., Mohan R.S.L., Karunagaran V.M. and Rajendran R.B. (1999), 'Concentrations of HCHs and DDTs in the tissues of river dolphins *Platanista gangetica*', Chemical Ecology, Vol.16, pp.143–150.

Subramanian V. (2000), 'Transfer of phosphorus from the Indian sub-continent to the adjacent oceans', Society of Sedimentary Geology, SEPM Special publication Vol.66, pp.77-88.

Subramanian V. (2004), 'Water quality in South Asia. Asian journal of Water', Environmental and Pollution, Vol.1, No.1 & 2, pp.41-54.

Subramanian A., Ohtake M., Kunisue T. and Tanabe S. (2007), 'High levels of organochlorines in mother's milk from Chennai (Madras) city, India, Chemosphere, Vol.68, pp.928–939.

Szewzyk U., Manz W., Amann R., Schleifer K.H. and Stenstr¨om T.A. (1994), 'Growth and in situ detection of a pathogenic *Escherichia coli* in biofilms of a heterotrophic water-bacterium by use of 16S- and 23S-rRNA-directed fluorescent oligonucleotide probes', FEMS Microbiology Ecology, Vol.13, pp.169–176.

Szewzyk U., Szewzyk R., Manz W. and Schleifer K.H. (2000), 'Microbiological safety of drinking water', Annual Review Microbiology, Vol.54, pp.81–127.

Takeoka H., Ramesh A., Iwata H., Tanabe S., Subramanian A., Mohan D., Nagendran A. and Tatsukawa R. (1991), 'Fate of the insecticide HCH in the tropical coastal area of South India', Marine Pollution Bulletin, Vol.22, pp.290–297.

Tallon P., Magajna B., Lofranco C. and Leung K. (2005), 'Microbial indicators of fecal contamination in water: a current perspective', Water Air Soil Pollution, Vol.166, pp.139- 166.

Tanabe S., Ramesh A., Sakashita D., Iwata H., Tatsukawa R., Mohan D. and Subramanian A. (1991), 'Fate of HCH (BHC) in tropical paddy field: application test in south India', International Journal of Analytical Chemistry, Vol.45, pp.45–53.

Tanabe S., Subramanian A., Ramesh A., Kumaran P., Miyazaki N. and Tatsukawa R. (1993), 'Persistent organochlorine residues in dolphins from the Bay of Bengal, South India', Marine Pollution Bulletin, Vol.26, pp.311–316.

Tanabe S., Senthilkumar K., Kannan K. and Subramanian A. (1998), 'Accumulation features of polychlorinated biphenyls and organochlorine pesticides in resident and migratory birds from South India', Archive Environmental Contamination and Toxicology, Vol.34, pp.387–397.

Tanabe S., Furukawa H., Nishibuchi M. and Kono Y. (Eds.). (2004), 'Contamination and toxic effects of persistent organic pollutants in wildlife and Humans in Asia', The Kyoto University Press, Japan, pp. 335–350.

Tariq J., Ashraf M. and Afzal M. (1996), 'Pollution status of the Indus river, Pakistan, through heavy metal and macronutrient contents of fish, sediment and water', Water Research, Vol.30, pp.1337-1344.

Thomann R. and Mueller J.A. (1987), 'Principles of surface water quality modeling and control', New York7 Harper and Row, 644pp.

TNDR (Tamil Nadu Development Report). (2005), Planning Commission, Government of India.

Turusov V., Rakitsky V. and Tomatis L. (2002), 'Dichlorodiphenyltrichloroethane (DDT): Ubiquity, persistence, and risks', Environmental Health Perspectives, Vol.110, pp.125–128.

Turvey N.D. (1975), 'Water quality in tropical rain forested catchment', Journal of Hydrology, Vol.27, pp.111-125.

UNEP (United Nations Environment Program). (1988), 'Environmental impact assessment: basic procedures for developing countries'. Bangkok UNEP Regional Office for Asia and the Pacific.

UNEP (2003), 'Global report on regionally based assessment of persistent toxic substances', Geneva, Switzerland: UNEP Chemicals.

USEPA (United States Environmental Protection Agency). (1986), 'Ambient Water Quality Criteria for Bacteria', U.S. Environmental Protection Agency. EPA-440/5-84-002., Washington DC:

USEPA (US Environmental Protection Agency), (1996), 'Method 3630', Revision C, Washington, DC, USA.

USEPA (U.S. Environmental Protection Agency). (1999), 'Draft guidance for water quality-based decisions: the TMDL process', Washington, D.C.7 U.S. Environmental Protection Agency.

USEPA (1999a), 'The Ecological Condition of Estuaries in the Gulf of Mexico. Gulf Breeze, FL, U.S. Environmental Protection Agency', Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division Technical Report No EPA 620-R-98-004.

USEPA (2000), 'Atlas of America's Polluted Waters. Washington DC, U.S. Environmental Protection Agency, Office of Water (4503F) Report No EPA 840-B-00-002.

USEPA (U.S. Environmental Protection Agency). (2001), 'Protocol for developing1 pathogen TMDLs EPA 841-R-00-002. Office of water (4503F)', Washington, DC7 United States Environmental Protection Agency.

USEPA. (2001), 'Protocol for developing pathogen TMDLs', EPA-841-R- 00-002; U.S. Environmental Protection Agency, Office of Water: Washington, DC.

USEPA Bacterial Water Quality Standards for Recreational Waters (Freshwater and Marine Waters). EPA-823-R-03-008 (2003), [http://www.epa.gov/waterscience/beaches/local/statrept.pdf].Washington, DC: U.S. Environmental Protection Agency

Vaidya S.Y., Vala A.K. and Dube H.C. (2001), 'Bacterial indicators of faecal pollution and Bhavnagar coast. India', Journal of Microbiology, Vol.41, pp.37–39.

Vaithiyanathan P., Subramanaian V. and Ramanathan A.L. (1989), 'Transport an distribution of phosphorus by the rivers of India', Geological Society of India Memoir, Vol. 13, pp.127-137.

Valdiya K.S. (1984), 'Aspects of tectonics: Focus on south-central Asia', Tata McGraw- Hill. New Delhi.

Van Asperen I. A., Medema G.J., Borgdorff M.W., Sprenger M.J.W. and Havelaar A.H. (1998), 'Risk of gastroenteritis among triathletes in relation to faecal pollution of fresh waters', International Journal of Epidemiology, Vol.27, pp.309–315.

Van der Hoff G.R. and van Zoonen P. (1999), 'Trace analysis of pesticides by gas chromatography, Journal of Chromatography, A, Vol.843, pp.301–322.

Vassilev K. and Kambourova V. (2006), 'Pesticides as global environmental pollutants L. Simeonov and E. Chirila (eds.), Chemicals as Intentional and Accidental Global Environmental Threats', pp.173–191.

Veeraiah K. and Durga Prasad M.K. (1996), 'A study on the organochlorine pesticides residue input into Kolleru through Tammieleru river', Ecological Environmental Conservation, Vol.2, pp.83-86.

Venkatesharaju K., Somashekar R.K. and Prakash K. L. (2010), 'Study of seasonal and spatial variation in surface water quality of Cauvery river stretch in Karnataka', Journal of Ecology and the Natural Environment, Vol.2, No.1, pp .001-009.

Venkateshwarlu P., Mohan K.R., Kumar C.R. and Seshaiah K. (2007), 'Monitoring of multiclass pesticide residues in fresh grape samples using liquid chromatography with electron mass spectrometry', Food Chemistry, Vol.105, pp.1760–1766.

Venter S.N. (2001), 'Microbial water quality in the 21st century', Water South Africa, Vol.27, No.1, pp.16–17.

Vikaskumar G.H., Dunstan R.H., Geary P.M., Coombes P., Roberts T.K. and Rothkirch T. (2007), 'Comparison of water quality parameters from diverse catchments during dry periods and following rain events', Water Research, Vol.41, pp.3655–3666.

Vinneras B., Holmqvist A., Bagge E., Albihn A. and Jonsson H. (2003), 'The potential for disinfection of separated faecal matter by urea and by peracetic acid for hygienic nutrient recycling'. Bioresource Technology, Vol.89, pp.155–161.

Wadhwani A.M and Lall I.J. (1972), 'Harmful effects of pesticides', report of the special committee of ICAR, Eds. Indian Council of Agricultural Research, New Delhi, pp.44.

Walker S.G., Flemming C.A., Ferris F.G., Beveridge T.J. and Bailey G.W. (1989), 'Physiochemical interaction of *Escherichia coli* cell envelopes and Bacillus subtilis cell walls with two clays and ability of the composite to immobilize heavy metals from solution', Applied Environmental Microbiology, Vol.55, pp.2976–2984.

Walsh M.R. (1992), 'Toward spatial decision support systems in water resources. Journal of Water Resourse Planning and Management, Vol.109, No.2, pp.158–169.

Wania F. and Mackay D. (1993), 'Global fractionation and cold condensation of low volatility organochlorine compounds in polar regions', Ambio, Vol.22, pp.10–18.

Wania F. and Mackay D. (1996), 'Tracking the distribution of persistent organic pollutants', Environmental Science and Technology, Vol.30, pp.390A–396A.

Wheeler A.L., Hartel P.G., Godfrey D.G., Hill J.L. and Segars W.I. (2002), 'Potential of Enterococcus faecal-is as a human faecal indicator for microbial source tracking', Journal of Environmental Quality, Vol.31, pp.1286–1293.

Whitlock J.E., Jones D.T. and Harwood V.J. (2002), 'Identification of the sources of fecal coliforms in an urban watershed using antibiotic resistance analysis', Water Research, Vol.36, No.17, pp.4273– 82.

WHO (World Health Organization), (1979). Environmental Health Criteria 9: DDT and its derivatives.

WHO (1997), 'Guidelines for drinking-water quality', surveillance and control of community supplies (Second Edition). World Health Organization, Geneva, Vol. 3.

WHO/UNICEF (2000), 'Global water supply and sanitation assessment report', World Health Organisation, Geneva.

WHO (World Health Organization) (2003), 'Emerging issues in water and infectious disease', Geneva: World Health Organization.

WHO (World Health Organization) (2008), 'Guidelines for drinking water quality', (third Edition). Geneva, Vol.1.

Wilson J.P., Mitasova H, and Wright D.J. (2000), 'Water resource applications of Geographic Information Systems', Journal of the Urban and Regional Information Systems Association, Vol.12, pp. 6-79.

Winslow C.E.A. and Hunnewell M.P. (1902), 'Streptococci characteristic of sewage and sewage-polluted waters', Science, Vol.15, 827pp.

Wood C. (24-25 November 2003), 'Environmental Impact Assessment in Developing countries: An Overview; Conference on New Directions in Impact Assessment for Development: Methods and Practice', EIA Centre, University of Manchester.

Wunderlin D.A., Diaz M.P., Ame M.V., Pesce S.F., Hued A.C. and Bistoni M.A. (2001), 'Pattern recognition techniques for the evolution of spatial and temporal variations in water quality, A case study: Suquia river basin (Cordoba-Argentina)', Water Research, Vol.35, pp.2881-2894.

Xu S., Jiang X., Dong Y., Sun C., Feng J. and Wang L. (2000), 'Polychlorinated organic compounds in Yangtse river sediments', Chemosphere, Vol.41, pp-1897-1903.

Yang R.Q., Lv A.K., Shi J.B. and Jiang G.B. (2005), 'The levels and distribution of organochlorine pesticides (OCPs) in sediments from the Haihe river, China', Chemosphere, Vol.61, pp.347-354.

Yee N., Fein J.B. and Daughney C.J. (2000), 'Experimental study of the pH, ionic strength, and reversibility behavior of bacteria-mineral adsorption', Geochimica et Cosmochimica Acta, Vol.64, pp.609–617.

Zamxaka M., Pironcheva G. and Muyima N.Y.O. (2004), 'Microbiological and physicochemical assessment of the quality of domestic water sources in selected rural communities of the Eastern Cape Province, South Africa', Water South Africa, Vol.30, No.3, pp.333–340.

Zhang J., Huang W.W., Li L. and Zhou Q. (1990), 'Drainage basin weathering and major element transport in two large Chinese rivers, (Huanghe and Chanjiang)', Journal of Geophysical Research, Vol. 95, pp.13277-13288.

Zhang J. (1995), 'Geochemistry of trace metals from Chinese river/estuary systems: an overview', Estuarine Coastal and Shelf Science, Vol. 41, pp.631-658.

Zhang Z., Hong H., Zhou J., Yu G., Chen W. and Wang X. (2002a), 'Transport and fate of organochlorine pesticides in the River Wuchuan, Southeast China', Journal of Environmental Monitoring, Vol.4, pp.435-441.

Zhang Z., Dai M., Hong H., Zhou J., and Yu G. (2002b). 'Dissolved insecticides and polychlorinated biphenyls in the Pearl river estuary and South China sea', Journal of Environmental Monitoring, Vol.4, pp- 922-928.

Zhang Z.L., Hong H.S., Zhou J.L. Huang J. and Yu G. (2003), 'Fate and assessment of persistent organic pollutants in water and sediment from Minjiang river estuary, southeast China', Chemosphere, Vol.52, pp.1423-1430.

Zhou R., Zhu L., Yang K. and Chen Y. (2006), 'Distribution of organochlorine pesticides in surface water and sediments from Qiantang river, east China', Journal of Hazardous Materials A, Vol.13