

BIBLIOGRAPHY

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- Adwant, M.P. (1989) : Limnological studies on Godavary river basin at Nanded, Maharashtra, India. Ph.D.Thesis, Marathwada University, Aurangabad.
- Agrawal, A. and K. Gopal (1996) : Level of heavy metals in river Ganga water at different stations (Unnao). Acad. Environ. Biol. 5:060114 O.P.
- Agrawal, A., R. Sharma and K. Sharma (1982) : State of Indian Environment. A Citizen's reported, Centre for Science and Environment, New Delhi.
- Ahmed Masood and Shayestehfar Alireza (1991) : Diurnal fluctuations in population density of zooplankton in relation to some physico-chemical parameters from Godavari river, Paithan (Maharashtra). J. Environ. Biol. 12(2) : 123-129.
- Airey, D. (1983) : Mercury in human hair due to environment and diet : a review. Environ. Health Pers. 52 : 303-316.
- Alikhan, M.A., G. Bagatto and S. Zia (1990) : The cray fish as a biological indicator of aquatic contamination by heavy metals. Water Research. 24 : 1069-1076.
- Ali, M.M., P. Murugaiyan and S.S. Tantry (1984) : Determination of trace metal impurities in vat dyes proceedings of the first National Symposium on absorp spectrometry, Bhabha Atomic Research Centre, Bombay Abstracts : P. 79.

- Al-Mohanna, M. M. (1994) : Residues of some heavy metals in fishes collected from (Red sea coast), Jizan, Saudi Arabia. *J. Environ. Biol.* 15(2) : 149-157.
- APHA, AWWA and WPCF (1985) : Standard methods for examination of water and wastewater, 16th Ed, American Public Health Association, Washington, D.C.
- Ayyavoo, M. (1989) : Studies on the metal concentration in Cauvery river and Poompuhar east-coast, Tamilnadu. National Young Scientist Seminar on Environmental Pollution. March 30-31, Page 10. (Abstract).
- Babich, H. and G. Stotzky (1980) : Environmental factors that influence the toxicity of heavy metals and gaseous pollutants to microorganism. *Crit. Rev. Microbiol.* 8 : 99-145.
- Baby, K.V. and N.R. Menon (1986) : Oxygen uptake in the Brown mussel, *Perna indica* under sublethal stress of Hg, Cd and Zn. *Indian J. Mar. Sci.* 15(2) : 127-130.
- Bardeggia, M. and M.A. Alikhan (1991) : The relationship between copper and nickel levels in the diet and their uptake and accumulation by *Cambarus bartoni* (Fabricious) Decapoda Crustacea. *Water Research*. 25: 1187-1192.
- Baruah, N.K., P. Kotoky, K.G. Bhattacharyya, G.C. Borach (1997) : Metal speciation in Jhansi river sediments. *Sci. Envi. Abs.* 93(6): 12.
- Basu, B. (1986) : Environment protection a many faceted problem. *Yojna*, 30 : 4-6.

Belli, Belli, V. L. (2000) : M.Phil. Dissertation. Gulbarga University, Gulbarga.

Bhowmick, B.N. and A.K. Singh (1985) : Phytoplankton population in relation to physico-chemical factors of river Ganga at Patna. Indian J. Ecol. 12(2) : 360-364.

Bisht, Shashi and Om, Kumar (1993) : Studies on water quality and phytoplankton of Song river. I.J.E.P. 13 (10) :729-731.

Blasco-J (a), Puppo,J. (1999) : Effect of heavy metals (Cu, Cd and Pb) on aspartate and alanine aminotransferase in *Ruditapes philippinarum* (Mollusca : Bivalvia). Comp. Biochem. Physiol. Pharma. Toxicol. And Endocrinol. 122(2) : 253-263.

Bose, K.C. and M.P. Singh (1981) : Study on effects of acute organic pollution in Ranchi lake, Ranchi (Bihar) III absence of definite diurnal rhythm. Abs. In first Congress of Env. Kota, 1-3.

Bose, S.K. and M.P. Lakra (1994) : Studies on the macrozoobenthos of two freshwater ponds of Ranchi. J. Freshwat. Biol. 6 : 135-142.

Brungs, W.A. and D.I. Mount (1978) : Introduction to a discussion of the use of aquatic toxicity tests for evaluation of the effects of toxic substances. Spl. Tech. Publication No. 657. American Soc. For Testing and Materials, Philadelphia.

Bryan, G.W (1968) : Concentration of zinc and copper in the tissues of decapod crustacea J. Mar. Biol. Ass. U.K. 48: 303-320.

- Bryan, G.W., L.G. Hommerstone and E. Ward (1986) : Zinc regulation in the lobster *Homarus gammarus*. Importance of different pathways of absorption and excretion. *J. Mar. Biol.* : Ass : U.K. 66:175-199.
- Burton, J.D. and P.S. Liss (1974) : Estuarine chemistry. Academic Press, London, pp. 299.
- Busulu, K.R., H.C. Arora and K.M. Aboo (1967) : Certain observations on self purification of Khar river and its effects on Krishna river. *Indian J. Environ. Hlth.* 9(4) : 275-296.
- Byrne, C.J. and I.R. Deleon (1986) : Trace metal residues in biota and sediment from lake. Pontchartrain, Louisiana. *Bull. Environ. Contam. Toxicol.* 37 : 151-158.
- Byrne, Maria and Peter A. Veska (2000) : Elemental composition of mantle tissue in *H. depressa* (Unionida) from the Hawkesbury Nepean river system. Australia. *Mar. Freshwater Res.* 51 : 183-192.
- Campbell, P.G. and Stokes, P.M. (1985) : Acidification and toxicity of metals to aquatic biota. *Can. J. Fish. Aquat. Sci.* 42 : 2034-2049.
- Chacko, P.I. (1949) : Krishna river and its fishes. *Proc. Indian Sci. Congr.*, 3 : 165-166.
- Chacko, P.I. (1950) : Remarkable growth of the carp *Catla catla* in the tank in Kanchipurum. *Sci. Cult.* 15 : 484-486.

- Chakraborty, R.D., P. Roy and S.S. Singh (1977) : A quantitative study of the plankton and physico-chemical conditions of the river, Jamuna at Allahabad in 1954, 55. Indian J. Fish. 6(1) : 186-203.
- Charles, A., W. Noll, and L.D. Betz (1945) : Determination of nitrates in Boiler water by Brucine. Indul. and Eng. Chem. (Anly. Edn.,) 17(7) :426-427.
- Charles, D.F. (Ed) (1991) : Acidic Deposition and Aquatic Ecosystem : Regional Case Studies, New York, Springer-Verlag.
- Chou-Hsin-Yiu (a), Chang-Su-Jung, Lee-Hsin-Yu, Chiou-Yih-Chy (1998) : Preliminary evidence for the effect of heavy metal cations on the susceptibility of hard clam (*Meretrix lusoria*) to clam birnavirus infection fish pathology. 33(4): 213-219.
- Couillard, Y., P.G.C. Campell and A. Tessier (1993) : Responses of metallothionein concentrations in a freshwater bivalve (*Anodonta grandis*) along an environmental cadmium gradient. Limnology and Oceanography 38 : 299-313.
- Cronan, C.S. and C.L. Schofield (1979) : Relationships between aqueous aluminium and acidic deposition in forested water sheds of North America and Northen Europe. Environ. Sci. Technol. 24 : 1100-1105.
- Dara, S.S. (1995) : A Text book of Environmental Chemistry and Pollution Control. S. Chand and Company Ltd., Ramnagar, New Delhi.

- David (1969) : Limnology and fisheries of the Tungabhadra reservoir. Bull. Cent. Inl. Fish Res. Inst. Barrackpore. 13 : 188 pp.
- De, A.K. (1989) : Environmental Chemistry. Wiley Eastern, New Delhi.
- Deo, Namita and Manzoor Ali (1993) : Water quality of a mining area in Keonjhar district for drinking and Agriculture. I.J.E.P. 13(9) : 625-658.
- Deshmukh, S.B., N.S. Phadke and V. Kothandarman (1964) : Physico-chemical characteristics of Kanhan river water. Nagpur City Environ. Hlth., 6(3) : 181-183.
- Devi, Smriti and Tiwari (1997) : Seasonal variation in heavy metal content of river Ganga at Varanasi. I.J.E.P. (4) : 281-286.
- Dillon, P.J., N.D. Yan and H.H. Harvey (1984) : Acidic deposition : Effects on aquatic ecosystems. CRC Crit. Rev. Environ. Control, 13 : 167-194.
- Dobriyal, A.K. and H.R. Singh (1981) : Diurnal variation in some aspects of limnology of the river Mandakini from the Garhwal Himalaya. Uttar Pradesh. J. Zool. 1: 16-18.
- Dora, M.M. and N.N. Ray (1987) : Investigation of water quality of Subernrekha river for irrigation. Indian J. Environ. Health 29(4) : 292-298.

- Drablos, D. and A. Tolland (1980) : Ecological impact of acid precipitation. Proceedings of an International Conference, Sandfjord, Norway, March 11-14, 1980. OSLO, Norway, SNSF Project.
- Driscoll, C.T. and K.M. Postek (1996) : The chemistry of aluminium in surface waters. In : The Environmental Chemistry of Aluminium (2nd ed.), pp. 363-418 (Spoito, G., Ed.). New York, Lewis Publishers.
- Egan, H., Kirk, S.R., R. Sawyer, R. (1981) : Pearson's chemical analysis of foods. Longman Scientific and Technical, Essex United Kingdom.
- Egila, J.N., F.O. Atten, I.H. Andenyang, C. Milam (1991) : Water quality along river Benue bank in Yola Nigeria. Proceeding second national seminar on water quality monitoring and status in Nigeria held in Kaduna Nigeria, pp. 5-15.
- Eisler, R. (1977) : Mercury contamination standards for marine environment. In energy and environmental stress in Aquatic systems, Eds. J.H. Thorp and J.W. Gibbons. Technical-Information Centre U.S. Deptt. of Energy, pp. 241-272.
- Eisler, R. and R.J. Hennekey (1977) : Acute toxicities of Cd²⁺, Cr⁺⁶, Hg²⁺, Ni²⁺ and Zn²⁺ to estuarine macrofauna. Arch. Environ. Contam. Toxicol. 6 : 315.
- Elangovan, R., K.N. White and C.R. McCrohan (1997) : Bioaccumulation of aluminium in the freshwater snail *Lymnaea stagnalis* at neutral pH. Environ. Pollut. 94 : 67-74.

- Elliott, N.G., R. Swain and D.A. Ritz (1987) : Metal interaction during accumulation by the mussel *Mytilus edulis planulatus*. Mar. Biol. 93(3): 395-400.
- Engel, D.W. and M. Brouwer (1984) : Trace metal binding proteins in marine molluscs and crustaceans. Mar. Envirn. Res. 13: 177-194.
- Enk, M.D. and B.J. Mathis (1977) : Distribution of cadmium and lead in a stream ecosystem. Hydrobiologia. 52 : 153-158.
- Eromosele, C.O., I.C. Eromosele, S.L. Muktar, S.A. Birdling (1995) : Metals in fish from the upper Benue river and lakes Geriyo and Njuwa in North-Eastern Nigeria. Bull. Environ. Contam. Toxicol. 54 : 8-14.
- Fukushima, Kazuo, Takashi Kanetake, Youichi Suzuki and Kenichiro Mukai (1986) : Occurrence and behaviour of heavy metals in a polluted urban river Syst. I distribution of heavy metals in the sediments. Chikyukahaku 19 (1/2): 2130.
- Gaikwad, P.T. (1996) : Hydrobiology of Shiroli reservoir. M.Phil. dissertation, Shivaji University, Kolhapur.
- Ganapati, S.V. (1940) : The ecology of a temple tank containing a permanent bloom of *Microcystis aculeoginosa* (Kutz), J. Bom. Nat. Hist. Soc. 42 : 65-67.
- Ganapati, S.V. (1956) : The limnology of two minor irrigation reservoirs near Madras. The Errakuppan Reservoir. Hydrobiologia, 8: 56 (30-61).

Ganapati, S.V. (1957) : Limnological studies of two upland waters in Madras state. Arch. Hydrobiol. 56 : 30-61.

Ganapati, S.V. (1962) : Studies on the source of the Madras city water supply and other waters of Madras state compiled papers submitted for the Degree of D.Sc. to Madras University.

Ganapati, S.V. and P.I. Chacko (1951) : An investigation of the river Godavari and the effects of the paper mills pollution at Rajahmundry. Proc. Indo. Pac-Fish Couns. Madras Meeting Sec.II and III, 70.

Ganasan, V.C. (1991) : Trace metal concentration in water and sediments of the rivers Khan and Kshipra (Ujjain, India). Intern. J. Ecol. And Environ. Sci. 17: 225-236.

Ganbuganapathi, R. Asokan, J. Arul Baskar and M. Loganathan (1998) : Study of physico-chemical parameters and zooplankton in relation to paper mill effluent discharge in Cauvery river system. J. Ecobiol. 10 (4) : 285-292.

Gensemer, Robert W. (1999) : The Bioavailability and Toxicity of Aluminium in Aquatic Environments. Crit. Rev. Environ. Sci. and Tech. 29(4) : 310-400.

George, M.G. (1961) : Diurnal variations into shallow ponds in Delhi, India. Hydrobiologia. 18(3) : 265-273.

Gill, S.K., G.P.S. Sahota and H.S. Sahota (1993) : Phytoplankton and physico-chemical parameters, examination of river Sutlej. Ind. Environ. Pro. 13(3) : 171-175.

- Goldman, C.R. and A.J. Horne (1983) : Limnology International student edition, Mc Graw Hill, International Book Company, Tokyo, Japan.
- Golterman, H.L., Clymo, R.S. and Ohnstand, M.A.M. (1978) : Method for physical, chemical analyses of freshwaters, I.B.P. Hand book, Black Well Scientific Publ. Oxford, London, No. 8, 213 pp.
- Govindswamy, C., A. G. Viji Roy and Azariah Jayapal (1998) : Seasonal variation of heavy metals in water and zooplankton of Pondicherry coast, Bay of Bengal. Intern. J. Ecol. and Environ. Sci. 24: 141-146.
- Gupta, Abik (1998) : Heavy metals in some fresh water invertebrates from barak valley Assam. India. Intern. J. Ecol. and Environ. Sci. 24 : 147-151.
- Gupta, Sampa and S. Banerjee (1998) : Bioaccumulation of some heavy metals in edible molluscan species in two water areas of Calcutta and Howrah, West Bengal. Environ. Ecol. 16(1) : 138-141.
- Hall, R.J., R.C. Bailey and J. Findeis (1988) : Factors affecting survival and cation concentration in the blackflies *Prosimulium fuscum/ mixtum* and the mayfly *Leptophlebia cupida* during spring snowmelt. Can. J. Fish Aquat. Sci. 45 : 2123-2132.
- Hendershot, W.H., F. Courchesne and D.S. Jeffries (1996) : Aluminium geochemistry at the catchment scale in water

sheds influenced by acidic precipitation. In : The Environmental Chemistry of Aluminium (2nd ed.), pp. 419-449 (Sposito, G. Ed.), New York, Lewis Publishers.

Herrmann, A. and K. Frick (1995) : Do stream invertebrates accumulate aluminium at low pH conditions? Wat. Air. Soil Pollut. 85 : 407-412.

Hutchinson, G.E. (1941) : Limnological studies in connecticut IV. Mechanism of intermediary metabolism in stratified lakes. Ecol. Monogr. 11 : 21-60.

Ingle, S.T., S. Viswaranjan, S.a. Suryawanshi, B.G. Kulkarni (1997) : Bioaccumulation of iron and manganese in the bivalve *L. corrianus* with reference to Patalganga river pollution. Environ. Ecol. 15(1) : 31-34.

Jayaraj, Y.M. and Anjali J. Deshpande (1987) : Heavy metal toxicity on primary productivity of sewage stabilization pond Proc. 8th Annual Session of Academy of Environmental Biology and Symposium on Environmental Pollution and Pesticide Toxicology, Jammu, Abstract 113.

Jayashree, R. and P. Jothimani (1999) : Water quality of Noyyal river in Coimbatore district. J. Ecobiol. 11 (4) : 311-312.

Jenne, E.A. (1968) : Trace elements in water. American Society, Washington, D.C., pp. 337.

Jenne, E. A. (1977) : Trace element sorption by sediments and soils. Symposium on molybdenum in the environment (Vol. 2). Dekker, New York, pp. 425.

Jhingran, V.G. (1963) : Report on the fisheries of the Chilka lake, 1957-1960. Bull. I.C.I.F.R.I. Barrackpore, W. Bengal.

Jhingran, V.G. (1983) : Fish and fisheries of India. Hindustan Publishing Corporation, New Delhi, India, pp. 9, 54, 86.

Jhingran, V.G., R.K. Dwivedi, K.P. Shrivastava and D.N. Singh (1981) : An ecological approach towards stocking policy formulations in Gularia, a small irrigation impoundment. Paper presented at the Silver Jubilee. Symposium of Tropical Ecology, Bhopal, India Abstr. 88-98.

Jonathan, P. Kim, Malcolm, R. Reid, G. Robert, Cunningham (1996) : Aqueous chemistry of major ions and trace metals in the Clutha river, New Zealand. Mar. Freshwater Res. 47: 919-928.

Joshi, B.D. and R.E. Bisht (1993) : Some aspects of physico-chemical parameters of Western Ganga Canal near Jwalapur, Haridwar Himalayan J. Envi. Zool., 7(1) : 76-82.

Joshi, C.B. (1996) : Hydrobiology profile of river Sutlej in its middle stretch in Western Himalayas. J. Ecobio. 10(4) : 191-203.

Kakulu, S.E., O. Osibanjo, S.O. Ajayi (1987) : Comparison of digestion methods for trace metal determination in fish. Intern. J. Environ. Anal. Chem. 30: 209-218.

Kant, S. and S. Vohra (1989) : Lakes : their management and conservation. In : Management of aquatic ecosystem. Ed. V.P. Agrawal, B.N. Desai and S.A.H. Abidi. 155-168.

Kataria, H.C. (1994) : Heavy metals contamination and pollution in Betwa river. JEP 15(1) : 34-38.

Khan, A. A. Khan, Q. Siddiqui and M. Nasir (1970) : Diurnal variations in a shallow tropical freshwater pond in Shahjahanpur, U.P. (India). Hydrobiologia. 35 : 297-303.

Khatavkar, S.D. and R.K. Trivedy (1992) : Water quality Parameters of river Pancha Ganga near Kolhapur and Ichalkaranji, Maharashtra, India, J. Toxicol. Env. Monit. 2(2) : 113-118.

Klein,L. (1973) : River pollution II causes and effect, 5th Edn. Butterworth and Co. Ltd., London.

Kumaraguru, A.K., De Selvi and V.K. Venugopalan (1979) : Mercury in vellar estuary and its toxicity to oysters. Proc. Symp. Environ. Biol. (India), 253-264.

Korlak, Elzbieta (1998) : Concentration of heavy metals in the snails *Lymnaea* (*Radix*) *peregra* (O.F. Mull) and *Lymnaea stagnalis* (L) occurring in rivers near siedlce town. Pol. Arch. Hydrobiologii. 45(4) : 553-563.

Krishnamurthi, K.P. (1965) : Hydrobiological studies in Gandhisagar (Jumma tank), Diurnal variation in plankton. Hydrobiology, 25 (12) : 99-118.

Kumar, A. (1994) : Periodicity and abundance of rotifers in relation to certain physico-chemical characteristics of two ecologically different pond of Santal Pargana (Bihar). Indian J. Ecol. 21 : 54-59.

- Kumar, A. (1995) : Some limnological aspects of the freshwater tropical wetland of Santal Pargana (Bihar). J. Environ. Pollut. 2 : 137-141.
- Kumar, A. (1996) : The limnological profiles of a tropical fish farming pond at Dumka (Santal pargana), Bihar, J. Ecobiol. 8 : 117-122.
- Lakshminarayan, R. and R.K. Somashekar (2000) : Water quality indices of the upstream stretch of river Cauvery. J. Environ. and Polln. 7(3), pp. 213-223.
- Last, F.T. and R. Watling (1991) : Acidic deposition : Its nature and impacts. Proceedings of the International Symposium, Glasgo, Scotland (September, 16-21, 1990). The Royal Society of Edinburgh, Section B (Biological Sciences).
- Leland, H.V. (1977) : Distribution of solute and particulate trace elements in southern lake, Michigan. Proceed. Int. Conf. On Heavy metals in the Environment, II/2, 17.
- Lind, O.T. (1974) : Handbook of common method in Limnology. The C.V. Mosby Company, Saint Louis (U.S.A.).
- Lithnor, G. (1975) : Methods for detection measurement and monitoring of water pollution, FAO, Rome, pp. 41.
- Lobel, P.B. and D.A. Wright (1983) : Frequency distribution of Zn concentration in the common mussel. *M. edulis*. Estuaries 6(2): 154-159.

Lowe, T.P., T.W. May, W.G. Brumbaugh and D.A. Kane (1985) : National contaminant biomonitoring program : concentrations of seven elements in freshwater fish, 1978-81, Arch. Environ. Contam. Toxicol. 14, 363-388.

Macan, T.T. and E.B. Worthington (1951) : Life in lakes and rivers (The New Naturalist Series). William Collins Sons Co. Ltd., London, 272 pp.

Mahajan, K.K. (1988) : Deteriorating national rivers. Ecology and Pollution of Indian Rivers. 1:1-38.

Mani, S.S., Sweth Aranyam and S. S. Daevi (1989) : An increased level of trace metals in Pazhan Cauvery river water due to domestic sewage pollution. Seminar on Environmental Pollution, March, 30, Bangalore (Abstract).

Mann (1958) : Annual fluctuations in sulphates and bicarbonates, hardness in pond, Limnol. Oceanogr. 3: 418-422.

Marina, Mauri and Orlando Enzo (1984) : Variability of zinc and manganese concentration in relations to sex and season in bivalve *Donax trubculus*. Mar. Poll. Bull. 14(9): 342-346.

* Martin, J.H. and Meybeck (1970) : Mar. Chem. 7: 173.

Mason, A.Z. and J.A. Nott (1981) : The role of intracellular biominerilized granules in the regulation and detoxification of metals in gastropods with special reference to the marine prosobranch *Littorina littorea*. Aquatic Toxicology. 1: 239-251.

- Mason, A.Z. and K.D. Jenkins (1995) : Metal detoxification in aquatic organism in metal speciation and bioavailability in aquatic systems. (Eds. A. Tessier and D.R. Turner) pp. 479-583. John Wiley and Sons Ltd. NY.
- Mathew, P.M. (1975) : Limnology and productivity of Govind Garh lake. J. Inland Fish Soc. India, 7 : 16-24.
- Mathur, S. and V.S. Durve (1996) : Acute Toxicity of Mercury, Cadmium and Zinc to the pulmonate mollusc. *L. acuminata*. J. Ecobiol. 8(3): 229-234.
- Meyer, J.S. (1999) : A mechanistic explanation for the In (LC_{50}) vs. In (hardness) adjustment equation for metals. Environ. Sci. Technol. 33, 908-912.
- Meyer, J.S., R.C. Santore, J.P. Bobbit, L.D. Debrey, C.J. Boese, P.R. Paquin, H.E. Allen, H.L. Bergaman and D.M. DiToro (1999) : Binding of nickel and copper to fish gills predicts toxicity when water hardness varies, but free ion activity does not. Environ. Sci. Technol. 33 : 913-916.
- Michael, R.G. (1968) : Fluctuations in the relative abundance of the weed fauna of a tropical freshwater fish pond. Hydrobiologia, 31 (2) : 203-230.
- Miles, A.K., C.E. Grue, G. Pendleton and J.H. Jr Soares (1993) : Effects of dietary aluminium, calcium and phosphorus on egg and bone of European starlings. Arch. Environ. Contam. Toxicol. 24 : 206-212.

- Miramand P., J.C. Guary and S.W. Fowler (1981) : Uptake assimilation and excretion of vanadium in the Shrimp *Lysmata seticaudata* (Risso) and the crab *Careinus maenas* (L). *J. Exp. Mar. Biol. Eco.* 49 : 267-287.
- Mishra, G.P. and A.K. Yadav (1978) : A comparative study on physico-chemical characteristic of river and rivulet water in central India. *Hydrobiol.* 59 : 275-278.
- Mitra, A.K. (1982) : Chemical characteristics of surface water at selected gauging stations in the rivers Godavari, Krishna and Tungabhadra. *Indian J. Environ. Hlth.* 24 : 165-179.
- Mitra, A. and A. Choudhury (1993) : Metal content in the Gastropods *Nerita articulata* (gould). *Indian J. Env. Hlth.* 35(1): 31-35.
- Mitra, A. and A. Choudhury (1994) : Heavy metal concentration in oyster *Curassostrea Cucullata*. *J. Ecobiol.* 6(2) : 157-159.
- Mitra, A., S. Trivedy, A. Gupta, A. Choudhury and I. Ghosh (1995) : *Balanus balanoides* as an indicator of heavy metals. *Ind. J. Env. Hlth.* 37(1) : 42-45.
- Mirai Masaya, Fumi Tada and Hideo (1996) : Analysis of the composition of heavy metal pollution in Japanese river sediments by Principal Component Analysis. *JPN J. Limnol.* 46(3) : 169-173.
- Mohan, C. Balani and H.L. Sarker (1965) : Some observation on the pollution of Yamuna river at Okhla water works intake, Delhi. *Environ. Hlth.* 7(2) : 84-86.

Moriarty, F. and H.M. Hanson (1989) : Heavy metals in sediments of the river Ecchesbourne, Derbyshire. Water Resources. 22 : 475-480.

Motwani, M.P., S. Banarjee and S.J. Karamchandani (1956) : Observation on pollution of the river Sone by factory effluents at Rohtas industry, Dalmianagar, Bihar Idniv Fish, 3 (2) : 334-367.

Mozley, A. (1952) : Molluscicides, H.K. Lewis and Co. Ltd., London.

Masarrat, Sultana T. and V.S. Lomte (1997) : Effect of metals (Cu, Hg and Zn) on the digestive enzymes of freshwater Bivalve. Environ. and Ecol. 15(4) : 80-09.

Muley,D.V. (1985) : Effect of pollutants on freshwater molluscs from Godavari river at Paithan. Ph.D. thesis, submitted to the Marathwada University, Aurangabad.

Muniz, I.P. and H. Leivstad (1980) : Acidification - effects on freshwater fish. In ; Ecological impact of Acid Precipitation : Proceedings of an International Conference, Sandefjord, Norway, March 11-14, 1980, pp. 84-92 (Drablos, D. and Tolland, A. Eds) OSLO, Norway, SNSF Project.

Murphy, J. and J. Riley (1962) : A modified single solution, method for determination of phosphate in natural waters. Anal. Chem. Acta. 27 : 31-36.

- Murti, R. and S. Shukla (1984): Toxicity of copper sulphate and zinc sulphate to *Macrobrachium lamerrei* (Decapoda, Palaemonida). *Crustaceana* 48: 168-173.
- Mwangi, S.M. and M.A. Alikhan (1993) : Cadmium and nickel uptake by tissue of *Cambarus bartoni* (Astacidae, Decapoda, Crustacea) effects on copper and zinc stores. *Water Research*. 27 : 921-927.
- Nanda, S.N. and T.N. Tiwari (1999) : Effect of discharge of industrial effluents on the quality of river Bahmani at Rourkela. *J. Environ.Protect.* 19(1) : 52-57.
- Narayann, K.R., P.S. Lyla and S. Ajmal Khan (1999) : Pattern of depuration of accumulated heavy metals in the mud crab, *Scylla serrata* (Forskal). *J. Environ. Biol.* 20(3): 213-216.
- Nasar, S.A.K. (1976) : The effect of endrin on primary productivity in a pond ecosystem. *Phykos*. 15 : 47-48.
- Nautiyal, P. (1985) : Studies on riverine ecology of torrential waters in the Indian uplands of the Garhwal region. Seasonal variations in percentage occurrence of planktonic algae. *Uttar Pradesh J. Zool.* 5(1) : 14-19.
- Nriagu, J.O., H.K.T. Wong and R. D. Coker (1981) : Particulate and dissolved trace metals in lake Ontario. *Water resources*, 5: 91-96.
- Nuzzi, R. (1972) : Toxicity of mercury to phytoplankton. *Nature* 237 : 38-40.

- Oehme, F.W. (1978): Toxicity of heavy metals in the environment, Part I: Marcel Dekker Inc., New York, 515 pp.
- Olafson, R.W., A. Kearns and R.G. Sim (1979) : Heavy metal induction of metallothionein synthesis in the hepatopancreas of the crab *Scylla serrata*. Comp. Biochem. Physiol. 62B : 417-424.
- Olafsson, J. (1986) : Trace metals in mussel (*Mytilus edulis*) from South Iceland. Mar. Biol. (BERL) 90(2) : 223-230.
- Ormerod, S.J. and S.D. Rundle (1998) : Effects of experimental acidification and liming on terrestrial invertebrates : implications for calcium available to vertebrates. Environ. Pollut. 103 : 183-199.
- Otto, C. and B.S. Sevensoo (1983) : Properties of acid brown streams in South Sweden. Arch. Hydrobiol. 99 : 15-36.
- Pahwa, D.V. and S.N. Mehrotra (1966) : Observation of fluctuations in the abundance of plankton in relation to certain hydrobiological conditions of river Ganga. Proc. Nat. Acad. Sci. India, 36 B(2), 157-189.
- Panda, P.K. and B.N. Misra (1981) : Toxic effects of mercury on seed germination and other parameters of Ragi (*Eleusine coracana Gaertn*). Comp. Physiol. and Ecol. 6(4) : 318-320.
- Pandey, B.N., K. Kumar and P.K.L. Das (1993) : A preliminary study on the physico-chemical quality of water of the river Koshi at Purnia. J. Ecobiol. 5(3) : 237-239.

- Pempkowiak, J., A. Sikora and E. Biernacka (1999) : Speciation of heavy metals in marine sediments vs. Their bioaccumulation by mussels Chemosphere. 39(2): 313-321.
- Phillips, C.B. (1927) : Diurnal fluctuations in hydrogen ion activity of a Minnesota lake. Ecobiology. 8: 73-89.
- Phillips, D.J.H. (1980) : Quantitative aquatic biological indicators. Their use to monitor trace metal and organochlorine pollution. Applied Science Publishers Ltd., London. Page 486.
- Pomeroy, L.R., E.E. Smith and C.M. Grant (1965) : The exchange of phosphate between estuarine water sediments. Limnol. Oceanogr. 10(2) : 167-172.
- Portmann, J.E. (1972) : Results of acute toxicity tests with marine organisms using a standard method. Marine pollution and sealife, Lond. Fishing News (Book) Ltd., 212-216.
- Prasad, B.N., S. Gomati and Manjula (1980): Ecological study of blue green algae in the river. Indian J. Environ. Hlth. 22: 151-168.
- Ray, P., S.B. Singh and K.L. Sehgal (1967) : A study of some aspects of ecology of rivers Ganga and Jamuna at Allahabad (U.P.) in 1958-5. Proc. Nat. Acad. Sci. India 36B (3) : 235-272.
- Reddy, Manikya P. (1984) : Ecological studies on the river Tungabhadra (A.P.) with special reference to effects of paper

mill effluents on the river. Ph.D. Thesis, Osmania University, Hyderabad.

Reddy Manikya, P. and V. Venkateswarlu (1985) : Ecological studies in the paper mill effluents and their impact on the river Tungabhadra : Heavy metals and algae. Proc. Indian Acad. Sci. (Plant Sci.) 95(3): 139-146.

Reddy Manika, P. and V. Venkateswarlu (1987) : Assessment of water quality and pollution in the river Tungabhadra near Kurnool Andhra Pradesh.

Reddy, Manikya P. and V. Venkateswarlu (1987) : Assessment of water quality and pollution in the river Tungabhadra near Kurnool, Andhra Pradesh. J. Environ. Biol. 8(2) : 109-119.

Reddy, T. R., N. Vijayakumar, N. Chari (1987) : Effect of $HgCl_2$ on carbohydrate metabolism of mantle, foot and gill of freshwater mussels. (*Parreysia rugosa Gmelin*). J. Environ. Biol. 7(4) : 225-230.

Reddy, T.V.K., Y. Srinivasa Rao and P.F. Nayadu (1994) : Water quality indices of Niva river, Chittar district, Andhra Pradesh. Encology Vol. 9(5).

Reimers, R.S., P.A. Krenkel, M. Eagle and G. Tragfit (1975) : In : Heavy metals in environment (Ed. : P.A. Krenkel) 117-136 pp. Oxford : Pergaman Press, London.

Ritz, D.A., R. Swain and N.G. Elliot (1982) : Use of the mussel *Mytilus edulis planulatus* (Lamark) in monitoring heavy

metal levels in seawater. Australian Journal of Marine and Freshwater Research, 33: 491-506.

Roesijadi, G. (1992) : Metallothioneins in metal regulation and toxicity in aquatic animals. Aquatic Toxicology 22 : 81-114.

Saha, L.C. and N.K. Singh (1981) : Effect of malathion on the primary productivity of phytoplankton in a freshwater pond. Comp. Physiol. Ecol., 6(1): 171-180.

Saikia, D.K., R.P. Mathur and S.K. Srivastava (1988): Heavy metals in water and sediments of upper Ganga Indian, J. Environ. Hlth. 31(1): 11-17.

* Satyanarayana, D. P.V.S. Prabhakara Murty and V.V. Sarma (1991) : Ind. J. Mar. Sci. 19: 206.

Scheuhammer, A.M. (1991) : Effects of acidification on the availability of toxic metals and calcium to wild birds and mammals. Environ. Pollut. 71: 329-375.

Schindler, D.W. (1988) : Experimental studies of chemical stressors on whole lake ecosystem. Verh. In t. Verein. Limnol. 23 : 11-41.

Sengupta, B.S. Kaskar, A.K. Das and J. Das (1988) : Inorganic pollutants of Ganga water quality of Bhavani river Tamilnadu. Him. J. Environ. Zool. 4: 135-139.

Shaikh, Marif, R.D. Francis and J.D. Prabhakar (1997) : Hydrobiological studies of Sina river at Ahmednagar Maharashtra : Indian J. Ecobiol. 9 (3) : 207-210.

- Sharan, R.K. and R.K. Sinha (1988) : Ganga Basin Research Project Buxar, Barh, Final technical report (July, 1985- June, 1988) submitted to Ganga Project, Directorate, Ministry of Envir. And Forests, Government of India, New Delhi.
- Sharma, Hardeep Rai, Asha Gupta and R.C. Trivedy (2000) : Heavy metal concentrations in benthic macro-invertebrates from Western Yamuna canal. *J. Environ. Biol.* 21(2) : 95-99.
- Shaw, B.P., A. Sahu and A.K. Panigrahi (1989) : Mercury in bed sediment of Rushikulya river estuary. *J. Envi. Biol.* 10(1) : 59-64.
- Shrestha, R. R., A. P. Karmacharya and G. Ghimire (1992) : The study of degrading water quality in Bagmati river and its tributaries at Kathmandu. *J. Ecobiol.* 4(2) : 121-126.
- Shrivastava, Roshmi and Praveen, Jain (1998) : Heavy metal contamination in Kerwan dam water, Bhopal, India. *J. Ecobiol.* 10(1) : 63-66.
- Shukla, S.C., B.D. Tripathi and Ranjanikant, V. Deepa Kumari and V.S. Pandey (1989) : Physico-chemical and biological characteristics of river Ganga from Mirzapur to Ballia. *Indian J. Environ. Hlth.* 31(3) : 218-227.
- Sikandar, M. and B.D. Tripathi (1984) : Physico-chemical characteristics of Ganga water at Varanasi. In : River Ecology and Human Health (Eds. R.S. Ambasht and B.D. Tripathi). National Env. Conserv. Asson. 53-61.

- Singh, Arun K. (1997) : Abundance of macrozoobenthic organisms in relation to physico-chemical characteristics of river Ganga at Patna (Bihar), India. *J. Environ. Biol.* 18(2), 103-110.
- Singh, H.P. and L.R. Mahaver (1997) : Preliminary observations on heavy metals in water and sediments in a stretch of river Ganga and some of its tributaries. *J. Environ. Biol.* 18(1) : 49-53.
- Singh, H.P., J.P. Mishra and L.R. Mahaver (1998) : Observation on certain physico-chemical characteristics of water in relation to pollution of River Ramganga. *J. Environ. Biol.* 19(4) : 353-356.
- Singh, H.P., M. Choudhury and V. Kolekar (1982) : Seasonal and diurnal changes in physico-chemical features of the river Brahmaputra at Gauhati. *Indian J. Zool.* 23(2) : 77-84.
- Singh, N.K., B. Kumar and S. K. Singh (1999) : Physico chemical characteristics of water in the upper stretches of Damodar river. *J. Environ. Protect.* 19(1) : 48-51.
- Singh, T.B., D. Gupta and Ashok Sharma (1996) : Heavy metals distribution and other pollutants in the upper reaches of river Beas in Himachal Pradesh. *I.J.E.P.* 17(1): 43-46.
- Sinha, M.P. (1986) : Limnobiotic studies on tropical status of a polluted freshwater reservoir of coal field area. *Poll. Res.* 5 :13-18.
- Skerfving, S. (1972) : Mercury in fish; Some toxicological considerations. *Fd. Cosmet. Toxicol.* 10 : 545-556.

- Skerfving, S. (1988) : Mercury in women exposed to methyl mercury through fish consumption and their new born babies and breast milk. Bull. Environ. Contam. Toxicol. 41 : 475-482.
- Srikanth, R., A. Madhumohan Rao, C.H. Shravan Kumar and Anees Khanum (1993) : Lead, calcium, nickel and zinc contamination of ground water around Hussain Sagar lake, Hyderabad. Bull. Environ. Contam. Toxicol. 50(1) : 138-143.
- Srinivasan, A. (1946) : Limnology of tropical impoundments. I. Hydrobiological feature and fish production in Stanley reservoir, Metturdam. Int. Res. Ges. Hydrobiol. 51 : 295-306.
- Stewart, A.R. (1999) : Accumulation of Cd by a freshwater mussel (*Pyganodon grandis*) reduced in the presence of Cu, Zn, Pb and Ni. Canadian J. Fish. Aquat. Sci. 56(3) : 467-478.
- Syama, Sundar B., G. Madhu, K. Srinivasa Murty and V. Mangathayaramma (1994) : River Krishna : Estimation of Trace Metals and Their Distribution. IJEP 14(9) : 654-663.
- Thresh, J.C., E.V. Suckling and J.F. Beadle (1944) : The examination of waters and water supplies. Ed. Taylor E.W.
- Thosar, M.R. and T.K. Das (1984) : A study of the effect of pesticides on the primary production of few water bodies from Nagpur. In : Effect of pesticides on aquatic fauna (Eds : S.K. Kulshrestha, et.al.). 197-208.

Trivedy, R.K. and P.K. Goel (1986) : Chemical and biological methods for water pollution studies. Environmental Publications, Karad.

Trivedy, R.K., P.K. Goel and C.L. Trisal (1987) : Practical Methods in Ecology and Environmental Science.

USEPA (1985) : Guidelines for deriving numerical national water quality criteria for the protection of aquatic organisms and their uses PB 85-227049. Washington, D.C., U.S. Environmental Protection Agency.

USEPA (1988) : Ambient Water Quality Criteria for Aluminium 1988-EPA 440/5-86-008. Washington D.C. U.S. Environmental Protection Agency.

Vallee, B.L. and D.D. Ulmer (1972) : Biochemical effects of mercury, cadmium and lead. Annual Rev. Biochem. 41 : 91-128.

Venkateswarlu, V., P. Manikya Reddy and B. Raj Kumar (1994) : Heavy metal pollution in the river of Andhra Pradesh, India. J. Environ. Biol. 15(4) : 275-282.

Venkateswarlu, V. (1969) : An ecological studies of the algae of the river Moosi, Hyderabad (India) with special reference to water pollution 1. Physico-chemical complexes. Hydrobiologia. 33, 117-143.

Venkteshwarlu, V. (1986) : Ecological studies on the rivers of Andhra Pradesh with special reference to water quality and pollution. Proc. Indian Sc. Acad. 96 (6) : 495-508.

Trivedy, R.K. and P.K. Goel (1986) : Chemical and biological methods for water pollution studies. Environmental Publications, Karad.

Trivedy, R.K., P.K. Goel and C.L. Trisal (1987) : Practical Methods in Ecology and Environmental Science.

USEPA (1985) : Guidelines for deriving numerical national water quality criteria for the protection of aquatic organisms and their uses PB 85-227049. Washington, D.C., U.S. Environmental Protection Agency.

USEPA (1988) : Ambient Water Quality Criteria for Aluminium 1988-EPA 440/5-86-008. Washington D.C. U.S. Environmental Protection Agency.

Vallee, B.L. and D.D. Ulmer (1972) : Biochemical effects of mercury, cadmium and lead. Annual Rev. Biochem. 41 : 91-128.

Venkateswarlu, V., P. Manikya Reddy and B. Raj Kumar (1994) : Heavy metal pollution in the river of Andhra Pradesh, India. J. Environ. Biol. 15(4) : 275-282.

Venkateswarlu, V. (1969) : An ecological studies of the algae of the river Moosi, Hyderabad (India) with special reference to water pollution 1. Physico-chemical complexes. Hydrobiologia. 33, 117-143.

Venkteshwarlu, V. (1986) : Ecological studies on the rivers of Andhra Pradesh with special reference to water quality and pollution. Proc. Indian Sc. Acad. 96 (6) : 495-508.

- Vernberg, W.B., P.J. De Coursey and J.O. Hara (1974) : Multiple environmental factor affects on physiology and behaviour of fiddler crab, *Uca Pugilator*. In : "Pollution and physiology of marine organisms" eds. Vernberg F.J. and W.B. Vernberg, Academic Press, INC, New York, pp. 381-425.
- Vesk, P.A. and M.Byrne (1999) : Metal levels in tissue granules of the freshwater bivalve *Hydridella depressa* (Unionida) for biomonitoring the importance of cryopreservation. The Science of the total Environment 225, 219-229.
- Vijayaraghava, S. (1973) : A comparative account of the soil water relationship in three tropical ponds. Ind. J. Fish, 20(2) : 617-623.
- Vijayaraghavan, S. (1971) : Seasonal variation in primary productivity in three tropical ponds. Hydrobiologia, 38 (3-4) : 395-408.
- Vijayaraman, K., George, John, P. Sivakumar and R. Rafi Mohamad (1999) : Uptake and loss of heavy metals by freshwater prawn, *Macrobrachium malcolmsonii*. J. Environ. Biol. 20(3) : 217-222.
- Voigt, G.K. (1960) : Alteration of the composition of rainwater by trees Ame. Midl. Nat. 63 : 321-326
- Warnick, S.L. and H.L. Bell (1969) : The acute toxicity of some heavy metals to different species of aquatic insects. J. Wat. Poll. Contr. Fed. 41: 280-284.

- Watanbe, T., H. Abe, K. Kido and M. Ikeda (1987) : Relationship among blood, urine and diet in a general population. Bull. Environ. Contam. Toxicol. 38 : 196-202.
- Welch, E.B. (1980) : Ecological effects of waste water, Cambridge, University of Cambridge, 337 pp.
- Welch, P.S. (1952) : Limnology, 2nd ed. McGraw Hill Book Co., New York, 538 pp.
- Wetzel, R.G. (1975) : Limnology, W.B. Saunders Company, Taronto, 743 pp.
- White, S.L. and P.S. Rainbow (1984) : Regulation of zinc concentration by *Palaemon elegans*. Mar. Ecol. Prog. Ser. 16: 135-147.
- Whitton, B.A. (1980) : Zinc and plants in rivers and streams. In : Zinc in the Environment Part II. Health Effects (Ed : J.O. Nariagu) John Wiley, New York 363-400.
- Whitton, B.A. (1984) : Algae as Biomonitor of heavy metals in freshwater. In : Algae as ecological indicators (Ed : L.E. Shubert). Academic Press, London, pp. 257-280.
- WHO (1971) : International standards of drinking waters.
- Wisely, B. and R.A. Blick (1967) : Mortality of marine invertebrates larvae in Hg, Cu and Zn solution. Anst. J. Mar. Freshwater Res. 18: 63-72.

Wood, J.M., H.J. Segall, W.P. Bidley, A. Chen, W. Chudyk and J.S. Thayer (1975) : Metabolic cycle for toxic elements in the environment. Proceeding of International Conference on Heavy Metals in the Environment. Toronto, Ontario, Canada: 49-68.

Wren, C.D. and G.L. Stephenson (1991) : The effect of acidification on the accumulation and toxicity of metal on freshwater invertebrates. Environ. Polut. 71 : 205-241.

* Not referred to original.