

REFERENCES

- Abbasi, T. and Abbasi, S.A., 2012. Water quality indices. Elsevier, Amsterdam, The Netherlands, **1**: 1-26.
- Abdul-Razak A., Asiedu A.B., EntsuaMensah R.E.M. and deGraft- Johnson K.A.A. 2009. Assessment of water quality of the Oti river in Ghana. *West African Journal of Applied Ecology*, **15**: 1-12.
- Abida, B. and Harikrishna, 2008. Study on the quality of water in some streams of Cauvery River, *E-journal of chemistry*, **5(2)**: 377-384.
- Agarwal, D. and Gupta, A.K, 2011. Hazardous waste management: analysis of Indian and perspective Governance, *Global Sustainability Transitions: Impacts and Innovations - ISBN: 978-93-83083-77-0*: 1-52.
- Akoteyon, I.S., Omotayo, A.O., Soladoye, O. and Olaoye, H.O., 2011. Determination of water quality index and suitability of urban river for municipal water supply in Lagos-Nigeria, *European Journal of Scientific Research*, **54(2)**: 263-271.
- Alakananda, B., Karthick, B., Mahesh, M.K. & Ramachandra T.V. 2011. Diatom Based Pollution Monitoring in Urban Wetlands, *The IUP Journal of Soil and Water Sciences*. **4(2)**: 33- 52.
- Ali Behmanesh. 2015. Study of Biological and Physico-Chemical Quality of Babolrood River in Mazandaran province, Iran. *Research Journal of Fisheries and Hydrobiology*, **10(9)**: 468-474.
- Angadi, S.B., Shiddamaliayya, N. and Patil, P.C. 2005. Limnological study of Papanash Pond, Bidar (Karnataka). *Journal of Environmental Biology*, **26**: 213-216.
- Anhwange, B.A. Agbaji, E. B. Gimba. E.C., 2012. Impact Assessment of human activities and seasonal variation on river Benue, within Makurdi Metropolis, *International Journal of Science and technology*, **2(5)**: 248-254.
- APHA 1998. *Standard methods for the Examination of Water and Wastewater*, 20th edn.
- Arivozhagan, P. and Kamalaveni, K. 1997. Seasonal variation in physico-chemical parameters and plankton analysis of Kurichi Pond. *Journal of Environmental and Ecology*, **15 (2)**: 272-274.
- Asheesh. S, Shalini. A, Tandon, R. Kumar., 2015. Water Quality Management Plan for Patalganga River for Drinking Purpose and Human Health Safety. *International Journal of Scientific Research in Environmental Sciences*, **3(2)**: 0071-0087.

- Atazadeh, I., Sharifi, M. and Kelly, M.G., 2007. Evaluation of the Trophic Diatom Index for assessing water quality in River Gharasou, western Iran, *Hydrobiologia*. 589:165-17.
- Ball, R. O. and Church, R. L., 1980. Water quality indexing and scoring. *Journal of Environmental Engineering. Div. ASCE* 106(4):757–771.
- Barnwal. S. Mishra and S.K. Singhal. 2015. Risk assessment and analysis of water quality in Ramgarh Lake, India. *J Integr Sci Technol*, 3(1): 22-27.
- Barroin, G.P., Blanc,b., Chassaing, P., Olive and Pelletier, G.R. 1982. Quality of water in lake lemen, France. *Eauque.*, 15(2): 154-157.
- Battarbee, R. W., Carvalho, L., Jones, V. J., Flower, R. J., Cameron, N. G., Bennion, H., Juggins, S., 2001: Diatoms. In: Smol, J. P., Birks, H. J. B., Last, W. M. (eds.), *Tracking environmental change using lake sediments – v-3: Terrestrial, algal, and siliceous indicators. Developments in Paleoenvironmental Research*, Springer, New York: 155–202.
- Bhargava, D.S, Saxena, B.S. and Dewakar, R.W. 1998. A study of geo-pollutants in the Godavary river basin in India, *Asian Environmental.*, 12: 36-59.
- Bhatt, I.R., Lacoul, P., Lekhale, H.D. and Jha, P.K., 1999. Physico-chemical characteristics and Phytoplanktons of Taudaha Lake, Kathmande. *Poll. Res.*, 18(4): 353-358
- Bhattacharya, T., Saha, R.K. and Chakrabarti. T. 1988. Dual variation in the water quality, plankton population and primary production in a freshwater pond in Tripura. *Environmental Ecology.*, 6(4): 923-932.
- Biggs, B.J. F. 1995. The contribution of flood disturbance, catchment geology and land use to the habitat template of periphyton in stream ecosystems. *Freshwater Biology*, 33: 419–38.
- BIS.1992. Indian Standard Specification for Drinking Water, IS 10500, Bureau of Indian Standards, New Delhi
- Biswas, K.P. 1949. Common fresh and brackish water algal flora of India and Burma. *Rec. Bot. Surv. India*, 15 (1): 1-105.
- Blum, J. L., 1956. The Ecology of River Algae, *Botany Revision*. 22: 291-341.
- Bordallo, A.A, Nilsumranchi, W, Chalermwat, K. 2001. Water quality and uses of the Bangpakong River (Eastern Thailand). *Water Research*, 35: 3535-3642.

- Borker, M.R., Saraswati, K. Quadros, S.V. and Fernandes, S.V. 1992. Diacycle of some abiotic and microbial quality of a freshwater reservoir during monsoon at Mormugoa, Goa. *Bioved.* 3 (2): 133-136.
- Brown, R. M., McClelland, N. I., Deininger, R. A. and Tozer, R. G., 1970. A Water Quality Index – Do we Dare?, *Water Sewage Works*: 339–343.
- CCME-Canadian Council of Ministers of the Environment 1999. Canadian Environmental Quality Guidelines.
- Cemagref. 1982. Quantitative Study of Biological Methods of assessment of Water Quality. Report Lyon Water Quality Division Agency Eua Rhône-Mediterranean-Corsica, Pierre Benite, 218.
- Chandrasekhar, J. S., k. L. Babu & R. K. Somasekar, 2003. Impact of urbanization on bellandur lake, bangalore – a case study, *Journal of Environmental Biology*, 24 (3): 223-27.
- Charuvan, K. Seneeb, S. Vipaveec, A. 2013. Water Quality Index of San Saeb Canal. *Proceeding - Science and Engineering*, 404–408.
- Chatterjee, A.A. 1992 Water quality of Nandankanan lake. *Indian Journal. Environ Hlth.* 34(4): 329-333.
- Christie, C. E. and J. P. Smol. 1993. Diatom Assemblages as Indicators of Lake Tropic status in Southeastern Ontario Lakes. *Journal of Phycology*, 29:575- 586.
- Coste A.M, and H, 1991. Study of the quality of the waters of the Artois-Picardie basin by means of benthic diatom communities Application diatomic indices. Report Cemagref Bordeaux -Agence of the Artois-Picardie Water, Douai, 227.
- Coste Rumeau, A, and M. 1988, Introduction to the systematics of diatoms in freshwater for the practical use of a generic diatomic index. *Bulletin of France Piscic.*, 309, pp. 1-69.
- Crane, S.R., Westerman, P.W. and Overcash M.R. 1981, Die-off of faecal indicator organisms following land application of poultry manure. *Journal of Environmental Quality*, 9: 531-537.
- Cude C. G. 2001. Oregon water quality index: a tool for evaluating water quality management effectiveness. *Journal of the American Water Research Association* 37:125–137
- Desai, P.V. 1995. Water Quality of Dudhasagar River at Dudhasagar (Goa), India. *Pollution Research.* 14(4): 337-382.

- Descy, J.P. Mouvet, C. 1984. Impact of the Tihange nuclear power plant on the periphyton and the phytoplankton of the Meuse River (Belgium). *Hydrobiologia*. 119:119–128.
- Descy, J.P. 1979. A new approach to water quality estimation using diatoms”. *Nova Hedwigia*, 64, pp. 305-323.
- Dhaarani, D. and Ilavarasan, N. 2015. Water Quality Analysis on Yercaud Lake. *The Asian Review of Civil Engineering (TARCE)*, 4(1), pp 28-31.
- Dinius, S. H. 1987. Design of an index of water quality. *Water Research Bulletin*. 23(5): 833–843.
- Dixit, S. S., Smol, J. P., Kingston, J. C., Charles, D. F. 1992. Diatoms: Powerful Indicators of Environmental Change. *Environmental Science & Technology* 26:22–33
- Dojlido, J., Raniszewski, J. and Woyciechowska, J. 1994. Water quality index-application for river in Vistula River Basin in Poland, *Water Sci. Technol.* 30(10): 57–64.
- Dubey, N. 2003. A Comparative Status of Quality of Drinking Water of Bhopal City filtration plants and Ground Water with Special Reference to Heavy Metals and Organo Chemical, Ph.D. Thesis.
- Dunnette, D. A. 1979. A geographically variable water quality index used in Oregon. *Journal of the Water Pollution Control Federation* 51: 53–61
- Dwivedi, B.K. and Pandey, G.C, 2002. Physicochemical factors and algal diversity of two ponds, (Girija Kund and Maqubara Pond), faizabad. *Pollution Research*. 21:361-370.
- Dwivedi, P. and S. Sonar, 2004. Evaluation of physico-chemical and biological characteristics of water samples in water reservoir around Rono Hills, Doimmukh (Dist. Papum Pare), Arunachal Pradesh, *Pollution Research*. 23 (1): pp. 101-104.
- Dwivedi, S., Tiwari, I.C. and Bhargava, D.S. 1997. Water quality of the river Ganga at Varanasi, *Institute of Engineers, Kolkota*, 78, 1-4.
- Effendi H., Utomo B. A., Darmawangsa G. M., Hanafiah D. A., 2015. Wastewater treatment of freshwater Crayfish (*Cherax quadricarinatus*) culture with lettuce (*Lactuca sativa*). *International Journal of Applied Environmental Sciences* 1:409-420.
- Ehrlich, A. 1995. Atlas of Inland-water Diatom Flora of Israel. The Geological Survey of Israel: 1-166.

- Eloranta, P. & Soininen, J. 2002. Ecological status of some Finnish rivers evaluated using benthic diatom communities. – *Journal of Applied Phycology*, **14**: 1-7
- Fernandez, N., Ramirez, A. and Solano, F., 2012. Physico-chemical water quality indices-a comparative review, *Revista Bistua*. ISSN 0120-4211.
- Foged, N. 1978. Freshwater diatoms in eastern Australia. *Bibliotheca Phycologica* **41**: 1-243.
- Fokmare, A.K. and Musaddiq, M. 2001. Comparative studies of physico-chemical and bacteriological quality of surface and ground water at Akole (MS). *Pollution Research.*, vol. **4**: pp. 56-61.
- Food and Agriculture Organization (FAO) 1997. Chemical analysis manual for food and water, 5th ed. **1**: 20-26.
- Fritz, S. C., Juggins, S., Battarbee, R. W., 1993. Diatom assemblages and ionic characterization of lakes of the Northern Great Plains, North America: A Tool for reconstructing past salinity and climate fluctuations. *Canadian Journal of Fisheries Aquatic Sciences* **50**: 1844–1856.
- Gandhi, H.P. 1955. A Contribution to our knowledge of the fresh water diatoms of Pratabgarh, Rajasthan. *Journal Indian Botany Society*, **34**: 307-337.
- Gandhi, H.P. 1959. Fresh-Water Diatoms from Sagar in the Mysore State. *Journal of the Indian Botanical Society* **38**: 305–331.
- Gandhi, H.P. 1966. The fresh-water diatom flora of the Jog-Falls, Mysore State. *Nova Hedwigia* **11**: 89–197.
- Gandhi, H.P. 1970. A further contribution to the diatom flora of the Jog-Falls, Mysore State, India. *Beihefte zur Nova Four new Bacillariophyceae from the Western Ghats Phytotaxa* 22[©] 2011 Magnolia Press, 39 *Hedwigia* **31**: 757–813.
- Garg, S.S., 2002. Seasonal fluctuation on physico-chemical parameters of river Mandakini, Chitrakoot, Indian. *Journal of Envntl. Prtcn.* **22** (9): pp.986-991.
- Goel, P.K., Gopal and Trivedy, R.K. 1980. Impact of sewage on freshwater ecosystem. II–physic-chemical characteristics of water and their seasonal changes. *International Journal Ecology and Environmental Science*. **6**: 97-116.
- Gonzalves, E.A & Gandhi, H.P. 1953. A systematic account of the Diatoms of Bombay and Salsette-II. *Journal of the Indian Botanical Society*, **32**: 239-263.
- Gonzalves, E.A & Gandhi, H.P. 1954. A systematic account of the Diatoms of Bombay and Salsette-III. *Journal of the Indian Botanical Society*, **33**: 338–350.

- Gonzalves, E.A. & Gandhi, H.P. 1952. A systematic account of the Diatoms of Bombay and Salsette I. *Journal of the Indian Botanical Society*, **31**: 117–151.
- Gonzalves, E.A. and Joshi, D.B. 1946. Fresh water algae near Bombay. The seasonal succession of algae in a Tank of Bandra. *Journal Bombay Nature Historical Society*, **46**: 154-176.
- Gopalkrushna, M.H., 2011. Determination of physico-chemical parameters of surface water samples in and around Akot city, *international journal of research in chemistry and environment*, vol.1 (2), pp. 183-187.
- Gopinathan, C.P. 1984. A systematic account of the littoral diatoms of the south west coast of India. *Journal of Marine Biology Association of India*. 26 (1,2); 1-31.
- Gray, N. F., 2005. *Water technology, an introduction for environmental scientists and engineers*. 2nd edition, publishing butter worth. Heinemann.
- Gupta, B. K. & Gupta, R. R. 1999. Physico-chemical and biological study of drinking water in Satna, Madhya Pradesh, India. *Pollution Research*. 18 (4): pp. 523-525.
- Hakansson, H. 1996. *Cyclotella striata* complex: typification and new combinations. - *Diatom Research*. **11**: 241-260
- Hakansson, H. 2002. A compilation and evaluation of species in the general *Stephanodiscus*, *Cyclostephanos* and *Cyclotella* with a new genus in the family *Stephanodiscaceae*. *Diatom Research* 17(1): 1-139.
- Hall, R.I. and Smol, J.P., 1992. A weighted-averaging regression and calibration model for inferring total phosphorus concentration from diatoms in British Columbia (Canada) lakes. *Freshwater Biology* **27**: pp. 417–434.
- Hallock, O. 2002. A water quality index for ecology's stream monitoring program. Washington State Department of Ecology, Olympia, WA. Publication No 0203052: 23 p.
- Hernandez-Romero, AH. Tovilla-Hernández, C, Malo, E.A, Bello-Mendoza, R. 2004. Water quality and presence of pesticides in the tropical coastal wetland in southern Mexico. *Marine Pollution Bulletin*, **48**: 1130-1141.
- Heurck, H. Van 1885. *Synopsis des Diatomées de Belgique. Texte*. Anvers: Martin Brouwers & Co. pp. 1-235
- Horton, R.K. 1965. An index number system for rating water quality. *J Water Poll Control Fed* 37(3): 300–306
- Hosmani. S.P. and Bharathi. S.G. 1980. Algae as indicators of organic pollution. *Phykos*: 19(1): 23-26.

- House, M. A. and Ellis, J. B. 1987. The development of water quality indices for operational management', *Water Science and Technology*. 19(9), 145–154.
- Hustedt, F. 1930a. Die Süßwasserflora Mitteleuropas. Heft 10. 2nd Edition. Bacillariophyta (Diatomeae). A. in Ettl, H., Gerloff, J., Heynig, H. and Mollenhauer, D. (eds) Süßwasserflora von Mitteleuropa, Band 2/3.
- Hustedt, F. 1957. Die Diatomeenflora des Fluss-systems der Weser im Gebiet der Hansestadt Bremen. *Abhandlungen der Naturwissenschaftlichen Verein zu Bremen* 34(3), 181-440, 1 pl.
- Hustedt, F. 1930. Bacillariophyta (Diatomeae). In: Die Süßwasser- Flora Mitteleuropas. Heft. 10, 2. Aufl. (Pascher, A. Eds), (8), 466-875.
- Icmr.1975. Manual of standards of quality for drinking water supplies, special report series 44, 2nd ed.
- ISI.1991. Indian standard specification for drinking water IS: 10500, ISI, New Delhi.
- John, J. 2012. A Diatom Prediction Model and Classification for Urban Streams from Perth, Western Australia. Germany: Koeltz Scientific Books.
- Johnstone, James 1908. Conditions of life in the sea. Cambridge, Cambridge University Press., Frontispieces (chart), **31**. 332pp.
- Jonnalagadda, S. B. and Mhere, G, 2001, Water quality of the Odzi River in the eastern highlands of Zimbabwe, *Water Res.* 35(10): 2371–2376.
- Jonnalagadda, S.B. Mhere, G. 2001. Water quality of the Odzi river in the eastern highlands of Zimbabwe. *Water Research*, 35: 2371-2376.
- Jose J. 1990. Ecological studies of certain polluted rivers of Gujarat.
- June Fred C. 1987. Early life history and winter mortality of gizzard shad in Lake Sharpe, South Dakota. In: June Fred C., L.G. Beckman, J.H. Elrod, G.K. O'Bryan, and D.A. Vogel, editors. *Limnological and fishery studies on Lake Sharpe, a main-stem Missouri River reservoir, 1964-1975*. Technical report 8. U.S. Dept. of the Interior, Fish and Wildlife Service, Washington, D.C: pp. 75-83.
- Juttner, I., Chimonides, P.J. & Ormerod, S.J. 2009. Using diatoms as quality indicators for a newly-formed urban lake and its catchment. *Environment Monitoring and Assessment*. DOI 10.1007/s10661-009-0775-2. **162**: 47 – 65.
- Juttner, I., Rothfritz, H., Ormerod, S.J. 1996. Diatoms as indicators of river quality in the Napalese Middle Hills with consideration of the effects of habitat-specific sampling. *Freshwater Biology*. 36(2): 475-486.

- Kanungo, V.K, Naik.M. L, and Jain, Y.K. 1985. Physico-chemical characteristics of sewage and some ponds of Raipur city. *Geobios*.12 (3-4): 154-156.
- Karthick, B., Mahesh, M.K. & Ramachandra, T.V. 2011. Nestedness Pattern in Stream Diatom Assemblages of Central Western Ghats. *Current Science*. 100(4): 552 – 558.
- Kataria, H. C., Iqbal & S. A. Sandilya, A. K. 1995. Limno-chemical studies of Tawa reservoir, *Indian Journal of Environmental Protection*. 16 (11): pp. 841-846.
- Kaul, V. and Handoo, J. K. 1980. Physicochemical characteristics of Nilnag-a high altitude forest lake in Kashmir and its comparison with valley lakes. *Proceeding Indian National Science Academy*, 46(4): 528-541.
- Kelly, M. G. 1998. Use of the trophic diatom index to monitor eutrophication in rivers. *Water Research*, 32: 236–42.
- Kelly, M.G. and Whitton, B.A. 1995. The Trophic Diatom Index: a new index for monitoring eutrophication in Rivers. *Journal of Applied Phycology*, 7: 433-444.
- Kelly, M.G., King, L. and Ni Chathain, B. 2009. The conceptual basis of ecological status assessments using diatoms. *Royal Irish Academy*, 109(3): 175- 189.
- King. R. D. & Tyler, P. A. 1981. Meromictic lakes of south-west Tasmania. *Australian Journal of Marine and Freshwater Research* 32: 741 -756.
- Koshy, M. & Nayar, T. V. 1999. Water quality aspects of river Pampa, *Pollution Research*. 18(4): pp.501-510.
- Krammer, K. & Lange-Bertalot, H. 1991. Bacillariophyceae. 3. Teil: Centrales, Fragilariaceae, Eunotiaceae. – In: Ettl, H., Gerloff, J., Heynig, H. & Mollenhauer, D. (eds): Süßwasserflora von Mitteleuropa. 2 (3). G. Fischer, Stuttgart & Jena. [Comment: Some names first used in this volume were validated in Lange-Bertalot (1993).]
- Krammer, K. and Lange-Bertalot, H. 1986. Bacillariophyceae. 1. Teil: Naviculaceae.
- Krammer, K. and Lange-Bertalot, H. 1991. Bacillariophyceae. 3. Teil: Centrales, Fragilariaceae, Eunotiaceae.
- Krammer, K. and Lange-Bertalot, H. 1991a. Bacillariophyceae. 3. Teil: Centrales, Fragilariaceae, Eunotiaceae. in Ettl, H., Gerloff, J., Heynig, H. and Mollenhauer, D. (eds) Süßwasserflora von Mitteleuropa, Band 2/3. Gustav Fischer Verlag: Stuttgart, Jena. 576 pp.
- Kumar A. and Shukla M. 2002. Water quality index (WQI) of river Sai at Raibareilly city U.P. *Journal of Ecophysiology Occupations Health*. 2: 163-72.

- Kumar, A., 2002. Ecology of polluted water volume-2. A.P.H. Publishing Corporation. New Delhi.
- Kurata Mamoru and Yuji Nishihama. 1987. Seasonal change of the hydro graphic condition in lake Notoro-Hokkaido (Japan). Science Hokkaido fisher Express. (29): 17-24.
- Kuusisto., 1985. Guidelines on Monitoring and assesment of Transboundary and International Lakes.
- Kwandrans, J., Eloranta, P., Kawecka, B., Wojtan, K. 1998. Use of benthic diatom communities to evaluate water quality in rivers of southern Poland. Journal of Applied Phycology 10:193–201.
- Laluraj, C. M., P. Padma, C. H. Sujatha, S. M. Nair, N. C. Kumar & J. Chacko, 2002. Base-line studies on the chemical constitutes of Kayamkulam estuary near to the newly commissioned NTPC power station, Indian Journal of environmental Protection. 22 (7): pp. 721-731.
- Lange-Bertalot, H. & Metzeltin, D. 1996. Indicators of Oligotrophy. 800 Taxa representative of three ecologically distinct lake types, Carbonate buffered-Oligodystrophic-weakly buffered soft water. In: Iconographia Diatomologica. Annotated Diatom Monographs.- Vol. 2. Ecology, Diversity, Taxonomy. (Lange-Bertalot, H. Eds), Königstein: Koeltz Scientific Books: pp. 1-390.
- Lange-Bertalot, H., and R. Simonsen. 1978. A Taxonomic Revision of the Nitzschiae lanceolatae Grunow. 2. European and Related Extra-European Freshwater and Brackish Water Taxa. Bacillaria 1: 11-112
- Le Cohu, R., 1996. Further observations and some comments on the fine structure of the centric diatom *Aulacoseira islandica* (Bacillariophyceae). Journal Phycology, 32(2): 333–338. Monograph No. 13: 213 pp
- Lenoir, A. and Coste, M. 1996. Development of a practical diatom index of overall water quality applicable to the French national water board network. In: B.A. Whitton and E. Rott (Eds.), Use of Algae for Monitoring Rivers II. Institut fur Botanik. Univ. Innsbruck, Innsbruck: 29-43.
- Liou, S.M, Lo, S, L. Hu, C.Y, 2003. Application of two-stage fuzzy theory September to river quality evaluation in Taiwan. Water Research, 37: 1406-1416
- Madalina1, 2015. Breaban Iuliana Gabriela Water quality Index – an Instrument for Water Resources Management Paiu, Alexandru Ioan Cuza University, Faculty of Geography and Geology, Iași, Romania- Report.

- McCormick PV, Cairns J., 1994. Jr Algae as indicators of environmental change. *Journal of Applied Phycology*. **6**:509–526.
- McCormick, P. V. & Stevenson, R. J. 1989. Effects of snail grazing on benthic algal community structure in different nutrient environments. *Journal of the North American Benthological Society*, **82**: 162–72.
- McCormick, P.V., and Cairns, J., 1994, Algae as indicators of environmental change: *Journal of Applied Phycology*, v. **6**, p. 509-526.
- Meybeck, M., Chapman, D. and Helmer, R. [Eds] 1989. *Global Freshwater Quality: A First Assessment*. Blackwell Reference, Oxford, 306 pp.
- Miller W. W., Jounq, H. M. Mahannah, C. N. Garret, J. R. 1986. Identification of water quality differences in Nevada through index application. *Journal of Environmental Quality* **15**:265–272.
- Miller, W.W, Young, H.M., Mahannah, C.N. and Garret, J.R. 1986: Identification of Water Quality Differences in Nevada through Index Application. *Journal of Environmental Quality*, Vol.**15**:265-272.
- Milligan, A. J. & Morel, F. M. M. 2002. A proton buffering role for silica in diatoms, *Science* 297:1848-1850.
- Mishra, G.P. and Yadav, A.K. 1978. A comparative study of physicochemical characteristics of river and lakes water in certain India. *Hydrobiologia*. 59 (3): 275-278.
- Mitchell M.K and Stapp. 1996 *Field manual for water quality monitoring. An Environmental Education Program for Schools*. Thomson-Shore. Inc. Dexter. Michigan.
- Mnisi, L.N., 2010. Assessment of the state of the water quality of the Lusushwana River, Swaziland, using selected water quality indices. M.Sc. Thesis, University of Zimbabwe, Harare.
- Mohammad Reza Nikoo, Reza Kerachian · Siamak Malakpour-Estalaki · Seyyed Nasser Bashi-Azghadi · Mohammad Mahdi Azimi-Ghadikolaee, 2010. A probabilistic water quality index for river water quality assessment: a case study. *Environ Monit Assess* DOI 10.1007/s10661-010-1842-4.
- Montimer, C.H. 1941. The exchange of dissolved substances between mud and water in lakes. *Journal of Ecology*, 29: 280-320.
- Mubiru, D. N., Coyne M. S. & Grove, J. H. 2000. Mortality of *Escherichia coli* q157:h7 in two soils with different physical and chemical properties, *Journal Environmental Quality*, **29**, pp. 1821-25.

- Nagel, J.W. 2001. The water quality index for contact recreation. *Water Science Technology*, **43**: 285-292.
- Nandan, S.N., Mahajan, S.R., Kumavat, M.R. and Jain, D.S. 2001. Limnological study of Hartala lake Of Jalgaon, Maharashtra. Proceeding 88th Indian Science Congress New Delhi. Part III (Advance abstract)1-2.
- Nirmal Kumar J.I. 1992. Trophic status of certain lentic waters in Kheda district Gujarat, India. – In: R.K. Trivedy (ed). *Ecology and Pollution of lakes and reservoirs*, Asish Publishers, New Delhi. 203-222.
- Nirmal Kumar J.I., Hiren Soni, Kumar R.N. 2008. Patterns of site-specific variation of waterfowl community, abundance and diversity in relation to seasons in Nal Lake Bird Sanctuary, Gujarat, India. – *International Journal Global Bird Biogeography* **8**: 1-20.
- Ojha, P., & Mandloi, A.K. 2004. Diurnal variation of ph in freshwater fish culture pond. *Ecology, Environment and Conservation*, **10** (1): 85-86.
- Okuno, H. 1974. Freshwater Diatoms. *Diatomeenschalen im Elektronenmikroskopischen Bild*. **9**: 1–45, pls. 825–923.
- P. Ravikumar, Mohammad Aneesul Mehmood, R. K. Somashekar, 2013. Water quality index to determine the surface water quality of Sankey tank and Mallathahalli lake, Bangalore urban district, Karnataka, India. *Applied Water Science*, **3**:247–261.
- Palmer, J.D, Round, F.E, 1967. Persistent vertical-migration rhythms in benthic microflora. VI. The tidal cycle and diurnal nature of this rhythms in the diatom *Hantzschia virgata*. *Biol Bull (Woods Hole)* **132**:121–134.
- Palmer, C.M. 1969. A composite rating of algae tolerating organic pollution. *Journal of Phycology*, **5**: 78-82.
- Pan, Y. D., Stevenson, R. J., Hill, B. H., Herlihy, A. T., and Collins, G. B. 1996. Using diatoms as indicators of ecological conditions in lotic systems: a regional Assessment. *Journal of the North American Benthological Society*, **15**: 481–95.
- Panduranga Murthy, G., Puttaramaiah, G., Shankar P. Hosmani, Mokshith, M.C., Leelaja, B.C., Shivalingaiah, B and C.Kalachari., 2014. The Innovative Water Quality Index (Iwqi) for Lakes of Mysore, Karnataka, India. *IJCBR*, **1**(1): 25-29.
- Patel.S.P and Ragothaman, G.2005. Studied on the coastal water of Nandgaon and Dahance coast from Konner region North West Maharastra. *International Journal. of Bioscience Reporter*, **3**(2): 392-405

- Patil N.J, Patil G.B, Lokande P.B. and Mujawar H.A. Study of physico-chemical parameters of surface waters from Kudalika river near Roha, MIDC, Raigad. *IJEP* 2006; 26(2): 167-74
- Patrick, R. 1948. Factors affecting the distribution of diatoms. *Botany Revision*. 14(8): 473- 524.
- Patrick, R. and C. W. Reimer 1966. The diatoms of the United States, exclusive of Alaska and Hawaii, Volume 1- Fragilariaceae, Eunotiaceae, Achnanthaceae, Naviculaceae. Academy of Natural Sciences of Philadelphia Monograph No. 13, 688 pp.
- Patrick, R. and Reimer C. W. 1975. The diatoms of the United States, exclusive of Alaska and Hawaii, Volume 2, Part.
- Pejaver Madhuri, Somani Vaishali and Borker Mangala. 2002. Physico-chemical studies of lake Ambegosale, Thane, India. *Journal of Ecobiology*. 14(4): 277-281.
- Peragallo, H. & Peragallo, M. 1897. Diatomées marines de France et des Districts Maritimes Voisins. Atlas. Grez-sur-Loing (S. et M.): J. Tempère, Micrographe-Editeur, pl.1-24.
- Pesce, S. F. and Wunderlin, D. A. 2000. Use of water quality indices to verify the impact of Cordoba City (Argentina) on Suquia River. *Water Research* 34(11): 2915–2926.
- Philipose, M.T. 1960. Fresh water phytoplankton of inland fisheries. Proceeding Symposium. Algology Publication. ICAR. New Delhi. 272-291. Press. Reprinted 2000.
- Prygiel, J., and Coste, M. 2000. Methodological guide for the implementation work Index Diatoms Organic NF T 90-354. Agencies Water-Cemagref-Groupement de Bordeaux. Water Agencies.
- Prygiel, J., Whitton, B.A. and Bukowska, J. 1999. Use of algae for monitoring rivers III. Agence de l'Eau Artois-Picardie.
- Prygiel, J. 1991. Use of benthic diatoms in surveillance of the Artois-Picardie basin hydrobiological quality. In: Use of algae for monitoring rivers, Whitton B A, Rott E and Friedrich G (Eds.). Düsseldorf, E. Rott, Innsbruck. 89–96.
- Puttaiah, E.T. and Somashekar, R.K. 1985. Limnological studies on certain freshwater bodies of Mysore district, Karnataka. I- Ionic composition. Proceeding Symposium Recent advances in plant sciences. 381-386.

- Sarkar, R. & Krishnamoorthy, K.P. 1977. Biological method for monitoring water pollution level studies of Nagpur. *Indian Journal of Environmental Health*. 19 (2): 132-139,
- Rai, H. and Hill, G. 1982. On the nature of ecological cycle of Lago January: A central Amazonian Ria-Verzea lake. *Tropical Ecology*, **23**: 1-49.
- Prasad,R, Sadashivaiah. C. and Ranganna, G. 2009. Hydrochemical Characteristics and Evaluation of Groundwater Quality of Tumkur Amanikere Lake Watershed, Karnataka, India *E-Journal of Chemistry*, 6 (S1), S211-S218.
- Rajkumar, N. 2001. Biodiversity and quantitative analysis of Phytoplankton of a polluted freshwater pond (Pollachi), Tamilnadu. *Proceeding 88th Indian Science Congress*. New Delhi Part III (advance abstracts) 4-5.
- Ramakrishanaiah C.R, Sadashivaiah C. and Ranganna G. 2009. Assessment of Water Quality Index for the Groundwater in Tumkur Taluk, Karnataka State, India. *E. Journal of Chemistry* 6 (2): 523-30
- Rana, B.C., and Nirmal Kumar J.I. 1992. Macrophytes and Nutrient study of two wetlands of Guajrat, India. – *International Journal Ecology and Environmental Science*.18: 195-202.
- Rao, V.N.R., Mohan, R., Hariprasad, V, and Ramasubramanaiah, R. 1993. Seasonal dynamics of Physico-chemical factors in a tropical high altitude lake: an assessment in relation to phytoplankton. *Indian Journal Biology* 14(1): 63- 75.
- Ravi Kumar, B.S. and Puttaiah, E.T. 1996. Ecological investigations on the lakes of Hassan district (Karnataka): Biological index of pollution. *Geobios new reports*. 15(1):13-16.
- Reavie, E.D., R.I. Hall, and J.P. Smol. 1995. An expanded weighted-averaging model for inferring past total phosphorous concentrations from diatom assemblages in eutrophic British Columbia (Canada) lakes. *Journal of Palaeolimnology*. **14**: 49-67.
- Reza, R, Singh, G. 2010. Assessment of Ground Water Quality Status by Using Water Quality Index Method in Orissa, India. *World Applied Science*, 9 (12): 1392-1397.
- Ricard, M. 1987. *Atlas du Phytoplankton Marin. Diatomophycées*. Paris: Éditions du Centre National de la Recherche Scientifique. Vol. 2: 1-297
- Romero, O., Boeckel, B., Donner, B., Lavik, G., Fischer, G., Wefer, G., 2002. Seasonal productivity dynamics in the pelagic central Benguela System inferred from the

- flux of carbonate and silicate organisms. *Journal of Marine System*, **37**: 259 – 278.
- Rott, E. 1991. Methodological aspects and perspectives in the use of periphyton for monitoring and protecting rivers. In *Use of Algae for Monitoring Rivers*, ed. B. A. Whitton, E. Rott and G. Friedrich, Innsbruck: Universitat Innsbruck. 9–16
- Rott, E., Pipp, E., Pfister, P., Van Dam, H., Ortler, K., Binder, N. and Pall, K. 1999. Indikationslisten für Aufwuchsalgen in österreichischen Fließgewässern. Teil 2: Trophieindikation (sowie geochemische Präferenzen, taxonomische und toxikologische Anmerkungen). *Wasserwirtschaftskataster, Bundesministerium f. Land- u. Forstwirtschaft, Wien*, 248.
- Round, F.E. 1993. A review and methods for the use of epilithic diatoms for detecting and monitoring changes in river water quality. *Methods for the Examination of Waters and Associated Materials*. Her Majesty's Stationary Office, London. 65.
- Round, F.E., Crawford, R.M. & Mann, D.G. 1990. *The Diatoms - Biology & Morphology of the genera*. Cambridge University
- Ruggell: A.R.G. Gantner Verlag K.G., Witkowski, A., Lange-Bertalot, H. & Metzeltin, D. 2000. Diatom flora of marine coasts I. In: *Iconographia Diatomologica. Annotated Diatom Micrographs. Diversity-Taxonomy-Identification*. Vol. 7. (Lange-Bertalot, H. Eds). 1-925.
- Sabater, S., Guasch, H., Ricart, M., Romani, A., Vidal, G., Klünder, C. & Schmitt-Jansen, M. 2007. Monitoring the effect of chemicals on biological communities. The biofilm as an interface. *Analytical and Bioanalytical chemistry*. DOI: 10.1007/s00216-006-1051-8. **387(4)**: 1425 – 1434.
- Sabater, S., Sabater, F. and Tomas, X. 1987. Water quality and diatom communities in two Catalan rivers (N.E. Spain). *Water Research*, **21**: 901-911.
- Samantray P, Mishra B.K, Panda C.R. and Rout S.P. 2009. Assessment of water quality index in Mahanadi and Atharabanki rivers and Taldanda canal in Pradip area, India. *Journal of humanity Ecology*, **26(3)**: 153-61.
- Santosh M.A. and Shrihari S. 2008. Evaluation of water quality index for drinking purposes for river Natravathi, Mangalore, South India. *Environmental Monitoring Assessment*, **143**: 279-90.
- Saxena, S., 1998. Settling studies on pulp and paper mill wastewaters. *Indian Journal Environmental Health.*, **20**: 273-280.

- Schindler, D. W., 1978. Factors regulating phytoplankton production and standing crop in the world's freshwaters. *Limnology Oceanography*, **23**: 478-486.
- Senthilkumar, R and Sivakumar, K. 2008. Studies on phytoplankton diversity in response to abiotic factors in Veeranam Lake in the Cuddalore district of Tamil Nadu. *Journal of Environmental Biology* **29**: 747-752
- Shah, K.A. Joshi, G.S. 2015. Evaluation of water quality index for River Sabarmati, Gujarat, India. *Applied Water Science*, DOI 10.1007/s13201-015-0318-7.
- Shweta Tyagi, Rajendra Dobhal,. Kimothi,P.C. Adlakha,L.K. Prashant Singh, D.P. Uniyal. 2013. Studies of River Water Quality Using River Bank Filtration in Uttarakhand, India. *Water Qual Expo Health*, DOI 10.1007/s12403-013-0097-z.5:139–148.
- Sindhu S.K. and Sharma A. 2007. Study on some physico-chemical characteristics of ground water of district Rampur- A statistical approach. *E.Journal of chemistry*, 4 (2): 162-5.
- Singh and Mahajani, R. 1987. Phytoplankton and water chemistry of rewalsar and Renuka lakes, Himachal Pradesh. *Indian Journal Ecology*, 14(2): 273-277.
- Singh, B. N. & S. Rai, 1999. Physico-chemical studies of Ganga river at Varanasi, *Journal of Environmental and Pollution*, 6(1):43-46.
- Singh, C.S. 1961. A systematic account of freshwater diatoms of Uttar Pradesh- II. Diatom flora of the Banaras Hindu University. – *Proceeding Natural Academy Science India*, **31**: 203–223
- Singh, C.S. 1962. A systematic account of freshwater diatoms of Uttar Pradesh- I. Diatom flora of the Banaras Hindu University. – *Proc. Natl. Acad. Sci. India* 31: 233–241.
- Singh, D.F. and Rai, M.K. 1984. Ecology of engineering college of Jabalpur lake (M.P) Muzaffarnagar. 5(3): 165-168.
- Singh, R.P. and Mathur, P. 2005. Investigation of variations in physicochemical characteristics of a fresh water reservoir of Ajmer city, Rajasthan, *Indian Journal of Environmental Science*, **9**: 57-61.
- Skvortzov, B.V. 1935, Diatoms from Calcutta, India. *Philippine Journal of Science*, 58(2):179-192, 1 pl.
- Sladeczek V 1986. Diatoms as indicators of organic pollution. *Acta Hydrochimica et Hydrobiologica*, **14**: 555-566.

- Smith, D. G. 1990. A better water quality indexing system for rivers and streams, *Water Research* 24(10):1237–1244.
- Squires, L. E., S. R. Rushforth & D. J. Brotherson, 1979. Algal response to a thermal effluent: Study of a power station on the Provo River, Utah, USA. *Hydrobiology* 63: 1011–1017.
- Sreenivas, S.S., and Rana, B.C. 1994. Studies on the ecology and trophic status of Gomti a village tank in Central Gujarat, (India). *Environ and Applied Biology*.307-314.
- Srinivasan, K.S. 1965. Indian botany in retrospect with particular reference to algal systematics. – *Journal Asian Society*, 7: 49–78.
- Stambuck-Giljanovic, N. 1999. Water quality evaluation by index in Dalmatia, *Water Research*. 33(16): 3426–3440.
- Steinberg, C. and Schiefele, S. 1988. Biological indication of trophy and pollution of running waters. *Z. Wasser. Abwasser.Forsch.*, 21: 227–234.
- Steinman, A. D., McIntire, C. D., Gregory, S. V., Lamberti, G. V., and Ashkenas, L. (1987). Effect of herbivore type and density on taxonomic structure and physiognomy of algal assemblages in laboratory streams. *Canadian Journal of Fisheries and Aquatic Sciences* 44:1640–8.
- Stevenson, R. J. 1997. Scale-dependent causal frameworks and the consequences of benthic algal heterogeneity. *Journal of the North American Benthological Society*, 16: 248–62.
- Stevenson, R. J. 2006. Refining diatom indicators for valued ecological attributes and development of water quality criteria. In *Advances in Phycological Studies*, ed. N. Ognjanova-Rumenova and K. Manoylov, Moscow: Pensoft Publishers, 365–83.
- Stoermer E. F. & Smol J. P. eds. 1999. *The Diatoms: Applications for the Environmental and Earth Sciences*. Cambridge University Press, Cambridge, UK. ISBN: 0-521-58281-4.
- Subrahmanyam, R. 1946. A systematic account of the marine plankton diatoms of the Madras coast. *Proceeding Indian Academy Science*, 24B: 85-197.
- Swamee, P. K. and Tyagi, A. 2000. Describing water quality with aggregate index. *Journal Environmental Engineering*. 126(5): 451–455.
- Swarnalatha N. and Narsing Rao, A. 1991. Investigation of Lake Sarror Nagar with reference to water pollution. *Journal of Phyta. Research*, 4(2): 121-129.

- Tandon, K.K. and Singh, H. 1972. Effect of certain physico-chemical factors on the Plankton of the Nangal Lake. *Proceeding Indian Academy Science*, **76**: 15-25.
- Terrado, M., Barcelo, D., Tauler, R., Borrell, E. and Campos, S.D. 2010. Surface-water-quality indices for the analysis of data generated by automated sampling networks, *Trends Anal. Chem.*, **29**(1). 40- 52.
- Tewari, D. D. & Srivastava, N. 2004. Distribution pattern of algal flora affected by the effluents released from rubber factory, *Pollution Research* **23** (1): 65-68.
- Thakor, F.J, Bhoi, D.K, Dabhi, H.R, Pandya San, Nikita Raj BC. 2011. Water Quality Index (W.Q.I.) of Pariej Lake Dist. Kheda - Gujarat. *World Current Approximately* **6**: 225-231.
- Tilman, D. 1977. Resource competition between planktonic algae: an experimental and theoretical Approach. *Ecology*, **58**: 338–348.
- Tilman, D. 1982. *Resource Competition and Community Structure*. Princeton University Press, Princeton, NJ.
- Trivedi, P. C. 2004. *Environmental pollution and management*, Aavishkar publishers, distributors, Jaipur, India.
- Venkataraman, G. 1939. A Systematic account of some South Indian diatoms. *Proceeding Indian Academy Science* **10**(B): 293-368
- Vilbaste, S. Truu, J. 2003. Distribution of benthic diatoms in relation to environmental variables in lowland streams. *Hydrobiologia* **493**: 81–93.
- Wani, I.A. 1998. *Limnology* (2nd edition) Me Graw Hill Book Co. IVX:1-536.
- Watanabe T, Asai K and Houki A. 1986. Numerical estimation to organic pollution of flowing water by using epilithic diatom assemblage. *Diatom assemblage Index (DAIpo)*, *Science of the Total Environment*, **55**: 209–218.
- Werner, D. 1977. *The biology of diatoms*. Bot. Monogr. University of California Press, Berkeley and New York, Volume 24, Page 200.
- Whitton, B. A., and M. G. Kelly. 1995. Use of algae and other plants for monitoring rivers. *Australian Journal of Ecology*, **20**: 45–56.
- WHO, 1985. *Guidelines for drinking water quality*, 1st edition world health organization, Geneva.
- Williams, D.M. & Round, F.E. 1988. Revision of the genus *Fragilaria*. *Diatom Research* **2**: 267-288

- Wills, M. and Irvine, K.N., 1996. Application of the national sanitation foundation water quality index in Cazenovia Creek, NY, Pilot watershed management project. *Mid. States Geograph.* 95-104.
- Witkowski, A., Lange-Bertalot, H. & Metzeltin, D. 2000. Diatom flora of marine coasts I. In: *Iconographia Diatomologica. Annotated Diatom Micrographs. Diversity-Taxonomy-Identification. Vol. 7.* (Lange-Bertalot, H. Eds). 1-925.
- Wu, J.T. 1999. A generic index of diatom assemblages as bioindicator of pollution in the Keelung River of Taiwan. *Hydrobiologia*, **397**: 79–87.
- Zafar, A.R. 1967. On the Ecology of Algae in Certain Fish Ponds of Hydrabad, India. 1. The Productivity. *Hydrobiologia*, **30**: 96-112.
- Zagatto, P.A., M.L. Lorenzetti, L.S. Perez, J.R. Menegon, and S.V. Buratini. 1998. Proposal for a new water quality index. *Verhandlungen der internationale Vereinigung für theoretische und angewandte Limnologie*. **26**: 2449–2451.
- Zelinka, M. and Marvan, P. 1961. Zur Präzisierung der biologischen klassifikation der Reinheit fließender Gewässer.-*Archeology Hydrobiology*, **57**:389-407.
- Zutshi, D.P. and Khan, A.U. 1988. Eutrophic gradient in the Dal Lake, Kashmir. *Indian Journal of Environment and Health*. **30(4)**: 348-354.