

REFERENCES

ferences

pe, K., Imamaki, A. & Hirano, M. (2002) Removal of nitrate, nitrite, ammonium and phosphate ions from water by aerial microalgae *Trentepohlia aurea*. *J. Appl. Phyc.* 14: 129-134

nnis, R. E & Cook, B. C. (2002) Alkaline phosphatase activity in symbiotic dinoflagellates (zooxanthellae) as a biological indicator of environmental phosphate exposure. *Mar. Ecol. Prog. Ser.* 245: 11-20

STM (1993) Standard Guide for Conducting Static Toxicity Test with Microalgae method E 1218-90. In: 1993 Annual Book of ASTM standards, vol. 11.04. American Society for Testing of Material, Philadelphia, Pennsylvania: 929-940

zov, Y & Goldman, J.C. (1982) Free ammonia inhibition of algal photosynthesis in intensive cultures. *Appl.Env.Microbiol.* 43(4) : 735-739

agchi, S.N., R. Sharma & H.N, Singh. (1985) Inorganic nitrogen control of growth, chlorophyll, and protein level in Cyanobacterium *Nostoc muscorum*. *Journal of Plant. Physiology.* 121: 73-81

alfoort, H. W., Snoek, J., Smitts, J. R. M., Breedveld, L. W., Hofstraat, J. W & Engelberg, J. (1992) Automatic identification of algae. Neural network analysis flow cytometric data. *J. Plankton Res.* 14: 575-589

References

- Bentley-Mowat., J. A., Reid, S. M. (1977) Survival of marine phytoplankton in high concentrations of heavy metals, and uptake of copper. *J. exp. mar. Biol. col.* 26:249-264
- Silgrami, K. S. & Datta Munshi, J. S. (1979) Limnological survey impact of human activities on the river Ganges, Tech. Report D.S.T., New Delhi
- Silgrami, K. S. & Datta Munshi, J. S. (1985) Ecological of river Ganges; Impact of human activities and conservation of aquatic biota (Patna to Farakka): Final Tech. Report. D.O.E., New Delhi
- Vanck, H., Wangberg, S. A. (1988) Induced community tolerance in marine periphyton established under arsenate stress. *Can. J. Fish. Aquat. Sci.* 45: 1816-319
- Winn, D. (1993) Diatom community structure along physiochemical gradients in saline lakes. *Ecology* 74: 1246-1263
- Watt, T. L., Brock, J.T., Dunn, C. S., Naiman, R. J., Ovink, R. W & Petersen, R. (1985) Benthic community metabolism in four temperate stream systems: An isoenzyme comparison and evaluation of the river continuum concept. *Hydrobiologia* 123: 3-45

References

- brown, V. M. (1975) Concepts and Outlook in Testing the Toxicity of Substances
to Fish. IN - Glass G. E. (Ed) Bioassay Techniques & Environmental Chemistry.
Ann Arbor Science Publishing Incorporated, Michigan 9-44
- Cairns, J..Jr., Pratt, J. R. (1986) On the Relation between structural and
functional analyses of ecosystems. *Envir. Toxicol. Chem.* 5: 785-786
- Cairn. J.R., R. Lawrence Klotz & Francis R. Trainor., Raymond Costello (1979).
Algal assay and chemical analysis: A comparative study of water quality
assessment techniques in a polluted river. *Environmental pollution.*, 215-223.
- Cairns, J. Jr., McCormick, P. V., Niederlehner, B. R. (1993) A Proposed
framework for developing indicators of ecosystem health. *Hydrobiologia* 263:1-44
- Camacho, A. & De Wit Rutger. (2003) Effect of nitrogen and phosphorus addition
on a benthic microbial mat from a hypersaline lake. *Aquatic Micro Ecol.* 32: 261-
273
- Carpenter, S. R., Fisher, S. G., Grimm, N. B., Kitchel., F. J. (1992) Global change
and freshwater ecosystems. *Abbu. Rev. Ecol. Syst.* 23:119-139
- Chen, C. Y. (1989) The effects of limiting nutrient to algal toxicity assessment: a
theoretical approach. *Tox. Assess.* 4: 35-42

References

- Chessman, B. C. (1986) Diatom flora of an Australian river system: Spatial patterns and environmental relationships. *Freshw. Biol.* 16:805-819
- Chung ching-ching., Sheng-Ping, L. Hwang & Jeng Chang. (2002) Identification of a high-affinity phosphate transporter gene in a prasinophyte Alga, *Tetraselmis hui*, and its expression under nutrient limitation. *Applied and Environmental Microbiology*. 69: 754-759
- Chu, W. L., Phang, S.M., Goh, S.H. & Blakebrough, N. (1994) Environmental effects on growth and biochemical composition of *Ankistrodesmus convolutus*. In: Phang, S.M., Lee, Y. K., Borowitzka, M. & Whitton, B. (Eds) (1994) Proceeding of the 1st Asia-Pacific Conference on Algal Biotechnology, University of Malaya, Kuala Lumpur: 16-27
- Cleuvers, M. & Ratee, Hans Toni. (2001) The importance of light intensity in algal tests with coulored substances. *Water Research*. 36: 2173-2178
- Collos, Y., Mornet, F., Sciandra, A., Waser, N., Larson, A & Harrison, P. J. (1999) An optical method for the rapid measurement of micromolar concentration of nitrate in marine phytoplankton cultures. *Journal of Applied Phytoplankton*. 11: 179 – 184

References

- Coronil, T., Lara, C & Guerrero, M.G. (1993) Shift in carbon flow and stimulation of amino-acid turnover induced by nitrate and ammonium assimilation in *Anacystis nidulans*. *Planta* 189: 461-467
- Crossey, M. J., La Point, T. W. (1988) A Comparison of periphyton community structural and functional responses to heavy metals. *Hydrobiologia* 162: 109-121
- Cummins, K. W., Klug, M. J. (1979) Feeding ecology of stream invertebrates. *Annu. Rev. Ecol. Syst.* 10:147-172
- de Lange, E. (1994). Manual for Simple Water Quality Analysis. International Water Tribunal (IWT) Foundation: Amsterdam.
- de La Noue, Laliberte, G & Proulx, D. (1992) Algae and wastewater. *J. Appl. Phycol.* 4:247-254
- de Vries, P. J. R & Kamphof, G. J. (1984) Growth of some strains of *Scenedesmus* and *Tetraselmis* (Chlorophyta) on nitrate, ammonium, ammonium nitrate and urea. *J. Appl. Phycol.* 19: 349-356
- Department of Environment (DOE) (2001) Malaysia Environmental Quality Report 2000. Department of Environment, Ministry of Science, Technology and Environment, Malaysia.

References

- aton, J. Arthur., Hermanutz, J. R., Kiefer, R., Anderson, R., Erickson, R.,
ordling, B., Rodgers, J & Pritchard, H. (1986) Biological Effects of Continous
nd Intermittent Dosing of Outdoor Experimental Streams with Chlorpyrifos. In
ahner RC. Hansen
- dmondson, W. T. (1961) Changes in lake Washington following an increase in
he nutrient income. Verh. Int. Ver. Limnol. 14:167-175
- Igavish, A., Halmann, M & Berman, T. (1982). A comparative study of
hosphorus utilization and storage in batch cultures of *Peridinium cinctum*,
Pediastrum duplex and *Cosmarium* sp., from lake Kinneret (Israel). *Phycologia*.
1: 47-54
- jerdingstad, E. (1964) Pollution of streams estimated by Benthal
hysomicroorganisms. I.A Saprobiic system based on communities of organisms
nd ecological factors. Int. Revue ges. Hydrobiol. Hydrogr. 49: 63-131
- lynn, J. K. (1996) Comparisons among species of *Alexandrium* (dynophyceae)
rown in nitrogen- or phosphorus limiting Batch culture. *Marine Biology*. 126: 9-
8
- ogg, G. E. & Wolfe, M. (1953) Nitrogen metabolism in blue-green algae. *Symp.
oc. gen. Microbiol.* 4, 99-125

References

- oo, S. T., Chu, W. L. & Phang, S. M. (2001) Tolerance of four Malaysian chlorophytes to nitrate and ammonium pollution. University of Malaya. unpublished journal. *Mal.J.Sc.* 20:15-20
- oster, P. L. (1982a) Species associations and metal contents of algae from rivers polluted by heavy metals. *Freshwat. Biol.* 12: 17-39
- resneda, O & J. L. Serra. (1992) Effect of nitrogen starvation on the biochemistry of *Phormidium laminosum* (cyanophyceae). *J. Phycol.* 28: 786-793
- alloway, R. A. & Krauss, R. W. (1963) Utilization of Phosphorus Sources by *Chlorella*. In *Studies on Microalgae and Photosynthethis Bacteria*. Jap. Soc. Pl. Cell Physiol., Tokyo. University Press, Tokyo, 569-75
- eetha, P. K., Phang, S. M., Hashim, M. A. & Blakebrough, N. (1994) Rubber effluent treatment in a high-rate algal pond system. In: Phang S. M., Lee, Y. K., Borowitzka, M. & Whitton, B. (Eds) (1994) Proceeding of the 1st Asia-Pacific conference on Algal Biotechnology. University of Malaya, Kuala Lumpur: 306-12
- eider, J. R., Macintyre, L. H., Graziano, M. L. & McKay, L. M. (1998) Responses of the photosynthetic apparatus of *Dunaliella tertiolecta* (chlorophyceae) to nitrogen and phosphorus limitation. *J. Phycol.* 33: 315-332

References

- Giordano, M & G, Bowes. (1997) Gas exchange and C allocation in *Dunaleilla salina* cells in response to the N source and CO₂ concentration used for growth. *Plant Physiology*. 115: 1049-1056
- Gophen, M., Smith, V. H., Nishri, Aminadav. & Threlkeld, S. T. (1999) Nitrogen deficiency, phosphorus sufficiency, and the invasion of Lake Kinneret, Israel, by the N₂-fixing cyanobacterium *Aphanizomenon ovalisporum*
- Graham, E.Lee., Lee W.Wilcox. (2000) Algae. Prentice.Hall.Inc
- Graziano, M. L., Roche, L. J. & Geider, J. R. (1996) Physiological responses to phosphorus limitation in batch and steady-state cultures of *Dunaliella tertiolecta* (Chlorophyta): A Unique stress protein as an indicator of Phosphate Deficiency. *J. Phycol.* 32: 825-838
- Guasch, H., Ivorra, N., Lehmann, V., Paulsson, M., Real, M. & Sabater, W. (1998) Community composition and sensitivity of periphyton to atrazine in flowing water: The role of environmental factors. *J. Appl. Phycol.* 10: 203-213
- Hameed, A. Hameed., Kilinc, S., McGowan, S. & Moss, B. (1999) Physiological test and bioassays: aids or superfluities to the diagnosis of phytoplankton nutrient limitation? A comparative study in the Broads and Meres of England. *Eur. J. Phycol.* 34: 253-269

References

- Haslam, S. M. (1982) A proposed method for monitoring river pollution using macrophytes; *Environ. Technol. Letters* 3: 19-34
- Holland, J. M. (1991) Biological Indicator of Freshwater Pollution & Environmental Management (Pollution Monitoring Series). Elsevier Applied Science Publisher, England. 45-77
- Hu, Q., Westerhoff, P. & Vermaas, W. (2000) Removal of nitrate from groundwater by Cyanobacteria: Quantitative assessment of factors influencing nitrate uptake. *Appl. Environ. Microbiol.* 66(1): 133-139
- Hynes, H. B. N. (1969) The enrichment of streams. In Eutrophication: Causes, consequences, correctives. National Academy of Sciences, Washington, DC: 88-196
- Hoelings, B., Admiraal, W., Bijkerk, R., Ietswaart, T. & Prins, H. (1998) Monitoring of algae in Dutch rivers: Does it meet its goals? *J. Appl. Phycol.* 10: 171-181
- Svanovics, V., Shafik, M. H., Presing, M & Juhos, S. (2000) Growth and phosphate uptake kinetics of the Cyanobacterium, *Cylindrospermopsis raciborskii* (Cyanophyceae) in throughflow cultures. *Freshwater Biology*. 43: 257-75

References

- James, A. & Enzon, L. (Eds) (1979) Biological indicators of Water Quality. John Wiley & Sons, New York. 632 pp
- deanfils, J., Canisius, M. F., Burlion, N.(1993) Effect of high nitrate concentrations on growth and nitrate uptake by free-living and immobilized *Chlorella vulgaris* cells. *Journal of applied phycology* 5:369-374
- John, E. H. & Flynn, K. J. (2000) Growth dynamics and toxicity of *Alexandrium undyense* (dinophyceae): The Effect of changing N: P supply ratios on internal toxin and nutrient levels. *J. Phycol.* 35 : 11-23
- Johnson, Leach J.H.MG, Kelso JRM, Hartmann J.Numann W.Entz B (1977) Response of persid fishes and their habitats to eutrophication. *J. Fish.Res.Bd Can.* 33: 1964-1971
- allqvist, T. & Svenson, A. (2000) Assesment of ammonia toxicity in tests with the microalgae *Nephroselmis pyriformis*, Chlorophyta. *Water Research*. 37: 477-84
- aplan,D., A.E. Richmand, Z. Dubinsky & s. Aaronson (1986) Algal Nutrition. In Richmand. A (Editor) CRC Handbook of Microalgal Mass Culture. CRC Press, Inc., Boca Raton, Florida. 147-198

References

- Karr, J. R., Fausch, K. D., Angermeier, P. L., Yant, P. R & Schlosser, I. J. (1986) Assessing Biological Integrity in Running Waters: A Method and its Rationale. Illinois Natural History Survey Special Publication 5, Urbana: 28pp
- Kelly, M.G & Whitton, B. A. (1995). The tropic diatom Index : A New index for monitoring eutrophication in rivers. *Journal of applied phycology* 7: 433-444
- Sterans, B.L. & Karr, J.R. (1994). A Benthic index of biotic integrity (B-IBI) for rivers of the Tennessee Valley. *Ecol.Appl.* 4:768-85
- Hemming, D. J. (1990) Macroinvertebrate Field and Laboratory Methods for Evaluating the Biological Integrity of Surface Waters. EPA:Cincinnati, OH.
- Cosinski, R. J. (1984) The effect of terrestrial herbicides as a guide to the selection of Bioindicators; INSA Symp. Biomonitoring State Environ. 126-141
- Uhl, A. (1974) Inorganic Phosphorus Uptake and Metabolism. In *Physiology and Biochemistry of Algae*, Ed. Lewin, R. A. pp. 211-29. Academic Press, New York
- Wandrans, J., P, Eloranta., B, Kawecka & K, Wojtan. (1998) Use of benthic diatom communities to evaluate water quality in rivers of Southern Poland. *Journal of Applied Phycology* 10: 193 - 201

References

- Lavoie, A & De la Noue, J. (1985). Hyperconcentrated cultures of *Scenedesmus obliquus*: a new approach for wastewater biological tertiary treatment. *Water Res.*, 19, 1437-1442.
- Leland, H. V. & Carter, J. L. (1984) Effects of copper on periphyton in Sierras Nevada, California stream; *Freshwater Biol.* 14: 281-296
- Levasseur, M., P.A. Thompson & P.J. Harrison (1993) Physiological acclimation of marine phytoplankton to different nitrogen sources. *Journal of Phycology* 29: 587-595
- Lewis M. A. (1990) Are laboratory-derived toxicity data for freshwater algae worth the effort? *Environmental Toxicology and chemistry* 9:1279-1284
- Loeb, S. L. & Spacie, A. (Eds) (1994) Biological monitoring of Aquatic Systems. Lewis Publication, Boca Raton, Florida. 3-10
- Thomas, M. W. & Gilbert, P. M. (2000) Comparison of nitrate, storage and reduction in marine Diatoms and Flagellates. *J. Phycol.* 36: 903-913
- Maestrini, S. Y., Droop, M. R. & Boniri, D. J. (1984) Test Algae as Indicators of seawater Quality Prospects. In: Shubert L. E. (Ed) (1984) Algae as Ecological Indicators. Academic Press, London. 133-188

References

- Martin, C., De la Noue, J. & Picard, G. (1985). Intensive cultivation of freshwater microalgae on aerated pig manure. *Biomass*. 7:245-259.
- Martin, M.H & Cougherty, P.J. (1984). Biological Methods of Heavy Metal Pollution. Land and Air. Applied Science Publishers, London
- Martinez, M. E., Sanchez, S., Jimenez, J. M., El Yousfi, F. & Munoz, L. (2000) Nitrogen and phosphorus removal from urban wastewater by the microalgae *Scenedesmus obliquus*. *Bioresource Tech.* 73: 263-272
- Mason, C. F. (1981) Biology of Freshwater Pollution. Longman, London & New York. 1-13
- Mayer M.S., Likens G.E. (1987) The importance of algae in a shaded headwater stream as food for an abundant caddisfly (Tricopthera). *J.N. Am.Benthol. Soc.* 2:262-269
- McCormick, P.V & John Cairns, Jr (1994). Algae as indicators of environmental change. *Journal of Applied Phycology*, 6: 509-526
- McDonald, B., W. Borden and J. Lathrop. 1990. Citizen stream monitoring, a manual for Illinois. Illinois Department of Energy and Natural Resources:Illinois.
- Menacho, A. & Vega, J. M. (1989) Effect of Nitrogen starvation on ammonium assimilation by *Chlamydomonas reinhardtii*. *Physiologia Plantarum* 75: 285-289

References

- Melor Ismail., Phang, S. M., Tong, S. L. & Brown, M. T. (2002) A modified toxicity testing method using tropical marine microalgae. *Env. Monitor. Assess.* 75: 145-154
- Metzmeier, L. (1991) Use of periphyton in state water quality assessments. *Bull. N. Am. Benthol. Soc.* 6: 262-269
- Mitchell, M.K., W. B, Stapp. (1992) Field manual for Water Quality Monitoring, an Environmental Education program for schools. Green : Ann Arbor, MI.
- Munawar, M., Munawar, I. F & Lepard, G.G. (1989). Early warning assays: an overview of toxicity testing with Phytoplankton in the North American great lakes. *Microbiologia*, 188/189: 237-246
- Molloy, C. J & Syrett, P. J. (1988) Interrelationship between Uptake of Urea and Uptake of Ammonium by Microalgae. *J. Exp. Mar. Biol. Ecol.* 118: 85-95
- Morgan, J. A. (1972) Effects of Aroclor 1242 (a polychlorinated biphenyl) and DDT on cultures of an alga, protozoan, daphnid, ostracod, and guppy. *Bull. Envir. Contam. Toxicol.* 7: 129-137
- Moss, B. (1996) A Land awash with Nutrients, the problem of Eutrophication. *Journal article* 407-11

References

- Newman, S., McCormick, P. V. & Backus, G. J. (2002) Phosphatase activity as an early warning indicator of Wetland Eutrophication: Problems and prospect. *Journal of Applied Phycology*. 15: 45-59
- Nichols, H. W. (1973) Growth Media – Freshwater. In: Stein, J. R. (Ed) (1973) Handbook of Phycological Methods – Culture Methods and Growth Measurements. Cambridge University Press, Cambridge. 7-24
- Niederlehner, B. R., Cairns, J. Jr. (1990) Effects of ammonia on periphytic communities. *Envir. Pollut.* 66: 207-221
- Oswald, W. J. (1988). Micro-algae and Waste Water Treatment. In *Microalgal Biotechnology*, (Ed). M. A. Borowitzka & L. J. Borowitzka. Cambridge University Press, bridge, UK, pp. 305-328
- Patrick, R., Cairns, J. Jr & Scheier, R. (1968) The relative sensitivity of diatoms, snails, and fish to twenty common constituents of industrial wastes. *Prog. Fosh-Cult.* 30: 137-140
- Patrick, R. (1972). In: Indicators of Environmental Quality. W.A. Thomas (Ed). Plenum Press, New York, pg. 93-100

References

- Patrick, R. (1973) Use of algae, especially diatoms, in the Assessment of Water Quality. Biological methods for the Assessment of Water Quality. ASTM STP 528, American Society for Testing and Materials. 76-95
- Patrick, R. (1977) Ecology of Freshwater Diatoms. In Werner, D. (Ed). The Biology of Diatoms. University of California Press. Berkeley: 284-332
- Paul, J. H. & Cooksey, K. E. (1981) Regulation of asparaginase, glutamine synthetase and glutamate dehydrogenase in response to medium nitrogen concentrations in a euryhaline *Chlamydomonas* species. *Plant Physiol.* 68: 1364-368
- Phang, S.M. (1990) Algal production from agro-industrial and agricultural wastes in Malaysia. *AMBI* 19(8) : 415-418
- Phang, S.M & Chu, W.L. (1999) Catalogue of strains. University of Malaya Algal Culture Collection. Institute of Postgraduate Studies and Research. Pg: 1-77
- hang, S.M., Chui, Y.Y., Kumaran, G., Jeyaratnam, S. & Hashim, M.A. (2001) High Rate Algal Ponds for Treatment of Wastewater. A Case Study for the Rubber Industry. In: Kojima H & Y.K. Lee (eds). Photosynthetic microorganisms in environmental biotechnology. Springer, Hong Kong; p. 51-76

References

- Phang, S. M. & Ong, K. C. (1988) Algal biomass production in Digested palm oil mill effluency. *Biol. Wastes* 25: 177-191
- Philips, D. J. H. (1980) Quantitative Aquatic Biological Indicators. Pollution Monitoring Series. K. Mellanby (Ed). Applied Science Publisher
- Phillips, D.J.H., P.S. Rainbow. (1993) Biomonitoring of Trace Aquatic Contaminants. Elsevier Applied Science: New York, NY.
- Pipe, A. E. & Shubert, L. E. (1984) The Use of Algae as Indicator of Soil Fertility. In: Shubert, L. E. (Ed) (1984) Algae as Ecological Indicators. Academic Press, London. 213-236
- Pizarro, C., Westhead, K. E & Mulbry, W. (2002) Nitrogen and phosphorus removal rates using small Algal Turfs grown with dairy manure. *Journal of Applied Phycology*. 14: 469-473
- Postel, S.L., Daily, G.C & Ehrlich, P.R. (1996). Human Appropriation of Renewable Freshwater. *Science* 271:785-8
- Posthumus, A. C. (1985) In: Polutants and their Ecotoxicological Significance. H. W. Numberg (Ed). John Wiley & Sons, pp. 465-477

References

Pratt, J. R., Niederlehner, Br., Bowers, N. J., Cairns, J. Jr. (1987) Prediction of permissible concentrations of copper from microcosm toxicity tests. *Tox. Assess.* 2: 417-436

Qiang, H., Westerhoff, P. & Vermaas, W. (2000) Removal of nitrate from groundwater by Cyanobacteria: Quantitative assesment of factors influencing nitrate uptake. *Applied and Environmental Microbiology*. 66: 133-139

Rana, B. C. (1995) Pollution and Biomonitoring: An Overview. In: Rana, B. C. (Ed) (1995) Pollution & Biomonitoring. Data McGraw-Hill Publishing Company Limited, New York. 1-5

Reynolds, C. S. & Davies, P. S. (2001) Sources and bioavailability of phosphorus fraction in freshwaters: a British perspective. *Biol. Rev.* 76: 27-64

Rigano, V. Di M., Martino, C., Vona, V., Esposito, S. & Rigano, C. (1989) Nitrogen nutrition and changes in amino acids Pools of *Cyanidium caldarium*. *Phytochemistry* 28 (11): 2891-2895

Robinson, K. P., Reeve, O. J. & Goulding, H. K. (1988) Phosphorus uptake kinetics of immobilized *Chlorella* in Batch and Continous-Flow Culture. *Enzyme Microb. Technol.* 11: 590-596

References

- Rodhe, W. (1948) Environmental requirements of freshwater plankton algae.
Symb. Bot. Ups. 10, 1-149
- Round, F. E. (1991) Diatoms in River water-monitoring studies. *J.of Appl. Phycol.* 3: 129-145
- Russo, R.C. (1985) Ammonia, nitrite and nitrate. In: Rand, G.M. & S.R. Petrocelli (Eds) *Fundamentals of aquatic toxicology*. Chemisphere publishing corporation 455-468
- Sabater, S., Roca, J.R. (1990) Some Factors affecting distribution of diatom assemblages in Pyrenean Springs. *Freswat. Biol.* 24: 493-507
- Saether, O. A. (1980) The Influence of eutrophication on deep Lake benthic invertebrate communities. *Progr. Water Technol.* 12:161
- Sahai, R., P.K. Sxena. & S. Jabeen. (1985) Ecological survey of the algal flora of polluted habitats of Gorakhpur. *Phykos.* 24: 4-11
- Sauer, J., Gorl, M & Forchhammer, K. (1999) Nitrogen starvation in Synechococcus PCC 7942: Involvement of glutamine synthetase and NtcA in Phycobiliprotein degradation and survival. *Arch. Microbial.* 172:247-255

References

- Sampathkumar, P. T. (1977) Further studies on the ecology of algae in the river Imoosi. Hyderabad (India) with special reference to pollution and potential fertility of water, Ph.D. thesis, Osmania University Hyderabad
- Schramm, W. (1999) Factor influencing seaweed responses to eutrophication: Some results from EU-project EUMAC. *J. Applied. Phycol.* 11: 69-78
- Schreiter, Y. P. Pat., Gillor, O., Post, A., Belkin, S., Schmid, D. R & Bachmann, T. T. (2001) Monitoring of phosphorus bioavailability in water by an immobilized luminescent Cyanobacterial reporter strain. *Biosensors & Bioelectronics*. 16: 811-818
- Shamsudin, L. (1983a) The relationship between inorganic nutrient content and photosynthetic rates within a tidal cycle of Sungai Ibai. *Pertanika* 6(2): 39 – 44.
- Shamsudin, L. (1983b) Photosynthetic quotient relationship in inorganic nitrogen of rivers in Terengganu. *Pertanika* 6(1): 78 – 82.
- Skulberg, O. M. (1995) Use of Algae for Testing Water Quality. In: Wiessner, W., Schnepf, E. & Starv, R. C. (Eds) (1995) Algae, Environment and Human Affairs. Biopress Limited, Bristol, England. 181-199

References

- Stoermer EF, Schelske CL, Wolin JA (1990) Siliceous microfossils succession in the sediments of Mcleod bay, Great Slave Lake, Northwest Territories. *Can.J. Fish.aquat. Sci.* 47:1865-1874
- Syrett, P. J. (1962) Nitrogen Assimilation. In: Lewin, R. A. (Ed) (1962) *Physiology & Biochemistry of Algae*. Academic press, London. 171-183
- Tan, C. K., Yuan, K. L. & Kwok, K. H. (1993) Effect of light intensity and ammonium-N on carotenogenesis of *Trentepohlia odorata* and *Dunaliella bardawil*. *J. Appl. Phycol.* 5: 547-549
- Terblanche APS (1991) Health hazard of nitrate in drinking water. *Water SA* 17:77-82
- Tillberg, E. J., Barnard, T. & Rowley, R. J. (1984) Phosphorus status and cytoplasmic structures in *Scenedesmus* (chlorophyceae) under different metabolic regimes. *J. Phycol.* 20: 124-136
- Trainor, F. R. (1984) Indicator Algal Assays: Laboratory and Field Approaches. In: Shubert, L. E. (Ed) (1984) *Algae as Ecological Indicators*. Academic Press, London. 3-14

References

- Uriarte, I., Farias, A., Hawkins, A. J. & Bayne, B. L. (1993) Cell characteristics and biochemical composition of *Dunaliella primolecta* butcher conditioned at different concentrations of dissolved nitrogen. *J. Appl. Phycol.* 5: 447-453
- Vaccaro R.F. (1965) Inorganic Nitrogen in Sea Water. In *Chemical Oceanography*, eds. Riley J.P. & Skirrow G. pp. 365-408. Academic Press, London & New York
- Venkateswawearly, V. (1986) Ecological studies on rivers of Andhra Pradesh with special reference to water quality and pollution Peroc. *Indian Acad. Sci. (Plant Sci)* 96: 495-508
- Vezie, C., Rapala, J., Vaitomaa, J., Seitsonen, J. & Sivonen, K. (2002) Effect of nitrogen and phosphorus on growth of toxic and non-toxic *Microcystis* strains and on intracellular microcystin concentrations
- Vyerman, W. (1992) Multivariate analysis of periphytic and benthic diatom assemblages from Papua New Guinea. *Hydrobiologia* 234: 175-193
- Vymazal, J. (1994) Algae and Element Cycling in Wetlands. Lewis Publishers, Boca Raton, Florida. 33431
- Walsh, G. E. & Merril, R. E. (1984) Algal Assays of Effluents. In: Shubert, L. E. (Ed) (1984) Algae as Ecological Indicators. Academic Press, London. 329-362

References

- Walsh, G.E. (1988) Principles of toxicity testing with marine unicellular algae. *Environmental toxicology and chemistry*. 7: 979-987
- Wagner, F., Sahan, E & Falkner, G. (2000) The Establishment of coherent phosphate uptake behaviour by the Cyanobacterium *Anacystis nidulans*. *J. Phycol.* 35: 243-253
- Wangberg, S. A., Blanck, H. (1990) Arsenate sensitivity in marine periphyton communities established under various nutrient regimes. *J. exp. Mar. Biol. Ecol.* 139: 119-134
- Weber, C. I. (1975) Recent Developments in the Measurement of the Response of Plankton and Periphyton to Changes in their Environment. In: Glass G. E. (Ed) (1975) Bioassay Techniques & Environmental Chemistry. Ann Arbor Science publishing Incorporated, Ann Arbor. 119-137
- Whitton, B. a. (1979) Plants as Indicators of River Water Quality. In: James, A. & L. Enzon (Eds) (1979) Biological Indicators of Water Quality. John Wiley & Sons, New York. 5-2 – 5-25

References

- Willen, E. (2000). Phytoplankton in Water Quality Assessment An Indicator Concept. In: Heinonen, P., Ziglio, G & Van der Beken, A. (Eds) (2000) Hydrological and Limnological Aspects of Lake Monitoring. John Wiley & Sons, Ltd. 58-78
- Wolin, J. A., Soermer, E. F., Schelske, C. L & Conley, D. J. (1988) Siliceous microfossil succession in recent Lake Huron Sediments. *Arch Hydrobiol.* 114:175-198
- Wong, S. L. (1995) Algal Assay Approaches to Pollution Studies in Aquatic Systems. In: Rana, B. C. (Ed) (1995) Pollution & Biomonitoring. Tata McGraw-Hill Publishing Company Limited, New York. 26-46