

Bibliografia

Bibliografia

- Abaychi, J. K. & Riley, J. P. (1979) The determination of phytoplankton pigments by high-performance liquid chromatography. *Analytica Chemica Acta* **107**, 1-11.
- Airs, R. L., Borrego, C. M., Garcia-Gil, J., & Keely, B. J. (2001) Identification of the bacterio-ochlorophyll homologues of Chlorobium phaeobacteroides strain UdG6053 grown at low light intensity. *Photosynthesis Research* **70**, 221-230.
- Alekseev, V. & Lampert, W. (2001) Maternal control of resting-egg production in *Daphnia*. *Nature* **414**, 899-901.
- Andersen, R. A. (1987) Synurophyceae classis nov., a new class of algae. *American Journal of Botany* **74**, 337-53.
- Andersen, R. A. & Mulkey, T. J. (1983) The occurrence of chlorophyll c1 and c2 in the Chrysophyceae. *Journal of Phycology* **19**, 289-294.
- Andersson, M., Van Nieuwerburgh, L., & Snoeijs, P. (2003) Pigment transfer from phytoplankton to zooplankton with emphasis on astaxanthin production in the Baltic Sea food web. *Marine Ecology Progress Series* **254**, 213-224.
- Ariztegui, D., Chondrogianni, C., Lami, A., Guilizzoni, P., & Lafargue, E. (2001) Lacustrine organic matter and the Holocene paleoenvironmental record of Lake Albano (central Italy). *Journal of Paleolimnology* **26**, 283-292.
- Barret, J. & Jeffrey, S. W. (1964) Chlorophyllase and formation of an atypical chlorophyllide in marine algae. *Plant Physiology* **39**, 44-47.
- Barret, J. & Jeffrey, S. W. (1971) A note on the occurrence of chlorophyllase in marine algae. *Journal of Experimental Marine Biology and Ecology* **7**, 255-262.
- Battarbee, R. W. (1986) Diatom analysis. In: *Handbook of Holocene Palaeoecology and Palaeohydrology* pp. 527-570.
- Battarbee, R. W., Grytnes, J. A., Thompson, R., Appleby, P., Catalan, J., Korhola, A., Birks, H. J. B., Heegaard, E., & Lami, A. (2002) Comparing palaeolimnological and instrumental

BIBLIOGRAFIA

evidence of climate change for remote mountain lakes over the last 200 years. *Journal of Paleolimnology* **28**, 161-179.

Battarbee, R. W., Jones, V. J., Flower, R. J., Cameron, N. G., Bennion, H., Carvalho, L., & Juggins, S. (2001) Diatoms. In: *Terrestrial, Algal, and Siliceous Indicators*, eds. Smol, J. P., Birks, H. J. B., & Last, W. M., pp. 155-202. Kluwer Academic Publishers, Dordrecht.

Battarbee, R. W. & Kneen, M. J. (1982) The use of electronically counted microspheres in absolute diatom analysis. *Limnology and Oceanography* **27**, 184-188.

Bennett, K. D. & Willis, K. J. (2001) Pollen. In: *Terrestrial, Algal and Siliceous Indicators*, eds. Smol, J. P., Birks, H. J. B., & Last, W. M., pp. 5-32. Kluwer Academic Publishers, Dordrecht.

Besag, J. & Clifford, P. (1989) Generalized Monte Carlo significance tests. *Biometrika* **76**, 633-642.

Bianchi, T. S., Findlay, S., & Dawson, R. (1993) Organic-matter sources in the water column and sediments of the Hudson River estuary-the use of plant pigments as tracers. *Estuarine Coastal and Shelf Science* **36**, 359-376.

Bjørnland, T. & Liaaen-Jensen, S. (1989) Distribution patterns of carotenoids in relation to chromophyte phylogeny and systematics. In: *The Chromophyte Algae: problems and perspectives*, eds. Green, J. C., Leadbeater, B. S. C., & Diver, W. L., pp. 37-60. Clarendon Press, Oxford.

Blumthaler, M., Ambach, W., & Rehwald, W. (1992) Solar UV-A and UV-B radiation fluxes at two alpine stations at different altitudes. *Theoretical and Applied Climatology* **46**, 39-44.

Borrego, C. M., Arellano, J. B., Abella, C. A., Gillbro, T., & Garcia-Gil, J. (1999a) The molar extinction coefficient of bacteriochlorophyll e and the pigment stoichiometry in *Chlorobium phaeobacteroides*. *Photosynthesis Research* **60**, 257-264.

Borrego, C. M., Gerola, P. D., Miller, M., & Cox, R. P. (1999b). Light intensity effects on pigment composition and organisation in the green sulfur bacterium *Chlorobium tepidum*. *Photosynthesis Research* **59**, 159-166.

Bowles, N. D., Paerl, H. W., & Tucker, J. (1985) Effective solvents and extraction periods employed in phytoplankton carotenoid and chlorophyll determinations. *Canadian Journal of Fisheries and Aquatic Sciences* **42**, 1127-1131.

Breton, E., Brunet, C., Sautour, B., & Brylinski, J.-M. (2000) Annual variations of phytoplankton biomass in the Eastern English Channel: comparison by pigment signatures and microscopic counts. *Journal of Plankton Research* **22**, 1423-1440.

BIBLIOGRAFIA

- Britton, G., Liaaen-Jensen, S., & Pfander, H. (1995) *Carotenoids: Volume 1A: Isolation and Analysis*, pp. 328. Birkhäuser Verlag, Boston.
- Brown, S. R., Daley, R. J., & McNeely, R. N. (1977) Composition and stratigraphy of fossil phorbin derivatives of Little Round Lake. Ontario. *Limnology and Oceanography* **22**, 336-348.
- Brown, S. R., McIntosh, H. J., & Smol, J. P. (1984) Recent paleolimnology of a meromictic lake: Fossil pigments of photosynthetic bacteria. *Verhandlungen der internationale vereinigung für theoretische und angewandte limnologie* **22**, 1357-1360.
- Cacho, I., Grimalt, J. O., Pelegero, C., Canals, M., Sierro, F. J., Flores, A. J., & Shakelton, N. J. (1999) Daansgaard-Oeschger and Heinrich event imprints in Alboran Sea paleotemperatures. *Paleoceanography* **14**, 698-705.
- Camarero, L., Masqué, P., Devos, W., Ani-Ragolta, I., Catalan, J., Moor, H. C., Pla, S., & Sanchez-Cabeza, J. A. (1998) Historical variations in lead fluxes in the Pyrenees (Northeast Spain) from a dated lake sediment core. *Water, Air and Soil Pollution* **105**, 439-449.
- Capblancq, J. (1972) Phytoplankton et productivité primaire de quelques lacs d'altitude dans les Pyrénées. *Annales de Limnologie* **8**, 231-321.
- Capblancq, J. & Catalan, J. (1994) Phytoplankton: which, and how much? In: *Limnology Now: A Paradigm of Planetary Problems*, ed. Margalef, R., pp. 9-36. Elsevier Science.
- Carpenter, S. R. & Bergquist, A. M. (1985) Experimental tests of grazing indicators based on chlorophyll a degradation products. *Archiv fur Hydrobiologie* **102**, 303-317.
- Carpenter, S. R., Elser, M. M., & Elser, J. J. (1986) Chlorophyll production, degradation , and sedimentation: implications for paleolimnology. *Limnology and Oceanography* **31(1)**, 112-124.
- Carpenter, S. R. & Leavitt, P. R. (1991) Temporal variation in a paleolimnological record arising from a trophic cascade. *Ecology* **72(1)**, 277-285.
- Casals-Carrasco, P., Ventura, M., Pretus, J. L., Gond, V., Madhavan, B., & Catalan, J. (2005) A spectral approach to land-cover classification in remote mountain lake areas. *International Journal of Remote Sensing* **submitted**.
- Catalan, J. (1987) Limnologia de l'estany Redó (Pirineu Central): el sistema pelàgic d'un llac d'alta muntanya. PhD. Universitat de Barcelona.
- Catalan, J. (1988) Physical properties of the environment relevant to the pelagic ecosystem of a deep high-mountain lake (Estany Redó, Central Pyrenees). *Oecologia aquatica* **9**, 89-123.

BIBLIOGRAFIA

- Catalan, J. (1991) The relationship between functional anatomy of lakes and primary production. *Oecologia Aquatica* **10**, 77-94.
- Catalan, J. (1992) Evolution of dissolved and particulate matter during the ice-covered period in a deep, high-mountain lake. *Canadian Journal of Fisheries and Aquatic Sciences* **49**, 945-955.
- Catalan, J. (2000) Primary production in a high mountain lake: an overview from minutes to kiloyears. *Atti Associazione Italiana Oceanologia Limnologia* **13**, 1-21.
- Catalan, J., Ballesteros, E., Camarero, L., Felip, M., & Gacia, E. (1992) Limnology in the Pyrenean lakes. *Limnetica* **8**, 27-38.
- Catalan, J., Ballesteros, E., Gacia, E., Palau, A., & Camarero, L. (1993) Chemical composition of disturbed and undisturbed high-mountain lakes in the Pyrenees: a reference for acidified sites. *Water Research* **27**, 133-141.
- Catalan, J. & Camarero, L. (1991) Ergoclines and biological processes in high mountain lakes: Similarities between summer stratification and the ice forming periods in Lake Redó (Pyrenees). *Verhandlungen der internationale vereinigung für theoretische und angewandte limnologie* **24**, 1011-1015.
- Catalan, J. & Fee, E. J. (1994) Interannual variability in limnic ecosystems: origin, patterns, and predictability. In: *Limnology Now: A Paradigm of Planetary Problems*, ed. Margalef, R., pp. 81-97. Elsevier Science B.V.
- Catalan, J., Pla, S., Rieradevall, M., Felip, M., Ventura, M., Buchaca, T., Camarero, L., Brancelj, A., Appleby, P., Lami, A., Grytnes, J. A., Agustí-Panareda, A., & Thompson, R. (2002a) Lake Redó ecosystem response to an increasing warming in the Pyrenees during the twentieth century. *Journal of Paleolimnology* **28**, 129-145.
- Catalan, J., Ventura, M., Brancelj, A., Granados, I., Thies, H., Nickus, U., Korhola, A., Lotter, A. F., Barbieri, A., Stuchlík, E., Lien, L., Bitušík, P., Buchaca, T., Camarero, L., Goudsmit, G. H., Kopácek, J., Lemcke, G., Livingstone, D. M., Müller, B., Rautio, M., Šiško, M., Sorvari, S., Šporka, F., Struneký, O., & Toro, M. (2002b) Seasonal ecosystem variability in remote mountain lakes: implications for detecting climatic signals in sediment records. *Journal of Paleolimnology* **28**, 25-46.
- Catalan, J., Ventura, M., Vives, I., & Grimalt, J. O. (2004) The roles of food and water in the bioaccumulation of organochlorine compounds in high mountain lake fish. *Environmental Science & Technology* **38**, 4269-4275.
- Cleveland, S. (1979) Robust locally weighted regression and smoothing scatterplots. *Journal of the American Statistical Association* **74**, 829-836.

BIBLIOGRAFIA

- Cockell, C. S. & Knowland, J. (1999) Ultraviolet radiation screening compounds. *Biological Reviews* **74**, 311-345.
- Cottingham, K. L., Rusak, J. A., & Leavitt, P. R. (2000) Increased ecosystem variability and reduced predictability following fertilisation: Evidence from palaeolimnology. *Ecology Letters* **3**, 340-348.
- Cuddington, K. & Leavitt, P. R. (1999) An individual-based model of pigment flux in lakes: implications for organic biogeochemistry and paleoecology. *Canadian Journal of Fisheries and Aquatic Sciences* **56**, 1964-1977.
- Daley, R. J. (1973) Experimental characterization of lacustrine chlorophyll diagenesis. II. Bacterial, viral and herbivore grazing effects. *Archiv fur Hydrobiologie* **72**, 409-439.
- Daley, R. J. & Brown, S. R. (1973) Experimental characterization of lacustrine chlorophyll diagenesis. I. Physiological and environmental effects. *Archiv fur Hydrobiologie* **72**, 277-304.
- Daley, R. J., Brown, S. R., & McNeely, R. N. (1977) Chromatographic and SCDP measurements of fossil phorbins and the postglacial history of Little Round Lake, Ontario. *Limnology and Oceanography* **22**, 349-360.
- Daley, R. J. & Hobbie, J. E. (1975) Direct counts of aquatic bacteria by a modified epifluorescence technique. *Limnology and Oceanography* **20**, 875-882.
- Davies, B. H. (1976) *Carotenoids.*, pp. 165. Academic Press, London.
- Dean, W. E. (1974) Determination of carbonate and organic matter in calcareous sediments and sedimentary rocks by loss on ignition: comparison with other methods. *Journal of Sedimentary Petrology* **44, No 1**, 242-248.
- deMenocal, P., Ortiz, J., Guilderson, T., Adkins, J., Sarnthein, M., Baker, L., & Yarusinsky, M. (2000) Abrupt onset and termination of the African Humid Period: rapid climate responses to gradual insolation forcing. *Quaternary Science Review* **19**, 347-361.
- Desycy, J.-P., Higgins, H. W., Mackey, D. J., Hurley, J. P., & Frost, T. M. (2000) Pigment ratios and phytoplankton assessment in Northern Wisconsin lakes. *Journal of Phycology* **36**, 274-286.
- Desortová, B. (1981) Relationship between chlorophyll-a concentration and phytoplankton biomass in several reservoirs in Czechoslovakia. *Internationale Revue der Gesamten Hydrobiologie* **66**, 153-169.
- Diehn, B. & Seely, G. R. (1968) The oxidation of chlorophyll a in alcohols. *Biochimica et Biophysica Acta* **153**, 862-867.

BIBLIOGRAFIA

- Ediger, D., Raine, R., Weeks, A. R., Robinson, I. S., & Sagan, S. (2001) Pigment signatures reveal temporal and regional differences in taxonomic phytoplankton composition off the west coast of Ireland. *Journal of Plankton Research* **23**, 893-902.
- Eisner, L. B., Twardowski, M. S., Cowles, T. J., & Perry, M. J. (2003) Resolving phytoplankton photoprotective : photosynthetic carotenoid ratios on fine scales using in situ spectral absorption measurements. *Limnology and Oceanography* **48**, 632-646.
- Eloranta, P. (1986) Phytoplankton structure in different types of lakes in central Finland. *Holarctic Ecology* **9**, 214-224.
- Engstrom, D. R., Swain, E. B., & Kingston, J. C. (1985) A paleolimnological record of human disturbance from Harvey's Lake, Vermont: geochemistry, pigments and diatoms. *Freshwater Biology*. **15**, 261-288.
- Everitt, D. A., Wright, S. W., Volkman, J. K., Thomas, D. P., & Lindstrom, E. J. (1990) Phytoplankton community compositions in the western equatorial Pacific determined from chlorophyll and carotenoid pigment distribution. *Deep-Sea Research Part A - Oceanographic Research Papers* **37**, 975-997.
- Falkowski, P. G. & Owens, T. G. (1980) Light-shade adaptation. *Plant Physiology* **66**, 592-595.
- Fee, E. J. (1976) The vertical and seasonal distribution of chlorophyll in lakes of the Experimental Lakes Area, northwestern Ontario : Implications for primary production estimates. *Limnology and Oceanography* **21**, 767-783.
- Felip, M. (1997) Ecologia del microplàncton d'un estany profund d'alta muntanya (Redó, Pirineus). PhD. Universitat de Barcelona.
- Felip, M., Bartumeus, F., Halac, S., & Catalan, J. (1999a) Microbial plankton assemblages, composition and biomass, during two ice-free periods in a deep high mountain lake (Estany Redó, Pyrenees). *Journal of Limnology* **58**, 193-202.
- Felip, M., Camarero, L., & Catalan, J. (1999b) Temporal changes of microbial assemblages in the ice and snow cover of a high mountain lake. *Limnology and Oceanography* **44**, 973-987.
- Felip, M. & Catalan, J. (2000) The relationship between phytoplankton biovolume and chlorophyll in a deep oligotrophic lake: decoupling in their spatial and temporal maxima. *Journal of Plankton Research* **22**, 91-105.
- Fietz, S. & Nicklisch, A. (2004) An HPLC analysis of the summer phytoplankton assemblage in Lake Baikal. *Freshwater Biology* **49**, 332-345.

BIBLIOGRAFIA

- Fitzmaurice, P. (1979) Selective predation on Cladocera by brown trout *Salmo trutta* L. *Journal of Fish Biology* **15**, 521-525.
- Fogg, G. E. & Belcher, J. H. (1961) Pigments from the bottom deposits of an English lake. *New Phytologist* **60**, 129-138.
- Foss, P., Renstrom, B., & Liaen-Jensen, S. (1987) Natural Occurrence of Enantiomeric and Meso Astaxanthin 7-Star-Crustaceans Including Zooplankton. *Comparative Biochemistry and Physiology B-Biochemistry & Molecular Biology* **86**, 313-314.
- Fox, D. L. (1944) Biochemical fossils. *Science* **100**, 111-113.
- Fuhs, G. W., Demmerle, S. D., Canelli, E., & Chiu, M. (1972) Characterization of phosphorus-limited plankton algae. *Special Symposia of the American Society of Limnology and Oceanography* **1**, 113-133.
- Garcia-Pichel, F. & Castenholz, R. W. (1991) Characterization and biological implications of scytonemin, a cyanobacterial sheath pigment. *Journal of Phycology* **27**, 395-409.
- Gasse, F. (2000) Hydrological changes in the Africal tropics since the Last Glacial Maximum. *Quaternary Science Review* **19**, 189-211.
- Geider, R. J. (1987) Light and temperature dependence of the carbon to chlorophyll ratio in microalgae and cyanobacteria: implications for physiology and growth of phytoplankton. *New Phytologist* **106**, 1-34.
- Geider, R. J., MacIntyre, H. L., & Kana, T. M. (1997) Dynamic model of phytoplankton growth and acclimation: responses of the balanced growth rate and the chlorophyll a : carbon ratio to light, nutrient-limitation and temperature. *Marine Ecology Progress Series* **148**, 187-200.
- Gervais, F. (1997) Light-dependent growth, dark survival and glucose uptake by cryptophytes isolated from a freshwater chemocline. *Journal of Phycology* **33**, 18-25.
- Gieskes, W. W. C., Kraay, G. W., Nontji, A., Setiapermana, D., & Sutomo (1988) Monsoonal alternation of a mixed and a layered structure in the phytoplankton of the euphotic zone of the Banda Sea (Indonesia): a mathematical analysis of algal pigment fingerprints. *Netherlands Journal of Sea Research* **22**, 123-137.
- Giralt, S., Julià, R., Klerkx, J., Riera, S., Leroy, S., Buchaca, T., Catalan, J., De Batist, M., Beck, C., Bobrov, V., Gavshin, V., Kalugin, I., Sukhorukov, F., Brennwald, M., Kipfer, R., Peeters, F., Lombardi, S., Matychenkov, V., Romanovsky, V., Podsetchine, V., & Voltattorni, N. (2004) 1000-year environmental history of Lake Issyk-kul. In: *Dying and Dead Seas*, ed. Nihoul, J. C. J., pp. 253-285. Kluwer Academic Publishers.

BIBLIOGRAFIA

Glew, J. (1991) Miniature gravity corer for recovering short sediment cores. *Journal of Paleolimnology* **5**, 285-287.

Gliwicz, Z. M. (1977) Food size selection and seasonal succession of filter feeding zooplankton in an eutrophic lake. *Ekologia polska Seria A* **25**, 179-225.

Goericke, R. & Montoya, J. P. (1998) Estimating the contribution of microalgal taxa to chlorophyll a in the field - variations of pigments ratios under nutrient and light-limited growth. *Marine Ecology Progress Series* **169**, 97-112.

Goodwin, T. W. (1980) *The Biochemistry of the Carotenoids* Chapman and Hall., London.

Goodwin, T. W. (1983) Pigments-Arthropoda. In: *Internal anatomy and physiological regulation*, ed. Mantel, L. H., pp. 279-306. Academic Press, New York.

Gorham, E. (1959) Chlorophyll derivatives in woodland soils. *Soil Science* **87**, 258-261.

Gorham, E. (1960) Chlorophyll derivatives in surface muds from the English Lakes. *Limnology and Oceanography* **5**, 29-33.

Gorham, E. & Sanger, J. E. (1975) Fossil pigments in Minnesota lake sediments and their bearing upon the balance between terrestrial and aquatic inputs to sedimentary organic matter. *Verhandlungen der internationale vereinigung für theoretische und angewandte limnologie* **19**, 2267-2273.

Griffiths, M. (1978) Specific blue-green algal carotenoids in sediments of Esthwaite Water. *Limnology and Oceanography* **23(4)**, 777-784.

Grimm, E. C. (1987) A Fortran 77 program or stratigraphically constrained cluster analysis by the method of incremental sum of squares. *Computer and Geosciences* **13**, 13-35.

Guilizzoni, P., Lami, A., & Marchetto, A. (1992) Plant pigment ratios from lake sediments as indicators of recent acidification in alpine lakes. *Limnology and Oceanography* **37**, 1565-1569.

Hager, A. & Stransky, H. (1970) Das carotinoidmuster und die verbreitung des lichtinduzierten xanthophyllcyclus in verschiedenen algenklassen. *Archives of Microbiology* **73**, 77-89.

Hall, R. I., Leavitt, P., Quinlan, R., Dixit, A. S., & Smol, J. P. (1999) Effects of agriculture, urbanization, and climate on water quality in the northern Great Plains. *Limnology and Oceanography* **44**, 739-756.

BIBLIOGRAFIA

- Hall, R. I., Leavitt, P. R., Smol, J. P., & Zirnhelt, N. (1997) Comparison of diatoms, fossil pigments and historical records as measures of lake eutrophication. *Freshwater Biology* **38**, 401-417.
- Havskum, H., Schlüter, L., Scharek, R., Berdalet, E., & Jacquet, S. (2004) Routine quantification of phytoplankton groups - microscopy or pigment analyses? *Marine Ecology Progress Series* **273**, 31-42.
- Hecky, R. E. & Kilham, P. (1988) Nutrient limitation of phytoplankton in freshwater and marine environments: A review of recent evidence on the effects of enrichment. *Limnology and Oceanography* **33**, 796-822.
- Hendry, G. A. F., Houghton, J. D., & Brown, S. B. (1987) The degradation of chlorophyll: a biological enigma. *New Phytologist* **107**, 255-302.
- Henriksen, P., Riemann, B., Kaas, H., Sorensen, H. M., & Sorensen, H. L. (2002) Effects of nutrient-limitation and irradiance on marine phytoplankton pigments. *Journal of Plankton Research* **24**, 835-858.
- Hill, M. O. (1974) Correspondence analysis: a neglected multivariate method. *Applied Statistics* **23**, 340-354.
- Hobæk, A. & Larsson, P. (1990) Sex determination in *Daphnia magna*. *Ecology* **71**, 2255-2268.
- Hodell, D. A. & Schelske, C. L. (1998) Production sedimentation and isotopic composition of organic matter in Lake Ontario. *Limnology and Oceanography* **43**, 200-214.
- Hodgson, D. A., Vyverman, W., Verleyen, E., Sabbe, K., Leavitt, P. R., Taton, A., Squier, A. H., & Keely, B. J. (2004) Environmental factors influencing the pigment composition of in situ benthic microbial communities in east Antarctic lakes. *Aquatic Microbial Ecology* **37**, 247-263.
- Hodgson, D. A., Wright, S. W., Tyler, P. A., & Davies, N. (1998) Analysis of fossil pigments from algae and bacteria in meromictic Lake Fidler, Tasmania, and its application to lake management. *Journal of Paleolimnology* **19**, 1-22.
- Holen, D. A. & Boraas, M. E. (1996) The mixotrophy in chrysophytes. In: *Chrysophyte Algae. Ecology, Phylogeny and Development*, eds. Craig, D., Sangren, C. D., Smol, J. P., & Kristiansen, J., pp. 119-140. University Press, Cambridge.
- Holm-Hansen, O. & Riemann, B. (1978) Chlorophyll a determination: improvements in methodology. *Oikos* **30**, 438-447.

BIBLIOGRAFIA

Humphrey, G. F. & Wooton, M. (1966) *Comparison of the techniques used in the determination of phytoplankton pigments.*, pp. 63. UNESCO, Paris.

Hurley, J. P. & Armstrong, D. E. (1990) Fluxes and transformations of aquatic pigments in Lake Mendota, Wisconsin. *Limnology and Oceanography* **35**(2), 384-398.

Hurley, J. P. & Armstrong, D. E. (1991) Pigment preservation in lake sediments: a comparison of sedimentary environments in Trout Lake, Wisconsin. *Canadian Journal of Fisheries and Aquatic Sciences* **48**, 472-486.

Hurley, J. P. & Garrison, P. J. (1993) Composition and sedimentation of aquatic pigments associated with deep plankton in lakes. *Canadian Journal of Fisheries and Aquatic Sciences* **50**, 2713-2722.

Hurley, J. P. & Watras, C. J. (1991) Identification of Bacteriochlorophylls in Lakes via Reverse-Phase Hplc. *Limnology and Oceanography* **36**, 307-315.

Itoh, N., Tani, Y., Nagatani, T., & Soma, M. (2003) Phototrophic activity and redox condition in Lake Hamana, Japan, indicated by sedimentary photosynthetic pigments and molybdenum over the last ~250 years. *Journal of Paleolimnology* **29**, 403-422.

Jeffrey, S. W. & Hallegraeff, G. M. (1987) Chlorophyllase distribution in ten classes of phytoplankton: A problem for chlorophyll analysis. *Marine Ecology Progress Series* **35**, 293-304.

Jeffrey, S. W., Mantoura, R. F. C., & Wright, S. W. (1997) *Phytoplankton pigments in oceanography: guidelines to modern methods.* UNESCO Publishing, Paris.

Jeffrey, S. W., Wright, S. W., & Zapata, M. (1999) Recent advances in HPLC pigment analysis of phytoplankton. *Marine and Freshwater Research* **50**, 879-896.

Jensen, J. P., Jeppesen, E., Olrik, K., & Kristensen, P. (1994) Impact of nutrients and physical factors on the shift from cyanobacterial to chlorophyte dominance in shallow Danish lakes. *Canadian Journal of Fisheries and Aquatic Sciences* **51**, 1692-1699.

Johnson, P. W. & Sieburth, J. (1982) In-situ morphology and occurrence of eukaryotic phototrophs of bacterial size in the picoplankton of estuarine and oceanic waters. *Journal of Phycology* **18**, 318-327.

Kaushal, S. & Binford, M. W. (1999) Relationship between C:N ratios of lake sediments, organic matter sources, and historical deforestation of Lake Pleasant, Massachusetts, USA. *Journal of Paleolimnology* **22**, 439-442.

King, D. L. (1970) The role of carbon in eutrophication. *Journal of Water Pollution Control Federation* **42**, 2035-2051.

BIBLIOGRAFIA

- Kirk, J. T. O. (1994) *Light and photosynthesis in aquatic ecosystems* Cambridge University Press.
- Kleiven, O. T., Larsson, P., & Hobæk, A. (1992) Sexual reproduction of *Daphnia magna* requires three stimuli. *Oikos* **65**, 197-206.
- Knapp, R. A., Matthews, K. R., & Sarnelle, O. (2001) Resistance and resilience of alpine lake fauna to fish introductions. *Ecological Monographs* **71**, 401-421.
- Koopmans, M. P., Koster, J., vanKannPeters, H. M. E., Kenig, F., Schouten, S., Hartgers, W. A., deLeeuw, J. W., & Damste, J. S. S. (1996) Diagenetic and catagenetic products of isorenieratene: Molecular indicators for photic zone anoxia. *Geochimica et Cosmochimica Acta* **60**, 4467-4496.
- Korhola, A. & Rautio, M. (2001) Cladocera and other brachiopod crustaceans. In: *Zoological Indicators*, eds. Smol, J. P., Birks, H. J. B., & Last, W. M., pp. 5-42. Kluwer Academic Publishers, Dordrecht.
- Kraay, G. W., Zapata, M., & Veldhuis, M. J. W. (1992) Separation of chlorophylls c1, c2 and c3 of marine phytoplankton by reversed-phase C18 high-performance liquid chromatography. *Journal of Phycology* **28**, 708-712.
- Lami, A., Niessen, F., Guilizzoni, P., Masaferro, J., & Belis, C. A. (1994) Paleolimnological studies of the eutrophication of volcanic Lake Albano (Central Italy). *Journal of Paleolimnology* **10**, 181-197.
- Latasa, M. & Bidigare, R. R. (1998) A comparison of phytoplankton populations of the Arabian Sea during the Spring Intermonsoon and Southwest Monsoon of 1995 as described by HPLC-analyzed pigments. *Deep-Sea Research Part II-Topical Studies* **45**, 2133-2170.
- Laurion, I., Lami, A., & Sommaruga, R. (2002) Distribution of mycosporine-like amino acids and photoprotective carotenoids among freshwater phytoplankton assemblages. *Aquatic Microbial Ecology* **26**, 283-294.
- Laurion, I., Ventura, M., Catalan, J., Psenner, R., & Sommaruga, R. (2000) Attenuation of ultraviolet radiation in mountain lakes: Factors controlling the among- and within-lake variability. *Limnology and Oceanography* **45**, 1274-1288.
- Lawson, C. L. & Hanson, R. J. (1974) *Solving least square problems* Prentice-Hall, NJ.
- LaZerte, B. & Watson, S. (1981) The prediction of lacustrine phytoplankton diversity. *Canadian Journal of Fisheries and Aquatic Sciences* **38**, 524-534.
- Leavitt, P. R. (1988) Experimental determination of carotenoid degradation. *Journal of Paleolimnology* **1**, 215-227.

BIBLIOGRAFIA

- Leavitt, P. R. (1993) A review of factors that regulate carotenoid and chlorophyll deposition and fossil pigment abundance. *Journal of Paleolimnology* **9**, 109-127.
- Leavitt, P. R. & Brown, S. R. (1988) Effects of grazing by *Daphnia* on algal carotenoids: Implications for paleolimnology. *Journal of Paleolimnology* **1**, 201-213.
- Leavitt, P. R. & Carpenter, S. R. (1989) Effects of sediment mixing and benthic algal production on fossil pigment stratigraphies. *Journal of Paleolimnology* **2**, 147-158.
- Leavitt, P. R. & Carpenter, S. R. (1990a) Aphotic pigment degradation in the hypolimnia: implications for sedimentation studies and paleolimnology. *Limnology and Oceanography* **35(2)**, 520-534.
- Leavitt, P. R. & Carpenter, S. R. (1990b) Regulation of pigment sedimentation by photo-oxidation and herbivore grazing. *Canadian Journal of Fisheries and Aquatic Sciences* **47**, 1166-1176.
- Leavitt, P. R., Carpenter, S. R., & Kitchell, J. F. (1989) Whole-lake experiments: the annual record of fossil pigments and zooplankton. *Limnology and Oceanography* **34(4)**, 700-717.
- Leavitt, P. R., Cumming, B. F., Smol, J. P., Reasoner, M., Pienitz, R., & Hodgson, D. A. (2003) Climatic control of ultraviolet radiation effects on lakes. *Limnology and Oceanography* **48**, 2062-2069.
- Leavitt, P. R., Vinebrooke, R. D., Donald, D. B., Smol, J. P., & Schindler, D. W. (1997) Past ultraviolet radiation environments in lakes derived from fossil pigments. *Nature* **388**, 357-359.
- Legendre, P. & Legendre, L. (1998) *Numerical ecology* Elsevier, Amsterdam.
- Lehman, J. T. (1976) Ecological and nutritional studies on *Dinobryon* Ehrenb.: Seasonal periodicity and the phosphate toxicity problem. *Limnology and Oceanography* **21**, 646-658.
- Letelier, R., Bidigare, R. R., Hebel, D. V., Ondrusek, M., Winn, C. D., & Karl, D. M. (1993) Temporal variability of phytoplankton community structure based on pigment analysis. *Limnology and Oceanography* **38**, 1420-1437.
- Liaaen-Jensen, S. (1964) Bacterial Carotenoids. *Acta Chemica Scandinavica* **18**, 1703-1718.
- Liaaen-Jensen, S. (1971) Isolation, Reactions. In: *Carotenoids*, ed. Isler, O., Birkhäuser, Basel.
- Lichtlé, C., Arsalane, W., Duval, J. C., & Passaquet, C. (1995) Characterization of the light-harvesting complex of *Giraudyopsis stellifer* (Chrysophyceae) and effects of light stress. *Journal of Phycology* **31**, 380-387.

BIBLIOGRAFIA

- Llewellyn, C. A. & Gibb, S. W. (2000) Intra-class variability in the carbon, pigment and biomineral content of prymnesiophytes and diatoms. *Marine Ecology Progress Series* **193**, 33-44.
- Llewellyn, C. A. & Mantoura, R. F. C. (1997) A UV absorbing compound in HPLC pigment chromatograms obtained from Icelandic Basin phytoplankton. *Marine Ecology Progress Series* **158**, 283-287.
- Lotocka, M., Styczynska-Jurewicz, E., & Bledzki, L. A. (2004) Changes in carotenoid composition in different developmental stages of copepods: *Pseudocalanus acuspes* Giesbrecht and *Acartia* spp. *Journal of Plankton Research* **26**, 159-166.
- Louda, J. W., Li, J., Liu, L., Winfree, M. N., & Baker, E. W. (1998) Chlorophyll-a degradation during cellular senescence and death. *Organic Geochemistry* **29**, 1233-1251.
- Lurling, M. & Van Donk, E. (1999) Grazer-induced colony formation in *Scenedesmus acutus* (Chlorophyceae): Ecomorph expression at different temperatures. *Journal of Phycology* **35**, 1120-1126.
- Lurling, M. & Van Donk, E. (2000) Grazer-induced colony formation in *Scenedesmus*: are there costs to being colonial? *Oikos* **88**, 111-118.
- MacIsaac, E. A. & Stockner, J. G. (1993) Enumeration of phototrophic picoplankton by autofluorescence microscopy. In: *Handbook of methods in Aquatic Microbial Ecology.*, eds. Kemp, P. F., Sherr, B. F., Sherr, E. B., & Cole, J. J., pp. 229-240. Lewis Publishers.
- Mackey, M. D., Higgins, H. W., Mackey, D. J., & Holdsworth, D. (1998) Algal class abundances in the western equatorial Pacific: estimations from HPLC measurements of chloroplast pigments using CHEMTAX. *Deep-Sea Res.* **45**, 1441-1468.
- Mackey, M. D., Higgins, H. W., Mackey, D. J., & Wright, S. W. (1997) *CHEMTAX user's manual. A program for estimating class abundances from chemical markers- application to HPLC measurements of phytoplankton pigments* CSIRO Mar. Lab. Rep., Hobart, Australia.
- Mackey, M. D., Mackey, D. J., Higgins, H. W., & Wright, S. W. (1996) CHEMTAX-a program for estimating class abundances from chemical markers: application to HPLC measurements of phytoplankton. *Marine Ecology Progress Series* **144**, 265-283.
- Maddy, D. & Brew, J. S. (1995) *Statistical Modelling of Quaternary Science Data*, pp. 271. Quaternary Research Association, Cambridge.
- Mantoura, R. F. C. & Llewellyn, C. A. (1983) The rapid determination of algal chlorophyll and carotenoid pigments and their breakdown products in natural waters by reverse-phase high-performance liquid chromatography. *Analytica Chemica Acta* **151**, 297-314.

BIBLIOGRAFIA

- Margalef, R. (1983) *Limnología*. Omega, Barcelona.
- Margalef, R., Campas, L., Miracle, M. R., & Vilaseca, J. M. (1975) Introducción al estudio de los lagos pirenaicos. *Naturalia Hispanica* **5**, 5-47.
- Marker, A. H. F. (1972) The use of acetone and methanol in the extraction of chlorophyll in the presence of phaeophytin. *Freshwater Biology* **2**, 361-85.
- Mazumder, A. (1994) Phosphorus-chlorophyll relationships under contrasting herbivory and thermal stratification: predictions and patterns. *Canadian Journal of Fisheries and Aquatic Sciences* **51**, 390-400.
- McLeroy-Etheridge, S. L. & McManus, G. B. (1999) Food type and concentration affect chlorophyll and carotenoid destruction during copepod feeding. *Limnology and Oceanography* **44**, 2005-2011.
- Meyer, V. R. (1988) *Practical High-Performance Liquid Chromatography* Chichester.
- Meyers, P. A. (1997) Organic geochemical proxies of paleoceanographic, paleolimnologic, and paleoclimatic processes. *Organic Geochemistry* **27**, 213-250.
- Meyers, P. A. (2003) Applications of organic geochemistry to paleolimnological reconstructions: a summary of examples from the Laurentian Great Lakes. *Organic Geochemistry* **34**, 261-289.
- Miller, J. M. (1988) *Chromatography: Concepts and Contrasts* New York.
- Millie, D. F., Paerl, H. W., & Hurley, J. P. (1993) Microalgal pigment assessment using high performance liquid chromatography: a synopsis of organismal and ecological applications. *Canadian Journal of Fisheries and Aquatic Sciences* **50**, 2513-2527.
- Montagnes, D. J. S., Berges, J. A., Harrison, P. J., & Taylor, F. J. R. (1994) Estimating carbon, nitrogen, protein, and chlorophyll a from volume in marine phytoplankton. *Limnology and Oceanography* **39**, 1044-1060.
- Moss, B. (1968) Studies on the degradation of chlorophyll *a* and carotenoids in freshwaters. *New Phytologist* **67**, 49-59.
- Nauwerck, A. (1966) Beobachtungen über das Phytoplankton klarer Hochgebirgsseen. *Schweizerische Zeitschrift für Hydrologie-Swiss Journal of Hydrology* **28**, 3-28.
- O'Brien, W. J. (1974) The dynamics of nutrient limitation of phytoplankton algae: a model reconsidered. *Ecology* **55**, 135-141.
- OECD (1982) *Eutrophication of waters. Monitoring, Assessment and Control* OECD, Paris.

BIBLIOGRAFIA

- Oelze, J. (1985) Analysis of bacteriochlorophylls. *Methods in Microbiology* **18**, 257-284.
- Olson, R. J., Vaulot, D., & Chisholm, S. W. (1985) Marine phytoplankton distributions measured using shipboard flow cytometry. *Deep-Sea Research Part A - Oceanographic Research Papers* **32**, 1273-1280.
- Owens, T. G. & Falkowski, P. G. (1982) Enzymatic degradation of chlorophyll a by marine phytoplankton *in vitro*. *Phytochemistry* **21**, 979-984.
- Pace, M. L., Cole, J. J., Carpenter, S. R., & Kitchell, J. F. (1999) Trophic cascades revealed in diverse ecosystems. *Trends in Ecology & Evolution* **14**, 483-488.
- Padisák, J. & Dokulil, M. T. (1994) Contribution of green algae to the phytoplankton assemblage in a large, turbid shallow lake (Neusiedlersee, Austria/Hungary). *Biologia* **49**, 571-579.
- Paerl, H. W. (1988) Nuisance phytoplankton blooms in coastal, estuarine, and inland waters. *Limnology and Oceanography* **33**, 823-847.
- Pandolfini, E., Thys, I., Leporcq, B., & Descy, J.-P. (2000) Grazing experiments with two freshwater zooplankters: fate of chlorophyll and carotenoid pigments. *Journal of Plankton Research* **22**, 305-319.
- Parsons, T. R., Maita, Y., & Lalli, C. M. (1984) *A manual of Chemical and Biological Methods for Seawater Analysis*. Pergamon Press, Oxford.
- Pechlaner, R. (1967) Die Finstertaler Seen (Kühtai, Österreich). II. Das Phytoplankton. *Archiv für Hydrobiologie* **63**, 145-193.
- Pechlaner, R. (1971) Factors that control production rates and biomass of phytoplankton in high-mountain lakes. *Mitteilungen Internationale Vereinigung für theoretische und angewandte Limnologie* **19**, 125-145.
- Pfander, H. (1992) Carotenoids: an overview. *Methods in enzymology*. **213**, 3-13.
- Pfander, H. & Riesen, R. (1995) High-performance liquid chromatography. In: *Carotenoids. Vol. 1A. Isolation and Analysis*, eds. Britton, G., Liaaen-Jensen, S., & Pfander, H., pp. 145-190. Birkhäuser, Basel.
- Pfennig, N. (1977) Phototropic Green and Purple Bacteria - Comparative, Systematic Survey. *Annual Review of Microbiology* **31**, 275-290.
- Pick, F. R. & Caron, D. A. (1987) Picoplankton and nanoplankton biomass in Lake Ontario: Relative contribution of phototrophic and heterotrophic communities. *Canadian Journal of Fisheries and Aquatic Sciences* **44**, 2164-2172.

BIBLIOGRAFIA

- Pla, S. (1999) Chrysophycean cysts from the Pyrenees. PhD. Universitat de Barcelona.
- Pla, S. & Catalan, J. (2005) Chrysophyte cysts from lake sediments reveal the submillennial winter/spring climate variability in the northwestern Mediterranean region throughout the Holocene. *Climate Dynamics* **in press**.
- Poister, D., Armstrong, D. E., & Hurley, J. P. (1999) Influences of grazing on temporal patterns of algal pigments in suspended and sedimenting algae in a north temperate lake. *Canadian Journal of Fisheries and Aquatic Sciences* **56**, 60-69.
- Poole, H. H. & Atkins, W. R. G. (1929) Photoelectric measurements of submarine illumination throughout the year. *Journal of the Marine Biological Association of the United Kingdom* **16**, 297-324.
- Porra, R. J. (1991) Recent advances and re-assessments in chlorophyll extraction and assay procedures for terrestrial, aquatic and marine organisms including recalcitrant algae. In: *Chlorophylls*, ed. Scheer, H., pp. 32-57. CRC Press, Boca Raton, USA.
- Porter, K. G. (1973) Selective grazing and differential digestion of algae by zooplankton. *Nature* **224**, 179-180.
- Porter, K. G. (1977) The plant-animal interface in freshwater ecosystems. *American Scientist* **65**, 159-170.
- Psenner, R. & Catalan, J. (1994) Chemical composition of lakes in crystalline basins: a combination of atmospheric deposition, geologic background, biological activity and human action. In: *Limnology Now: A paradigm of planetary problems*, ed. Margalef, R., pp. 255-314. Elsevier Science B.V.
- Rai, H. (1973) Methods involving the determination of photosynthetic pigments using spectrophotometry. *Verhandlungen der internationale vereinigung für theoretische und angewandte limnologie* **18**, 1864-1875.
- Reille, M. & Lowe, J. J. (1993) A re-evaluation of vegetation history of the Eastern Pyrenees (France) from the end of the last glacial to the present. *Quaternary Science Review* **12**, 47-77.
- Repeta, D. J. & Gagosian, R. B. (1982) Carotenoid transformations in coastal marine waters. *Nature* **295**, 51-53.
- Repeta, D. J. & Gagosian, R. B. (1984) Transformation reactions and recycling of carotenoids and chlorins in the Peru upwelling region (15° S, 75° W). *Geochimica et Cosmochimica Acta* **46**, 1265-1277.
- Reynolds, C. S. (1984) *The ecology of freshwater phytoplankton* Cambridge University Press, Cambridge.

BIBLIOGRAFIA

- Riaux-Gobin, C., Llewellyn, C. A., & Klein, B. (1987) Microphytobenthos from two subtidal sediments from North Brittany. II. Variations of pigment compositions and concentrations determined by HPLC and conventional techniques. *Marine Ecology Progress Series* **40**, 275-283.
- Riegman, R. & Kraay, G. W. (2001) Phytoplankton community structure derived from HPLC analysis of pigments in the Faroe-Shetland Channel during summer 1999: the distribution of taxonomic groups in relation to physical/chemical conditions in the photic zone. *Journal of Plankton Research* **23**, 191-205.
- Rodhe, W., Hobbie, J. E., & Wright, R. T. (1966) Phototrophy and heterotrophy in high mountain lakes. *Verhandlungen der internationale vereinigung für theoretische und angewandte limnologie* **16**, 302-313.
- Rosén, G. (1981) Phytoplankton indicators and their relations to certain chemical and physical factors. *Limnologica* **13**, 263-290.
- Rott, E. (1988) Some aspects of the seasonal distribution of flagellates in mountain lakes. *Hydrobiologia* **161**, 159-170.
- Rowan, K. S. (1989) *Photosynthetic Pigments of Algae* Cambridge University Press.
- Sabater, S. & Haworth, E. Y. (1995) An Assessment of Recent Trophic Changes in Windermere South Basin (England) Based on Diatom Remains and Fossil Pigments. *Journal of Paleolimnology* **14**, 151-163.
- Sand-Jensen, K. (1976) A comparison of chlorophyll a determinations of unstored and stored plankton filters extracted by methanol and acetone. *Vatten* **4**, 337-341.
- Sander, L. C., Sharpless, K. E., Craft, N. E., & Wise, S. A. (1994) Development of engineered stationery phases for the separation of carotenoid isomers. *Analytical Chemistry* **66**, 1667-1674.
- Sander, L. C. & Wise, S. A. (1990) Evaluation of shape selectivity in liquid chromatography. *LC GC-Magazine of Separation Science* **8**, 378-390.
- Sanger, J. E. (1988) Fossil pigments in paleoecology and paleolimnology. *Palaeogeography, Palaeoclimatology, Palaeoecology* **62**, 343-359.
- Sanger, J. E. & Gorham, E. (1970) The diversity of pigments in lake sediments and its ecological significance. *Limnology and Oceanography* **15**, 59-69.
- Sanger, J. E. & Gorham, E. (1972) Stratigraphy of fossil pigments as a guide to the post-glacial history of Kirchner Marsh, Minnesota. *Limnology and Oceanography* **17**, 840-854.

BIBLIOGRAFIA

- Scheer, H. (1991) *Chlorophylls*, pp. 950. CRC Press, Boston.
- Schiedt, K. & Liaaen-Jensen, S. (1995) Isolation and analysis. In: *Carotenoids. Vol. 1A. Isolation and Analysis*, eds. Britton, G., Liaaen-Jensen, S., & Pfander, H., pp. 81-108. Birkhäuser, Basel.
- Schlüter, L. & Møhlenberg, F. (2003) Detecting presence of phytoplankton groups with non-specific pigment signatures. *Journal of Applied Phycology* **15**, 465-476.
- Schlüter, L., Møhlenberg, F., Havskum, H., & Larsen, S. (2000) The use of phytoplankton pigments for identifying phytoplankton groups in coastal areas: testing the influence of light and nutrients on pigment/ chlorophyll a ratios. *Marine Ecology Progress Series* **192**, 49-63.
- Schmidt, K., Pfennig, N., & Liaaen-Jensen, S. (1965). Carotenoids of Thiorrhodaceae. IV. The carotenoid composition of 25 pure isolates. *Archives of Microbiology* **52**, 132-146.
- Schnoor, J. L. & Stumm, W. (1986) The role of chemical weathering in the neutralization of acidic deposition. *Schweizerische zeitschrift fur Hydrologie-Swiss Journal of Hydrology* **48**, 171-195.
- Shapiro, J. (1973) Blue-green algae: Why they become dominant. *Science* **179**, 382-384.
- Shapiro, J. (1984) Blue-green dominance in lakes: the role and management significance of pH and CO₂. *Internationale Revue der Gesmten Hydrobiologie* **69**, 765-780.
- Shapiro, J. (1990) Current beliefs regarding dominance by blue-greens: The case for the importance of CO₂ and pH. *Verhandlungen der internationale vereinigung für theoretische und angewandte limnologie* **24**, 38-54.
- Shapiro, L. P., Haugen, E. M., Keller, D. M., Bidigare, R. R., Campbell, L., & Guillard, R. R. L. (1989) Taxonomic affinities of marine coccoid ultraplankton: a comparison of immunochemical surface antigen cross-reactions and HPLC chloroplast pigment signatures. *Journal of Phycology* **25**, 794-797.
- Sheat, R. G., Munawar, M., & Hellebust, J. A. (1975) Fluctuations of phytoplankton biomass and its composition in a subartic lake during summer. *Canadian Journal of Botany* **53**, 2240-2246.
- Shoaf, W. T. & Lium, B. W. (1976) Improved extraction of chlorophyll a and b from algae using dimethyl sulfoxide. *Limnology and Oceanography* **21**, 926-928.
- Siefermann-Harms, D. (1987) The light-harvesting and protective functions of carotenoids in photosynthetic membranes. *Physiologia Plantarum* **69**, 561-568.

BIBLIOGRAFIA

- Sinninghe Damsté, J. S. & Koopmans, M. P. (1997) The fate of carotenoids in sediments: An overview. *Pure and Applied Chemistry* **69/10**, 2067-2074.
- Smayda, T. J. (1978) From phytoplankters to biomass. In: *Phytoplankton Manual*, ed. Sournia, A., pp. 273-279. UNESCO, Paris.
- Smith, V. H. (1982) The nitrogen and phosphorus dependence of algal biomass in lakes: An empirical and theoretical analysis. *Limnology and Oceanography* **27**, 1101-1112.
- Smith, V. H. (1990) Phytoplankton responses to eutrophication in inland waters. In: *Introduction to applied ecology*, ed. Akatsuka, I., pp. 231-249. SPB.
- Soma, Y., Imaizumi, T., Yagi, K., & Kasuga, S. (1993) Estimation of algal succession in lake water using HPLC analysis of pigments. *Canadian Journal of Fisheries and Aquatic Sciences* **50**, 1142-1146.
- Soma, Y., Tanaka, A., & Soma, M. (1995) Composition and vertical profiles of photosynthetic pigments in the sediment of Lake Kasumigaura. *Geochemical Journal* **29**, 107-113.
- Sournia, A. (1978) *Phytoplankton manual*. UNESCO, Paris.
- Squier, A. H., Hodgson, D. A., & Keely, B. J. (2002) Sedimentary pigments as markers for environmental change in an Antarctic lake. *Organic Geochemistry* **33**, 1655-1665.
- Stauffer, R. E., Lee, G. F., & Armstrong, D. E. (1979) Estimating chlorophyll extraction biases. *Journal of the Fisheries Research Board of Canada* **36**, 152-157.
- Steenbergen, C. L. M. & Korthals, H. J. (1982) Distribution of phototrophic microorganisms in the anaerobic and microaerophilic strata of Lake Vechten (The Netherlands). Pigment analysis and role in primary production. *Limnology and Oceanography* **27**, 883-895.
- Steenbergen, C. L. M., Korthals, H. J., & Dobrynin, E. G. (1994) Algal and Bacterial Pigments in Non-Laminated Lacustrine Sediment - Studies of Their Sedimentation, Degradation and Stratigraphy. *FEMS Microbiology Ecology* **13**, 335-351.
- Steinman, A. D., Havens, K. E., Louda, J. W., Winfree, N. M., & Baker, E. W. (1998) Characterization of the photoautotrophic algal bacterial communities in a large, shallow, subtropical lake using HPLC-PDA based pigment analysis. *Canadian Journal of Fisheries and Aquatic Sciences* **55**, 206-219.
- Strickland, J. D. H. & Parsons, T. R. (1972) A practical handbook of seawater analysis. *Fisheries Research Board of Canada Bulletin* **167**, 1-326.

BIBLIOGRAFIA

- Stross, R. G. (1987) Photoperiodism and phased growth in *Daphnia* populations: coactions in perspective. In: *Daphnia*, eds. Peters, R. H. & de Bernardi, R., pp. 367-388. Memorie Istituto Italiano Di Idrobiologia.
- Stross, R. G. & Hill, J. C. (1965) Diapause induction in Daphnia requires two stimuli. *Science* **150**, 1462-1464.
- Stuiver, M. & Reimer, P. J. (1993) Extended ^{14}C database and revised CALIB radiocarbon calibration programme. *Radiocarbon* **35**, 215-230.
- Stuiver, M., Reimer, P. J., Bard, E., Beck, J. W., Burr, G. S., Hughen, K. A., Kromer, B., McCormac, F. G., Plicht, J., & Spurk, M. (1998) INTCAL98 Radiocarbon age calibration 24,000-0 BP. *Radiocarbon* **40**, 1041-1083.
- Stumm, W. & Morgan, J. J. (1981) *Aquatic Chemistry. An Introduction Emphasizing Chemical Equilibria in Natural Waters*, 2nd ed. J. Wiley & Sons, New York.
- Swain, E. B. (1985) Measurement and interpretation of sedimentary pigments. *Freshwater Biology* **15**, 53-75.
- Talling, J. F. (1976) The depletion of carbon dioxide from lake water by phytoplankton. *Journal of Ecology* **64**, 79-121.
- Ter Braak, C. J. F. (1988) CANOCO - a FORTRAN program for canonical community ordination by partial detrended canonical correspondence analysis, principal component analysis and redundancy analysis. [2.1]. Agricultural Mathematics Group, Ministry of Agriculture and Fisheries.
- Ter Braak, C. J. F. (1994) Canonical community ordination. Part I: Basic theory and linear methods. *Ecoscience* **1**, 127-140.
- Teranes, J. L. & Bernasconi, S. M. (2000) The record of nitrate utilization and productivity limitation provided by d15N values in lake organic matter-A study of sediment trap and core sediments from Baldeggsee, Switzerland. *Limnology and Oceanography* **45**, 801-813.
- Tilzer, M. M. & Schwarz, K. (1976) Seasonal and vertical patterns of phytoplankton light adaptation in a high mountain lake. *Archiv fur Hydrobiologie* **77**, 488-504.
- Tompkins, J., DeVille, M. M., Day, J. G., & Turner, M. F. Catalogue of strains. (1995) Ambleside, Culture Collection of Algae and Protozoa.
- Vallentyne, J. R. (1956) Epiphasic Carotenoids in Post-Glacial Lake Sediments. *Limnology and Oceanography* **1**, 252-262.

BIBLIOGRAFIA

- van den Hoek, C., Mann, D. G., & Jahns, H. M. (1995) *Algae: An introduction to Phycology*, 1st ed., pp. 627. University Press, Cambridge.
- van Geel, B. (2001) Non-pollen palynomorphs. In: *Terrestrial, Algal, and Siliceous Indicators*, eds. Smol, J. P., Birks, H. J. B., & Last, W. M., pp. 99-119. Kluwer Academic Publishers, Dordrecht.
- Ventura, M. (2005) Crustacean zooplankton dynamics in Lake Redon: a stoichiometric, biochemical and isotopic approach. PhD. Universitat de Barcelona.
- Ventura, M., Camarero, L., Buchaca, T., Bartumeus, F., Livingstone, D. M., & Catalan, J. (2000) The main features of seasonal variability in the external forcing and dynamics of a deep mountain lake (Redó, Pyrenees). *Journal of Limnology* **59**, 97-108.
- Verleyen, E., Hodgson, D. A., Leavitt, P. R., Sabbe, K., & Vyverman, W. (2004) Quantifying habitat-specific diatom production: A critical assessment using morphological and biogeochemical markers in Antarctic marine and lake sediments. *Limnology and Oceanography* **49**, 1528-1539.
- Vilaseca, J. M. (1978) Fitoplancton de los lagos Pirenaicos. Memoria de Licenciatura. Universitat de Barcelona.
- Villanueva, J., Grimalt, J. O., De Wit, R., Keely, B. J., & Maxwell, J. R. (1994) Sources and transformations of chlorophylls and carotenoids in a monomictic sulphate-rich karstic lake environment. *Organic Geochemistry* **22**, No. 3-5, 739-757.
- Vinebrooke, R. D., Hall, R. I., Leavitt, P. R., & Cumming, B. F. (1998) Fossil pigments as indicators of phototrophic response to salinity and climatic change in lakes of western Canada. *Canadian Journal of Fisheries and Aquatic Sciences* **55**, 668-681.
- Vinebrooke, R. D. & Leavitt, P. R. (1996) Effects of ultraviolet radiation on periphyton in an alpine lake. *Limnology and Oceanography* **41**, 1035-1040.
- Walker, I. R. (2001) Midges: Chironomidae and related Diptera. In: *Zoological Indicators*, eds. Smol, J. P., Birks, H. J. B., & Last, W. M., pp. 43-66. Kluwer Academic Publishers, Dordrecht.
- Watson, S. B., McCauley, E., & Downing, J. A. (1997) Patterns in phytoplankton taxonomic composition across temperate lakes of differing nutrient status. *Limnology and Oceanography* **42**, 487-495.
- Welschmeyer, N. A. & Lorenzen, C. J. (1985) Chlorophyll budgets: Zooplankton grazing and phytoplankton growth in a temperate fjord and the Central Pacific Gyres. *Limnology and Oceanography* **30**, 1-21.

BIBLIOGRAFIA

Wilhelm, C., Rudolph, I., & Renner, W. (1991) A quantitative method based on HPLC-aided pigment analysis to monitor structure and dynamics of the phytoplankton assemblage- A study from Lake Meerfelder Maar (Eifel, Germany). *Archiv fur Hydrobiologie* **123**, 21-35.

Willén, E., Hajdu, S., & Pejler, Y. (1990) Summer classification in 73 nutrient-poor Swedish lakes. Classification, ordination and choice of long-term monitoring objects. *Limnologica* **20**, 217-227.

Wright, S. W., Jeffrey, S. W., & Mantoura, R. F. C. (1997) Evaluation of methods and solvents for pigment extraction. In: *Phytoplankton pigments in oceanography*, eds. Jeffrey, S. W., Mantoura, R. F. C., & Wright, S. W., pp. 261-282. UNESCO, Paris.

Wright, S. W., Thomas, D. P., Marchant, H. J., Higgins, H. W., Mackey, M. D., & Mackey, D. J. (1996) Analysis of phytoplankton of the Australian sector of the Southern Ocean: comparisons of microscopy and size frequency data with interpretations of pigment HPLC data using the 'CHEMTAX' matrix factorisation program. *Marine Ecology Progress Series* **144**, 285-298.

Yacobi, Y. Z., Eckert, W., Trüper, H. G., & Berman, T. (1990) High Performance Liquid Chromatography detection of phototrophic bacterial pigments in aquatic environments. *Microbial Ecology* **19**, 127-136.

Zeeb, B. A. & Smol, J. P. (2001) Chrysophyte scales and cysts. In: *Terrestrial, Algal, and Siliceous Indicators*, eds. Smol, J. P., Birks, H. J. B., & Last, W. M., pp. 203-224. Kluwer Academic Publishers, Dordrecht.

Züllig, H. (1981) On the use of carotenoid stratigraphy in lake sediments for detecting past developments of phytoplankton. *Limnology and Oceanography* **26(5)**, 970-976.

Züllig, H. (1986) Carotenoids from plankton and photosynthetic bacteria in sediments as indicators of trophic changes in Lake Lobsigen during the last 14000 years. *Hydrobiologia* **143**, 315-319.

Züllig, H. (1989) Role of carotenoids in lake sediments for reconstructing trophic history during the late Quaternary. *Journal of Paleolimnology* **2**, 23-40.