

## REFERENCES

- ADAMS, S. M. and J. W. ANGELOVIC. 1970. Assimilation of detritus and its associated bacteria by three species of estuarine animals. *Chesapeake Science*, 11: 249-259.
- ALIMOV, A. F. 1965. Filtration rate of mollusks of the genus Sphaerium. In: Voprosy Theoreticheskoi i Prikladnoi Malakologii (Tezisy Doklada), Sbornik II, Izd. Nauka, Moscow and Leningrad (in Russian).
- ALTMAN, P. L. and D. S. DITTMER (eds.). 1966. Environmental Biology, Federation of American Societies for Experimental Biology, Bethesda, Maryland, 694 p.
- AMBLER, J. W. and B. W. FROST. 1974. The feeding behavior of a predatory copepod, Tortanus discaudatus. *Limnology and Oceanography*, 19: 446-451.
- AMERICAN PUBLIC HEALTH ASSOCIATION. 1971. Standard Methods for the Examination of Water and Wastewater. 13th edition, American Public Health Association, Inc., New York, New York, 874 p.
- ANDRONIKOVA, I. N. 1978. Estimation of the role of zooplankton in the processes of selfpurification. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 20: 1022-1025.
- ANDRONIKOVA, I. N., V. G. DRABKOVA, K. N. KUZMENKO, N. F. MICHAILOVA, and E. A. STRAVINSKAYA. 1972. Biological productivity of the main communities of the Red Lake. In: Productivity Problems of Freshwaters, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, p. 57-71.
- ARNOLD, D. E. 1971. Ingestion, assimilation, survival, and reproduction by Daphnia pulex fed seven species of blue-green algae. *Limnology and Oceanography*, 16: 906-920.
- AVOLIZI, R. J. 1976. Biomass turnover in populations of viviparous sphaeriid clams: Comparisons of growth, fecundity, mortality. *Hydrobiologia*, 51: 163-180.
- AZAM, F. and R. E. HODSON. 1977. Size distribution and activity of marine microheterotrophs. *Limnology and Oceanography*, 22: 492-501.
- BACA, R. G., M. W. LORENZEN, R. D. MUDD, and L. V. KINNEL. 1974. A generalized water quality model for eutrophic lakes and reservoirs. Battelle Pacific Northwest Laboratories, Richland, Washington, 150 p.

- BARLOCHER, F. and B. KENDRICK. 1975. Assimilation efficiency of Gammarus pseudolimnaeus (Amphipoda) feeding on fungal mycelium or autumn-shed leaves. *Oikos*, 26: 55-59.
- BAUDOIN, M. F. and O. RAVERA. 1972. Weight, size, and chemical composition of some freshwater zooplankters: Daphnia hyalina (Levdig). *Limnology and Oceanography*, 17: 645-649.
- BAYLOR, E. R. and W. H. SUTCLIFFE. 1963. Dissolved organic matter as a source of particulate food. *Limnology and Oceanography*, 8: 369-371.
- BECKER, C. D., R. G. GENOWAY, and M. J. SCHNEIDER. 1977. Comparative cold resistance of three Columbia River organisms. *Transactions of the American Fisheries Society*, 106: 178-184.
- BEERS, J. R. 1966. Studies in the chemical composition of the major zooplankton groups in the Sargasso Sea off Bermuda. *Limnology and Oceanography*, 11: 520-528.
- BEERS, J. R. and G. L. STEWART. 1969. Microzooplankton and its abundance relative to the larger zooplankton and other seston components. *Marine Biology* (Berlin), 4: 182-189.
- BEKLEMISHEV, T. T. 1962. Superfluous feeding of marine herbivorous zooplankton. *Rapports et Proces-Verbaux des Reunions Conseil International pour l'Exploration de la Mer*, 153: 108-113.
- BELJACKAJA-POTAENKO, Y. S. 1964. Quantitative data on the feeding of zooplankton on bacteria. In: *Trudy 10 Nauk Konf. po Vnutrennykh Vodoemah Pribaltiki*, Minsk, p. 277-282 (in Russian).
- BELL, R. K. and F. J. WARD. 1970. Incorporation of organic carbon by Daphnia pulex. *Limnology and Oceanography*, 15: 713-726.
- BERG, K. and P. M. JONASSON. 1965. Oxygen consumption of profundal lake animals at low oxygen contents of the water. *Hydrobiologia*, 26: 131-143.
- BERMAN, M. S. and S. RICHMAN. 1974. The feeding behavior of Daphnia pulex from Lake Winnebago, Wisconsin. *Limnology and Oceanography*, 19: 105-109.
- BERTALANFFY, L. VON. 1951. Metabolic types and growth types. *American Naturalist*, 85: 111-117.
- BIERMAN, Z. J., JR., F. H. VERHOFF, T. L. POULSON, and M. W. TENNEY. 1973. Multi-nutrient dynamic models of algal growth and species completion in eutrophic lakes." pp. 89-109. E. J. Middlebrooks et al. (eds). Modeling the Eutrophication Process, Ann Arbor Science Publishers, Ann Arbor, Michigan.

- BIRGE, E. A. 1898. Plankton studies on Lake Mendota. II. The Crustacea of the plankton from July 1894, to December 1896. Transactions of the Wisconsin Academy of Sciences Arts and Letters, 11: 274-451.
- BIRGE, E. and C. JUDAY. 1922. The inland lakes of Wisconsin. The plankton. Part I. Its quantity and chemical composition. Wisconsin Geological and Natural History Survey Bulletin, 64: 1-222.
- BISHOP, J. W. 1968. Respiratory rates of migrating zooplankton in the natural habitat. Limnology and Oceanography, 13: 58-62.
- BLAZKA, P. 1966. Metabolism of natural and cultured populations of Daphnia related to secondary production. Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen, 16: 380-385.
- BOGATOVA, I. B. 1951. Quantitative data on the feeding of Cyclops strenuus Fischer and Cyclops viridis Jurine. Trudy Saratov otd. Kasp. fil. VNIRO, 1 (in Russian).
- BAGATOVA, I. B., M. A. SHCHERBINA, V. V. OVINNIKOVA, and N. A. TAGIROVA. 1971. The chemical composition of certain planktonic animals under different growing conditions. Hydrobiological Journal, 7: 39-43.
- BOGDAN, K. G. and D. C. McNAUGHT. 1975. Selective feeding by Diaptomus and Daphnia. Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen, 19: 2935-2942.
- BOTTRELL, H. H., A. DUNCAN, Z. M. GLIWICA, E. GRYGIEREK, A. HERZIG, A. HILLBRICHT-ILKOWSKA, H. KURASAWA, P. LARSSON, and T. WEGLENSKA. 1977. A review of some problems in zooplankton production studies. Norwegian Journal of Zoology, 24: 419-456.
- BOUCHER, J., C. RAZOULS, AND S. RAZOULS. 1976. Composition chimique elementaire en carbone et azote de Centropages typicus et Temora stylifera. Analyse des variations en fonction de la physiologie et des conditions ecologiques. Cahiers de Biologie Marine, 17: 37-43.
- BOVEE, E. C. 1949. Studies on the thermal death rate of Hyalolella azteca, Saussure. Biological Bulletin (Woods Hole), 96: 123-128.
- BOWERS, J. A. 1979. Zooplankton grazing in simulation models; The role of vertical migration. In: Perspectives on Lake Ecosystem Modeling, D. Scavia and A. Robertson (eds.), Ann Arbor Science Publishers, Inc., Ann Arbor, p. 53-73.
- BRAND, T. F. VON. 1927. Stoffbestand und Ernährung einiger Polychaeten und anderer mariner Wurmer. Zeitschrift fuer Vergleichende Physiologie, 5: 643.

- BRANDL, Z. and C. H. FERNANDO. 1975. Investigations on the feeding of carnivorous cyclopoids. Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen, 19: 2959-2965.
- BRANDT, K. and E. RABEN. 1919-1922. Zur Kenntnis der chemischen Zusammensetzung des planktons und einiger bodenorganismen. Wissenschaftliche Meeresuntersuchungen, 19: 175.
- BRINKHURST, R. O. 1974. The Benthos of Lakes, St. Martins Press, Inc., New York, 190 p.
- BRINKHURST, R. O. and K. E. CHUA. 1969. Preliminary investigation of the exploitation of some potential nutritional resources by three sympatric tubificid oligochaetes. Journal of the Fisheries Research Board of Canada, 26: 2659-2668.
- BRINKHURST, R. O., L. E. CHUA, and N. K. KAUSHIK. 1972. Interspecific interactions and selective feeding by tubificid oligochaetes. Limnology and Oceanography, 17: 122-133.
- BROOKS, J. L. 1957. The systematics of North American Daphnia. Memoirs of the Connecticut Academy of Arts and Sciences, 13: 1-180.
- BROOKS, J. L. 1959. Cladocera. In: Freshwater Biology, 2nd edition, W. T. Edmonson (ed.), John Wiley & Sons, Inc., New York, p. 587-656.
- BROWN, A. V. 1978. Life history and population energetics of the dobson fly, Corydalus cornutus. Ecology, 59: 1091-1108.
- BROWN, L. A. 1928. Comparison of the rates of killing of the parthenogenetic and sexual forms of Daphnia magna at high temperatures. Proceedings of the Society for Experimental Biology and Medicine, 25: 732-734.
- BROWN, L. A. and W. J. CROZIER. 1927. The rate of killing of cladocerans at higher temperatures. Journal of General Physiology, 11: 25-36.
- BUFFINGTON, J. D. 1969. Temperature acclimation of respiration in Culex pipiens (Diptera: Culicidae) and the influences of seasonal selection. Comparative Biochemistry and Physiology, 30: 565-578.
- BUIKEMA, A. L., Jr. 1972. Oxygen consumption of the cladoceran, Daphnia pulex as a function of body size, light and light acclimation. Comparative Biochemistry and Physiology, 42: 877-888.
- BUIKEMA, A. L., Jr. 1973. Filtering rate of the cladoceran, Daphnia pulex as a function of body size, light and light acclimation. Hydrobiologia, 41: 515-527.

165. BURKY, A. J. 1971. Biomass turnover, respiration, and inter-population variation in the stream limpet, Ferrissia rivularis (Say.). Ecological Monographs, 41: 235-251.
- BURNS, C. W. 1968a. Direct observations of mechanisms regulating feeding behavior of Daphnia, in lakewater. Internationale Revue der Gesamten Hydrobiologie, 53: 83-100.
- BURNS, C. W. 1968b. The relationship between body size of filter-feeding Cladocera and the maximum size of particle ingested. Limnology and Oceanography, 13: 675-678.
- BURNS, C. W. 1969a. Particle size and sedimentation in the feeding behavior of two species of Daphnia. Limnology and Oceanography, 14: 392-402.
- BURNS, C. W. 1969b. Relation between filtering rate, temperature, and body size in four species of Daphnia. Limnology and Oceanography, 14: 693-700.
- BURNS, C. W. and F. H. RIGLER. 1967. Comparison of filtering rates of Daphnia rosea in lake water and in suspensions of yeast. Limnology and Oceanography, 12: 492-502.
- BUTLER, E. I., E. D. S. CORNER, and S. M. MARSHALL. 1970. On the nutrition and metabolism of zooplankton. VII. Seasonal survey of nitrogen and phosphorus excretion by Calanus in the Clyde Sea-Area. Journal of the Marine Biological Association of the United Kingdom, 50: 525-560.
- CALOW, P. 1972. The structural and functional dynamics of selected species populations of freshwater snails: Towards a systems approach. Ph.D. thesis, Leeds University, United Kingdom.
- CALOW, P. 1975. The respiratory strategies of two species of freshwater gastropods Ancylus fluviatilis (Mull) and Planorbis contortus (Linn) in relation to temperature, oxygen concentration, body size, and season. Physiological Zoology, 48: 114-129.
- CHASTON, I. 1969. Anaerobiosis in Cyclops varicans. Limnology and Oceanography, 14: 298-301.
- CHEN, C. W. and G. T. ORLOB. 1975. Ecologic simulation for aquatic environments. In: Systems Analysis and Simulation in Ecology, Vol III, B. C. Patten (ed.), Academic Press, Inc., New York, p. 475-588.
- CHISHOLM, S. W., R. G. STROSS, and P. A. NOBBS. 1975. Environmental and intrinsic control of filtering and feeding rates in Arctic Daphnia. Journal of the Fisheries Research Board of Canada, 32: 219-226.

- CLARK, A. S. and J. C. H. CARTER. 1974. Population dynamics of cladocerans in Sunfish Lake, Ontario. *Canadian Journal of Zoology*, 52: 1235-1242.
- CLESCERI, L. S., R. A. PARK and J. A. BLOOMFIELD. 1977. General model of microbial growth and decomposition in aquatic ecosystems. *Applied and Environmental Microbiology*, 33: 1047-1058.
- COHN, M. F. 1958. Experimental study of ingestion and assimilation in Daphnia (Cladocera). Ph.D. Thesis, Yale University, New Haven, Connecticut, 56 p.
- COKER, R. E. 1934. Reaction of some freshwater copepods to high temperatures. *Journal of the Elisha Mitchell Scientific Society*, 50: 143-159.
- COLE, A. E. 1921. Oxygen supply of certain animals living in water containing no dissolved oxygen. *Journal of Experimental Zoology*, 33: 293-316.
- COMITA, G. W. 1964. The energy budget of Diaptomus siciloides, Lilljeborg. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 15: 646-653.
- COMITA, G. W. 1968. Oxygen consumption in Diaptomus. *Limnology and Oceanography*, 13: 51-57.
- COMITA, G. W. 1972. The seasonal zooplankton cycles, production and transformation of energy in Severson Lake, Minnesota. *Archiv fuer Hydrobiologie*, 70: 14-66.
- CONFER, J. L. 1971. Intra-zooplankton predation by Mesocyclops edax at natural prey densities. *Limnology and Oceanography*, 16: 663-666.
- CONOVER, R. J. 1961. The turnover of phosphorus by Calanus finmarchicus. *Journal of the Marine Biological Association of the United Kingdom*, 41: 484-488.
- CONOVER, R. J. 1962. Metabolism and growth in Calanus hyperboreus in relation to its life cycle. *Rapports et Proces-Verbaux des Reunions Conseil International pour l'Exploration de la Mer*, 153: 190-197.
- CONOVER, R. J. 1964. Food relations and nutrition of zooplankton. University of Rhode Island Graduate School of Oceanography, Occasional Publication No. 2: 81-91.
- CONOVER, R. J. 1966a. Assimilation of organic matter by zooplankton. *Limnology and Oceanography*, 11: 338-345.

- CLARK, A. S. and J. C. H. CARTER. 1974. Population dynamics of cladocerans in Sunfish Lake, Ontario. *Canadian Journal of Zoology*, 52: 1235-1242.
- CLESCERI, L. S., R. A. PARK and J. A. BLOOMFIELD. 1977. General model of microbial growth and decomposition in aquatic ecosystems. *Applied and Environmental Microbiology*, 33: 1047-1058.
- COHN, M. F. 1958. Experimental study of ingestion and assimilation in Daphnia (Cladocera). Ph.D. Thesis, Yale University, New Haven, Connecticut, 56 p.
- COKER, R. E. 1934. Reaction of some freshwater copepods to high temperatures. *Journal of the Elisha Mitchell Scientific Society*, 50: 143-159.
- COLE, A. E. 1921. Oxygen supply of certain animals living in water containing no dissolved oxygen. *Journal of Experimental Zoology*, 33: 293-316.
- COMITA, G. W. 1964. The energy budget of Diaptomus siciloides, Lilljeborg. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 15: 646-653.
- COMITA, G. W. 1968. Oxygen consumption in Diaptomus. *Limnology and Oceanography*, 13: 51-57.
- COMITA, G. W. 1972. The seasonal zooplankton cycles, production and transformation of energy in Severson Lake, Minnesota. *Archiv fuer Hydrobiologie*, 70: 14-66.
- CONFER, J. L. 1971. Intra-zooplankton predation by Mesocyclops edax at natural prey densities. *Limnology and Oceanography*, 16: 663-666.
- CONOVER, R. J. 1961. The turnover of phosphorus by Calanus finmarchicus. *Journal of the Marine Biological Association of the United Kingdom*, 41: 484-488.
- CONOVER, R. J. 1962. Metabolism and growth in Calanus hyperboreus in relation to its life cycle. *Rapports et Proces-Verbaux des Reunions Conseil International pour l'Exploration de la Mer*, 153: 190-197.
- CONOVER, R. J. 1964. Food relations and nutrition of zooplankton. University of Rhode Island Graduate School of Oceanography, Occasional Publication No. 2: 81-91.
- CONOVER, R. J. 1966a. Assimilation of organic matter by zooplankton. *Limnology and Oceanography*, 11: 338-345.

- CONOVER, R. J. 1966b. Factors affecting the assimilation of organic matter by zooplankton and the question of superfluous feeding. *Limnology and Oceanography*, 11: 346-354.
- CONOVER, R. J. and E. D. S. CORNER. 1968. Respiration and nitrogen excretion by some marine zooplankton in relation to their life cycles. *Journal of the Marine Biological Association of the United Kingdom*, 48: 49-75.
- CONOVER, R. J. and V. FRANCIS. 1973. The use of radioactive isotopes to measure the transfer of materials in aquatic food chains. *Marine Biology (Berlin)*, 18: 272-283.
- COOPER, W. E. 1965. Dynamics and production of a natural population of fresh-water amphipod, *Hyalella azteca*. *Ecological Monographs*, 35: 377-394.
- CORNER, E. D. S. 1973. Phosphorus in marine zooplankton. *Water Research*, 7: 93-110.
- COWGILL, U. M. and C. W. BURNS. 1975. Differences in chemical composition between two species of *Daphnia* and some freshwater algae cultured in the laboratory. *Limnology and Oceanography*, 20: 1005-1011.
- CRADDOCK, D. R. 1976. Effects of increased water temperatures on *Daphnia pulex*. *U. S. Fish and Wildlife Service Fishery Bulletin*, 74: 403-408.
- CROWLEY, P. H. 1973. Filtering rate inhibition of *Daphnia pulex* in Wintergreen Lake water. *Limnology and Oceanography*, 18: 394-402.
- CUMMINS, K. W. 1975. Macroinvertebrates. In: *River Ecology*, B. A. Whitton (ed.), University of California Press, Berkeley, p. 170-198.
- CUMMINS, K. W., W. P. COFFMAN, and P. A. ROFF. 1966. Trophic relations in a small woodland stream. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 18: 1-158.
- CUMMINS, K. W., R. R. COSTA, R. E. ROWE, G. A. MOSHIRI, R. M. SCANLON, and R. K. ZAJDEL. 1969. Ecological energetics of a natural population of the predaceous zooplankter *Leptodora kindtii* Focke (Cladocera). *Oikos*, 20: 189-223.
- CUMMINS, K. W. and J. C. WUYCHECK. 1971. Caloric equivalents for investigations in ecological energetics. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Mitteilungen*, 18: 1-158.
- CURL, H., Jr. 1962. Analysis of carbon in marine plankton organisms. *Journal of Marine Research*, 20: 181-188.



- CURRY, L. L. 1965. A survey of environmental requirements for the midge (Diptera: Tendipedidae). In: Biological Problems in Water Pollution, C. M. Tarzwell (ed.), U. S. Public Health Service Publication No. 999-WP25, Cincinnati, p. 127-141.
- CZECZUGA, B. and E. BOBIATYNSKA-KSOK. 1972. The extent of consumption of the energy contained in the food suspension by Ceriodaphnia reticulata (Jurine). In: Productivity Problems of Freshwaters, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, p. 740-748.
- DABORN, G. R. 1975. Life history and energy relations of the giant fairy shrimp Brachinecta gigas Lynch 1937 (Crustacea: Anostraca). Ecology, 56: 1025-1039.
- DAGG, M. J. 1974. Loss of prey body contents during feeding by an aquatic predator. Ecology, 55: 903-906.
- DAGG, M. J. 1976. Complete carbon and nitrogen budgets for the carnivorous amphipod, Calliopius laeviusculus (Kroyer). Internationale Revue der Gesamten Hydrobiologie, 61: 297-357.
- DELFF, C. 1912. Bietrage zur kenntnis des chemischen zusammensetzung wirbelloser meerestiere. Wissenschaftliche Meeresuntersuchungen, 14: 53.
- DiTORO, D. M., D. J. O'CONNOR, and R. V. THOMANN. 1971. A dynamic model of the phytoplankton populations in the Sacramento-San Joaquin delta. In: Nonequilibrium Systems in Natural Water Chemistry, Advances in Chemistry Series No. 106, American Chemical Society, p. 131-150.
- DODSON, S. I. 1972. Mortality in a population of Daphnia rosea. Ecology, 53: 1011-1023.
- DOOHAN, M. 1973. An energy budget for adult Brachionus plicatilis Muller (Rotatoria). Oecologia (Berlin), 13: 351-362.
- DUNCAN, A., F. SCHIEMER, and R. A. KLEKOWSKI. 1974. A preliminary study of feeding rates on bacterial food by adult females of a benthic nematode, Plectus palustris de Man 1880. Polskie Archiwum Hydrobiologii, 21: 249-258.
- DUVAL, W. S. and G. H. GEEN. 1976. Diel feeding and respiration rhythms in zooplankton. Limnology and Oceanography, 21: 823-829.
- EDMONDSON, W. T. 1957. Trophic relations of the zooplankton. Transactions of the American Microscopical Society, 76: 225-245.

- EDWARDS, R. W. 1957. The relation of oxygen consumption to body size and to temperature in the larvae of Chironomus riparius Meigen. *Journal of Experimental Biology*, 35: 383-395.
- ELLIOTT, J. M. 1968. The daily activity patterns of mayfly nymphs (Ephemeroptera). *Journal of Zoology*, 155: 201-221.
- ELWOOD, J. W. and R. A. GOLDSTEIN. 1975. Effects of temperature on food ingestion rate and adsorption, retention, and equilibrium burden of phosphorus in an aquatic snail, Goniobasis clavaeformis Lea. *Freshwater Biology*, 5: 397-406.
- ERIKSEN, C. H. 1964. The influence of respiration and substrate upon the distribution of burrowing mayfly naiads. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 15: 903-911.
- ERMAN, L. A. 1956. Feeding habits of Rotifera from the quantitative aspect. *Zoologicheskii Zhurnal*, 35: 965-971 (in Russian with English summary).
- ERMAN, L. A. 1962. On the quantitative aspect of feeding and selectivity of food in the plankton rotifer Brachionus calyciflorus Pall. *Zoologicheskii Zhurnal*, 41: 34-48 (in Russian).
- FEDORENKO, A. Y. 1975. Feeding characteristics and predation impact of Chaoborus (Diptera, Chaoboridae) larvae in a small lake. *Limnology and Oceanography*, 20: 250-258.
- FINENKO, Z. Z. and V. E. ZAIKA. 1970. Particulate organic matter and its role in the productivity of the sea. In: Marine Food Chains, J. H. Steele (ed.), University of California Press, Berkeley, p. 32-45.
- FISCHER, Z. 1966. Food selection and energy transformation in larvae of Lestes sponsa (Odonata) in astatic waters. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 16: 600-603.
- FISCHER, Z. 1970. Some remarks about the food ration. *Polski Archiwum Hydrobiologii*, 17: 177-182.
- FISCHER, Z. 1972. The energy budget of Lestes sponsa (Hans.) during its larval development. *Polskie Archiwum Hydrobiologii*, 19: 215-322.
- FISHER, S. G. and G. E. LIKENS. 1972. Stream ecosystems: Organic energy budget. *Bioscience*, 22: 33-35.
- FOULDS, J. B. and K. H. MANN. 1978. Cellulose digestion in Mysis stenolepis and its ecological implications. *Limnology and Oceanography*, 23: 760-766.

- FOULDS, J. B. and J. C. ROFF. 1976. Oxygen consumption during simulated vertical migration in Mysis relicta (Crustacea, Mysidacea). Canadian Journal of Zoology, 54: 377-385.
- FRANK, P. W., C. D. BOLL, and R. W. KELLY. 1957. Vital statistics of laboratory cultures of Daphnia pulex DeGeer as related to density. Physiological Zoology, 30: 287-305.
- FROST, B. W. 1972. Effects of size and concentration of food particles on the feeding behavior of the marine planktonic copepod Calanus pacificus. Limnology and Oceanography, 17: 805-815.
- FROST, B. W. 1975. A threshold feeding behavior in Calanus pacificus. Limnology and Oceanography, 20: 263-266.
- FRY, F. E. J. 1947. Effects of the environment on animal activity. University of Toronto Studies, Biological Series. No. 55. Publications of the Ontario Fisheries Research Laboratory, 68: 62 p.
- FRYER, G. 1957. The food of some freshwater cyclopoid copepods and its ecological significance. Journal of Animal Ecology, 26: 263-286.
- FULLER, J. L. 1937. Feeding rate of Calanus finmarchicus in relation to environmental conditions. Biological Bulletin (Woods Hole), 72: 233-246.
- FULLER, J. L. and G. L. CLARKE. 1936. Further experiments on the feeding of Calanus finmarchicus. Biological Bulletin (Woods Hole), 70: 233-246.
- GAJEVSKAJA, N. S. 1961. Nouvelles methodes pour l'etude de l'alimentation des animaux aquatiques et quelques resultats de leur application. International Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen, 14: 999-1008.
- GALKOVSKAYA, G. A. 1963. Utilization of food for growth and conditions for maximum production of the rotifer Brachionus calyciflorus Pallas. Zoologicheskii Zhurnal, 42: 506-512. (English translation available as Fisheries Research Board of Canada Translation Series No. 997, 1968, 13 p.)
- GALKOVSKAYA, G. A. 1965. Planktonic rotifers and their role in productivity of water bodies. Ph.D. thesis, Belorusski gosud. Univ. im. V. I. Lenina, Minsk (in Russian).
- GALKOVSKAYA, G. A. 1970. The utilization of food by pond zooplankton. Hydrobiological Journal, 6: 42-47.

- GEHRS, C. W. and A. ROBERTSON. 1975. Use of life tables in analyzing the dynamics of copepod populations. *Ecology*, 56: 665-671.
- GELLER, W. 1975. Die Nahrungsaufnahme von Daphnia pulex in Abhängigkeit von der Futterkonzentration, der Temperatur, der Körpergrösse und dem Hungerzustand der Tiere (The food uptake of Daphnia pulex as a function of food concentration, temperature, animals' body length, and starvation). *Archiv fuer Hydrobiologie Supplementband*, 48: 47-107. (Fisheries and Marine Service of Canada Translation Series No. 4017, 1977, 96 p.)
- GELLIS, S. S. and G. L. CLARKE. 1935. Organic matter in dissolved and in colloidal form as food for Daphnia magna. *Physiological Zoology*, 8: 127-137.
- GENG, H. 1925. Der futterwert der natuerlichen fischnahrung. *Zeitschrift fuer Fischerei und deren Hilfswissenschaften*, 23: 137.
- GINN, T. C., W. T. WALLER and G. J. LAUER. 1976. Survival and reproduction of Gammarus spp. (Amphipoda) following short-term exposure to elevated temperatures. *Chesapeake Science*, 17: 8-14.
- GLIWICZ, Z. M. 1969. Studies on the feeding of pelagic zooplankton in lakes with varying trophy. *Ekologia Polska Seria A*, 17: 1-44.
- GLIWICZ, Z. M. 1970. Calculation of food ration of zooplankton community as an example of using laboratory data for field conditions. *Polskie Archiwum Hydrobiologii*, 17: 169-175.
- GOLDMAN, C. R. and B. L. KIMMEL. 1978. Biological processes associated with suspended sediment and detritus in lakes and reservoirs. In: Current Perspectives on River-Reservoir Ecosystems, North American Benthological Society, p. 19-44.
- GOPHEN, M. 1976. Temperature dependence of food intake, ammonia excretion and respiration in Ceriodaphnia reticulata (Jurine) (Lake Kinneret, Israel). *Freshwater Biology*, 6: 451-455.
- GOPHEN, M. 1977. Food and feeding habits of Mesocyclops leuckarti (Claus) in Lake Kinneret (Israel). *Freshwater Biology*, 7: 613-618.
- GOSS, L. B. and D. L. BUNTING. 1976. Thermal tolerance in zooplankton. *Water Research*, 10: 387-398.
- GREEN, J. D. 1975. Feeding and respiration in the New Zealand copepod Calamoecia lucasi Brady. *Oecologia (Berlin)*, 21: 345-358.
- GREEN, J. D. 1976. Population dynamics and production of the calanoid copepod Calamoecia lucasi in a northern New Zealand lake. *Archiv fuer Hydrobiologie Supplementband*, 50: 313-400.

- HARVEY, H. W. 1937. Note on selective feeding by Calanus. Journal of the Marine Biological Association of the United Kingdom, 22: 97-100.
- HARVEY, H. W., L. H. N. COOPER, M. V. LEBOUR, and F. S. RUSSELL. 1935. Plankton production and its control. Journal of the Marine Biological Association of the United Kingdom, 15: 407-441.
- HAYWARD, R. S. and D. N. GALLUP. 1976. Feeding, filtering and assimilation in Daphnia schoedleri Sars as affected by environmental conditions. Archiv fuer Hydrobiologie, 77: 139-163.
- HEIMAN, D. R. and A. W. KNIGHT. 1975. The influence of temperature on the bioenergetics of the carnivorous stonefly nymph, Acroneuria californica Banks (Plecoptera: Perlidae). Ecology, 56: 105-116.
- HEINLE, D. R. 1969. Temperature and zooplankton. Chesapeake Science, 10: 186-209.
- HILLBRICHT-ILKOWSKA, A. and A. KARABIN. 1970. An attempt to estimate consumption, respiration and production of Leptodora kindtii (Focke) in field and laboratory experiments. Polskie Archiwum Hydrobiologii, 17: 81-86.
- HILLYARD, S. D. and A. VINIGAR. 1972. Respiration and thermal tolerance of the phyllopod crustacea Triops longicaudatus and Thamnocephalus platyurus inhabiting desert ephemeral ponds. Physiological Zoology, 45: 189-195.
- HOPKINS, T. L. 1968. Carbon and nitrogen content of fresh and preserved Nematocelis difficilis, a euphausiid crustacean. Journal du Conseil International pour l'Exploration de la Mer, 31: 300-304.
- HUGHES, R. N. 1970. An energy budget for a tidal-flat population of the bivalve Scrobicularia plana (Da Costa). Journal of Animal Ecology, 39: 357-381.
- HUNTER, R. D. 1975. Growth, fecundity, and bioenergetics in three populations of Lymnaea palustris in upstate New York. Ecology, 56: 50-63.
- HYNES, H. B. N. 1970. The ecology of stream insects. Annual Review of Entomology, 15: 25-42.
- IKEDA, T. 1971. Changes in respiration rate and in composition of organic matter in Calanus cristatus (Crustacea: Copepoda) under starvation. Bulletin of the Faculty of Fisheries, Hokkaido University (Hokkaido Daigaku Suisan Gakubu Kenkyu Iho), 21: 280-298.

- ISOM, B. 1971. Evaluation and control of macroinvertebrate nuisance organisms in freshwater industrial supply systems. Paper presented at the 19th Annual Meeting of the Midwest Benthological Society, March 24-26, 1971.
- ITO, T. 1955. Studies on Mizukawari in eel-culture ponds. 1. Feeding activity of Brachionus plicatilis on phytonannoplankton. Report of the Faculty of Fisheries Prefectural, University of Mie (Mie Kenritsu Daigaku Suisamgakubu Hokoku), 2: 162-276 (in Japanese).
- ITOH, K. 1973. Food requirements of copepods estimated from their metabolic rates. Bulletin of the plankton Society of Japan (Nippu Kai Ho), 20: 78-83. (English translation available as Fisheries and Marine Service of Canada Translation Series No. 3354, 1975, 12 p.)
- IVANOVA, M. B. 1970. Relations between the food concentration, filtration rate and effectiveness of oxygen utilization by Cladocera. Polski Archiwum Hydrobiologii, 17: 161-168.
- IVANOVA, M. B. 1972. The influence of temperature on the oxygen consumption by Gammaracanthus lacustris Sars (Amphipoda). Polskie Archiwum Hydrobiologii, 19: 319-324.
- IVANOVA, M. B. and R. Z. KLEKOWSKI. 1972. Respiratory and filtration rates in Simocephalus vetulus (O. F. Muller) (Cladocera) at different pH. Polskie Archiwum Hydrobiologii, 19: 303-318.
- IVLEV, V. S. 1939. Transformation of energy by aquatic animals: Coefficient of energy consumption by Tubifex tubifex (Oligochaeta). Internationale Revue der Gesamten Hydrobiologie, 38: 449-458.
- IVLEV, V. S. 1966. The biological productivity of waters. Journal of the Fisheries Research Board of Canada, 23: 1727-1759.
- JASSBY, A. D. 1975. Dark sulfate uptake and bacterial productivity in a subalpine lake. Ecology, 56: 627-636.
- JASSBY, A. D. and C. R. GOLDMAN. 1974. Loss rates from a lake phytoplankton community. Limnology and Oceanography, 19: 618-627.
- JAWED, M. 1969. Body nitrogen and nitrogenous excretion in Neomysis rayii Murdock and Euphausia pacifica Hansen. Limnology and Oceanography, 14: 748-754.
- JENSEN, L. D., R. M. DAVIES, A. S. BROOKS, and C. D. MEYERS. 1969. The effect of elevated temperature upon aquatic invertebrates. Edison Electric Institute Publication No. 69-900, 232 p.

- JOHANNES, R. E. 1964. Uptake and release of phosphorus by a benthic marine amphipod. *Limnology and Oceanography*, 9: 235-242.
- JOHANNES, R. E. and M. SATOMI. 1967. Measuring organic matter retained by aquatic invertebrates. *Journal of the Fisheries Research Board of Canada*, 24: 2467-2471.
- JONASSON, P. M. 1964. The relationship between primary production and production of profundal bottom invertebrates in a Danish eutrophic lake. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 15: 471-479.
- JORGENSEN, C. B. 1962. The food of filter feeding organisms. *Rapports et proces-Verbaux des Reunions Conseil International pour l'Exploration de la Mer*, 153: 99-107.
- JORGENSEN, C. B. 1966. Biology of Suspension Feeding, Pergamon Press, Inc., New York, 357 p.
- KAJAK, Z. and K. DUSOGE. 1970. Production efficiency of Procladius choreus Mg (Chironomidae, Diptera) and its dependence on the trophic conditions. *Polskie Archiwum Hydrobiologii*, 17: 217-224.
- KAMLER, E. and K. SROKOSZ. 1973. Calorific values and metabolism of Glyptotendipes polytomus Kieff (Chironomidae) in early spring. *Polskie Archiwum Hydrobiologii*, 20: 489-506.
- KAY, D. G. and A. E. BRAFIELD. 1972. The energy relations of the polychaete Neanthes (Nereis) virens (Sars). *Journal of Animal Ecology*, 42: 673-692.
- KERSTING, K. and W. HOLTERMAN. 1973. The feeding behavior of Daphnia magna, studied with the Coulter counter. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 18: 1434-1440.
- KERSTING, K. and C. VAN DE LEEUW-LEEGWATER. 1976. Effect of food concentration on the respiration of Daphnia magna. *Hydrobiologia*, 49: 137-142.
- KIBBY, H. V. 1971a. Effect of temperature on the feeding behavior of Daphnia rosea. *Limnology and Oceanography*, 16: 580-581.
- KIBBY, H. V. 1971b. Energetics and population dynamics of Diaptomus gracilis. *Ecological Monographs*, 41: 311-327.
- KIBBY, H. V. and F. H. RIGLER. 1973. Filtering rates of Limnocalanus. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 18: 1457-1461.

- KIMMEL, B. L. 1978. Size distribution of autotrophic and heterotrophic microorganism activities in Lake Texoma (Oklahoma-Texas). Paper presented at the 5th Annual Great Plains Limnology Meeting, 1978, Lincoln, Nebraska.
- KING, C. E. 1967. Food, age and the dynamics of a laboratory population of rotifers. *Ecology*, 48: 111-128.
- KITITSYNA, L. A. 1975. Feeding rates of Pontogammarus robustoides at different temperatures. *Hydrobiological Journal*, 11: 35-40.
- KLEKOWSKI, R. Z. 1970. Bioenergetic budgets and their application for estimation of production efficiency. *Polskie Archiwum Hydrobiologii*, 17: 55-80.
- KLEKOWSKI, R. Z. and E. A. SHUSHKINA. 1966a. The energetic balance of Macrocyclops albidus (Jurine) during the period of its development. In: Ekologiya Vodnykh Organizmov. Akademiya Nauk SSSR. Izdatel'stvo "Nauka", Moskva, p. 125-136. (The Ecology of Aquatic Organisms. Published by "Science," Moscow.) (English translation available as Fisheries Research Board of Canada Translation Series No. 1031, 1968, 20 p.)
- KLEKOWSKI, R. A. and E. A. SHUSHKINA. 1966b. Ernährung, Atmung, Wachstum und Energie-Umformung in Macrocyclops albidus (Jurine). *International Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 16: 399-418. (English translation available as Fisheries Research Board of Canada Translation Series No. 1034, 1968, 26 p.)
- KLEKOWSKI, R. Z., E. FISCHER, Z. FISCHER, M. IVANOVA, T. PRUS, A. SHUSHKINA, T. STACHURSKA, Z. STEPIEN, and H. ZYROMSKI-RUDZKA. 1972. Energy budgets and energy transformation efficiencies of several animal species of different feeding types. In: Productivity Problems of Freshwaters, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, P. 749-763.
- KNAUTHE, K. 1907. *Dass Susswasser, chemische, biologische, und bakteriologische Untersuchungsmethoden unter besonderer Berucksichtigung der Biologie und der Fischereiwirtschaftlichen Praxis*. J. Neumann, Neudamm, 663 p.
- KNIGHT, A. W. and A. R. GAUFIN. 1966. Oxygen consumption of several species of stoneflies (Plecoptera). *Journal of Insect Physiology*, 12: 347-355.
- KORNIYENKO, G. S. 1976. Contribution of infusoria to the nutrition of Acanthocyclops vernalis and Cyclops vicinus. *Hydrobiological Journal*, 12: 62-65.



- KREMER, J. N. 1975. Analysis of a plankton-based temperate ecosystem: An ecological simulation model of Narragansett Bay. Ph.D. thesis, University of Rhode Island.
- KREY, J. 1958. Chemical determination of net plankton, with special reference to equivalent albumin content. *Journal of Marine Research*, 17: 312-324.
- KRING, R. L. and W. J. O'BRIEN. 1976. Accommodation of Daphnia pulex to altered pH conditions as measured by feeding rate. *Limnology and Oceanography*, 21: 313-315.
- KRISHNAMURTHY, K. 1962. Phosphorus in plankton. *Journal of the Zoological Society of India*, 14: 161-164.
- KROGER, R. L. 1974. Invertebrate drift in the Snake River, Wyoming. *Hydrobiologia*, 44: 369-380.
- KROGH, A. 1914. The quantitative relation between temperature and standard metabolism in animals. *Internationale Zeitschrift fuer Physiologie-Chemie Biologie*, 1: 491-508.
- KRYUTCHKOVA, N. M. 1974. The content and size of food particles consumed by filter-feeding planktonic animals. *Hydrobiological Journal*, 10: 89-94.
- KRYUTCHKOVA, N. M. and V. G. KONDRATYUK. 1966. The dependence of the feeding filtration rate of some types of Cladocera on temperature. *Doklady Akademii Nauk Belorusskii SSR*, 10: 120-123 (in Russian).
- KRYUTCHKOVA, N. M. and V. K. RYBAK. 1974. Growth of Eudiaptomus graciloides (Lill.) under different feeding conditions. *Hydrobiological Journal*, 10: 30-36.
- KRYUTCHKOVA, N. M. and V. SLADCEK. 1969. Quantitative relations of the feeding and growth of Daphnia pulex obtusa (Kurz) Scourfield. *Hydrobiologia*, 33: 47-64.
- KUZNETSOV, S. I., V. I. ROMANENKO, and N. S. KARPOVA. 1966. Bacterial population and production of organic matter in the Rybinsk Reservoir in 1963 and 1964. *Trudy Instituta Biologii Vnutrennikh Vod Akademii Nauk SSSR*, 13(16). English translation in: Production and Circulation of Organic Matter in Inland Waters, B. K. Shtegman (ed.), Israel Program for Scientific Translations, Jerusalem, 1969, p. 121-126.
- LACKEY, R. T. 1975. Recreational fisheries management and ecosystem modeling. Virginia Polytechnic Institute and State University, Division of Forestry and Wildlife, Blacksburg, Virginia, FWS-4-75, 44 p.

- LAMPERT, W. 1974. A method for determining food selection by zooplankton. *Limnology and Oceanography*, 19: 995-998.
- LAMPERT, W. 1975. A tracer study on the carbon turnover of Daphnia pulex. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 19: 2913-2921.
- LAMPERT, W. 1978. Release of dissolved organic carbon by grazing zooplankton. *Limnology and Oceanography*, 23: 831-834.
- LANCE, J. 1965. Respiration and osmotic behavior of the copepod Acartia tonsa in diluted sea water. *Comparative Biochemistry and Physiology*, 14: 155-165.
- LANDRY, M. R. 1978. Predatory feeding behavior of a marine copepod, Labidocera trispinosa. *Limnology and Oceanography*, 23: 1102-1113.
- LAROW, E. J., J. W. WILKINSON, and K. D. KUMAR. 1975. The effect of food concentration and temperature on respiration and excretion of herbivorous zooplankton. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 19: 966-973.
- LASENBY, D. C. and R. R. LANGFORD. 1972. Growth, life history, and respiration of Mysis relicta in an arctic and temperate lake. *Journal of the Fisheries Research Board of Canada*, 29: 1701-1708.
- LASKER, R. 1960. Utilization of organic carbon by a marine crustacean: Analysis with C-14. *Science (Washington, D. C.)*, 131: 1098-1100.
- LASKER, R. 1966. Feeding, growth, respiration, and carbon utilization of a euphausiid crustacean. *Journal of the Fisheries Research Board of Canada*, 23: 1291-1317.
- LASSITER, R. R. 1975. Modeling dynamics of biological and chemical components of aquatic ecosystems. U. S. Environmental Protection Agency, Office of Research and Development, National Environmental Research Center, Corvallis, Oregon, EPA-660/3-75-012, 54 p.
- LAWTON, J. H. 1970. Feeding and food energy assimilation in larvae of the damselfly Pyrrosoma nymphula (Sulz.) (Odonata: Zygoptera). *Journal of Animal Ecology*, 39: 669-689.
- LAWTON, J. H. 1971. Ecological energetics studies on larvae of the damselfly Pyrrosoma nymphula (Sulzer) (Odonata: Zygoptera). *Journal of Animal Ecology*, 40: 385-423.
- LAWTON, J. H. and J. RICHARDS. 1970. Comparability of Cartesian diver, Gilson, Warburg, and Winkler methods of measuring the respiratory rates of aquatic invertebrates in ecological studies. *Oecologia (Berlin)*, 4: 319-324.

- LEFEVRE, M. 1942. L'utilisation des algues d'eau douce par les Cladoceres. Bulletin Biologique de la France et de la Belgique, 76: 250-276.
- LEFEVRE, M. 1950. Aphanizamenon gracile Lem. Cyanophyte defavorable au zooplankton. Annales de la Station Centrale de Hydrobiologie Appliquee, 3: 205-208.
- LEVINS, R. 1966. The strategy of model building in population biology. American Scientist, 54: 421-431.
- LEVENS, R. 1968. Ecological engineering: Theory and practice. Quarterly Revue of Biology, 43: 301-305.
- LIEBERMAN, M. E. 1970. The response of Miona brachiata (Jurine) 1820 to biological oxygen demand, oxygen and light. Hydrobiologia, 36: 9-16.
- LIND, O. T. 1971. The organic matter budget of a central Texas reservoir. In: Reservoir Fisheries and Limnology, G. E. Hall (ed.) Special Publication No. 8, American Fisheries Society, p. 193-202.
- LINGANE, J. J. 1961. Chromopotentialmetric study of oxygen reduction at a platinum wire cathode. Journal of Electroanalytical Chemistry, 2:296-309.
- LIPEROVSKAYA, Y. S. 1948. The nutrition of freshwater Ostracoda. Zoologicheskii Zhurnal, 27: ? (in Russian).
- LUFEROVA, L. A. and Y. I. SOROKIN. 1970. The role of Ostracoda in food chains of Rybinsk Reservoir. Cited by Monakov (1972) as in press.
- MaccORMICK, A. J. A., O. L. LOUCKS, J. F. KOONCE, J. F. KITCHELL, and P. R. WEILER. 1972. An ecosystem model for the pelagic zone of Lake Wingra. Eastern Deciduous Forest Biome IBP Memo Report 72-122, 103 p.
- MaccORMICK, A. J. A., O. L. LOUCKS, J. F. KOONCE, J. F. KITCHELL, and P. R. WEILER. 1974. An ecosystem model for the pelagic zone of Lake Wingra. Oak Ridge National Laboratory, Eastern Deciduous Forest Biome, EDFB-IBP 74-7, 93 p.
- MACKAS, D. and R. BOHRER. 1976. Fluorescence analysis of zooplankton gut contents and an investigation of diel feeding patterns. Journal of Experimental Marine Biology and Ecology, 25: 77-85.

- MALE, L. M. 1973. A temporal-spatial model for studying nutrient cycling dynamics of a phytoplankton production system. Part 1. Development of model. University of Washington, Seattle, Center for Quantitative Science. Paper 35, 29 p.
- MALONE, C. R. and D. J. NELSON. 1969. Feeding rates of freshwater snails (Goniobasis clavaeformis) determined with cobalt 60. *Ecology*, 50: 728-730.
- MALOVITSKAYA, L. M. and Y. I. SOROKIN. 1961. Experimental investigation of nutrition in Diaptomus (Crustacea, Copepoda) with carbon-14. *Trudy Instituta Biologii Vodokhranilishcha Akademii Nauk SSSR*, 4: 262-272 (in Russian).
- MANUILOVA, E. F. 1958. The question of the role of bacterial numbers in the development of Cladocera in natural conditions. *Doklady Akademii Nauk SSSR Biological Science Section*, 120: 438-441.
- MARCHANT, R. and W. D. WILLIAMS. 1977. Population dynamics and production of a brine shrimp, Parartemia zietziana Sayce (Crustacea: Anostraca), in two salt lakes in Western Victoria, Australia. *Australian Journal of Marine and Freshwater Research*, 28: 417-438.
- MARSHALL, S. M. 1973. Respiration and feeding in copepods. In: Advances in Marine Biology, Vol 11, F. S. Russell and M. Yonge (eds.), Academic Press, Inc., New York, p. 57-120.
- MARSHALL, S. M., A. D. NICHOLLS, and A. P. ORR. 1935. On the biology of Calanus finmarchicus. VI. Oxygen consumption in relation to environmental conditions. *Journal of the Marine Biological Association of the United Kingdom*, 20: 1-28.
- MARSHALL, S. M. and A. P. ORR. 1952. On the biology of Calanus finmarchicus. VII. Factors affecting egg production. *Journal of the Marine Biological Association of the United Kingdom*, 30: 527-537.
- MARSHALL, S. M. and A. P. ORR. 1955a. On the biology of Calanus finmarchicus. VIII. Food uptake, assimilation and excretion in adult and Stage V Calanus. *Journal of the Marine Biological Association of the United Kingdom*, 34: 495-529.
- MARSHALL, S. M. and A. P. ORR. 1955b. The Biology of a Marine Copepod, Calanus finmarchicus (Gunnerus), Oliver and Boyd, Edinburgh, 188 p.
- MARSHALL, S. M. and A. P. ORR. 1956. On the biology of Calanus finmarchicus. IX. Feeding and digestion in the young stages. *Journal of the Marine Biological Association of the United Kingdom*, 35: 587-603.

- McALLISTER, D. C. 1970. Zooplankton rations, phytoplankton mortality and estimation of marine production. In: Marine Food Chains, J. H. Steele (ed.), University of California Press, Berkeley, p. 419-457.
- McCULLOUGH, D. A. 1975. The bioenergetics of three aquatic insects determined by radioisotope analysis. Battelle Pacific Northwest Laboratories, Richland, Washington, Report BNWL-1928, 219 p.
- McDIFFETT, W. F. 1970. The transformation of energy by a stream detritivore Pteronarcys scotti (Plecoptera). *Ecology*, 51: 975-988.
- McMAHON, J. W. 1965. Some physical factors influencing the feeding behavior of Daphnia magna Straus. *Canadian Journal of Zoology*, 43: 603-611.
- McMAHON, J. W. 1968. Environmental factors influencing the feeding behavior of Daphnia magna Straus. *Canadian Journal of Zoology*, 46: 759-762.
- McMAHON, J. W. and F. H. RIGLER. 1963. Mechanisms regulating the feeding rate of Daphnia magna Straus. *Canadian Journal of Zoology*, 41: 321-332.
- McMAHON, J. W. and F. H. RIGLER. 1965. Feeding rate of Daphnia magna Straus in different foods labelled with radioactive phosphorus. *Limnology and Oceanography*, 10: 105-113.
- McQUEEN, D. J. 1969. Reduction of zooplankton standing stocks by predaceous Cyclops bicuspidatus thomasi in Marion Lake, British Columbia. *Journal of the Fisheries Research Board of Canada*, 26: 1605-1618.
- McQUEEN, D. J. 1970. Grazing rates and food selection of Diaptomus oregonensis (Copepoda) from Marion Lake, British Columbia. *Journal of the Fisheries Research Board of Canada*, 27: 13-20.
- MENSHUTKIN, V. V. 1971. Development trends in methods used to model populations and communities. In: Communities, Nauka, Leningrad (English translation available from U. S. Department of Commerce, National Technical Information Service, as TT-73-55111, 1975, 306 p.).
- MENSHUTKIN, V. V. and A. A. UMNNOV. 1970. A mathematical model of a very simple aquatic ecosystem. *Hydrobiological Journal*, 6: 18-23.
- MEYER, J. A. 1914. Beitrage zur Kenntnis der chemischen Zusammensetzung wirbellosen Tiere. *Wissenschaftliche Meeresuntersuchungen*, 16: 233.
- MICHAELIS, L. and M. L. MENTEN. 1913. *Biochemische Zeitschrift*, 49: 333.

- MIKHEEV, V. P. 1966. Rate of filtration of water by Dreissena. Trudy Instituta Biologii Vntrennikh Vod Akademii Nauk SSR, 12(15). English translation in: Plankton and Benthos of Inland Waters, B. K. Shtegman (ed.), Israel Program for Scientific Translations, Jerusalem, 1969, p. 150-155.
- MITROPOL'SKII, V. I. 1966. Mechanism of filtration and feeding of sphaeriids (Mollusca, Lamellibranchia). Trudy Instituta Biologii Vntrennikh Vod Akademii Nauk SSSR, English translation in: Plankton and Benthos of Inland Waters, B. K. Shtegman (ed.), Israel Program for Scientific Translations, Jerusalem, 1969, p. 143-149.
- MONAKOV, A. V. 1972. Review of studies on feeding of aquatic invertebrates conducted at the Institute of Inland Waters, Academy of Science, USSR. Journal of the Fisheries Research Board of Canada, 29: 363-383.
- MONAKOV, A. V. and Y. I. SOROKIN. 1960. An experimental investigation of Daphnia nutrition using  $C^{14}$ . Doklady Akademii Nauk SSSR, 135: 1516-1518 (English translation in Doklady Adademii Nauk SSSR Biological Science Section, 135: 925-926, 1961).
- MONAKOV, A. V. and Y. I. SOROKIN. 1961. Quantitative data on the feeding of daphnids. Trudy Instituta Biologii Vodokhranilishcha Akademii Nauk SSSR, 4: 251-261 (in Russian).
- MONAKOV, A. V. and Y. I. SOROKIN. 1972. Some results on investigations on nutrition of water animals. In: Productivity Problems of Freshwaters, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, p. 767-773.
- MORTON, B. 1971. Studies on the biology of Dreissena polymorpha Pall. V. Some aspects of filter-feeding and the effect of micro-organisms upon the rate of filtration. Proceedings of the Malacological Society of London, 39: 289-301.
- MOSHIRI, G. A., K. W. CUMMINS, and R. R. COSTA. 1969. Respiratory energy expenditures by the predaceous zooplankter Leptodora kindtii (Focke) (Crustacea: Cladocera). Limnology and Oceanography, 14: 475-484.
- MOSHIRI, G. A., C. R. GOLDMAN, G. L. GODSHALK, and D. R. MULL. 1970. The effects of variations in oxygen tension on certain aspects of respiratory metabolism in Pacifastacus leniusculus (Dana) (Crustacea: Decapoda). Physiological Zoology, 43: 23-29.
- MOSHIRI, G. A., C. R. GOLDMAN, D. R. MULL, G. L. GODSHALK, and J. A. COIL. 1971. Respiratory metabolism in Pacifastacus leniusculus (Dana) (Crustacea: Decapoda) as related to its ecology. Hydrobiologia, 37: 183-195.

- MOSKALENKO, B. K. and K. K. VOTINSEV. 1972. Biological productivity and balance of organic substance and energy in Lake Baikal. In: Productivity Problems of Freshwaters, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, p. 206-226.
- MULLIN, M. M. 1963. Some factors affecting the feeding of marine copepods of the genus Calanus. Limnology and Oceanography, 8: 239-250.
- MULLIN, M. M. and E. R. BROOKS. 1970. Growth and metabolism of two planktonic marine copepods as influenced by temperature and type of food. In: Marine Food Chains, J. H. Steele (ed.), University of California Press, Berkeley, p. 74-95.
- MULLIN, M. M., E. F. STEWART, and F. J. FOGLESTER. 1975. Ingestion by planktonic grazers as a function of concentration of food. Limnology and Oceanography, 20: 259-262.
- NAGELL, B. 1973. The oxygen consumption of mayfly (Ephemeroptera) and stonefly (Plecoptera) larvae at different oxygen concentrations. Hydrobiologia, 42: 461-489.
- NAUWERCK, A. 1959. Zur Bestimmung der Filtrierate limnischer Planktontiere. Archiv fuer Hydrobiologie Supplementband, 25: 83-101.
- NAUWERCK, A. 1963. Die Beziehungen zwischen Zooplankton und Phytoplankton im See Erken. Symbolae Botanicae Upsalienses, 17: 1-163.
- NEBEKER, A. V. 1972. Effect of low oxygen concentration on survival and emergence of aquatic insects. Translations of the American Fisheries Society, 101: 625-679.
- NEGUS, C. 1966. A quantitative study of growth and production of unionid mussels in the River Thames at Reading. Journal of Animal Ecology, 35: 513-532.
- NEMOTO, T., J. MAUCLINE, and K. KAMADA. 1976. Brood size and chemical composition of Pareuchaeta nowegica (Crustacea: Copepoda) in Loch Etuie, Scotland. Marine Biology (Berlin), 36: 151-157.
- NILSSON, L. M. 1974. Energy budget of a laboratory population of Gammarus pulex (Amphipoda). Oikos, 25: 35-42.
- O'BRIEN, W. J. and F. DeNOYELLES, Jr. 1974. Filtering rate of Ceriodaphnia reticulata in pond waters of varying phytoplankton concentrations. American Midland Naturalist, 91: 508-512.

- ODUM, E. P. 1971. Fundamentals of Ecology, W. B. Saunders Co., Philadelphia, 574 p.
- ODUM, E. P. and A. A. DE LA CRUZ. 1963. Detritus as a major component of ecosystems. Bulletin of the American Institute of Biological Sciences, 13: 39-40.
- ODUM, E. P. and A. E. SMALLEY. 1959. Comparison of population energy flow of a herbivorous and a deposit feeding invertebrate in a salt marsh ecosystem. Proceedings of the National Academy of Sciences of the United States of America, 45: 617-622.
- OLAH, J. 1976. Energy transformation by Tanytus punctipennis (Meig.) (Chironomidae) in Lake Balaton. Annales Instituti Biologici (Tihany) Hungaricae Academiae Scientiarum, 43: 83-92.
- OMORI, M. 1969. Weight and chemical composition of some important oceanic zooplankton in the North Pacific Ocean. Marine Biology (Berlin), 3: 4-10.
- OMORI, M. 1970. Variations of length, weight, respiratory rate, and chemical composition of Calanus cristatus in relation to its food and feeding. In: Marine Food Chains, J. H. Steele (ed.), University of California Press, Berkeley, p. 113-126.
- OMORI, M. 1978. Some factors affecting on dry weight, organic weight and concentrations of carbon and nitrogen in freshly prepared and in preserved zooplankton. Internationale Revue der Gesamten Hydrobiologie, 63: 261-269.
- OSTAPENYA, A. P., G. A. PECHEN', V. A. BIBITSKII, and A. P. PAVLYUTIN. 1969. Metabolism intensity of Diaptomus graciloides (Lill.) at a low temperature. Hydrobiological Journal, 5: 88-91.
- OTTO, C. 1975. Energetic relationships of the larval population of Potamophylax cingulatus (Trichoptera) in a south Swedish stream. Oikos, 26: 159-169.
- OTTO, R. G. 1974. The effects of acclimation to cyclic thermal regions on heat tolerance of the western mosquitofish. Transactions of the American Fisheries Society, 103: 331-335.
- OVERBECK, J. 1972. Distribution pattern of phytoplankton and bacteria, microbial decomposition of organic matter and bacterial production in a eutrophic, stratified lake. In: Productivity Problems of Freshwaters, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, P. 227-237.



- PAERL, H. W. 1973. Detritus in Lake Tahoe: Structural modification by attached microflora. *Science* (Washington, DC), 180: 496-498.
- PAERL, H. W. 1974. Bacterial uptake of dissolved organic matter in relation to detrital aggregation in marine and freshwater systems. *Limnology and Oceanography*, 19: 966-972.
- PAFFENHOFER, G. A. 1971. Grazing and ingestion rates of nauplii, copepods and adults of the marine planktonic copepod Calanus helgolandicus. *Marine Biology* (Berlin), 11: 286-298.
- PAFFENHOFER, G. A. 1976. Feeding, growth, and food conversion of the marine planktonic copepod Calanus helgolandicus. *Limnology and Oceanography*, 21: 39-50.
- PAFFENHOFER, G. A. and J. D. H. STRICKLAND. 1970. A note on the feeding of Calanus helgolandicus on detritus. *Marine Biology* (Berlin), 5: 97-99.
- PALMER, M. F. 1968. Aspects of the respiratory physiology of Tubifex tubifex in relation to its ecology. *Journal of the Linnean Society of London Zoology*, 154: 463-473.
- PARK, R. A., D. SCAVIA, and N. L. CLESCERI. 1974. Cleaner, the Lake George model. Rensselaer Fresh Water Institute at Lake George, Eastern Deciduous Forest Biome IBP Contribution No. 186, 32 p.
- PARKER, R. A. 1973. Some problems associated with computer simulation of an ecological system. In: The Mathematical Theory of the Dynamics of Biological Populations, M. S. Bartlett and R. W. Hiorns (eds.), Academic Press, Inc., New York, p. 269-288.
- PARSONS, T. R., R. J. LeBRASSEUR, and J. D. FULTON. 1967. Some observations on the dependence of zooplankton grazing on the cell size and concentration of phytoplankton blooms. *Journal of the Oceanographical Society of Japan* (Nippon Kaiyo Gakkaishi), 23, 10-17.
- PATTEN, B. C., D. A. EGLOFF, T. H. RICHARDSON et al. 1975. Total ecosystem model for a cove in Lake Texoma. In: Systems Analysis and Simulation in Ecology, B. C. Patten (ed.), Academic Press, Inc., New York, p. 205-421.
- PECHEN'-FINENKO, G. A. 1971. Efficiency of assimilation of food by plankton crustaceans. *Ekologiya*, 3: 64-72 (in Russian).
- PECHEN'-FINENKO, G. A. 1973. Effect of food concentration on the efficiency of its assimilation by planktonic crustaceans with different feeding habits. *Hydrobiological Journal*, 9: 265-271.

- PECHEN'-FINENKO, G. A. 1977. Efficiency of food assimilation by planktonic crustaceans in different trophic conditions. *Zoologicheskii Zhurnal*, 56: 1458-1465 (English translation available as Fisheries and Marine Service of Canada Translation Series No. 4188, 1978, 13 p.).
- PECHLANDER, R., G. BRETSCHKO, P. GOLLMANN, H. PFEIFER, M. TILZER, and H. P. WEISSENBACH. 1972. The production processes in two high-mountain lakes (Vorderer and Hinterer Finstertaler See, Kuhtai, Austria). In: *Productivity Problems of Freshwaters*, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, p. 239-269.
- PENNAK, R. W. 1964. *Collegiate Dictionary of Zoology*, Ronald Press Co., New York, 583 p.
- PENNAK, R. W. and W. N. ROSINE. 1976. Distribution and ecology of Amphipoda (Crustacea) in Colorado. *American Naturalist*, 96: 324-331.
- PETIPA, T. S. 1967. On the efficiency of utilization of energy in pelagic ecosystems of the Black Sea. In: *Struktura i dinamika vodnykh soobshchestv i populyatsii*, Respublikanskii Mezhvedomstvennyi Sbornik, Seriya "Biologiya Morya," Akademii Nauk Ukrainskoi SSR, p. 44-64 (English translation available as Fisheries Research Board of Canada Translation Series No. 973, 1967, 34 p.).
- PETIPA, T. S., E. V. PAVLOVA, and G. N. MIRONOV. 1970. The food structure, utilization and transport of energy by trophic levels in the planktonic communities. In: *Marine Food Chains*, J. H. Steele (ed.), University of California, Berkeley, p. 142-167.
- PETITPREN, M. F. and A. W. KNIGHT. 1970. Oxygen consumption of the dragonfly, *Anax junius*. *Journal of Insect Physiology*, 16: 449-459.
- PHILLIPSON, J. 1970. The "best estimate" of respiratory metabolism: Its applicability to field situations. *Polskie Archiwum Hydrobiologii*, 17: 31-41.
- PILARSKA, J. 1977a. Eco-physiological studies on *Brachionus rubens* Ehrbg (Rotatoria). I. Food selectivity and feeding rate. *Polskie Archiwum Hydrobiologii*, 24: 319-328.
- PILARSKA, J. 1977b. Eco-physiological studies on *Brachionus rubens* Ehrbg (Rotatoria). III. Energy balances. *Polskie Archiwum Hydrobiologii*, 24: 343-354.
- PILARSKA, J. 1977c. Eco-physiological studies of *Brachionus rubens* Ehrbg. (Rotatoria). II. Production and respiration. *Polskie Archiwum Hydrobiologii*, 24: 329-341.

- PLATT, T., V. M. BRAWN, and B. IRWIN. 1969. Caloric and carbon equivalents of zooplankton biomass. *Journal of the Fisheries Research Board of Canada*, 26: 2345-2349.
- PLATT, T. and B. IRWIN. 1973. Caloric content of phytoplankton. *Limnology and Oceanography*, 18: 306-310.
- PLOSKEY, G. R. 1978. Drift of Baetis flavistriga as a result of feeding activity and in relation to larval density. University of Arkansas, Fayetteville, Arkansas. M.S. Thesis, 46 pp.
- POMEROY, L. R., H. M. MATHEWS, and H. S. MIN. 1963. Excretion of phosphate and soluble organic phosphorus compounds by zooplankton. *Limnology and Oceanography*, 8: 50-55.
- PORTER, K. G. 1973. Selective grazing and differential digestion of algae by zooplankton. *Nature (London)*, 224: 179-180.
- PORTER, K. G. 1975. Viable gut passage of gelatinous green algae ingested by Daphnia. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 19: 2840-2850.
- POULET, S. A. 1976. Feeding of Pseudocalanus minutus on living and non-living particles. *Marine Biology (Berlin)*, 34: 117-125.
- POULET, S. A. 1977. Grazing of marine copepod developmental stages on naturally occurring particles. *Journal of the Fisheries Research Board of Canada*, 34: 2381-2387.
- POURRIOT, R. 1973. Effect of protein content, temperature and fasting on the respiration of leleoplanktonic Rotifera. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 18: 1429-1433.
- POURRIOT, R. 1977. Food and feeding habits of Rotifera. *Archiv fuer Hydrobiologie Beihefte, Ergebnisse der Limnologie*, 8: 243-260.
- PROSSER, C. L. and F. A. BROWN. 1961. Comparative Animal Physiology, Saunders, Philadelphia, Pennsylvania, 688 p.
- PRUS, T. 1971. The assimilation efficiency of Asellus aquaticus L. (Crustacea, Isopoda). *Freshwater Biology*, 1: 287-305.
- PRUS, T. 1972. Energy requirement, expenditure, and transformation efficiency during development of Asellus aquaticus L. (Crustacea, Isopoda). *Polskie Archiwum Hydrobiologii*, 19: 97-112.
- PRUS, T. 1976. Experimental and field studies on ecological energetics of Asellus aquaticus L. (Isopoda). I. Assimilability of lipids, proteins and carbohydrates. *Ekologia Polska Seria A*, 24: 461-472.

- RANSOM, J. D., F. L. RAINWATER, and C. G. BEAMES, Jr. 1971. A note on the metabolism of two Diptera larvae, Chaoborus punctipennis and Chironomus plumosus. Proceedings of the Oklahoma Academy of Sciences, 49; 215-217.
- RAZOULS, S. 1977. Analysis of weight, chemical composition and calorific values in juvenile stages of pelagic copepods over a one year period. Journal of Experimental Marine Biology and Ecology, 26: 265-273.
- REEVE, M. R., J. E. G. RAYMONT, and J. K. B. RAYMONT. 1970. Seasonal biochemical composition and energy sources of Sagitta hispida. Marine Biology (Berlin), 6: 357-364.
- RICHMAN, S. 1958. The transformation of energy by Daphnia pulex. Ecological Monographs, 28: 273-291.
- RICHMAN, S. 1964. Energy transformation studies on Diaptomus oregonensis. Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen, 15: 654-659.
- RICHMAN, S. 1966. The effect of phytoplankton concentration on the feeding rate of Diaptomus oregonensis. Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen, 16: 392-398.
- RICKER, W. F. (ed.) 1968. Methods for Assessment of Fish Production in Fresh Waters, IBP Handbook No. 3, Blackwell Scientific Publishers, Oxford and Edinburge, 313 p.
- RIGLER, F. H. 1961a. The relation between concentration of food and feeding rate of Daphnia magna Straus. Canadian Journal of Zoology, 39: 857-868.
- RIGLER, F. H. 1961b. The uptake and release of inorganic phosphorus by Daphnia magna Straus. Limnology and Oceanography, 6: 165-174.
- RIGLER, F. H. 1971. Zooplankton. In: A Manual on Methods for the Assessment of Secondary Productivity in Fresh Waters, W. T. Edmondson and G. G. Winberg (eds.), Blackwell Scientific Publications, Oxford, p. 228-255.
- RILEY, G. A. 1970. Particulate organic matter in seawater. In: Advances in Marine Biology Vol. 8, Academic Press, Inc., New York, p. 1-118.
- RINGELBERG, J. 1964. The positively phototactic reaction of Daphnia magna Straus, a contribution to the understanding of diurnal vertical migration. Netherlands Journal of Sea Research, 2: 319-406.

- RODINA, A. G. 1963. Micorbiology of detritus of lakes. *Limnology and Oceanography*, 8: 388-393.
- RODINA, A. G. 1966. Nutritive importance and structure of detritus. In: Biologicheskie Resursy Vodoemov, Puti Ikh Rekonstruktsii i Ispol'Zovaniya, Izdatel'Stvo "Nauka," Moscow, p. 35-42 (English translation available as National Research Council of Canada Technical Translation 1625, 1972, 11 p.
- ROFF, J. C. 1973. Oxygen consumption of Limnocalanus macrurus Sars (Calanoida, Copepoda) in relation to environmental conditions. *Canadian Journal of Zoology*, 51: 877-885.
- ROMANENKO, V. I. 1966. Microbiological processes in the formation and breakdown of organic matter in the Rybinsk Reservoir. *Trudy Instituta Biologii Vntrennikh Vod Akademii Nauk SSSR*, 13(16). English translation in: Production and Circulation of Organic Matter in Inland Waters, B. K. Shtegman (ed.), Israel Program for Scientific Translations, Jerusalem, 1969, p. 137-158.
- ROSS, G. C. and P. NIVAL. 1976. Plankton modeling in the Bay of Villefranche. *Journal of Theoretical Biology*, 56; 381-399.
- RUEGER, M. E., T. A. OLSON, and J. I. SCOFIELD. 1969. Oxygen requirements of benthic insects as determined by manometric and polarographic techniques. *Water Research*, 3: 99-120.
- RYTHER, J. H. 1954. Inhibitory effects of phytoplankton upon the feeding of Daphnia magna with reference to growth, reproduction, and survival. *Ecology*, 35: 522-533.
- SALONEN, K. and J. SARVALA. 1978. Estimation of the inorganic fraction of total carbon in aquatic invertebrates. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 20: 1221-1225.
- SALONEN, K., J. SARVALA, I. HAKALA, and M. VILJANEN. 1976. The relation of energy and organic carbon in aquatic invertebrates. *Limnology and Oceanography*, 21: 724-730.
- SATOMI, M. and L. R. POMEROY. 1965. Respiration and phosphorus excretion in some marine populations. *Ecology*, 46: 877-881.
- SCAVIA, D. 1979. The use of ecological models of lakes in synthesizing available information and identifying research needs. In: Perspectives on Lake Ecosystem Modeling, D. Scavia and A. Robertson (eds.), Ann Arbor Science Publishers, Inc., Ann Arbor, p. 109-168.

- SCAVIA, D., J. A. BLOOMFIELD, J. S. FISHER, J. NAGY, and R. A. PARK. 1974. Documentation of CLEANX: A generalized model for simulating the open-water ecosystems of lakes. *Simulation*, 24: 51-56.
- SCAVIA, D., B. J. EADIE, and A. ROBERTSON. 1976. An ecological model for Lake Ontario. Model formulation, calibration, and preliminary evaluation. U. S. National Oceanic and Atmospheric Administration, Environmental Research Laboratories, Boulder, Colorado, NOAA-TR-ERL 371-GLERL 12, 64 p.
- SCAVIA, D. and A. ROBERTSON (eds.). 1979. Perspectives on Lake Ecosystem Modeling, Ann Arbor Science Publishers, Inc., Ann Arbor, 326 p.
- SCHINDLER, D. W. 1968. Feeding, assimilation and respiration rates of Daphnia magna under various environmental conditions and their relation to production estimates. *Journal of Animal Ecology*, 37: 369-385.
- SCHINDLER, J. E. 1971. Food quality and zooplankton nutrition. *Journal of Animal Ecology*, 40: 589-595.
- SCHINDLER, J. E. and G. W. COMITA. 1966. The feeding rate of Diaptomus leptopus. *Proceedings of the North Dakota Academy of Science*, 20: 125-130.
- SCHOTTELIUS, B. A. and D. D. SCHOTTELIUS. 1973. Textbook of Physiology, Mosby Co., St. Louis, 590 p.
- SEDELL, J. R. 1971. The trophic ecology and natural history of Neophylax concinnus and N. oligius (Trichoptera: Limnophilidae). Ph.D. Thesis, University of Pittsburg, Pittsburg, Pennsylvania, 154 p.
- SEMENOVA, L. M. 1974. The feeding habits of Bosmina coregoni Baird (Cladocera). *Hydrobiological Journal*, 10: 28-34.
- SHEANON, M. J. and F. B. TRAMA. 1972. Influence of phenol and temperature on the respiration of a freshwater snail: Helisoma trivolvis. *Hydrobiologia*, 40: 321-328.
- SHERBERGER, F. F., E. F. BENFIELD, L. L. DICKSON, and J. CAIRNS, Jr. 1977. Effects of thermal shocks on drifting aquatic insects: A laboratory simulation. *Journal of the Fisheries Research Board of Canada*, 34: 529-536.
- SHUSHKINA, E. A., S. I. ANISIMOV, and R. Z. KLEKOWSKI. 1968. Calculation of production efficiency in plankton copepods. *Polskie Archiwum Hydrobiologii*, 15: 251-261.

- SHUSHKINA, E. A. and R. Z. KLEKOWSKI. 1968. The relation between the feeding, growth and metabolism of Macrocyclus albidus Jur. (Copepoda) and food conditions and actual zooplankton production in lakes of various types. *Zoologicheskii Zhurnal*, 47: 525-533. (English translation available as Fisheries Research Board of Canada Translation Series No. 1197, 1968, 23 p.)
- SHUSHKINA, E. A. and G. A. PECEN'. 1964. Food rations and its assimilation by carnivorous Cyclops and Daphnia longispina; determination with the radiocarbon method. In: *Trudy 10 Nauk Konf. po Vnutrennyh Vodoemah Pribaltiki*, Minsk, p. 312-322. (in Russian)
- SIEBECK, O. 1960. Untersuchungen über die Vertikalwanderung planktischer Crustacean unter Berücksichtigung der Strahlungsverhältnisse. *International Revue der Gesamten Hydrobiologie*, 45: 381-454.
- SIEBURTH, J. and V. SMETACEK. 1978. Pelagic ecosystem structure: Heterotrophic compartments of the plankton and their relationship to plankton size fractions. *Limnology and Oceanography*, 23: 1256-1263.
- SIEFKEN, M. and K. B. ARMITAGE. 1968. Seasonal variation in metabolism and organic nutrients in three Diaptomus (Crustacea: Copepoda). *Comparative Biochemistry and Physiology*, 24: 591-609.
- SIGMON, C. F., A. S. TOMBES, and L. TILLY. 1978. Diel oxygen uptake in Chaoborus punctipennis (Diptera: Chaoboridae). *Hydrobiologia*, 61: 69-73.
- SKOOG, G. 1976. Effects of acclimation and physiological state on the tolerance to high temperatures and reactions to desiccation of Theodoxus fluviatilis and Lymnea peregra. *Oikos*, 27: 50-56.
- SMIRNOV, N. N. 1962. Eurycercus lamellatus (O. F. Muller) (Chydoridae, Cladocera): Field observations and nutrition. *Hydrobiologia*, 20: 280-295.
- SMIRNOV, N. N. 1969. Morphological and functional bases for the mode of life of cladoceran crustaceans. II. The functional complex in chydorids (Chydoridae, Cladocera) ensuring the digestion of food. *Hydrobiological Journal*, 5: 32-36.
- SMITH, M. W. 1936. Notes on the food of Daphnia pulex De Geer in fertilized water. *Transactions of the American Fisheries Society*, 66: 287-290.

- SMITH, W. E. 1970. Tolerance of Mysis relicta to thermal shock and light. Transactions of the American Fisheries Society, 99: 418-422.
- SMITH, W. E. 1972. Culture, reproduction, and temperature tolerance of Pontoporeia affinis in the laboratory. Transactions of the American Fisheries Society, 101: 253-256.
- SMITH, W. E. 1973. Thermal tolerance of two species of Gammarus. Transactions of the American Fisheries Society, 102: 431-433.
- SOROKIN, Y. I. 1966a. Carbon-14 method in the study of nutrition of aquatic animals. International Revue der Gesamten Hydrobiologie, 51: 209-224.
- SOROKIN, Y. I. 1966b. Use of radioactive carbon for the study of the nutrition and food relationships of aquatic animals. Trudy Instituta Biologii Vntrennikh Vod Akademii Nauk SSSR, 12(15). English translation in: Plankton and Benthos of Inland Waters, B. K. Shtegman (ed.), Israel Program for Scientific Translations, Jerusalem, 1969, p. 83-132.
- SOROKIN, Y. I. 1969. The seasonal dynamics of the productivity of the plankton of the shore area and the open part of the Volga arm of the Rybinsk Reservoir. Biologiya Vnutrennykh Vod Informatsionii Byulleten', 3: 7-10. (in Russian)
- SOROKIN, Y. I. 1972. Biological productivity of the Rybinsk Reservoir. In: Productivity Problems of Freshwaters Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, p. 494-503.
- SOROKIN, Y. I. and E. D. MORDUKHAI-BOLTOVSKAYA. 1962. The study of the nutrition of the rotifer Asplanchna using C-14. Byulleten' Instituta Biologii Vodokhranilischa Akademii Nauk SSSR, 12: 17. (in Russian)
- SOUTHWARD, A. J. and E. C. SOUTHWARD. 1971. Observations on the role of dissolved organic compounds in the nutrition of benthic invertebrates. Sarsia, 50: 29-46.
- SOYZA, K. 1973. Energetics of Aphelenchus avenae in mono-azenic culture. Proceedings of the Helminthological Society of Washington, 40: 1-10.
- SPRAGUE, J. B. 1963. Resistance of four freshwater crustaceans to lethal high temperature and low oxygen. Journal of the Fisheries Research Board of Canada, 20: 387-415.



- STANCZYKOWSKA, A. and W. LAWACZ. 1976. Caloric value of the Dreissena polymorpha (Pall.) dry body weight in some Mazurian lakes. Polskie Archiwum Hydrobiologii, 23: 271-275.
- STARKWEATHER, P. L. 1975. Diel patterns of grazing in Daphnia pulex Leydig. International Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen, 19: 2851-2857.
- STARKWEATHER P. L. and J. J. GILBERT. 1977. Radiotracer determination of feeding in Brachionus calyciflorus: The importance of gut passage times. Archiv fuer Hydrobiologie Beihefte, Ergebnisse der Limnologie, 8: 261-263.
- STEELE, J. H. 1974. The Structure of Marine Ecosystems, Harvard University Press, Cambridge, 128 p.
- STEPANOVA, L. A. 1972. Rations of Mesocyclops leuckarti (Claus) and Leptodora kindtii (Focke) populations in Lake Ilmen. Hydrobiological Journal, 8: 70-72.
- STOCKMAYER, W. H. 1978. Data evaluation: A critical activity. Science (Washington, DC), 201: 1.
- STOCKNER, J. G. 1971. Ecological energetics and natural history of Hedriodiscus truquii (diptera) in two thermal spring communities. Journal of the Fisheries Research Board of Canada, 28: 73-94.
- STREIT, B. 1976. Energy flow in four different field populations of Ancylus fluviatilis (Gastropoda-Basommatophora). Oecologia (Berlin), 22: 261-273.
- STROSS, R. G., F. M. UNGER, J. C. JONES, and J. M. VAIL. 1965. Utilization of algae by Daphnia as influenced by cell senescence and UV irradiation. Purdue University Engineering Bulletin No. 118: 706-714.
- SUSHCHENYA, L. M. 1958a. Quantitative data on the filtration feeding of planktonic Crustacea. Doklady Vish. Shkoli Biol. Sci., 1: 16-20. (in Russian)
- SUSHCHENYA, L. M. 1958b. Dependence of filtration rate in planktonic Crustacea on the concentration of food particles. Trans. Biol. Sta. Lake Naroch, 1: 241-260. (in Russian)
- SUSHCHENYA, L. M. 1969. Quantitative relations of metabolism and transformation of matter and energy in Crustacea. Avtoreferat dissertatsii na soiskanie uchenoi stepeni doktora biologicheskikh nauk, Akademii Nauk SSSR. Inst. Okeanol. im P. P. Shirshov, 105: 3-42 (Author's abstract of doctoral thesis, published by the P. P. Shirshov Institute of Oceanology, USSR Academy of Sciences) English translation available as Fisheries Research Board of Canada Translation Series No. 1374, 1970, 78 p.).

- SUTCLIFFE, D. W., T. R. CARRICK, and W. H. MOORE. 1975. An automatic respirometer for determining oxygen uptake in crayfish (Austropotamobius pallipes (Lereboullet)) over periods of 3-4 days. *Journal of Experimental Biology*, 63; 673-688.
- SWARTZMAN, G. L. 1977. A comparison of plankton simulation models emphasizing their applicability to impact assessment. Center for Quantitative Science, College of Fisheries, University of Washington, Seattle, 38 p.
- SWARTZMAN, G. L. and R. BENTLEY. 1977. A comparison of plankton models with emphasis on application to assessing non-radiological nuclear plant impacts on plankton in natural ecosystems. Center for Quantitative Science, College of Fisheries, University of Washington, Seattle, 127 p.
- SWARTZMAN, G. L. and R. BENTLEY. 1978. A review and comparison of plankton simulation models. Center for Quantitative Science, College of Fisheries, University of Washington, Seattle, 69 p.
- SWEENEY, B. W. 1978. Bioenergetic and developmental response of a mayfly to thermal variation. *Limnology and Oceanography*, 23: 461-477.
- SWEENEY B. W. and J. A. SCHNACK. 1977. Egg development, growth, and metabolism of Sigara alternata (Say) (Hemiptera: Corixidae) in fluctuating thermal environments. *Ecology*, 58: 265-277.
- SWISS, J. J. and M. G. JOHNSTON. 1976. Energy dynamics of two benthic crustaceans in relation to diet. *Journal of the Fisheries Research Board of Canada*, 33: 2544-2550.
- TAGHON, G. L., R. F. L. SELF, and P. A. JUMARS. 1978. Predicting particle selection by deposit feeders: A model and its implications. *Limnology and Oceanography*, 23: 752-759.
- TEZUKA, Y. 1971. Feeding of Daphnia on planktonic bacteria. *Japanese Journal of Ecology* (Nippon Seitai Gakkaishi), 21: 127-134.
- THOMANN, R. V., D. M. DiTORO, R. P. WINFIELD, and D. J. O'CONNOR. 1975. Mathematical modeling of phytoplankton in Lake Ontario, Part 1. Model development and verification. U. S. Environmental Protection Agency, Corvallis, Oregon, EPA-660/3-75-005.
- THORNTON, K. W. AND J. R. SAUER. 1972. Physiological effects of NaCl on Chironomus attenuatus (Diptera: Chironomidae). *Annals of the Entomological Society of America*, 65: 872-875.
- THORNTON, K. W., and J. L. WILHM. 1975. The use of life tables in demonstrating the effects of pH, phenol, and NaCl on Chironomus attenuatus populations. *Environmental Entomology*, 4: 325-328.

- THORNTON, K. W. and A. S. LESSEM. 1978. A temperature algorithm for modifying biological rates. *Transactions of the American Fisheries Society*, 107: 284-287.
- TILZER, M. 1972. Bacterial productivity of a high mountain lake. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 18: 188-196.
- TONAPI, G. T. and H. N. MOHAN RAO. 1977. Effect of temperature on the oxygen consumption in the larvae of Dineutes indicus Aube (Gyrinidae, Coleoptera). *Hydrobiologia*, 53: 113-116.
- TRAMA, F. B. 1972. Transformation of energy by an aquatic herbivore (Stenonema pulchellum) Ephemeroptera. *Polskie Archiwum Hydrobiologii*, 19: 113-121.
- TULLY, J. P. 1936. The nutritive value of marine products. XIV. Proximate analyses of fresh British Columbia oysters. *Journal of the Biological Board of Canada*, 2: 477.
- ULANOSKI, J. T. and W. F. McDIFFETT. 1972. Diurnal variations in respiration of mayfly nymphs (Ephemeroptera). *Physiological Zoology*, 45: 97-105.
- UMBREIT, W. W., R. H. BURRIS, and J. F. STAUFFER. 1964. Manometric Techniques, 4th edition, Burgess Publ. Co., Minneapolis, Minnesota, 357 p.
- UMNOV, A. A. 1972. Mathematical model of the biotic cycle in a lake ecosystem. *Hydrobiological Journal*, 8: 1-8.
- VANNOTE, R. L. 1969. Detrital consumers in natural systems. In: The Stream Ecosystem, K. W. Cummins (ed.), Michigan State University Institute of Water Research Technical Report No. 7: 20-23.
- VINOGRADOV, A. P. 1933. La composition chimique elementaire des organismes vivants et le systeme periodique des elements chimiques. *Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences*, 197: 1673.
- VINOGRADOV, A. P. 1953. The Elementary Chemical Composition of Marine Organisms, Sears Foundation for Marine Research, Yale University Press, New Haven, 647 p.
- WALDBAUER, G. P. 1968. The consumption and utilization of food by insects. In: Advances in Insect Physiology, J. W. L. Beament, J. E. Treherne, and V. B. Wigglesworth (eds.), Academic Press, Inc., New York, p. 229-288.

- WALTERS, C. J. and I. E. EFFORD. 1972. Systems analysis in the Marion Lake IBP Project. *Oecologia* (Berlin), 11: 33-44.
- WATT, K. E. F. 1975. Critique and comparison of Biome ecosystem modeling. In: Systems Analysis and Simulation in Ecology Vol. III, B. C. Patton (ed.), Academic Press, Inc., New York, p. 139-152.
- WEBB, K. L. and R. E. JOHANNES. 1967. Studies of the release of dissolved free amino acids by marine zooplankton. *Limnology and Oceanography*, 12: 376-382.
- WEBSTER, K. E. and R. H. PETERS. 1978. Some size-dependent inhibitions of larger cladoceran filterers in filamentous suspensions. *Limnology and Oceanography*, 23: 1238-1245.
- WEIGELT, C. 1891. Die Abfaller der Seefischerei; experimentelle Untersuchungen uber deren Natur, Menge, Verarbeitung und Verwertung, Sonderbeilage zu den Mitteilungen der Sektionen fuer Kusten und Hochseefischerei, Moeser, Berlin, 111 pp.
- WELCH, H. E. 1968. Relationships between assimilation efficiencies and growth efficiencies for aquatic consumers. *Ecology*, 49: 755-759.
- WELCH, H. E. 1976. Ecology of Chironomidae (Diptera) in a polar lake. *Journal of the Fisheries Research Board of Canada*, 33: 227-247.
- WEST, B., M. deBURGH, and F. JEAL. 1977. Dissolved organics in the nutrition of benthic invertebrates. In: Biology of Benthic Organisms, B. F. Keegan, P. O. Ceidegh, and P. J. S. Boaden (eds.), Pergamon Press, Oxford, p. 587-593.
- WETZEL, R. G. 1975. Limnology, W. B. Saunders Co., Philadelphia, 743 p.
- WILLOUGHBY, L. G. and D. W. SUTCLIFFE. 1976. Experiments on feeding and growth of the amphipod Gammarus pulex (L.) related to its distribution in the River Dudden. *Freshwater Biology*, 6: 577-586.
- WILSON, M. S. 1959. Free-living Copepoda: Calanoida. In: Freshwater Biology, 2nd edition, W. T. Edmondson (ed.), John Wiley and Sons, Inc., New York, P. 738-794.
- WINBERG, G. G. 1956. Rate of metabolism and food requirements of fishes. In: Nauchnye Trudy Belorusskovo Gosudarstvennovo, Universiteta imeni V. I. Lenina, Minsk, 253 p. (English translation available as Fisheries Research Board of Canada Translation Series No. 194, 1960, 239 p.)
- WINBERG, G. G. 1972. Some interim results of Soviet IBP investigations on lakes. In: Productivity Problems of Freshwaters, Z. Kajak and A. Hillbricht-Ilkowska (eds.), Polish Scientific Publishers, Warszawa and Krakow, p. 368-381.

- WINBERG, G. G., A. F. ALIMOV, G. A. GALKOVSKAYA, M. B. IVANOVA, L. A. KITITSYNA, N. M. KRYUTCHKOVA, A. V. MONAKOV, A. P. OSTAPENYA, G. A. PECHEN'-FINENKO, N. Y. SOKOLOVA, and T. V. KHLEVOVICH. 1973. The progress and state of research on the metabolism, growth, nutrition, and production of fresh-water invertebrate animals. *Hydrobiological Journal*, 9: 77-84.
- WINBERG, G. G., V. S. IVLEV, T. P. PLATOVA, and L. L. ROSSOLIMNO. 1934. Procedures for determining organic matter. Experiment on a calorific evaluation of food supplies in a body of water. *Trudy Limnologicheskogo Sta. Kosino*, 18: 25-40. (in Russian)
- WRIGHT, J. C. 1958. The limnology of Canyon Ferry Reservoir, I. Phytoplankton-zooplankton relationships in the euphotic zone during September and October, 1956. *Limnology and Oceanography*, 3: 150-159.
- WRIGHT, J. C. 1965. The population dynamics and production of *Daphnia* in Canyon Ferry Reservoir, Montana. *Limnology and Oceanography*, 10: 583-591.
- WROBLEWSKI, J. S. and J. J. O'BRIEN. 1976. A spatial model of phytoplankton patchiness. *Marine Biology (Berlin)*, 35: 161-175.
- WYCLIFFE, M. J. and S. V. JOB. 1977. Standard, routine and active oxygen consumption of a freshwater shrimp. *Hydrobiologia*, 54: 33-40.
- YAKOVLEVA, N. A. 1969. The nutrition of the ostracod *Herpetocypris reptans* (Baird) (Fam. Cypridae). *Hydrobiological Journal*, 5: 15-18.
- YAMAMURA, Y. 1934. Chemical study of food organisms for fish. *Bulletin of the Japanese Society of Scientific Fisheries (Nihon Suisan Gakkai-Shi)*, 3: 357.
- YESIPOVA, M. A. 1969. Growth and reproduction of *Daphnia magna* (Straus) and *D. longispina* (O. F. Muller) fed on detritus. *Hydrobiological Journal*, 5: 9-15.
- ZAHORCAK, C. L. 1974. Formulation of a numbers-biomass model for simulating the dynamics of aquatic insect populations. Rensselaer Fresh Water Institute at Lake George, Eastern Deciduous Forest Biome IBP Memo Report 74-5, 42 p.
- ZANKAI, N. P. and J. E. PONYI. 1976. Seasonal changes in the filtering rate of *Eudiaptomus gracilis* (G. O. Sars) in Lake Balaton. *Annales Instituti Biologici (Tihany) Hungaricae Academiae Scientiarum*, 43: 105-116.

ZEUTHEN, E. 1970. Rate of living as related to body size in organisms. *Polskie Archiwum Hydrobiologii*, 17: 21-30.

ZIMMERMAN, M. C., T. E. WISSING, and R. P. RUTTER. 1975. Bioenergetics of the burrowing mayfly Hexagenia limbata in a pond ecosystem. *Internationale Vereinigung fuer Theoretische und Angewandte Limnologie Verhandlungen*, 19: 3039-3049.