

Prof. Jussi Kukkonen, List of Publications**Academic Thesis**

- TH-1 Syventävien opintojen tutkielma (MSc Thesis): Kasviplanktonin perustuotanto humuspitoisuudeltaan erilaisissa järvissä. Joensuun yliopisto, biologian laitos. Hyväksytty 25.9. 1985 arvosanalla *eximia cum laude approbatur* (3-/3).
- TH-2 Lisensiaattitutkielma (Phil.Lic. Thesis): Liuenneen orgaanisen materiaalin vaikutus orgaanisten ympäristömyrkköjen sitoutumiseen ja biosaataavuuteen luonnonvesissä. Joensuun yliopisto, biologian laitos. Hyväksytty 19.12. 1990 arvosanalla *laudatur* (3/3).
- TH-3 Väitöskirja (PhD Thesis): Effects of Dissolved Organic Material in Fresh Waters on the Binding and Bioavailability of Organic Pollutants. University of Joensuu, Department of Biology. Accepted Jan. 10, 1992, with grade *eximia cum laude approbatur* (3-/3).

Peer Reviewed Articles in Journals and Books

- SA-1 **Kukkonen J.** and Oikari A. 1987: Effects of aquatic humus on accumulation and acute toxicity of some organic micropollutants. *The Science of the Total Environment* 62: 399-402.
- SA-2 Oikari A. and **Kukkonen J.** 1988: Acclimatization of Roach, *Rutilus rutilus* (L.), to toxic components of kraft pulp mill effluents. *Ecotoxicol. Environ. Safety* 15: 282-288.
- SA-3 **Kukkonen J.** and Oikari A. 1988: Sulphate conjugation is the main route of pentachloro-phenol metabolism in *Daphnia magna*. *Comp. Biochem. Physiol.* 91C: 465-468.
- SA-4 Oikari A., Lindström-Seppä P. and **Kukkonen J.** 1988: Subchronic metabolic effects and toxicity of a simulated pulp mill effluent on juvenile lake trout, *Salmo trutta m. lacustris*. *Ecotoxicol. Environ. Safety* 16: 202-218.
- SA-5 **Kukkonen J.**, Oikari A., Johnsen S. and Gjessing E. 1989: Effects of humus concentrations on benzo(a)pyrene accumulation from water to *Daphnia magna*: comparison of natural waters and standard preparations. *The Science of the Total Environment* 79: 197-207.
- SA-6 Johnsen S., **Kukkonen J.** and Grande M. 1989: Influence of natural aquatic humic substances on the bioavailability of benzo(a)pyrene to atlantic salmon. *The Science of the Total Environment* 81/82: 691-702.
- SA-7 **Kukkonen J.**, McCarthy J.F. and Oikari A. 1990: Effects of XAD-8 fractions of dissolved organic carbon on the sorption and bioavailability of organic micropollutants. *Arch. Environ. Contam. Toxicol.* 19: 551-557.
- SA-8 Oikari A. and **Kukkonen J.** 1990: Bioavailability of benzo(a)pyrene and dehydroabietic acid from a few lake waters containing varying dissolved organic carbon concentration to *Daphnia magna*. *Bull. Environ. Contam. Toxicol.* 45: 54-61.
- SA-9 **Kukkonen J.** 1991: Effects of pH and natural humic substances on the accumulation of organic pollutants into two freshwater invertebrates. In: B. Allard, H. Borén and A. Grimvall (eds.): *Humic Substances in the Aquatic and Terrestrial Environment*. Springer-Verlag, Berlin, Germany. Lecture Notes in Earth Sciences 33: 413-422.
- SA-10 **Kukkonen J.** and Oikari A. 1991: Bioavailability of organic pollutants in boreal waters with varying levels of dissolved organic material. *Water Research* 25:455-463.
- SA-11 **Kukkonen J.**, McCarthy J.F. and Oikari A. 1991: Binding and bioavailability of organic micropollutants in natural waters: Effects of the quality and quantity of dissolved organic material. In: R. Baker (ed.): *Organic Substances and Sediments in Water: Volume 3, Biological*. Lewis Publishers Inc., Chelsea MI. p. 111-127.

- SA-12 Mäkelä T.P., Petänen T., **Kukkonen J.** and Oikari A.O.J. 1991: Accumulation and depuration of chlorinated phenolics in the freshwater mussel (*Anodonta anatina* L.). *Ecotoxicol. Environ. Safety* 22: 153-163.
- SA-13 Oikari A., **Kukkonen J.** and Virtanen V. 1992: Acute toxicity of chemicals to *Daphnia magna* in humic waters. *Sci. Total Environ.* 117/118: 367-377.
- SA-14 **Kukkonen J.** and Oikari A. 1992: Effects of kraft lignin and chlorolignin on the bioavailability of benzo(a)pyrene to *Daphnia magna* Straus. *Bull. Environ. Contam. Toxicol.* 48: 781-788.
- SA-15 **Kukkonen J.** 1992: Effects of lignin and chlorolignin in pulp mill effluents on the binding and bioavailability of hydrophobic organic pollutants. *Water Research* 26: 1523-1532.
- SA-16 Pellinen J., **Kukkonen J.**, Herb A., Mäkelä P. and Oikari A. 1993: Bioaccumulation of pulp mill effluent-related compounds to aquatic animals. *Sci. Total Environ.* (Suppl. 1993): 499-510.
- SA-17 **Kukkonen J.** and Pellinen J. 1994: Binding of organic xenobiotics to dissolved macromolecules: Comparison of analytical methods. *Sci. Total Environ.* 152: 19-29.
- SA-18 Suffet I.H., Jafvert C.T., **Kukkonen J.**, Servos M.R., Spacie A., Williams L.L. and Noblet J.A. 1994: Influence of particulate and dissolved material on the bioavailability of organic compounds. In: J.L. Hamelink, P.F. Landrum, H.L. Bergman and W.H. Benson (eds.): *Bioavailability: Physical, Chemical, and Biological Interactions*. Lewis Publishers, Ann Arbor, USA. pp. 93-108.
- SA-19 Harkey G., Lydy M.J., **Kukkonen J.** and Landrum P.F. 1994: Feeding selectivity and assimilation of PAH and PCB in *Diporeia* spp. *Environ. Toxicol. Chem.* 13: 1445-1455.
- SA-20 **Kukkonen J.** and Landrum P.F. 1994: Toxicokinetics and toxicity of sediment-associated pyrene to *Lumbriculus variegatus* (Oligochaeta). *Environ. Toxicol. Chem.* 13: 1457-1468.
- SA-21 Landrum P.F., Dupuis W.S. and **Kukkonen J.** 1994: Toxicokinetics and toxicity of sediment-associated pyrene and phenanthrene in *Diporeia* spp.: Examination of equilibrium partitioning theory and residue based effects for assessing hazard. *Environ. Toxicol. Chem.* 13: 1769-1780.
- SA-22 **Kukkonen J.** and Landrum P.F. 1995: Effects of sediment-bound polydimethylsiloxane on the bioavailability and distribution of benzo(a)pyrene in lake sediment to *Lumbriculus variegatus*. *Environ. Toxicol. Chem.* 14: 523 - 531.
- SA-23 Penttinen S., **Kukkonen J.** and Oikari A. 1995: The kinetics of cadmium in *Daphnia magna* as affected by humic substances and water hardness. *Ecotoxicol. Environ. Safety* 30: 72-76.
- SA-24 Soimasuo R., Jokinen I., **Kukkonen J.**, Petänen T., Ristola T. and Oikari A. 1995: Biomarker responses along a pollution gradient: Effects of pulp and paper mill effluents on caged whitefish. *Aquat. Toxicol.* 31: 329-345.
- SA-25 **Kukkonen J.** and Landrum P.F. 1995: Measuring assimilation efficiencies for sediment-bound PAH and PCB congeners by benthic organisms. *Aquat. Toxicol.* 32: 75-92.
- SA-26 **Kukkonen J.** 1995: The role of natural organic material on the fate and toxicity of xenobiotics in aquatic environment. In: M. Munawar and M. Luotola (eds.): *The Contaminants in the Nordic Ecosystem: Dynamics, Processes & Fate*. Ecovision World Monograph Series. pp. 95 - 108.
- SA-27 Penttinen O.-P., **Kukkonen J.** and Pellinen J. 1996: Preliminary study to compare body residues and sublethal energetic responses in benthic invertebrates exposed to sediment-bound 2,4,5-trichlorophenol. *Environ. Toxicol. Chem.* 15: 160-166.
- SA-28 Landrum P.F., Harkey G.A. and **Kukkonen J.** 1996: Evaluation of organic contaminants exposure to aquatic organisms: The significance of bioconcentration and bioaccumulation. In: M.C. Newman and C.H. Jagoe (eds.): *Ecotoxicology: A Hierarchical Treatment*. Lewis Publishers, Ann Arbor, MI, USA, pp. 85-131.
- SA-29 Mackay D., Southwood J.M., **Kukkonen J.**, Shiu W.Y., Tam D.D., Varhaní kova D. and Lun R. 1996: Modelling the fate of 2,4,6-trichlorophenol in pulp and paper mill effluent in Lake Saimaa, Finland. In:

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- SA-30 **Kukkonen J.** and Landrum P.F. 1996: Distribution of organic carbon and organic xenobiotics among different particle size fractions in sediments. *Chemosphere* 32: 1063-1076.
- SA-31 Ristola T., Pellinen J., Leppänen M. and **Kukkonen J.** 1996: Characterization of Lake Ladoga sediments. I. Toxicity to *Chironomus riparius* and *Daphnia magna*. *Chemosphere* 32: 1165-1178.
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- SA-33 **Kukkonen J.V.K.**, Eadie B.J., Oikari A., Holmbom B. and Lansing M.B. 1996: Chlorophenolic and isotopic tracers of pulp mill effluent in sedimenting particles collected from Southern Lake Saimaa, Finland. *Sci. Total Environ.* 188: 15-27.
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- SA-35 Heinonen J., **Kukkonen J.**, Penttinen O.-P. and Holopainen I.J. 1997: Effects of hypoxia on valve-closure time and bioaccumulation of 2,4,5-trichlorophenol by the freshwater clam *Sphaerium corneum* [L.]. *Ecotox. Environ. Safety* 36: 49-56.
- SA-36 De Paolis F. and **Kukkonen J.** 1997: Binding of organic pollutants to humic and fulvic acids: influence of pH and structure of humic material. *Chemosphere* 34: 1693-1704.
- SA-37 Landrum P.F., Gossiaux D.C. and **Kukkonen J.** 1997: Sediment characteristics influencing the bioavailability of nonpolar organic contaminants to *Diporeia* spp. *Chem. Speciat. Bioavail.* 9: 43-55.
- SA-38 Sasaki E.K., Mikkola R., **Kukkonen J.V.K.** and Salkinoja-Salonen M.S. 1997: Bleached kraft pulp mill discharged organic matter in recipient lake sediment: Environmental and molecular properties. *ESPR - Environ. Sci. Pollut. Res.* 4: 194-202.
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- SA-42 Leppänen M.T. and **Kukkonen J.V.K.** 1998: Relative importance of ingested sediment and pore water as bioaccumulation routes for pyrene to oligochaete (*Lumbriculus variegatus*, Müller). *Environ. Sci. Technol.* 32: 1503-1508.
- SA-43 **Kukkonen J.V.K.** and Landrum P.F. 1998: Effect of particle-xenobiotic contact time on bioavailability of sediment-associated benzo(a)pyrene by benthic amphipod, *Diporeia* spp. *Aquatic Toxicology* 42: 229-242.
- SA-44 Koponen K., **Kukkonen J.V.K.** and Lindström-Seppä P. 1998: Chemical accumulation and biotransformation enzyme activities of rainbow trout embryos in waterborne exposure to PCB-77. *Mar. Environ. Res.* 46: 475-478.
- SA-45 Leppänen M.T. and **Kukkonen J.V.K.** 1998: Relationship between reproduction, sediment type and feeding activity of *Lumbriculus variegatus* (Müller): Implications for sediment toxicity testing. *Environ. Toxicol. Chem.* 17: 2196-2202.
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- SA-52 Oikari A., **Kukkonen J.V.K.**, Vuorikari P. 1999: Can biliary chlorophenolics represent their tissue residues in fish? *Toxicol. Environ. Chem.* 69: 49-60.
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- SA-57 **Kukkonen J.V.K.**, Punta E., Koponen P., Paranko J., Leppänen H., Holopainen I.J. and Hyvärinen H. 1999: Biomarker responses by crucian carp (*Carassius carassius*) living in a pond of secondary treated pulp mill effluent. *Water Sci. Technol.* 40(11-12): 123-130.
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- SA-60 Kostamo A., Medvedev N., Pellinen J., Hyvärinen H. and **Kukkonen J.V.K.** 2000: Analysis of organochlorine compounds and extractable organic halogen in three subspecies of ringed seal from Northeast Europe. *Environ. Toxicol. Chem.* 19: 848-854.
- SA-61 **Kukkonen J.V.K.** 2000: Fate of organic xenobiotics in sediments: Bioavailability and toxicity. In: P. Heinonen, G. Ziglo and A. Van der Beken (eds.): *Hydrological and Limnological Aspects of Lake Monitoring*. John Wiley & Sons Ltd. pp. 185-193.
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- SA-63 Leppänen M.T. and **Kukkonen J.V.K.** 2000: Effects of sediment-chemical contact time on availability of sediment-associated pyrene and benzo[a]pyrene to oligochaete worms and semipermeable membrane devices. *Aquatic Toxicology* 49: 227-241.
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- SA-80 Heinonen J., **Kukkonen J.V.K.** and Holopainen I.J. 2001: Temperature and parasite-induced changes in toxicity and lethal body burdens of pentachlorophenol in the freshwater clam *Pisidium amnicum*. *Environ. Toxicol. Chem.* 20: 2778-2784.
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- SA-89 **Kukkonen J.V.K.** 2002: Lethal body residue of chlorophenols and mixtures of chlorophenols in benthic organisms. *Arch. Environ. Contam. Toxicol.* 43: 214-220.
- SA-90 Mäenpää K.A., **Kukkonen J.V.K.** and Lydy M.J. 2002: Remediation of heavy metal contaminated soils using phosphorus: Evaluation of bioavailability using an earthworm bioassay. *Arch. Environ. Contam. Toxicol.* 43: 389-398.
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