

# PUBLICATION LIST

## JOHN P. GIESY

*B.S., M.S., Ph.D., FRSC<sup>1,2</sup>, FSETAC<sup>3</sup>, DSAHC<sup>4</sup>, DESA<sup>5</sup>, FRSC (UK)<sup>6</sup>, FIAAM<sup>7</sup>*

**ORCID: 0000-0003-1931-9962**

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### HONORARY ACADEMIC DISTINCTIONS:

1. Member National Academy of Sciences of Earth, Ocean and Atmospheric Sciences, Academy III
- 2 Fellow of the Royal Society of Canada
- 3 Fellow, Society of Environmental Toxicology and Chemistry
- 4 *Doctor Scientiarum Ambalium Honors Causa*, honorary Ph.D., conferred by Masaryk University
- 5 *Distinguished Eagle Scout Award, Boy Scouts of America*
- 6 Fellow Royal Society of Chemistry-United Kingdom
- 7 Fellow International Association of Advanced Materials

### PUBLICATIONS 1,456

**ORCID: 0000-0003-1931-9962**

Prof. Giesy has published 1,366 open literature, journal articles, 6 feature articles, 3 special publications, 3 theses, 7 books written, 11 books edited, 4 textbook chapters, 5 published reviews, 27 published reports, and 20 special reports. Prof. Giesy is a highly cited author and is among the top 0.001% of active authors in all fields globally (ISI) and the most cited author in the world in the combined fields of Ecology and Environmental Sciences with a Hirsch (H) index of 154 (Google Scholar<sup>®</sup>: <http://scholar.google.com/citations?user=vt-PMP8AAAAJ&hl=en>) with more than 109,220 citations. His i10 Index (number of papers cited more than 10 times) is 1197. As of 2021, he was the 4<sup>th</sup> (#1 in Canada) most published author of 234,833 published authors worldwide on “Environmental Monitoring”, and in the top 0.0017% from 2011 through 2021. (<https://www.expertscape.com/au/environmental+monitoring/Giesy%2C+J>). Prof. Giesy is on the list of top 2% of global authors in all fields by the Stanford-Elsevier listing, where he is #3 in Ecotoxicology. [https://scholargps.com/scholars/84989799782633/john-p-giesy?e\\_ref=bf027c8025fd27f74ecc](https://scholargps.com/scholars/84989799782633/john-p-giesy?e_ref=bf027c8025fd27f74ecc)

### THESES AND DISSERTATIONS (3):

- (T-1) Giesy, J. P. 1970. *The Effects of the Alma - St. Louis, Michigan Metropolitan Area on the Benthic Organisms of the Pine River*. B.S. Thesis, Alma College. 35 p.
- (T-2) Giesy, J. P. 1971. *Estimation of Bottom Area in an Artificial Stream, Using Phosphorus-32*. M.S. Thesis, Michigan State University. 71 p.

- (T-3) Giesy, J. P. 1974. *The Effects of Humic Acids on the Growth of an Uptake of Iron and Phosphorus by Scenedesmus obliquus*. Ph.D. Dissertation, Michigan State University.

**BOOKS WRITTEN (7):**

- (B-1) Delzell, E., J. Doull, J. P. Giesy, D. Mackay, I. C. Monro and G. M. Williams. 1994. *Interpretive Review of the Potential Adverse Effects of Chlorinated Organic Chemicals on Human Health and the Environment*. *Regulatory Toxicology & Pharmacology*. Special Supplement to Vol. 20 No. 1 Part 2 of 2 parts. Academic Press, Inc. New York, 1056 p.
- (B-2) Knobil, E., H. A. Bern, J. Burger, D. M. Fry, J. P. Giesy, J. Gorski, C. J. Grossman, L. J. Guillette, B. S. Hulka, J. C. Lamb, J. A. McLachlan, L. A. Real, S. H. Safe, A. M. Soto, J. J. Stegeman, S. H. Swan, F. S. von Saal. 1999. *Hormonally Active Agents in the Environment*. Committee on Hormonally Active Agents in the Environment, Board on Environmental Studies and Toxicology, Commission on Life Sciences, National Research Council, National Academy Press, Washington, DC. 430 p.
- (B-3) Giesy, J. P., K. R. Solomon, J. R. Coats, K. R. Dixon, J. M. Giddings and E. K. Kenega. 1999. *Ecological Risk Assessment of Chlorpyrifos in North American Aquatic Environments*. Springer-Verlag, Heidelberg, Germany, 129 p.
- (B-4) Henderson, R., M. W. Bell, J. F. Borzelleca, E. H. Clark, II, E. A. C. Crouch, J. P. Giesy, P. B. Ryan, J. N. Seiber and C. C. Travis. 1999. *Risk-Based Waste Classification in California*. National Academy Press, Washington, D.C. 219 p.
- (B-5) Farrington, J. F., R. C. Loehr, E. L. Anderson, W. F. Bohlen, Y. Cohen, K. J. Farley, J. P. Giesy, D. S. Henshel, S. U. Lester, K. J. Liegel, P. L. McCarty, J. L. O'Donoghue, J. J. Opaluch and D. D. Reible. 2001. *Risk Reduction Strategy for PCB-Contaminated Sediments*. National Academy Press, Washington, DC. 432p.
- (B-6) Anon. 2002. Global Assessment of the State-of-the-Science of Endocrine Disruptors: An Assessment Prepared by an Expert Group on Behalf of the World Health Organization, the International Labor Organization and the United Nations Environment Program. World Health Organization, Geneva. WHO/PCS/EDC/02.2. 180pp.
- (B-7) Luthy, R. G., R. M. Allen-King, S. L. Brown, D. A. Dzombak, S. E. Fendorf, J. P. Giesy, J. B. Hughes, S. N. Luoma, L. A. Malone, C. A. Menzie, S. M.

Roberts, M. V. Ruby, T. W. Schultz and B. F. Smeets. 2003. Bioavailability of Contaminants in Soils and Sediments: *Processes, Tools and Applications*. National Academy Press, Washington, DC. 420p.

**BOOKS EDITED (11):**

- (BE-1) Giesy, J. P. (Ed.). 1980. *Microcosms in Ecological Research*. Department of Energy Symposium Series #52 CONF-781101, National Technical Information Center, Springfield, VA, 1112 p.
- (BE-2) Baudo, R., J. Giesy and H. Muntau (Eds.). 1990. *Sediments: The Chemistry and Toxicology of In-Place Pollutants*. Lewis Publishers. Chelsea, Mich. 405 p.
- (BE-3) Hart, B. T., P. Sly, R. Beckett, W. Calmano, J. P. Coakley, B. J. Eadie, J. P. Giesy, M. Jansson, L. Kamp-Nielsen, G. Morrison S. S. Rao, D. Walling and B. Boström (Eds.). 1992. *Sediment/Water Interactions: V-Developments in Hydrology*. Kluwer Academic Publishers, Dordrecht, The Netherlands. 743 p.
- (BE-4) Christensen, E., D. Edgington and J. P. Giesy (Eds.). 1994. *Contaminated Aquatic Sediments: Proceedings of the First International Specialized Conference on Contaminated Aquatic Sediments: Historical Records, Environmental Impact, and Remediation*. Pergamon Press, Oxford, UK, 389 p.
- (BE-5) Carey, J., P. Cook, J. Giesy, P. Hodson, D. Muir, W. Owens and K. Solomon (Eds.). 1998. *Ecological Risk Assessment of The Chlorinated Organic Chemicals*. SETAC Press, Pensacola, FL. 375 p.
- (BE-6) Kendall, R. J., R. L. Dickerson, J. P. Giesy, and W. A. Suk (Eds.). 1998. *Principles and Processes for Evaluating Endocrine Disruptors in Wildlife*. SETAC Press, Pensacola, FL, 491 p.
- (BE-7) Wu, R., B. Richardson, D. Connell, J. P. Giesy, M. Moore, D. Randall and S. Tanabe. 2002. *Proceedings of the Third International Conference on Marine Pollution and Ecotoxicology*, 10-14 June, 2001, Hong Kong, China. Pergamon Press, Oxford, United Kingdom. 402 P.
- (BE-8) Wu, R., B. Richardson, D. Connell, J. P. Giesy, M. Moore, D. Randall and S. Tanabe. 2005. *Proceedings of the Fourth International Conference on Marine Pollution and Ecotoxicology*, June, 2004, Hong Kong, China. Pergamon Press, Oxford, United Kingdom. 402 P.

- (BE-9) Li, A., S. Tanabe, G Jiang, J. P. Giesy and P. Lam 2007. Persistent Organic Pollutants in Asia – Sources, Distributions, Transport, and Fate. Elsevier, Amsterdam, the Netherlands. 825 p.
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- (BE-11) Giesy, J.P. and K.R. Solomon (eds.), *Ecological Risk Assessment for Chlorpyrifos in Terrestrial and Aquatic Systems in North America*, *Rev. Environ. Contam. Toxicol.* Vol. 231, 269p.

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- (TB-1) Graney, R. L., J. P. Giesy and J. R. Clark. 1995. Field Studies. In: *Fundamentals of Aquatic Toxicology: Effects, Environmental Fate and Risk Assessment* (2nd edition). G. M. Rand (Editor), pp. 257-305, Taylor & Francis, Bristol, PA.
- (TB-2) Giesy, J.P. and P.D. Jones. 2010. Perfluorinated Substances in the Environment: History of an Environmental Issue. Pp. 58-62 In: Newman, M.C. *Fundamental of Ecotoxicology, 3<sup>th</sup> Ed.*. CRC Press, Boca Raton, FL. 541 p.
- (TB-3) Giesy, J.P. and P.D. Jones. 2015. Perfluorinated Substances in the Environment: History of an Environmental Issue. Pp. 74-78 In: Newman, M.C. *Fundamental of Ecotoxicology: The Science of Pollution, 4<sup>th</sup> Ed.*. CRC Press, Boca Raton, FL. 654 p.
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- (FA-2) Kramer, V. J. and J. P. Giesy. 1995. Environmental Estrogens: A Significant Risk? *Hum. Ecol. Risk Assess.* 1(2):37-42.

- (FA-3) Giesy, J. P. and K. Kannan. 2002. Perfluorochemical Surfactants in the Environment. *Environ. Sci. Technol.* 36:146A-152A.
- (FA-4) Martin, J. W., K. Kannan, U. Berger, P. DeVoogt, J. Fields, J. Franklin, J. P. Giesy, T. Harner, D. Muir, B. Scott, M. Kaiser, U. Järnberg, K. C. Jones, S. A. Mabury, H. Schroeder, M. Simcik C. Sottani, B. Van Bavel, A. Kärrman, G. Lindström and S. Van leeuwen. 2004. Researchers Push for Progress in Perfluoralkyl Analysis. *Environ. Sci. Technol.* 38:249A-255A.
- (FA-5) Young, A.L., H. Hollert, W Köpffer, U. Förstner, K. Voigt, W. Geiger, B. Markert, G. Lammel and J.P. Giesy. 2008. The Era Otto Hutzinger. *Envir. Sci. Poll. Res.* 15:101-107.
- (FA-6) Xie, Y.-W., C. DeBeer and J.P. Giesy. 2022. Using DNA Science to Monitor Invasive and Endangered Species: Environmental DNA Analysis and the use of Emerging Biological Technologies Provide a New Approach to Monitoring for Invasive and Endangered Species, Detecting Pathogens, Characterizing Biodiversity, and Assessing Aquatic ecosystems. Published on line:  
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- (BC-2) Giesy, J. P., D. 237. Paine and L. Hersloff. 1977. Effect of naturally occurring organics on <sup>237</sup>Pu uptake by algae and bacteria. pp. 531-543. In: White, M. G. and P. B. Dunaway (Eds.). *Dynamics of transuranics in terrestrial and aquatic environments*. Nevada Applied Ecology Group Symposium: National Technical Information Center, Springfield, VA.
- (BC-3) Skinner, S. P., J. B. Gentry and J. P. Giesy. 1978. Cadmium dynamics in terrestrial food webs of a coal fly ash basin. pp. 658-672. In: D. C. Adriano and I. L. Brisbin, Jr. (Eds.). *Environmental Chemistry and Cycling Processes*. ERDA Symposium Series. (CONF-760429).
- (BC-4) Evans, D. W. and J. P. Giesy. 1979. Trace Metal Concentrations in a Stream-Swamp System Receiving Coal Ash Effluent. pp. 782-790. In: M. K. Wali (Ed.). *Ecology and Coal Resource Development*. Pergamon Press, New York.
- (BC-5) Giesy, J. P., N. H. Cutshall, L. L. King, R. E. Akutani and A. L. Reeves. 1979. Barium. pp. 19-26. In: R. V. Thurston, R. C. Russo, C. M. Fetterolf, Jr., T. A. Edsall and Y. M. Barber, Jr. (Eds.). *A Review of the EPA Red Book: Quality Criteria for Water*. Water Quality Section, American Fisheries Society, Bethesda, Maryland.
- (BC-6) Giesy, J. P. 1980. Cadmium interactions with naturally occurring organic ligands. pp. 237-256. In: J. O. Nriagu (Ed.). *Cadmium in the Environment, Part I*. John Wiley and Sons, Inc., New York.
- (BC-7) Giesy, J. P. and E. P. Odum. 1980. Microcosmology: The theoretical basis. pp. 1-13 In: J. P. Giesy (Ed.). *Microcosms in Ecological Research*. DOE CONF-781101. Department of Energy Technical Information Center, Oak Ridge, TN.
- (BC-8) Giesy, J. P. and R. A. Geiger. 1980. Large-Scale Microcosms for Assessing Fates and Effects of Trace Contaminants. pp. 304-318. In: J. P. Giesy (Ed.). *Microcosms in Ecological Research*. DOE CONF-781101. Department of Energy Technical Information Center, Oak Ridge, TN.
- (BC-9) Bowling, J. W., J. P. Giesy, H. J. Kania and R. L. Knight. 1980. The Realities of Using Large-scale Microcosms in Assessing the Fates and Effects of Potentially Hazardous Trace Contaminants. pp. 224-247. In: J. P. Giesy (Ed.). *Microcosms in Ecological Research*. DOE

- (BC-10) Landrum, P. F. and J. P. Giesy. 1981. Anomalous breakthrough of benzo(a)pyrene during concentration with Amberlite XAD-4 resin from aqueous solutions. pp 345-355 (Chapter 22). In: L. H. Keith (Ed.). *Advances in the Identification and Analysis of Organic Pollutants in Water*. Ann Arbor Science, New York.
- (BC-11) Leversee, G. J., J. P. Giesy, P. F. Landrum, S. Gerould, M. Bruno A. Spacie, S. Bartell, J. Bowling, J. Haddock and T. Fannin. 1981. Disposition of benzo(a)pyrene in aquatic systems components: periphyton, chironomids, fish. pp. 357-366. In: *Proceedings 5th International Symposium on Polynuclear Aromatic Hydrocarbons*. Battell Columbus Laboratories, Columbus Ohio.
- (BC-12) Bartell, S. M., P. F. Landrum, J. P. Giesy and G. J. Leversee. 1981. Simulated transport of polycyclic aromatic hydrocarbons in artificial streams. pp. 133-142. In: W. J. Mitsch, R. W. Bosserman and J. M. Klopatek (Eds.). *Energy and Ecological Modeling*, Elsevier, New York.
- (BC-13) Bartell, S. M., P. F. Landrum, J. P. Giesy and G. J. Leversee. 1981. Simulated transport of polycyclic aromatic hydrocarbons in artificial streams. pp. 1-31. In: *Proceedings of the International Symposium on Energy and Ecological Modeling*, Louisville, Kentucky, April 20-23, 1981.
- (BC-14) Giesy, J. P., A. Newell and G. J. Leversee. 1983. Copper speciation in soft-organic acid waters: effects on accumulation by and toxicity to *Simocephalus serrulatus* (Daphnidae). In: E. A. Jenne and R. Wildung, (Eds.). *Biological Availability of Trace Metals*. Special Issue of *Science of the Total Environment* 28:23-36 Elsevier, Amsterdam.
- (BC-15) Giesy, J. P. 1983. Biological control of trace metal equilibria in surface waters. pp. 195 – 210. In: G. G. Leppard (Ed.). *Trace Element Speciation in Surface Waters and its Ecological Implications*. North Atlantic Treaty Organization Science Office, Plenum Press, New York, NY.
- (BC-16) Alberts, J. J. and J. P. Giesy. 1983. Conditional stability constants of trace metals and naturally occurring humic materials: their application in equilibrium models and verification with field data. pp. 333-348. In: R. F. Christman and E. Gjessing (Eds.). *Terrestrial and Aquatic Humic Materials*. Ann Arbor, Science, Ann Arbor, Michigan.

- (BC-17) Giesy, J. P. and J. J. Alberts. 1984. Trace Metal speciation: The Interaction of metals with organic constituents of surface waters. pp. -1 to 11-31. In: B. J. Ward (Ed.). *Effects of Trace Elements on Aquatic Ecosystems*. Electric Power Research Institute. Palo Alto, CA.
- (BC-18) Giesy, J. P. 1985. Multispecies Tests: Research Needs to assess the Effects of Chemicals on Aquatic Life. pp 67-77. In: R.C. Bahner and D.J. Hansen (Eds.). *Aquatic Toxicology and Hazard Assessment*. American Society for Testing and Materials, Philadelphia, PA. ASTM STP 981.
- (BC-19) Giesy, J. P. and P. M. Allred. 1985. Replicability of aquatic multispecies test systems. pp. 187-247. In: J. Cairns, (Ed.). *Multispecies Toxicity Testing*. Pergamon Press, New York.
- (BC-20) Oris, J. T., J. P. Giesy, P. M. Allred, D. W. Grant and P. F. Landrum. 1984. Photoinduced toxicity of anthracene in aquatic organisms: An environmental perspective. pp. 639-658. In: T. N. Veziroglu (Ed.). *The Biosphere: Problems and Solutions*. Elsevier Science Publishers, Amsterdam.
- (BC-21) Giesy, J. P. 1985. Multispecies Tests: Research Needs to Assess the Effects of Chemicals on Aquatic Life. pp. 67-82. In: R. C. Bahner and D. J. Hansen (Eds.). *Aquatic Toxicology and Hazard Assessment*, 8th Volume ASTM, STP 891. American Society for Testing and Materials, Philadelphia, PA.
- (BC-22) Landrum, P. F., J. P. Giesy, J. T. Oris and P. M. Allred. 1986. The photo-induced toxicity of polycyclic aromatic hydrocarbons to aquatic organisms. pp. 304-318. In: J. H. Vandermeulen and S. Hrudey (Eds.). *Oil in Freshwater Chemistry, Biology, Counter Measure Technology*. Pergamon Press, New York.
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- (BC-24) Versteeg, D. L., R. L. Graney and J. P. Giesy. 1987. Field utilization of clinical measures of xenobiotic stress in aquatic organisms. pp. 289-306. In: W. J. Adams, G. A. Chapman, and W. G. Landis, (Eds.). *Aquatic Toxicology and Hazard Assessment: 10th Volume*, ASTM STP 971, American Society for Testing and Materials, Philadelphia, PA.

- (BC-25) Giesy, J. P. 1987. Current status of metal speciation studies. pp. 225-242. In: J. W. Patterson and R. Passino (Eds.). ***Metal, Speciation, Separation and Recovery***. Lewis Publishers, Chelsea, MI.
- (BC-26) Giesy, J. P. 1988. Variation in quantification of concentrations of toxic chemicals in fish from the Laurentian Great Lakes: The good, the bad and the manageable. pp. 5-23. In: N. W. Schmidtke (Ed.). ***Toxic Contamination in Large Lakes. Volume I. Chronic Effects of Toxic Contaminants in Large Lakes***. Proceedings of the World Conference on Large Lakes, Mackinaw Island, MI., 1986. Lewis Publishers, Chelsea, MI.
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- (BC-28) Gala, W. R. and J. P. Giesy. 1989. Flow cytometric techniques to assess toxicity to algae. pp. 237-246. In: W. Landis and W. Van Der Schaile (Eds.). ***Aquatic Toxicology and Hazard Assessment***. Thirteenth Volume ASTM, STP 1096. American Society for Testing and Materials, Philadelphia, PA.
- (BC-29) Giesy, J. P. and R. A. Hoke. 1990. Freshwater sediment quality criteria: toxicity bioassessment. pp. 265-348. In R. Baudo, J. Giesy and H. Muntau (Eds.). ***Sediments: The Chemistry and Toxicology of In-Place Pollutants***. Lewis Publishers, Chelsea, Michigan.
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- (BC-34) Poppenga, R. H., B. J. Thacker, J. P. Giesy, C. Weis and J. M. Lavelle. 1991. Bioavailability of lead in mining wastes: an oral intubation study in young swine. pp. 105-111. In: *Science Review Proceedings of Bioavailability and Dietary Exposure of Lead.* Sept. 24-27, 1990, Chapel Hill, N.C.
- (BC-35) Ludwig, J. P., M. E. Ludwig, H. J. Auman, P. D. Jones, J. P. Giesy, D. Verbrugge, B. Chisholm and W. Swain. 1992. The uptake of toxic contaminants by double-crested cormorants, Caspian terns and herring gulls from forage fish in the upper Great Lakes: The Basis of a Model for Great Lakes Fish-eating Warm-blooded Wildlife Species. In: *Proceedings of Cause-Effects Linkages in the Great Lakes.* Lewis Press, Chelsea, MI.
- (BC-36) Gillman, A., P. Beland, T. Colborn, G. Fox, J. Giesy, J. Hesse, T. Kubiak and D. Piekavz. 1991. Environmental and wildlife toxicology of exposure to toxic chemicals. pp.61-69. In: R.W. Flint and J. Vena (Eds.). *Human Health Risks from Chemical Exposure: The Great Lakes Ecosystem.* Lewis Publishers, Inc. Chelsea, MI.
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**PUBLISHED REPORTS:**

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