

# 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**

<http://scholar.google.com/citations?user=vt-PMP8AAAAJ&hl=en>

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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 1,370 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 108,996 citations. His i10 Index (number of papers cited more than 10 times) is 1196. 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.

**TEXTBOOKS (4):**

- (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:  
<https://gwftest.usask.ca/outreach/science-features/edna-for-aquatic-ecosystem-monitoring.php>

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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.

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- (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.
- (BC-30) Reijnders, P., J. P. Giesy, G. T. Ankley, P. Matthiessen and M. Depledge. 2002. Wildlife. In: ***Global Assessment of the State-of-the-Science of Endocrine Disruptors (EDCs)***. World Health Organization/United Nations Environment Programme, International Programme of Chemical Safety, Geneva, Switzerland.
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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:**

Progress and completion reports are required for all funded projects and are not listed here. Some reports undergo technical review and subsequently are published as documents, which are circulated publicly or are available from the agency. These reports are listed in this section.

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