GEORGIOS GIOVANOULIS

ASSISTANT PROFESSOR
UNIVERSITY OF THESSALY, GREECE

CONTACT

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SKILLS

- Analytical Chemistry
- Environmental monitoring
- Chemical Screening
- Mass spectrometry
- Sampling Strategies
- Risk assessment
- Food Safety
- Waste management
- Life Cycle Assessment
- Project Management

LANGUAGES

- Greek (Mother tongue)
- English (Full professional)
- Swedish (Intermediate)

JOURNALS

- Editorial board member

Journal of environmental Exposure Assessment (JEEA)

- Reviewer

Elsevier, American Chemical Society and Springer

PROFILE

Environmental Analytical Chemist specializing in method development and validation of analytical procedures for environmental and biological monitoring of organic pollutants using chromatography and tandem mass spectrometry (LC-MS/MS, GC-MS/MS, HRMS).
Expertise in human exposure assessment and risk evaluation of hazardous organic chemicals, including plasticizers, PFAS, bisphenols and pesticides. Background in waste management and life cycle assessment, contributing to sustainable environmental solutions.

WORK EXPERIENCE

Department of Environmental Sciences, University of Thessaly 2024 - PRESENT

Assistant Professor

- Teaching courses
- Mentoring students in environmental chemistry and sustainability
- Project management and collaboration
- Research

IVL Swedish Environmental Research Institute

Environmental Expert - Project Manager 2017 - 2024
Early Stage researcher - Marie Curie fellowship 2013 - 2016

- Research in environmental monitoring and human chemical exposure
- Participation and funding in international projects (EU Horizon)
- Method Development and Innovation
- Consulting assigments. Scientific writing and publishing

Department of Environmental Science and Analytical Chemistry, Stockholm University 2016 - 2017

- PhD candidate
- Teaching as lab assistant

Pharmaceutical and Food Industry

QC Analyst 2009 - 2011

- Quality controller in the production line. Raw materials testing
- Quality inspection, auditing, process analysis and reliability

EDUCATION

PhD in Applied Environmental Science 2017
MSc in Analytical Chemistry 2013
Stockholm University, Sweden

MSc in Biotechnology - Quality assessment in nutrition and the environment 2012
University of Thessaly, Greece

BSc in Chemistry 2008
Aristotle University of Thessaloniki, Greece

Peer-Reviewed Publications

1. Liagkouridis I, Giovanoulis G, Thorsén G (2025).
   "Assessing the Environmental Transformation of Alternative Chemicals Using in Silico Tools, (Bio)degradation Testing and Suspect Screening – A Case Study of Emerging Alternative Plasticizers." Emerging Contaminants, Volume 11, Issue 1, 100430.
   Link
2. Haglund P, Alygizakis NA, Covaci A, Melymuk L, Bohlin Nizzetto P, Rostkowski P, Albinet A, Alirai S, Aurich D, Bieber S, Ballesteros-Gómez A, Brennan AA, Budzinski H, Castro G, den Ouden F, Dévier MH, Dulio V, Feng YL, Gabriel M, Gallampois C, García-Vara M, Giovanoulis G et al. (2024).
   "*Comprehensive characterization of European house dust contaminants: Concentrations and profiles, geographical variability, and implications for chemical regulation and health risk." Science of The Total Environment, Volume 957, 177639.*
   Link
3. Strandberg J., Waldetoft H., Egelrud L., Backlund A., Cascone C., Thorsén G., Potter A., Giovanoulis G. (2024).
   "Characterization of fuel-induced water contamination: chemical composition, odor threshold, and ecotoxicological implications." Journal of Environmental Exposure Assessment, Volume 3, 20.
   Link
4. Langer S, Weschler CJ, Beko G, Glenn Morrison G, Sjöblom A, Giovanoulis G, Wargocki P, Wang N, Zannoni N, Yang S, Williams J (2024).
   "Squalene Depletion in Skin Following Human Exposure to Ozone under Controlled Chamber Conditions." Environmental Science & Technology.
   Link
5. Qadeera A, Anisa M, Warner GR, Potts C, Giovanoulis G (2024).
   "Global Environmental and Toxicological Data of Emerging Plasticizers: Current Knowledge, Regrettable Substitution Dilemma, Green Solution and Future Perspectives." Green Chemistry.
   Link
6. Selin E, Wänn M, Svensson K, Gravenfors E, Giovanoulis G, Oskarsson A, Lundqvist J (2022).
   "Hazardous chemicals in non-polar extracts from paper and cardboard food packaging: an effect-based evaluation." Environmental Sciences Europe.
   Link
7. Selin E, Svensson K, Gravenfors E, Giovanoulis G, Iida M, Oskarsson A, Lundqvist J (2021).
   "Food contact materials: an effect-based evaluation of the presence of hazardous chemicals in paper and cardboard packaging." Food Additives & Contaminants: Part A.
   Link

8. Langer S, de Wit CA, Giovanoulis G, Fäldt J, Karlson L (2020).
"The effect of reduction measures on concentrations of hazardous semivolatile organic compounds in indoor air and dust of Swedish preschools." Indoor Air.
Link
9. Giovanoulis G, Bui T, Xu F, Papadopoulou E, Padilla-Sanchez JA, Covaci A, Haug LS, Cousins AP, Magnér J, Cousins IT, de Wit CA (2020).
Corrigendum to "Multi-pathway human exposure assessment of phthalate esters and DINCH". Environment International.
Link
10. Giovanoulis G, Nguyen AM, Arwidsson M, Langer S, Vestergren R, Lagerqvist A (2019).
"Reduction of hazardous chemicals in Swedish preschool dust through article substitution actions." Environment International.
Link
11. Poothong S, Padilla-Sánchez JA, Papadopoulou E, Giovanoulis G, Thomsen C, Haug LS (2019).
"Hand Wipes: A useful tool for Assessing Human Exposure to Poly- and Perfluoroalkyl Substances (PFASs) through Hand-to-Mouth and Dermal Contacts." Environmental Science & Technology.
Link
12. Giovanoulis G, Bui T, Xu F, Papadopoulou E, Padilla-Sanchez JA, Covaci A, Haug LS, Cousins AP, Magnér J, Cousins IT, de Wit CA (2018).
Multi-pathway human exposure assessment of phthalate esters and alternative plasticizers. Environment International.
Link
13. Winkens K, Giovanoulis G, Koponen J, Vestergren R, Berger U, Karvonen AM, Pekkanen J, Kiviranta H, Cousins IT (2018).
"Perfluoroalkyl acids and their precursors in floor dust of children's bedrooms – Implications for indoor exposure." Environment International.
Link
14. Kademoglou K, Giovanoulis G, Cousins AP, Padilla-Sanchez JA, Magnér J, de Wit CA, Collins C (2018).
"In Vitro Inhalation Bioaccessibility of Phthalate Esters and Alternative Plasticizers Present in Indoor Dust Using Artificial Lung Fluids." Environmental Science & Technology Letters.
Link
15. Liagkouridis I, Lazarov B, Giovanoulis G, Cousins IT (2017).
"Mass transfer of an organophosphate flame retardant between product source and dust in direct contact." Emerging Contaminants.
Link
16. Alves A, Giovanoulis G, Nilsson U, Erratico C, Lucattini L, Haug LS, Jacobs G, de Wit CA, Leonards PEG, Covaci A, Magner J, Voorspoels S (2017).
"Case Study on Screening Emerging Pollutants in Urine and Nails." Environmental Science &

Technology.
Link

17. Larsson K, Lindh C, Jönsson B, Giovanoulis G, Bibi M, Bottai M, Bergström A, Berglund M (2017).
"Phthalates, non-phthalate plasticizers and bisphenols in Swedish preschool dust in relation to children's exposure." Environment International.
Link
18. Giovanoulis G, Alves A, Papadopoulou E, Cousins AP, Schütze A, Koch HM, Haug LS, Covaci A, Magnér J, Voorspoels S (2016).
"Evaluation of exposure to phthalate esters and DINCH in urine and nails from a Norwegian study population." Environmental Research.
Link
19. Xu F, Giovanoulis G, van Waes S, Padilla-Sanchez JA, Papadopoulou E, Magnér J, Haug LS, Neels H, Covaci A (2016).
"Comprehensive Study of Human External Exposure to Organophosphate Flame Retardants via Air, Dust, and Hand Wipes: The Importance of Sampling and Assessment Strategy." Environmental Science & Technology.
Link
20. Bui TT, Giovanoulis G, Cousins AP, Magnér J, Cousins IT, de Wit CA (2016).
"Human exposure, hazard and risk of alternative plasticizers to phthalate esters." Science of the Total Environment.
Link

Technical Reports

21. Giovanoulis G, Ibrahim R, Liagkouridis I, Egelrud L, Awad R (2025). *"Provtagning och kemisk analys inom hälsorelaterad miljögiftsövervakning 2024 – Kemikaliebelastning i 21 förskolors innemiljö" IVL Report C*
22. Strandberg J, Waldetoft H, Giovanoulis G, Egelrud L, Thorsén G, Potter A (2022).
"Odour and ecotoxicity in water from fuels of varying content of non-fossil components: Odour threshold values, predictive modelling and ecotox data." IVL Report B2438.
Link
23. Giovanoulis G, Aasa J, Benskin J, Plassmann M, Nguyen M, Awad R, Vestergren R (2020).
"Analysis of PFAS, phthalates, alternative plasticizers and organophosphate esters in sludge. Commissioned by Swedish Environmental Protection Agency (Naturvårdsverket)." IVL Report U6235.
Link
24. Langer S, Fridén H, Giovanoulis G, Thorsén G (2020).
"Chemical-smart preschool - Chemical load in the indoor environment of three preschools." IVL Report C550.
Link

25. Nerentorp M, Giovanoulis G, Hansson K, Brorström-Lundén E (2019).
"Atmospheric concentrations of organophosphates - At background stations in Sweden (Råö, Norunda) and Finland (Pallas)." IVL Report C439.
Link
26. Giovanoulis G. (2017).
"What contributes to human body burdens of phthalate esters? An experimental approach." Stockholm University.
Link