Professor Jonathan W. Martin, Ph.D.

jon.martin@aces.su.se | jon.martin@scilifelab.se | +46 721462773

Academic and Leadership Appointments	**Professor, Stockholm University (2016-present)** Department of Environmental Science (ACES), Exposure & Effects Unit (ACESx) **Unit Head, Exposure & Effects Unit (ACESx), Department of ACES (2023-present)** Stockholm University **Scientific Director, SciLifeLab National Facility for Exposomics (2021-present)** SciLifeLab Metabolomics Platform **Professor, University of Alberta (2004-2017)** Faculty of Medicine & Dentistry, Division of Analytical & Environmental Toxicology, Adjunct Professor 2017-2021 Associate Professor (2010-2014), Assistant Professor (2004-2010) **Graduate Program Chair, University of Alberta, Department of Laboratory Medicine and Pathology (2008-2012)** Faculty of Medicine & Dentistry **Adjunct Professor, Department of Chemistry, University of Alberta (2008-2012)**, Faculty of Science
Postdoctoral Appointments	**NSERC Postdoctoral Fellow, University of Toronto (2003-2004)** Graduate Department of Pharmaceutical Sciences, Supervisor Dr. Peter J O'Brien, **Postdoctoral Fellow, University of Toronto (2002-2003)** Department of Chemistry, Supervisor Dr. Scott A Mabury
Degrees	**Ph.D. Toxicology (1998-2002), University of Guelph** Co-Supervisors Drs. Derek CG Muir, Keith R Solomon **B.Sc. Toxicology (1994-1998), University of Guelph** Honours and Distinction
Journal Editorial Positions	**Associate Editor (2020-present)**, *Environmental Science & Technology Letters* **Editorial Board Member (2021-present)**, *Exposome* **Associate Editor (2015-2020)**, *Journal of Environmental Sciences* **Guest Editor (2015)**, *Proceedings of the National Academy of Sciences* **Editorial Board Member (2014-2018)**, *Science of the Total Environment* **Editorial Board Member (2008-2011)**, *Environmental Toxicology and Chemistry*
National Science Committees and Grant Review Panels	**Fonds National de la Research Luxembourg, ATTRACT Programme Expert Panel Member (2018)** University of Luxembourg, Luxembourg **Swedish Foundation for Strategic Environmental Research, Scientific Review Committee on PFAS (2013-2017)** MISTRA, Stockholm, Sweden **Chemicals Management Plan Science Committee, Core Member (2013-2016)** Health Canada / Environment Canada, Safe Environments Directorate. Ottawa, Canada **SETAC Chemistry Advisory Group Steering Committee (2012-2015)** Society of Environmental Toxicology and Chemistry **Natural Sciences & Engineering Research Council (NSERC), Grant Selections Panel (2011-2014)** Strategic Grants Program. Ottawa, Canada **US National Institutes of Environmental Health Sciences (NIEHS) Special Emphasis Review Panel (2006, 2008)**
Scholarly Profiles	Google Scholar: h-index=87, total citations > 26,000 — Scopus ID 9270827400 ORCID 0000-0001-6265-4294 — ResearcherID J-3824-2013

Awards

Elected to Royal Society of Canada College of New Scholars, Artists and Scientists (2015-2022)

Nominated by a Fellow of the Royal Society of Canada, elected members of the RSC College are Canadians who have demonstrated exceptional accomplishment at an early career stage.

Annual Award for Excellence in Mentoring (2015)

Awarded by the Faculty of Medicine & Dentistry, University of Alberta, this recognizes outstanding mentoring of graduate students.

Thomson Reuters Highly Cited Researcher and World's Most Influential Scientific Minds (2014)

Three thousand researchers in the world, and <100 in Canada, earned this distinction in 2014 by authoring the greatest numbers of reports officially designated by Essential Science Indicators℠ as Highly Cited Papers—ranking among the top 1% most cited for their subject field over a 10 year period.

ES&T Excellence in Review Award (2011)

From the highly cited journal *Environmental Science & Technology*, this award recognizes "service in providing scholarly and timely reviews".

Fred Beamish Award, Canadian Society for Chemistry (2011)

Awarded annually and recognizes an individual who demonstrates innovation in research in analytical chemistry, where the research is anticipated to have significant potential for practical applications.

International Young Scholar, National Natural Science Foundation of China (2011)

To foster research collaboration between young international scientists and Chinese Universities.

Alberta Ingenuity New Faculty Award (2006)

Provides startup to outstanding new faculty members in Alberta. Providing significant funding as they set-up their first research laboratory guarantees that these researchers will have an impact on Alberta's academic landscape.

Leaders Opportunity Fund Award, Canada Foundation for Innovation (2006)

To recognize leaders who strengthen Canada's capacity for world-class research and technology development.

SETAC Roy F Weston Environmental Chemistry Award (2005)

To encourage the advancement of environmental problem solving, and to support the professional development of young scientists. The award is given to a scientist under the age of 40 for contributions made to the field of environmental chemistry.

Natural Sciences and Engineering Research Council of Canada (NSERC) Postdoctoral Fellowship (2003)
Competitive Canadian postdoctoral fellowship for research in the area of basic sciences and engineering

Career Citation Rankings

By 2020 my career citation metrics ranked in the top 0.4% of environmental scientists, and top 0.36% among all scientists and scientific disciplines. https://doi.org/10.1371/journal.pbio.3000918

Graduate Teaching

2020-present	*Contaminant Analysis*, SU, Dept Environmental Science (1 d/yr)
2020-present	*Research Trends in Toxicology*, SU, Dept Environmental Science (Course Responsible, 3 wk/yr)
2020-present	*Toxicology for Environmental Scientists*, SU, Dept Environmental Science (1 week/yr)
2020-present	*Large-Scale Challenges to Climate and Environment*, SU, Dept Environmental Science (1 d/yr)
2017-present	*Introduction to Environmental Chemistry*, SU, Dept Environmental Science (1d/yr)
2015-2016	*Toxicology and Regulation*, UofA, Dept Lab Medicine & Pathology (Main instructor, 65 hr/yr)
2013-2016	*Analytical Environmental Toxicology*, UofA, Lab Medicine & Pathology (Co-instructor, 35 hr/yr)
2013-2015	*Children's Health and the Environment*, UofA, Dept Pediatrics (5 hr/yr)
2009-2016	*Experimental Design & Scientific Commun.*, UofA, Dept Lab Medicine & Pathology (3 hr/yr)
2005-2013	*Principles of Toxicology*, UofA, Dept Public Health Sciences (Main instructor, 65 hr/yr)
2008-2009	*Introduction to Environmental Health*, UofA, Dept Public Health Sciences (5 hrs/yr)
2004-2010	*Environmental Exposure Assessment*, UofA, Dept Public Health Sciences (6 hrs/yr)

Undergraduate Teaching

2018-present	*Introduction to Environmental Chemistry*, SU, Dept Environmental Science (1 d/yr)
2014-2016	*Applied Toxicology*, UofA, Medical Laboratory Sciences Program (3 hr/yr)
2010-2012	*Environmental Chemistry*, UofA, Dept Chemistry (3 hr/yr)
2006-2008	*People, Pollution and the Environment*, UofA, Dept Biological Science (3 hrs/yr)

Peer-Review Publications

227. Møller MT, Birch H, Sjøholm KK, Papazian S, Wennberg AC, Bonnefille B, Kronsbein PM, Kelland MA, Martin JW, Mayer P. Persistence-Directed Testing of Chemicals Discharged from Offshore Oil Platforms Combined with Nontargeted Analysis. *Environmental Science & Technology.* 59: Accepted. DOI

226. Munthe J, Bergström L, Bolinius D, Cotgreave I, Hellström AK, Holmquist H, Johansson M, Julander A, Lihammar R, Martin JW, Martin-Matute B, Mathew A, Rydberg T, Skedung L, Witala M, Syren PO. 2025. Progress and future outlook towards a safe and sustainable production and use of chemicals. *Communications Chemistry*. Accepted. DOI

225. Fossi MC, Limonta G, Baini, Urban R J, Athanassiadis I, Martin JW, Papazian S, Rosso M, Panti C. Fin Whale as a Sink of Legacy and Emerging Contaminants: First Integrated Chemical Exposomics and Gene Expression Analysis in Cetaceans. 2025. *Environmental Science & Technology.* 59: 11477. DOI

224. England-Mason G, MacEachern SJ, Amador K, Soomro MH, Reardon AJF, MacDonald AM, Kinniburgh DW, Letourneau N, Giesbrecht GF, Martin JW, Forkert ND, Dewey D. 2025. Using machine learning to investigate the influence of the prenatal chemical exposome on neurodevelopment of young children. *NeuroToxicology*. 108: 218. DOI

223. Froment J, Park J-U, Kim S-W, Cho Y, Choi, Seo YH, Baik S, Lee JE, Martin JW. 2025. Exploring the chemical complexity and sources of airborne fine particulate matter in east Asia by nontarget analysis and multivariate modeling. *Environmental Science & Technology.* 59: 2623. DOI

222. England-Mason G, Reardon AJF, Reynolds JE, Grohs MN, MacDonald AM, Kinniburgh DW, Martin JW, Lebel C, Dewey D. 2025. Maternal concentrations of perfluoroalkyl sulfonates and alterations in white matter microstructure in the developing brains of young children. *Environmental Research*. 267: 120638. DOI.

221. Edlund J, Sdougkou K, Papazian S, Wu WY-Y, Martin JW, Harlid S. 2024. Chemical exposomics in biobanked plasma samples and associations with breast cancer risk factors. *Journal of Exposure Science and Environmental Epidemiology*. DOI

220. Lin H, Zhong C, Wen R, Hin Ma T, He D, Martin JW, Goss GG, Alessi DS, He Y. 2025. Identification and hazard prioritization of hydrophobic organic chemicals in flowback and produced water particles: Implications for water management. *Water Research*. 268: 122674. DOI

219. Xie H, Sdougkou K, Bonnefille B, Papazian S, Bergdahl IA, Rantakokko P, Martin JW. 2024. Chemical exposomics in human plasma by lipid removal and large volume injection gas chromatography high-resolution mass spectrometry. *Environmental Science & Technology.* 58: 17592. DOI

218. Peets P, Rian MB, Martin JW, Kruve A. 2024. Evaluation of non-targeted mass spectral data acquisition strategies for water analysis and toxicity-based feature prioritization by MS2Tox. *Environmental Science & Technology.* 58: 17406. DOI

217. Sdougkou K, Papazian S, Bonnefille B, Xie H, Edfors F, Fagerberg L, Uhlén M, Bergström G, Martin LJ, Martin JW. 2024. Longitudinal exposomics in a multiomic wellness cohort reveals distinctive and dynamic environmental chemical mixtures in blood. *Environmental Science & Technology.* 58: 16302–16315. DOI

216. Strand D, Lundgren B, Bergdahl IA, Martin JW, Karlsson O. 2024. Personalized mixture toxicity testing: A proof-of-principle in vitro study to evaluate the steroidogenic effects of reconstructed contaminant mixtures measured in blood of individual adults. *Environment International*. 108991. DOI

215. England-Mason G, Merrill SM, Liu J, Martin JW, MacDonald AM, Kinniburgh DW, Gladish N, MacIsaac JL, Giesbrecht GF, Letourneau N, Kobor MS, Dewey D. 2024. Sex-specific associations between prenatal exposure to bisphenols and phthalates and infant epigenetic age acceleration. *Epigenomes*. 8: 31. DOI

214. Munawar Hussain Soomro, Gillian England-Mason, Anthony J.F. Reardon, Jiaying Liu, Amy M. MacDonald, David W. Kinniburgh, Jonathan W. Martin, Deborah Dewey. 2024. Maternal exposure to bisphenols, phthalates, perfluoroalkyl acids, and trace elements and their associations with gestational diabetes mellitus in the APrON cohort. *Reproductive Toxicology*. 127: 108612. DOI

213. Strand D, Nylander E, Höglund A, Lundgren B, Martin JW, Karlsson O. 2024. Screening persistent organic pollutants for effects on testosterone and estrogen synthesis at human-relevant concentrations using H295R cells in 96-well plates. *Cell Biology and Toxicology*: 40: 1-16. DOI

212. Lai Y, Koelmel JP, Walker DI, Price EJ, Papazian S, Manz KE, Castilla-Fernández D, Bowden JA, Nikiforov V, David A, Bessonneau V, Amer B, Seethapathy S, Hu X, Lin EZ, Jbebli A, McNeil BR, Barupal D, Cerasa M, Xie H, Kalia V, Nandakumar R, Singh R, Tian Z, Gao P, Zhao Y, Froment J, Rostkowski P, Dubey S, Coufalíková K, Seličová H, Hecht H, Liu S, Udhani HH, Restituito S, Tchou-Wong K-M, Lu K, Martin JW, Warth B, Godri Pollitt

KJ, Klánová J, Fiehn O, Metz TO, Pennell KD, Jones DP, Miller GW. 2024. High-resolution mass spectrometry for human exposomics: expanding chemical space coverage. *Environmental Science & Technology*. 58: 13635. DOI

211. Irvine N, Bell RC, Subhan FB, Field CJ, Liu J, MacDonald AM, Kinniburgh DW, Martin JW. Dewey D, England-Mason G. 2024. Maternal pre-pregnancy BMI influences the associations between bisphenol and phthalate exposures and maternal weight changes and fat accumulation. *Environmental Research*. 257: 119276. DOI

210. Merrill SM, Letourneau N, Giesbrecht GF, Edwards K, MacIsaac JL, Martin JW, MacDonald AM, Kinniburgh DW, Kobor MS, Deborah D, England-Mason G. 2024. Sex-specific associations between prenatal exposure to di(2-ethylhexyl) phthalate, epigenetic age acceleration, and susceptibility to early childhood upper respiratory infections. *Epigenomes*. 8: 3. DOI

209. Zhang Y, Shotyk W, Pelletier R, Zaccone C, Noernberg T, Mullan-Boudreau G, Martin JW. 2023. Sources, spatial-distributions and fluxes of PAH-contaminated dusts in the Athabasca oil sands region. *Environment International*. 182: 108335. DOI

208. Casas G, Iriate J, D'Agostino LA, Roscales JL, Martinez-Varela A, Vila-Costa M, Martin JW, Jimenez B, Dachs J. 2023. Inputs, amplification and sinks of perfluoroalkyl substances at coastal Antarctica. *Environmental Pollution*. 338: 122608. DOI

207. Soomro MH, England-Mason G, Liu J, Reardon AJF, MacDonald AM, Kinniburgh DW, Martin JW, Dewey D. 2023. Associations between the chemical exposome and pregnancy induced hypertension. *Environmental Research*. 2337: 116838. DOI

206. Sepman H, Malm L, Peets P, MacLeod M, Martin JW, Breitholtz M, Kruve A. 2023.Bypassing the identification: MS2Quant for concentration estimations of chemicals detected with nontarget LC-HRMS from MS2 data. *Analytical Chemistry*. 95: 12329. DOI

205. Dewapriya P, Nilsson S, Gorji SG, O'Brien JW, Bräunig J, Gómez Ramos MJ, Donaldson E, Samanipour S, Martin JW, Mueller JF, Kaserzon SL, Thomas KV. Novel per- and polyfluoroalkyl substances discovered in cattle exposed to AFFF-impacted groundwater. 2023. *Environmental Science & Technology*. 57: 13635. DOI

204. Dewey D, Martin JW, MacDonald AM, Kinniburgh DW, Letourneau N, Giesbrecht GF, Field CJ, Bell RC, England-Mason G. 2023. Sex-specific associations between maternal phthalate exposure and neurodevelopmental outcomes in children at 2 years of age in the APrON cohort. *Neurotoxicology*. 98: 48-60. DOI

203. Elihn K, Dalmijn J, Froment J, Håland A, Johanssona JH, Karlsson HL, Martin JW, Mikoviny T, Norman M, Piel F, Sadiktsis I, Schlesinger D, Silvergren S, Srikanth Vallabani NV, Wisthaler A, Steimer SS. 2023 Air quality impacts of a large waste fire in Stockholm, Sweden. *Atmospheric Environment*. 315: 120124. DOI

202. Reardon AJF, Hajihosseini M, Dinu I, Field CJ, Kinniburgh DW, MacDonald AM, Dewey D, England-Mason G, Martin JW. 2023. Maternal co-exposure to mercury and perfluoroalkyl acid isomers and their associations with child neurodevelopment in a Canadian birth cohort. *Environment International.* 178: 108087. DOI

201. Souihi A, Mohai MP, Martin JW, Kruve A. 2023. Mobile phase and column chemistry selection for high sensitivity non-targeted LC/ESI/HRMS screening of water. *Analytica Chemica Acta*. 1274: 341573. DOI

200. Sdougkou K, Xie H, Papazian S, Bonnefille B, Bergdahl IA, Martin JW. 2023. Phospholipid removal for enhanced chemical exposomics in human plasma. *Environmental Science & Technology*. 57: 10173. DOI

199. Sevelsted A, Tingskov Pedersen C-E, Gürdeniz G, Rasmussen MA, Schullehner J, Sdougkou K, Martin JW, Lasky-Su J, Morin A, Ober C, Malby Schoos A-M, Stokholm J, Bønnelykke K, Chawes B, Bisgaard H. 2023. Exposures to perfluoroalkyl substances and asthma phenotypes in childhood: an investigation of the COPSAC2010 cohort. *eBioMedicine* 94: 104699. DOI

198. Irvine N, England-Mason G, Field CJ, Letourneau N, Bell RC, Giesbrecht GF, Kinniburgh DW, MacDonald AM, Martin JW, Dewey D. 2023. Associations between maternal folate status and choline intake during pregnancy and neurodevelopment at 3–4 years of age in the Alberta Pregnancy Outcomes and Nutrition (APrON) study. *Journal of Developmental Origins of Health and Disease*. 14: 402-414. DOI

197. Bonnefille B, Karlsson O, Rian MB, Raqib R, Parvez F, Papazian S, Islam MS, Martin JW. 2023. Nontarget analysis of polluted surface waters in Bangladesh using open science workflows. *Environmental Science & Technology.* 57: 6808. DOI

196. Gault IGM, Sun C, Martin JW. 2023. Persistent cytotoxicity and endocrine activity in the first oil sands end-pit lake. *ACS ES&T Water*. 3: 366–376. DOI

195. Papazian S, Fornaroli C, Bonnefille B, Pesquet E, Xie H, Martin JW. 2023. Silicone foam for passive sampling and nontarget analysis of air. *Environmental Science & Technology Letters*. 10: 989. DOI

194. Taha HM, Aalizadeh R, Alygizakis N, Antignac J-P, Arp HPH, Bade R, Baker N, Belova L, Bijlsma L, Bolton EE, Brack W, Celma A, Chen W-L, Cheng T, Chirsir P, Čirka L, D'Agostino LA, Feunang YD, Dulio V, Fischer S, Gago-Ferrero P, Galani A, Geueke B, Głowacka N, Glüge J, Groh K, Grosse S, Haglund P, Hakkinen PJ, Hale SE, Hernandez F, Janssen EML, Jonkers T, Kiefer K, Kirchner M, Koschorreck J, Krauss M, Krier J, Lamoree MH, Letzel M, Letzel T, Li Q, Little J, Liu Y, Lunderberg DM, Martin JW, McEachran AD, McLean JA, Meier C, Meijer J, Menger F, Merino C, Muncke J, Muschket M, Neumann M, Neveu V, Ng K, Oberacher H, O'Brien J, Oswald P, Oswaldova M, Picache JA, Postigo C, Ramirez N, Reemtsma T, Renaud J, Rostkowski P, Rüdel H, Salek RM, Samanipour S, Scheringer M, Schliebner I, Schulz W, Schulze T, Sengl M, Shoemaker BA, Sims K, Singer H, Singh RR, Sumarah M, Thiessen PA, Thomas KV, Torres S, Trier X, van Wezel AP, Vermeulen RCH, Vlaanderen JJ, von der Ohe PC, Wang Z, Williams AJ, Willighagen EL, Wishart DS, Zhang J, Thomaidis NS, Hollender J, Slobodnik J, Schymanski EL. 2022. The NORMAN Suspect List Exchange (NORMAN-SLE): facilitating European and worldwide collaboration on suspect screening in high resolution mass spectrometry. *Environmental Sciences Europe.* 34:104. DOI

193. Källsten L, Pierozan P, Martin JW, Karlsson O. 2022. Di-n-butyl phthalate and its monoester metabolite impairs steroid hormone biosynthesis in human cells: Mechanistic in vitro studies. *Cells*. 11: 3029. DOI

192. Peets P, Wang W-C, MacLeod M, Breitholtz M, Martin JW, Kruve A. 2022. MS2Tox machine learning tool for predicting the ecotoxicity of unidentified chemicals in water by nontarget LC-HRMS. *Environmental Science & Technology*. 56: 15508. DOI

191. Koelmel JP, Xie H, Price EJ, Lin EZ, Manz KE, Stelben P, Paige MK, Papazian S, Okeme J, Jones DP, Barupal D, Bowden J, Rostkowski P, Pennell KD, Nikiforov V, Wang T, Hu X, Lai Y, Miller GW, Walker DI, Martin JW, Pollitt KJG. 2022. An actionable annotation scoring framework for gas chromatography–high-resolution mass spectrometry (GC-HRMS). *Exposome*. 2: osac007. DOI

190. Källsten L, Almamoun R, Pierozan P, Nylander E, Sdougkou K, Martin JW, Karlsson O. 2022. Adult exposure to di-n-butyl phthalate (DBP) induces persistent effects on testicular cell markers and testosterone biosynthesis in mice. *International Journal of Molecular Sciences*. 23:8718. DOI

189. Folkerts EJ, Snihur KN, Zhang Y, Martin JW, Alessi DS, Goss GG. 2022. Embryonic cardio-respiratory impairments in rainbow trout (Oncorhynchus mykiss) following exposure to hydraulic fracturing flowback and produced water. *Environmental Pollution*. 310: 119886. DOI

188. Sevelsted A, Gürdeniz G, Rago D, Tingskov Pedersen C-E, Lasky-Su J, Checa A, Zhang P, Wheelock CE, Normann S, Kristensen D, Rasmussen MA, Schullehner J, Sdougkou K, Martin JW, Stokholm J, Bønnelykke K, Bisgaard H, Chawes B. 2022. Effect of perfluoroalkyl exposure in pregnancy and infancy on intrauterine and childhood growth and anthropometry. Sub study from COPSAC2010 birth cohort. *eBioMedicine*. 83: 1-12. DOI

187. Zheng J, Reynolds JE, Long M, Ostertag C, Pollock T, Hamilton M, Dunn JF, Liu J, Martin JW, Grohs M, Landman B, Huoh Y, Dewey D, Kurrasch D, Lebel C. 2022. The effects of prenatal bisphenol A exposure on brain volume of children and young mice. *Environmental Research*. 214: 114040. DOI

186. Abrahamsson D, Siddharth A, Young TM, Sirota M, Park JS, Martin JW, Woodruff TJ. 2022. In silico structure predictions for non-targeted analysis: from physicochemical properties to molecular structures. *Journal of the American Society for Mass Spectrometry*. 33: 1134–1147. DOI

185. MacDonald AM, Gabos S, Braakman S, Cheperdak L, Lee B, Hrudey SE, Le XC, Li XF, Mandal R, Martin JW; Schopflocher D, Lyon ME, Cheung PY, Ackah F, Graydon JA, Reichert M, Lyon AW, Jarrell J, Kinniburgh DW. 2022. Maternal and child biomonitoring strategies and levels of exposure in western Canada during the past fifteen years: The Alberta Biomonitoring Program 2005–2021. *International Journal of Hygiene and Environmental Health.* 244: 113990. DOI

184. Chong Z, Nesbo CL, von Gunten K, Zhang Y, Shao X, Jin R, Konhauser KO, Goss GG, Martin JW, He Y, Qian PY, Lanoil BD. 2022. Complex impacts of hydraulic fracturing return fluids on soil microbial community respiration, structure and functional potentials. *Environmental Microbiology*. DOI

183. England-Mason G., Merrill SM, Gladish N, Moore SR, Giesbrecht G, Letourneau N, MacIsaac JL, MacDonald AM, Kinniburgh DW, Ponsonby AL, Saffery R, Martin JW, Kobor MS, Dewey D, APrON Study Team. 2022.

Prenatal exposure to phthalates and peripheral blood and buccal epithelial DNA methylation in infants: An epigenome-wide association study. *Environment International*. 163: 107183. DOI

182. Papazian S, D'Agostino LA, Sadiktsis I, Froment J, Bonnefille B, Sdougkou K, Xie H, Athanassiadis I, Budhavant K, Dasari S, Andersson A, Gustafsson Ö, Martin JW. 2022. Nontarget mass spectrometry and in silico molecular characterization of air pollution from the Indian subcontinent. *Communications Earth & Environment*. 3: 35. DOI

181. Zhang P, Carlsten C, Chaleckis R, Hanhineva K, Huang M, Isobe T, Koistinen VM, Meister I, Papazian S, Sdougkou K, Xie H, Martin JW, Rappaport SM, Tsugawa H, Walker DI, Woodruff TJ, Wright RO, Wheelock CE. 2021. Defining the scope of exposome studies and research needs from a multidisciplinary perspective. *Environmental Science & Technology Letters*. 8: 839-852. DOI

180. Zhang Y, Pelletier R, Noernberg T, Donner MW, Grant-Weaver I, Martin JW, Shotyk W. 2021. Impact of the 2016 Fort McMurray wildfires on atmospheric deposition of polycyclic aromatic hydrocarbons and trace elements to surrounding ombrotrophic bogs. Environment International. 158: 106910. DOI

179. Lu Y, Zhang Y, Martin JW, Alessi DS, Goss GG, Ren Y, He Y. 2021. Suspended solids-associated toxicity of hydraulic fracturing flowback and produced water on early life stages of zebrafish (*Danio rerio*). *Environmental Pollution.* 287: 117614. DOI

178. Liu J, Martin LJ, Dinu I, Field CJ, Dewey D, Martin JW. 2021. Interaction of prenatal bisphenols, maternal nutrients, and toxic metal exposures on neurodevelopment of 2-year-olds in the APrON Cohort. *Environment International*. 155: 106601. DOI

177. McKew BA, Johnson R, Clothier L, Skeels K, Ross MS, Metodiev M, Frenzel M, Gieg L, Martin JW, Hough M, Whitby C. 2021. Differential protein expression during growth on model and commercial mixtures of naphthenic acids in Pseudomonas fluorescens Pf-5. *MicrobiologyOpen*. 10:e1196. DOI

176. Martin JW. 2021. Revisiting old lessons from classic literature on persistent global pollutants. *Ambio*. 50: 534-538. DOI

175. Li X, Liu Y, Martin JW, Yue Cui J, Lehmler HJ. 2021. Nontarget Analysis Reveals Gut Microbiome-dependent Differences in the Fecal PCB Metabolite Profiles of Germ-Free and Conventional Mice. *Environmental Pollution*. 268: 115726. DOI

176. Milestone CB, Sun C, Martin JW, Bickerton G, Roy JW, Frank RA, Hewitt LM. 2021. Non-target profiling of bitumen influenced waters for the identification of tracers unique to oil sands processed-affected water (OSPW) in the Athabasca watershed of Alberta, Canada. *Rapid Communications in Mass Spectrometry*. 35: e8984. DOI

174. Nyanza EC, Bernier FP, Martin JW, Manyama M, Hatfield J, Dewey D. 2021. Effects of prenatal exposure and co-exposure to metallic or metalloid elements on early infant neurodevelopmental outcomes in areas with small-scale gold mining activities in Northern Tanzania. *Environment International*. 149: 106104 DOI

173. Dulio V, Koschorreck J, van Bavel B, van den Brink P, Hollender J, Munthe J, Schlabach M, Aalizadeh R, Agerstrand M, Ahrens L, Allan I, Alygizakis N, Barcelo' D, Bohlin-Nizzetto P, Boutroup S, Brack W, Bressy A, Christensen JH, Cirka L, Covaci A, Derksen A, Deviller G, Dingemans MML, Engwall M, Fatta-Kassinos D, Gago-Ferrero P, Hernández F, Herzke D, Hilscherová K, Hollert H, Junghans M, Kasprzyk-Hordern B, Keiter S, Kools SAE, Kruve A, Lambropoulou D, Lamoree M, Leonards P, Lopez B, López de Alda M, Lundy L, Makovinská J, Marigómez I, Martin JW, McHugh B, Miège C, O'Toole S, Perkola N, Polesello S, Posthuma L, Rodriguez-Mozaz S, Roessink I, Rostkowski P, Ruedel H, Samanipour S, Schulze T, Schymanski EL, Sengl M, Tarábek P, Hulscher DT, Thomaidis N, Togola A, Valsecchi S, van Leeuwen S, von der Ohe P, Vorkamp K, Vrana B, Slobodnik J. 2020. The NORMAN Association and the European Partnership for Chemicals Risk Assessment (PARC): let's cooperate! *Environmental Sciences Europe*. 32: 100. DOI

172. England-Mason G, Martin JW, MacDonald A, Kinniburgh D, Giesbrecht GF, Letourneau N, Dewey D. 2020. Similar names, different results: Consistency of the associations between prenatal exposure to phthalates and parent-ratings of behavior problems in preschool children. *Environment International*. 142: 105892. DOI

171. England-Mason G, Liu J, Martin JW, Giesbrecht GF, Letourneau N, Dewey D. 2020. Postnatal bisphenol A is associated with increasing difficulties in executive function in preschool children. *Pediatric Research*. 89:686-693. DOI

170. Challis JK, Parajas A, Anderson JC, Asiedu E, Martin JW, Wong CS, Ross MS. 2020. Photodegradation of bitumen-derived organics in oil sands process-affected water. *Environmental Science Processes and Impacts*. 22: 1243-1255. DOI

169. Morandi G, Wiseman S, Sun C, Martin JW, Giesy JP. 2020. Effects of chemical fractions from an oil sands end-pit lake on reproduction of fathead minnows. *Chemosphere*. 249: 126073 DOI

168. England-Mason G, Grohs MN, Reynolds JE, MacDonald A, Kinniburgh D, Liu J, Martin JW, Lebel C, Dewey D. 2020. White matter microstructure mediates the association between prenatal exposure to phthalates and behavior problems in preschool children. *Environmental Research*. 182: 109093. DOI

167. Nyanza E, Dewey D, Martin JW, Manyama M, Hatfield J, Bernier BF. 2020. Maternal exposure to arsenic and mercury and associated risk of adverse birth outcomes in small-scale gold mining communities in Northern Tanzania. *Environment International*. 137: 105450. DOI

166. Mehler WT, Nagel A, Flynn S, Zhang Y, Sun C, Martin JW, Alessi D, Goss GG. 2020. Understanding the effects of hydraulic fracturing flowback and produced water (FPW) to the aquatic invertebrate, Lumbriculus variegatus under various exposure regimes. *Environmental Pollution*. 259: 113889. DOI

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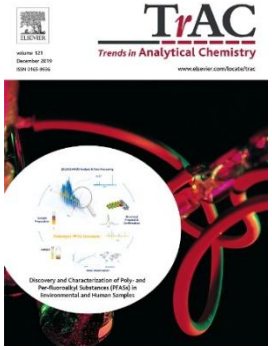
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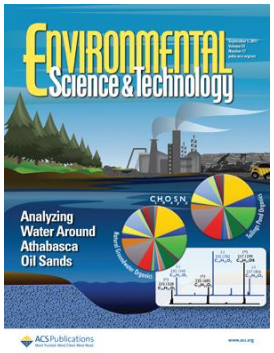
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