

# Knut Erik Tollefsen

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

4,357  
citations

109321

35  
h-index

118850

62  
g-index

104  
all docs

104  
docs citations

104  
times ranked

5783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Bayesian network for probabilistic risk assessment of pesticides. <i>Integrated Environmental Assessment and Management</i> , 2022, 18, 1072-1087.	2.9	9
2	Prediction of adverse biological effects of chemicals using knowledge graph embeddings. <i>Semantic Web</i> , 2022, 13, 299-338.	1.9	3
3	Establishing a communication and engagement strategy to facilitate the adoption of the adverse outcome pathways in radiation research and regulation. <i>International Journal of Radiation Biology</i> , 2022, 98, 1714-1721.	1.8	9
4	The MicroClimate Screen – A microscale climate exposure system for assessing the effect of CO <sub>2</sub> , temperature and UV on marine microalgae. <i>Marine Environmental Research</i> , 2022, 179, 105670.	2.5	1
5	Ultraviolet B modulates gamma radiation-induced stress responses in <i>Lemna minor</i> at multiple levels of biological organisation. <i>Science of the Total Environment</i> , 2022, 846, 157457.	8.0	6
6	Quantification of an Adverse Outcome Pathway Network by Bayesian Regression and Bayesian Network Modeling. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 147-164.	2.9	25
7	AOP Report: Inhibition of Chitin Synthase 1 Leading to Increased Mortality in Arthropods. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 2112-2120.	4.3	14
8	Uranium accumulation and toxicokinetics in the crustacean <i>Daphnia magna</i> provide perspective to toxicodynamic responses. <i>Aquatic Toxicology</i> , 2021, 235, 105836.	4.0	6
9	Susceptibility of polar cod ( <i>Boreogadus saida</i> ) to a model carcinogen. <i>Marine Environmental Research</i> , 2021, 170, 105434.	2.5	0
10	A Bayesian Approach to Incorporating Spatiotemporal Variation and Uncertainty Limits into Modeling of Predicted Environmental Concentrations from Chemical Monitoring Campaigns. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1699-1709.	10.0	5
11	Adverse outcome pathway: a path toward better data consolidation and global co-ordination of radiation research. <i>International Journal of Radiation Biology</i> , 2021, , 1-10.	1.8	17
12	Integrative assessment of low-dose gamma radiation effects on <i>Daphnia magna</i> reproduction: Toxicity pathway assembly and AOP development. <i>Science of the Total Environment</i> , 2020, 705, 135912.	8.0	36
13	Effects of artificial ultraviolet B radiation on the macrophyte <i>Lemna minor</i> : a conceptual study for toxicity pathway characterization. <i>Planta</i> , 2020, 252, 86.	3.2	7
14	De Novo Development of a Quantitative Adverse Outcome Pathway (qAOP) Network for Ultraviolet B (UVB) Radiation Using Targeted Laboratory Tests and Automated Data Mining. <i>Environmental Science &amp; Technology</i> , 2020, 54, 13147-13156.	10.0	22
15	Epigenetic, transcriptional and phenotypic responses in <i>Daphnia magna</i> exposed to low-level ionizing radiation. <i>Environmental Research</i> , 2020, 190, 109930.	7.5	10
16	In Silico Identification of Chemicals Capable of Binding to the Ecdysone Receptor. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1438-1450.	4.3	5
17	In silico site-directed mutagenesis of the <i>Daphnia magna</i> ecdysone receptor identifies critical amino acids for species-specific and inter-species differences in agonist binding. <i>Computational Toxicology</i> , 2019, 12, 100091.	3.3	3
18	No evidence of a protective or cumulative negative effect of UV-B on growth inhibition induced by gamma radiation in Scots pine ( <i>Pinus sylvestris</i> ) seedlings. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1945-1962.	2.9	6

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19	Epigenetic, transcriptional and phenotypic responses in two generations of <i>Daphnia magna</i> exposed to the DNA methylation inhibitor 5-azacytidine. <i>Environmental Epigenetics</i> , 2019, 5, dvz016.	1.8	28
20	Modes of action and adverse effects of gamma radiation in an aquatic macrophyte <i>Lemna minor</i> . <i>Science of the Total Environment</i> , 2019, 680, 23-34.	8.0	36
21	Oxidative stress potential of the herbicides bifenoxy and metribuzin in the microalgae <i>Chlamydomonas reinhardtii</i> . <i>Aquatic Toxicology</i> , 2019, 210, 117-128.	4.0	32
22	Repeatability and Reproducibility of the RTgill-W1 Cell Line Assay for Predicting Fish Acute Toxicity. <i>Toxicological Sciences</i> , 2019, 169, 353-364.	3.1	52
23	Why is the multiple stressor concept of relevance to radioecology?. <i>International Journal of Radiation Biology</i> , 2019, 95, 1015-1024.	1.8	14
24	Transcriptomic analysis reveals dose-dependent modes of action of benzo(a)pyrene in polar cod ( <i>Boreogadus saida</i> ). <i>Science of the Total Environment</i> , 2019, 653, 176-189.	8.0	23
25	Linking mode of action of the model respiratory and photosynthesis uncoupler 3,5-dichlorophenol to adverse outcomes in <i>Lemna minor</i> . <i>Aquatic Toxicology</i> , 2018, 197, 98-108.	4.0	17
26	Mixture effects in samples of multiple contaminants – An inter-laboratory study with manifold bioassays. <i>Environment International</i> , 2018, 114, 95-106.	10.0	113
27	Deciphering the Combined Effects of Environmental Stressors on Gene Transcription: A Conceptual Approach. <i>Environmental Science &amp; Technology</i> , 2018, 52, 5479-5489.	10.0	20
28	Gamma radiation induces dose-dependent oxidative stress and transcriptional alterations in the freshwater crustacean <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2018, 628-629, 206-216.	8.0	27
29	Ecdysteroid and juvenile hormone biosynthesis, receptors and their signaling in the freshwater microcrustacean <i>Daphnia</i> . <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 184, 62-68.	2.5	46
30	Identification of algal growth inhibitors in treated waste water using effect-directed analysis based on non-target screening techniques. <i>Journal of Hazardous Materials</i> , 2018, 358, 494-502.	12.4	24
31	Practical approaches to adverse outcome pathway development and weight-of-evidence evaluation as illustrated by ecotoxicological case studies. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1429-1449.	4.3	39
32	Primary hepatocytes from Arctic char ( <i>Salvelinus alpinus</i> ) as a relevant Arctic in vitro model for screening contaminants and environmental extracts. <i>Aquatic Toxicology</i> , 2017, 187, 141-152.	4.0	8
33	European demonstration program on the effect-based and chemical identification and monitoring of organic pollutants in European surface waters. <i>Science of the Total Environment</i> , 2017, 601-602, 1849-1868.	8.0	151
34	Oxidative stress in the algae <i>Chlamydomonas reinhardtii</i> exposed to biocides. <i>Aquatic Toxicology</i> , 2017, 189, 50-59.	4.0	75
35	Ecdysone Receptor Agonism Leading to Lethal Molting Disruption in Arthropods: Review and Adverse Outcome Pathway Development. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4142-4157.	10.0	99
36	Sensitivity of the green algae <i>Chlamydomonas reinhardtii</i> to gamma radiation: Photosynthetic performance and ROS formation. <i>Aquatic Toxicology</i> , 2017, 183, 1-10.	4.0	64

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37	Mortality and transcriptional effects of inorganic mercury in the marine copepod <i>Calanus finmarchicus</i> . Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 845-861.	2.3	11
38	Mixture toxicity of five biocides with dissimilar modes of action on the growth and photosystem II efficiency of <i>Chlamydomonas reinhardtii</i> . Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 971-986.	2.3	13
39	Release of chitinase as an indicator of potential molting disruption in juvenile <i>Daphnia magna</i> exposed to the ecdysone receptor agonist 20-hydroxyecdysone. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 954-962.	2.3	16
40	Characterizing cytotoxic and estrogenic activity of Arctic char tissue extracts in primary Arctic char hepatocytes. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 1017-1030.	2.3	1
41	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. Toxicological Sciences, 2017, 158, 252-262.	3.1	161
42	Development of a bioanalytical test battery for water quality monitoring: Fingerprinting identified micropollutants and their contribution to effects in surface water. Water Research, 2017, 123, 734-750.	11.3	179
43	Toxicity of organic compounds from unresolved complex mixtures (UCMs) to primary fish hepatocytes. Aquatic Toxicology, 2017, 190, 150-161.	4.0	25
44	6TH NORWEGIAN ENVIRONMENTAL TOXICOLOGY SYMPOSIUM: Assessing and solving environmental challenges in a multiple stressor world. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 805-806.	2.3	2
45	Hepatic transcriptional responses in Atlantic salmon ( <i>Salmo salar</i> ) exposed to gamma radiation and depleted uranium singly and in combination. Science of the Total Environment, 2016, 562, 270-279.	8.0	16
46	Effects of chronic dietary petroleum exposure on reproductive development in polar cod ( <i>Boreogadus saida</i> ). Aquatic Toxicology, 2016, 180, 196-208.	4.0	28
47	Whole-Organism Transcriptomic Analysis Provides Mechanistic Insight into the Acute Toxicity of Emamectin Benzoate in <i>Daphnia magna</i> . Environmental Science & Technology, 2016, 50, 11994-12003.	10.0	35
48	Individual and molecular level effects of produced water contaminants on nauplii and adult females of <i>Calanus finmarchicus</i> . Journal of Toxicology and Environmental Health - Part A: Current Issues, 2016, 79, 585-601.	2.3	19
49	Automated high-throughput in vitro screening of the acetylcholine esterase inhibiting potential of environmental samples, mixtures and single compounds. Ecotoxicology and Environmental Safety, 2016, 130, 74-80.	6.0	8
50	The Challenge: Adverse outcome pathways in research and regulation-Current status and future perspectives. Environmental Toxicology and Chemistry, 2015, 34, 1935-1937.	4.3	7
51	17 $\beta$ -Ethinylestradiol (EE2) effect on global gene expression in primary rainbow trout ( <i>Oncorhynchus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.0	8
52	Evaluation of the sensitivity, responsiveness and reproducibility of primary rainbow trout hepatocyte vitellogenin expression as a screening assay for estrogen mimics. Aquatic Toxicology, 2015, 159, 233-244.	4.0	18
53	Characterization of AhR agonists reveals antagonistic activity in European herring gull ( <i>Larus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	8.8	3
54	Transcriptional changes in Atlantic salmon ( <i>Salmo salar</i> ) after embryonic exposure to road salt. Aquatic Toxicology, 2015, 169, 58-68.	4.0	12

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55	Diofenolan induces male offspring production through binding to the juvenile hormone receptor in <i>Daphnia magna</i> . <i>Aquatic Toxicology</i> , 2015, 159, 44-51.	4.0	32
56	Development of a list of reference chemicals for evaluating alternative methods to in vivo fish bioaccumulation tests. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 2740-2752.	4.3	4
57	Development of a Screening System for the Detection of Chemically Induced DNA Methylation Alterations in a Zebrafish Liver Cell Line. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2014, 77, 587-599.	2.3	14
58	Toxicity Screening of Produced Water Extracts in a Zebrafish Embryo Assay. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2014, 77, 600-615.	2.3	21
59	Hepatic transcriptomic profiling reveals early toxicological mechanisms of uranium in Atlantic salmon ( <i>Salmo salar</i> ). <i>BMC Genomics</i> , 2014, 15, 694.	2.8	35
60	Dose-dependent hepatic transcriptional responses in Atlantic salmon ( <i>Salmo salar</i> ) exposed to sublethal doses of gamma radiation. <i>Aquatic Toxicology</i> , 2014, 156, 52-64.	4.0	17
61	Applying Adverse Outcome Pathways (AOPs) to support Integrated Approaches to Testing and Assessment (IATA). <i>Regulatory Toxicology and Pharmacology</i> , 2014, 70, 629-640.	2.7	291
62	Environmental risk assessment of combined effects in aquatic ecotoxicology: A discussion paper. <i>Marine Environmental Research</i> , 2014, 96, 81-91.	2.5	140
63	Combined effects of pharmaceuticals, personal care products, biocides and organic contaminants on the growth of <i>Skeletonema pseudocostatum</i> . <i>Aquatic Toxicology</i> , 2014, 150, 45-54.	4.0	66
64	Global transcriptional analysis of short-term hepatic stress responses in Atlantic salmon ( <i>Salmo</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	1.3	2
65	A European perspective on alternatives to animal testing for environmental hazard identification and risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , 2013, 67, 506-530.	2.7	139
66	Transgenic (cyp19a1b-GFP) zebrafish embryos as a tool for assessing combined effects of oestrogenic chemicals. <i>Aquatic Toxicology</i> , 2013, 138-139, 88-97.	4.0	39
67	Presence, fate and effects of the intense sweetener sucralose in the aquatic environment. <i>Science of the Total Environment</i> , 2012, 438, 510-516.	8.0	87
68	Toxicity of Synthetic Naphthenic Acids and Mixtures of These to Fish Liver Cells. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5143-5150.	10.0	54
69	Acute and sub-lethal effects in juvenile Atlantic salmon exposed to low $\hat{1}74\text{g/L}$ concentrations of Ag nanoparticles. <i>Aquatic Toxicology</i> , 2012, 108, 78-84.	4.0	98
70	Acetylcholine esterase inhibitors in effluents from oil production platforms in the North Sea. <i>Aquatic Toxicology</i> , 2012, 112-113, 92-98.	4.0	26
71	Early stress responses in Atlantic salmon ( <i>Salmo salar</i> ) exposed to environmentally relevant concentrations of uranium. <i>Aquatic Toxicology</i> , 2012, 112-113, 62-71.	4.0	43
72	Combined effects of oestrogen receptor antagonists on in vitro vitellogenesis. <i>Aquatic Toxicology</i> , 2012, 112-113, 46-53.	4.0	22

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73	Characterization of AhR agonist compounds in roadside snow. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2047-2056.	3.7	7
74	Endocrine Modulation in Atlantic Cod ( <i>Gadus morhua</i> L.) Exposed to Alkylphenols, Polyaromatic Hydrocarbons, Produced Water, and Dispersed Oil. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2011, 74, 529-542.	2.3	40
75	Uptake and effects of manufactured silver nanoparticles in rainbow trout ( <i>Oncorhynchus mykiss</i> ) gill cells. <i>Aquatic Toxicology</i> , 2011, 101, 117-125.	4.0	151
76	Assessing combined toxicity of estrogen receptor agonists in a primary culture of rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatocytes. <i>Aquatic Toxicology</i> , 2011, 101, 186-195.	4.0	40
77	Toxicity of the ichthyotoxic marine flagellate <i>Pseudochattonella</i> (Dictyochophyceae, Heterokonta) assessed by six bioassays. <i>Harmful Algae</i> , 2011, 10, 144-154.	4.8	30
78	Assessment of toxicological profiles of the municipal wastewater effluents using chemical analyses and bioassays. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 844-851.	6.0	88
79	Hepatic gene expression profile in brown trout ( <i>Salmo trutta</i> ) exposed to traffic related contaminants. <i>Science of the Total Environment</i> , 2011, 409, 1430-1443.	8.0	17
80	Bioconcentration of the intense sweetener sucralose in a multitrophic battery of aquatic organisms. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 673-681.	4.3	36
81	Exposure of brown trout ( <i>Salmo trutta</i> L.) to tunnel wash water runoff " Chemical characterisation and biological impact. <i>Science of the Total Environment</i> , 2010, 408, 2646-2656.	8.0	24
82	Monitoring North Sea oil production discharges using passive sampling devices coupled with in vitro bioassay techniques. <i>Journal of Environmental Monitoring</i> , 2010, 12, 1699.	2.1	25
83	Evaluation of the suitability of recombinant yeast-based estrogenicity assays as a pre-screening tool in environmental samples. <i>Environment International</i> , 2010, 36, 361-367.	10.0	24
84	Cytotoxicity of atorvastatin and simvastatin on primary rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatocytes. <i>Toxicology in Vitro</i> , 2010, 24, 1610-1618.	2.4	34
85	Effects of silver and gold nanoparticles on rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatocytes. <i>Aquatic Toxicology</i> , 2010, 96, 44-52.	4.0	179
86	Monitoring the freely dissolved concentrations of polycyclic aromatic hydrocarbons (PAH) and alkylphenols (AP) around a Norwegian oil platform by holistic passive sampling. <i>Marine Pollution Bulletin</i> , 2009, 58, 1671-1679.	5.0	69
87	Balsa Raft Crossing the Pacific Finds Low Contaminant Levels. <i>Environmental Science &amp; Technology</i> , 2009, 43, 4783-4790.	10.0	42
88	Effect-Directed Identification of Naphthenic Acids As Important in Vitro Xeno-Estrogens and Anti-Androgens in North Sea Offshore Produced Water Discharges. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8066-8071.	10.0	144
89	Accumulation and disposition of hexabromocyclododecane (HBCD) in juvenile rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Aquatic Toxicology</i> , 2009, 95, 144-151.	4.0	28
90	Chronic toxicity of the Sava River (SE Europe) sediments and river water to the algae <i>Pseudokirchneriella subcapitata</i> . <i>Water Research</i> , 2008, 42, 2146-2156.	11.3	24

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91	The partial pressure of oxygen affects biomarkers of oxidative stress in cultured rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatocytes. <i>Toxicology in Vitro</i> , 2008, 22, 1657-1661.	2.4	12
92	Binding of alkylphenols and alkylated non-phenolics to rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatic estrogen receptors. <i>Ecotoxicology and Environmental Safety</i> , 2008, 69, 163-172.	6.0	41
93	Estrogenicity of alkylphenols and alkylated non-phenolics in a rainbow trout ( <i>Oncorhynchus mykiss</i> ) primary hepatocyte culture. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 370-383.	6.0	49
94	Uptake of some selected aquatic pollutants in semipermeable membrane devices (SPMDs) and the polar organic chemical integrative sampler (POCIS). <i>Journal of Environmental Monitoring</i> , 2008, 10, 239-247.	2.1	52
95	Toxicogenomic responses in rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatocytes exposed to model chemicals and a synthetic mixture. <i>Aquatic Toxicology</i> , 2007, 81, 293-303.	4.0	68
96	Binding of alkylphenols and alkylated non-phenolics to the rainbow trout ( <i>Oncorhynchus mykiss</i> ) plasma sex steroid-binding protein. <i>Ecotoxicology and Environmental Safety</i> , 2007, 68, 40-48.	6.0	21
97	Occurrence and removal of selected organic micropollutants at mechanical, chemical and advanced wastewater treatment plants in Norway. <i>Water Research</i> , 2006, 40, 3559-3570.	11.3	152
98	Induction of vitellogenin synthesis in an Atlantic salmon ( <i>Salmo salar</i> ) hepatocyte culture: a sensitive in vitro bioassay for the oestrogenic and anti-oestrogenic activity of chemicals. <i>Biomarkers</i> , 2003, 8, 394-407.	1.9	56
99	Environmental estrogens interact with and modulate the properties of plasma sex steroid-binding proteins in juvenile Atlantic salmon ( <i>Salmo salar</i> ). <i>Marine Environmental Research</i> , 2002, 54, 697-701.	2.5	25
100	Estrogen Mimics Bind with Similar Affinity and Specificity to the Hepatic Estrogen Receptor in Atlantic Salmon ( <i>Salmo salar</i> ) and Rainbow Trout ( <i>Oncorhynchus mykiss</i> ). <i>General and Comparative Endocrinology</i> , 2002, 126, 14-22.	1.8	75
101	Partial Characterization of a Sex Steroid-Binding Protein in Plasma from Arctic Charr ( <i>Salvelinus</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 17	1.8	17
102	Reactive Oxygen Species in the Adverse Outcome Pathway Framework: Toward Creation of Harmonized Consensus Key Events. <i>Frontiers in Toxicology</i> , 0, 4, .	3.1	14