

# Erik Björn

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2189093/publications.pdf>

Version: 2024-02-01

81  
papers

3,349  
citations

109311

35  
h-index

161844

54  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3374  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygenâ€deficient water zones in the Baltic Sea promote uncharacterized Hg methylating microorganisms in underlying sediments. <i>Limnology and Oceanography</i> , 2022, 67, 135-146.	3.1	15
2	Methylmercury formation in boreal wetlands in relation to chemical speciation of mercury(II) and concentration of low molecular mass thiols. <i>Science of the Total Environment</i> , 2021, 755, 142666.	8.0	20
3	Quantification of total concentration of thiol functional groups in environmental samples by titration with monobromo(trimethylammonio)bimane and determination with tandem mass spectrometry. <i>Talanta</i> , 2020, 218, 121109.	5.5	9
4	Toward an Internally Consistent Model for Hg(II) Chemical Speciation Calculations in Bacteriumâ€Natural Organic Matterâ€Low Molecular Mass Thiol Systems. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8094-8103.	10.0	11
5	Anaerobic guilds responsible for mercury methylation in boreal wetlands of varied trophic status serving as either a methylmercury source or sink. <i>Environmental Microbiology</i> , 2020, 22, 3685-3699.	3.8	23
6	Determination of picomolar levels of methylmercury complexes with low molecular mass thiols by liquid chromatography tandem mass spectrometry and online preconcentration. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1619-1628.	3.7	4
7	Opposing spatial trends in methylmercury and total mercury along a peatland chronosequence trophic gradient. <i>Science of the Total Environment</i> , 2020, 718, 137306.	8.0	9
8	Uptake Kinetics of Methylmercury in a Freshwater Alga Exposed to Methylmercury Complexes with Environmentally Relevant Thiols. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13757-13766.	10.0	23
9	Microbial Biosynthesis of Thiol Compounds: Implications for Speciation, Cellular Uptake, and Methylation of Hg(II). <i>Environmental Science &amp; Technology</i> , 2019, 53, 8187-8196.	10.0	41
10	Determination of picomolar concentrations of thiol compounds in natural waters and biological samples by tandem mass spectrometry with online preconcentration and isotope-labeling derivatization. <i>Analytica Chimica Acta</i> , 2019, 1067, 71-78.	5.4	10
11	Corrections to Methyl Mercury Formation in Hillslope Soils of Boreal Forests: The Role of Forest Harvest and Anaerobic Microbes. <i>Environmental Science &amp; Technology</i> , 2018, 52, 367-367.	10.0	0
12	Mechanisms of Methyl Mercury Net Degradation in Alder Swamps: The Role of Methanogens and Abiotic Processes. <i>Environmental Science and Technology Letters</i> , 2018, 5, 220-225.	8.7	34
13	High methylmercury formation in ponds fueled by fresh humic and algal derived organic matter. <i>Limnology and Oceanography</i> , 2018, 63, S44.	3.1	58
14	Deciphering the Role of Water Column Redoxclines on Methylmercury Cycling Using Speciation Modeling and Observations From the Baltic Sea. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1498-1513.	4.9	36
15	Influence of dissolved organic matter (DOM) characteristics on dissolved mercury (Hg) species composition in sediment porewater of lakes from southwest China. <i>Water Research</i> , 2018, 146, 146-158.	11.3	113
16	Rapid Dissolution of Cinnabar in Crude Oils at Reservoir Temperatures Facilitated by Reduced Sulfur Ligands. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1022-1028.	2.7	3
17	Thermodynamics of Hg(II) Bonding to Thiol Groups in Suwannee River Natural Organic Matter Resolved by Competitive Ligand Exchange, Hg L <sub>III</sub> -Edge EXAFS and <sup>1</sup> H NMR Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8292-8301.	10.0	53
18	Terrestrial discharges mediate trophic shifts and enhance methylmercury accumulation in estuarine biota. <i>Science Advances</i> , 2017, 3, e1601239.	10.3	88

#	ARTICLE	IF	CITATIONS
19	Screening of biocides, metals and antibiotics in Swedish sewage sludge and wastewater. <i>Water Research</i> , 2017, 115, 318-328.	11.3	176
20	Thermodynamic Modeling of the Solubility and Chemical Speciation of Mercury and Methylmercury Driven by Organic Thiols and Micromolar Sulfide Concentrations in Boreal Wetland Soils. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3678-3686.	10.0	72
21	Thermodynamic stability of mercury(II) complexes formed with environmentally relevant low-molecular-mass thiols studied by competing ligand exchange and density functional theory. <i>Environmental Chemistry</i> , 2017, 14, 243.	1.5	46
22	Forest harvest contribution to Boreal freshwater methyl mercury load. <i>Global Biogeochemical Cycles</i> , 2016, 30, 825-843.	4.9	43
23	Rethinking chemistry in higher education towards technology-enhanced problem-based learning. <i>Education Inquiry</i> , 2016, 7, 27287.	2.9	5
24	Influence of chelation strength and bacterial uptake of gallium salicylidene acylhydrazide on biofilm formation and virulence of <i>Pseudomonas aeruginosa</i> . <i>Journal of Inorganic Biochemistry</i> , 2016, 160, 24-32.	3.5	9
25	Eutrophication Increases Phytoplankton Methylmercury Concentrations in a Coastal Sea—A Baltic Sea Case Study. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11787-11796.	10.0	71
26	Methyl Mercury Formation in Hillslope Soils of Boreal Forests: The Role of Forest Harvest and Anaerobic Microbes. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9177-9186.	10.0	42
27	Fractionation and size-distribution of metal and metalloid contaminants in a polluted groundwater rich in dissolved organic matter. <i>Journal of Hazardous Materials</i> , 2016, 318, 194-202.	12.4	42
28	Effects of Nutrient Loading and Mercury Chemical Speciation on the Formation and Degradation of Methylmercury in Estuarine Sediment. <i>Environmental Science &amp; Technology</i> , 2016, 50, 6983-6990.	10.0	42
29	Assessment of chemical and material contamination in waste wood fuels – A case study ranging over nine years. <i>Waste Management</i> , 2016, 49, 311-319.	7.4	37
30	Persistent Hg contamination and occurrence of Hg-methylating transcript ( <i>hgcA</i> ) downstream of a chlor-alkali plant in the Olt River (Romania). <i>Environmental Science and Pollution Research</i> , 2016, 23, 10529-10541.	5.3	69
31	Mercury Isotope Signatures in Contaminated Sediments as a Tracer for Local Industrial Pollution Sources. <i>Environmental Science &amp; Technology</i> , 2015, 49, 177-185.	10.0	75
32	Determination of Sub-Nanomolar Levels of Low Molecular Mass Thiols in Natural Waters by Liquid Chromatography Tandem Mass Spectrometry after Derivatization with <i>p</i> -(Hydroxymercuri) Benzoate and Online Preconcentration. <i>Analytical Chemistry</i> , 2015, 87, 1089-1096.	6.5	54
33	Trace element landscape of resting and activated human neutrophils on the sub-micrometer level. <i>Metallomics</i> , 2015, 7, 996-1010.	2.4	36
34	Kinetics of Hg(II) Exchange between Organic Ligands, Goethite, and Natural Organic Matter Studied with an Enriched Stable Isotope Approach. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13207-13217.	10.0	48
35	Analytical developments for the determination of monomethylmercury complexes with low molecular mass thiols by reverse phase liquid chromatography hyphenated to inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1339, 50-58.	3.7	11
36	Soluble silica inhibits osteoclast formation and bone resorption in vitro. <i>Acta Biomaterialia</i> , 2014, 10, 406-418.	8.3	99

#	ARTICLE	IF	CITATIONS
37	<i>In vitro</i> study of the biological interface of B <sup>+</sup> O <sup>-</sup> ss: implications of the experimental setup. <i>Clinical Oral Implants Research</i> , 2013, 24, 329-335.	4.5	27
38	Significant interaction effects from sulfate deposition and climate on sulfur concentrations constitute major controls on methylmercury production in peatlands. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 102, 1-11.	3.9	42
39	Calcium binding by the PKD1 domain regulates interdomain flexibility in <i>Vibrio cholerae</i> metalloprotease PrtV. <i>FEBS Open Bio</i> , 2013, 3, 263-270.	2.3	10
40	Extreme zinc tolerance in acidophilic microorganisms from the bacterial and archaeal domains. <i>Extremophiles</i> , 2013, 17, 75-85.	2.3	68
41	Towards Universal Wavelength-Specific Photodegradation Rate Constants for Methyl Mercury in Humic Waters, Exemplified by a Boreal Lake-Wetland Gradient. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6279-6287.	10.0	56
42	Refining Thermodynamic Constants for Mercury(II)-Sulfides in Equilibrium with Metacinnabar at Sub-Micromolar Aqueous Sulfide Concentrations. <i>Environmental Science &amp; Technology</i> , 2013, 47, 4197-4203.	10.0	59
43	Interaction between the Anticancer Drug Cisplatin and the Copper Chaperone Atox1 in Human Melanoma Cells. <i>Protein and Peptide Letters</i> , 2013, 21, 63-68.	0.9	19
44	Determinants for Simultaneous Binding of Copper and Platinum to Human Chaperone Atox1: Hitchhiking not Hijacking. <i>PLoS ONE</i> , 2013, 8, e70473.	2.5	40
45	Eight Boreal Wetlands as Sources and Sinks for Methyl Mercury in Relation to Soil Acidity, C/N Ratio, and Small-Scale Flooding. <i>Environmental Science &amp; Technology</i> , 2012, 46, 8052-8060.	10.0	81
46	Mercury Methylation Rates for Geochemically Relevant Hg <sup>II</sup> Species in Sediments. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11653-11659.	10.0	162
47	Net Degradation of Methyl Mercury in Alder Swamps. <i>Environmental Science &amp; Technology</i> , 2012, 46, 13144-13151.	10.0	25
48	Potential Hg methylation and MeHg demethylation rates related to the nutrient status of different boreal wetlands. <i>Biogeochemistry</i> , 2012, 108, 335-350.	3.5	98
49	The Antibacterial Activity of Ga <sup>3+</sup> Is Influenced by Ligand Complexation as Well as the Bacterial Carbon Source. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 5568-5580.	3.2	60
50	Cisplatin binds human copper chaperone Atox1 and promotes unfolding in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6951-6956.	7.1	94
51	Evaluation of cell lysis methods for platinum metallomic studies of human malignant cells. <i>Analytical Biochemistry</i> , 2010, 396, 76-82.	2.4	33
52	Mobile phase selection for the combined use of liquid chromatography-inductively coupled plasma mass spectrometry and electrospray ionisation mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 4980-4986.	3.7	7
53	Substantial Emission of Gaseous Monomethylmercury from Contaminated Water-Sediment Microcosms. <i>Environmental Science &amp; Technology</i> , 2010, 44, 278-283.	10.0	16
54	Elevated Concentrations of Methyl Mercury in Streams after Forest Clear-Cut: A Consequence of Mobilization from Soil or New Methylation?. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8535-8541.	10.0	61

#	ARTICLE	IF	CITATIONS
55	Potential demethylation rate determinations in relation to concentrations of MeHg, Hg and pore water speciation of MeHg in contaminated sediments. <i>Marine Chemistry</i> , 2008, 112, 93-101.	2.3	22
56	Hydrophilic interaction liquid chromatography (HILIC) coupled to inductively coupled plasma mass spectrometry (ICPMS) utilizing a mobile phase with a low-volatile organic modifier for the determination of cisplatin, and its monohydrolyzed metabolite. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 948.	3.0	29
57	Complexation of cadmium to sulfur and oxygen functional groups in an organic soil. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 604-614.	3.9	58
58	Importance of Dissolved Neutral Mercury Sulfides for Methyl Mercury Production in Contaminated Sediments. <i>Environmental Science &amp; Technology</i> , 2007, 41, 2270-2276.	10.0	190
59	Studies of transport and collection characteristics of gaseous mercury in natural gases using amalgamation and isotope dilution analysis. <i>Analyst, The</i> , 2007, 132, 579-586.	3.5	9
60	Comparison of aerosol properties and ICP-MS analytical performance of the Vulkan direct injection nebuliser and the Direct Injection High Efficiency Nebuliser. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 250-257.	3.0	8
61	Recent Advances in Mercury Speciation Analysis with Focus on Spectrometric Methods and Enriched Stable Isotope Applications. <i>Ambio</i> , 2007, 36, 443-451.	5.5	33
62	Dose and Hg species determine the T-helper cell activation in murine autoimmunity. <i>Toxicology</i> , 2007, 229, 23-32.	4.2	34
63	Determination of platinum in human subcellular microsomes by inductively coupled plasma mass spectrometry. <i>Analytical Biochemistry</i> , 2007, 363, 135-142.	2.4	17
64	Effects of oxic and anoxic filtration on determined methyl mercury concentrations in sediment pore waters. <i>Marine Chemistry</i> , 2007, 103, 76-83.	2.3	11
65	Mercury species in lymphoid and non-lymphoid tissues after exposure to methyl mercury: Correlation with autoimmune parameters during and after treatment in susceptible mice. <i>Toxicology and Applied Pharmacology</i> , 2007, 221, 21-28.	2.8	30
66	Noise characteristics and analytical precision of inductively coupled plasma mass spectrometry using a Vulkan direct injection nebuliser for sample introduction. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 168-176.	3.0	10
67	The immunosuppressive effect of methylmercury does not preclude development of autoimmunity in genetically susceptible mice. <i>Toxicology</i> , 2005, 208, 149-164.	4.2	46
68	Immunosuppressive and autoimmune effects of thimerosal in mice. <i>Toxicology and Applied Pharmacology</i> , 2005, 204, 109-121.	2.8	53
69	Radial ICP characteristics for ICP-AES using direct injection or microconcentric nebulisation. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 645.	3.0	10
70	Methylmercury in tuna: demonstrating measurement capabilities and evaluating comparability of results worldwide from the CCQM P-39 comparison. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1058.	3.0	11
71	Species specific isotope dilution with on line derivatisation for determination of gaseous mercury species. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1232.	3.0	21
72	Validation of a simplified field-adapted procedure for routine determinations of methyl mercury at trace levels in natural water samples using species-specific isotope dilution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 871-875.	3.7	52

#	ARTICLE	IF	CITATIONS
73	Platform-to-platform sample transfer, distribution, dilution, and dosing via electrothermal vaporization and electrostatic deposition. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 737-748.	2.9	13
74	Introduction of high carbon content solvents into inductively coupled plasma mass spectrometry by a direct injection high efficiency nebuliser. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 274-278.	3.7	30
75	Noise characteristics and analytical precision of a direct injection high efficiency and micro concentric nebuliser for sample introduction in inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1257-1263.	3.0	18
76	Calibration errors due to variations in peak characteristics in the measurement of transient signals by inductively coupled plasma-scanning mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1582-1588.	3.0	14
77	The origin of peristaltic pump interference noise harmonics in inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1390-1393.	3.0	17
78	Non-spectral interference effects in inductively coupled plasma mass spectrometry using direct injection high efficiency and microconcentric nebulisation. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 4-11.	3.0	43
79	Investigation of errors introduced by the species distribution of mercury in organic solutions on total mercury determination by electrothermal vaporisation—inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 397-402.	3.0	23
80	Optimisation of operating parameters for simultaneous multi-element determination of antimony, arsenic, bismuth and selenium by hydride generation, graphite atomiser sequestration atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 697-703.	3.0	25
81	Investigation and quantification of spectroscopic interferences from polyatomic species in inductively coupled plasma mass spectrometry using electrothermal vaporization or pneumatic nebulization for sample introduction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998, 53, 1765-1776.	2.9	20