David Amouroux

List of Publications by Year in descending order

207 papers	8,607 citations	31976 53 h-index	66911 78 g-index
214 all docs	214 docs citations	214 times ranked	6943 citing authors

#	Article	IF	Citations
1	A global database of sea surface dimethylsulfide (DMS) measurements and a procedure to predict sea surface DMS as a function of latitude, longitude, and month. Global Biogeochemical Cycles, 1999, 13, 399-444.	4.9	552
2	Mercury methylation, demethylation and reduction rates in coastal and marine surface waters of the Mediterranean Sea. Marine Chemistry, 2007, 107, 49-63.	2.3	245
3	Rapid Determination of Inorganic Mercury and Methylmercury in Biological Reference Materials by Hydride Generation, Cryofocusing, Atomic Absorption Spectrometry After Open Focused Microwave-assisted Alkaline Digestion. Journal of Analytical Atomic Spectrometry, 1997, 12, 743-750.	3.0	170
4	Species-Specific Stable Isotope Fractionation of Mercury during Hg(II) Methylation by an Anaerobic Bacteria (Desulfobulbus propionicus) under Dark Conditions. Environmental Science & Technology, 2009, 43, 9183-9188.	10.0	164
5	Iodine transfers inÂtheÂcoastal marine environment: theÂkey role ofÂbrown algae andÂofÂtheirÂvanadium-dependent haloperoxidases. Biochimie, 2006, 88, 1773-1785.	2.6	155
6	Mercury methylation/demethylation and volatilization pathways in estuarine sediment slurries using species-specific enriched stable isotopes. Marine Chemistry, 2004, 90, 107-123.	2.3	117
7	Tracing Sources and Bioaccumulation of Mercury in Fish of Lake Baikalâ˜' Angara River Using Hg Isotopic Composition. Environmental Science & Technology, 2010, 44, 8030-8037.	10.0	113
8	Overview of Mercury Methylation Capacities among Anaerobic Bacteria Including Representatives of the Sulphate-Reducers: Implications for Environmental Studies. Geomicrobiology Journal, 2009, 26, 1-8.	2.0	110
9	Application of Isotopically Labeled Methylmercury for Isotope Dilution Analysis of Biological Samples Using Gas Chromatography/ICPMS. Analytical Chemistry, 2002, 74, 2505-2512.	6.5	109
10	Mercury speciation in surface and deep waters of the Mediterranean Sea. Marine Chemistry, 2007, 107, 13-30.	2.3	109
11	Simultaneous speciation of mercury and butyltin compounds in natural waters and snow by propylation and species-specific isotope dilution mass spectrometry analysis. Analytical and Bioanalytical Chemistry, 2005, 381, 854-862.	3.7	106
12	Simultaneous determination of mercury methylation and demethylation capacities of various sulfateâ€reducing bacteria using speciesâ€specific isotopic tracers. Environmental Toxicology and Chemistry, 2011, 30, 337-344.	4.3	104
13	Volatilization of Organotin Compounds from Estuarine and Coastal Environments. Environmental Science & Technology, 2000, 34, 988-995.	10.0	102
14	Hg Speciation and Stable Isotope Signatures in Human Hair As a Tracer for Dietary and Occupational Exposure to Mercury. Environmental Science & Technology, 2011, 45, 9910-9916.	10.0	101
15	Simultaneous Determination of Species-Specific Isotopic Composition of Hg by Gas Chromatography Coupled to Multicollector ICPMS. Analytical Chemistry, 2008, 80, 3530-3538.	6.5	99
16	Role of Settling Particles on Mercury Methylation in the Oxic Water Column of Freshwater Systems. Environmental Science & Technology, 2016, 50, 11672-11679.	10.0	99
17	Role of oceans as biogenic sources of selenium. Earth and Planetary Science Letters, 2001, 189, 277-283.	4.4	97
18	Biogenic Gas (CH4, N2O, DMS) Emission to the Atmosphere from Near-shore and Shelf Waters of the North-western Black Sea. Estuarine, Coastal and Shelf Science, 2002, 54, 575-587.	2.1	97

#	Article	IF	Citations
19	Barium and molybdenum records in bivalve shells: Geochemical proxies for phytoplankton dynamics in coastal environments?. Limnology and Oceanography, 2009, 54, 1002-1014.	3.1	97
20	Using Speciated Isotope Dilution with GCâ^'Inductively Coupled Plasma MS To Determine and Unravel the Artificial Formation of Monomethylmercury in Certified Reference Sediments. Analytical Chemistry, 2003, 75, 3202-3211.	6.5	94
21	Sampling and probing volatile metal(loid) species in natural waters by in-situ purge and cryogenic trapping followed by gas chromatography and inductively coupled plasma mass spectrometry (P-CTâ€"GCâ€"ICP/MS). Analytica Chimica Acta, 1998, 377, 241-254.	5.4	93
22	Extremely elevated methyl mercury levels in water, sediment and organisms in a Romanian reservoir affected by release of mercury from a chlor-alkali plant. Water Research, 2014, 49, 391-405.	11.3	93
23	Mercury stable isotope fractionation in six utility boilers of two large coal-fired power plants. Chemical Geology, 2013, 336, 103-111.	3.3	91
24	Biological control of trace metal and organometal benthic fluxes in a eutrophic lagoon (Thau) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	2.1	88
25	Higher Mass-Independent Isotope Fractionation of Methylmercury in the Pelagic Food Web of Lake Baikal (Russia). Environmental Science & Technology, 2012, 46, 5902-5911.	10.0	87
26	Cryofocusing coupled to atomic absorption spectrometry for rapid and simple mercury speciation in environmental matrices. Journal of Analytical Atomic Spectrometry, 1998, 13, 755-764.	3.0	81
27	Evaluating the potential and limitations of double-spiking species-specific isotope dilution analysis for the accurate quantification of mercury species in different environmental matrices. Analytical and Bioanalytical Chemistry, 2008, 390, 655-666.	3.7	81
28	Simultaneous Sample Preparation and Species-Specific Isotope Dilution Mass Spectrometry Analysis of Monomethylmercury and Tributyltin in a Certified Oyster Tissue. Analytical Chemistry, 2003, 75, 4095-4102.	6.5	77
29	Approach to Measure Isotopic Ratios in Species Using Multicollector-ICPMS Coupled with Chromatography. Analytical Chemistry, 2010, 82, 5652-5662.	6.5	76
30	Dynamics of mercury species in surface sediments of a macrotidal estuarineâ€"coastal system (Adour) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.1	74
31	Distribution of mercury and methylmercury in deep-sea surficial sediments of the Mediterranean Sea. Marine Chemistry, 2007, 107, 31-48.	2.3	72
32	Linking Microbial Activities and Low-Molecular-Weight Thiols to Hg Methylation in Biofilms and Periphyton from High-Altitude Tropical Lakes in the Bolivian Altiplano. Environmental Science & Technology, 2018, 52, 9758-9767.	10.0	70
33	Phytoplankton distribution and productivity in a highly turbid, tropical coastal system (Bach Dang) Tj ETQq1 1 0.784314 rgBT /Overlo	5.0	68
34	Matrix-matched quantitative analysis of trace-elements in calcium carbonate shells by laser-ablation ICPâ€"MS: application to the determination of daily scale profiles in scallop shell (Pecten maximus). Analytical and Bioanalytical Chemistry, 2007, 387, 1131-1140.	3.7	67
35	Marsh sediments as records of sedimentation, eutrophication and metal pollution in the urban Delaware Estuary. Marine Chemistry, 2006, 102, 72-95.	2.3	66
36	Maritime emission of selenium to the atmosphere in Eastern Mediterranean seas. Geophysical Research Letters, 1996, 23, 1777-1780.	4.0	64

#	Article	IF	Citations
37	Analysis of heavy metal distribution in superficial estuarine sediments (estuary of Bilbao, Basque) Tj ETQq1 1 0.784314 rgBT /Overlock	8.2	64
38	Characterization of Desulfomicrobium salsuginis sp. nov. and Desulfomicrobium aestuarii sp. nov., two new sulfate-reducing bacteria isolated from the Adour estuary (French Atlantic coast) with specific mercury methylation potentials. Systematic and Applied Microbiology, 2008, 31, 30-37.	2.8	64
39	Potential and limits of speciated isotope-dilution analysis for metrology and assessing environmental reactivity. TrAC - Trends in Analytical Chemistry, 2004, 23, 261-272.	11.4	63
40	Speciation Analysis of Mercury in Aquatic Environment. Applied Spectroscopy Reviews, 2006, 41, 591-619.	6.7	61
41	The biogeochemistry of mercury at the sedimentâ€“water interface in the Thau Lagoon. 2. Evaluation of mercury methylation potential in both surface sediment and the water column. Estuarine, Coastal and Shelf Science, 2007, 72, 485-496.	2.1	61
42	Mercury human exposure through fish consumption in a reservoir contaminated by a chlor-alkali plant: Babeni reservoir (Romania). Environmental Science and Pollution Research, 2010, 17, 1422-1432.	5.3	61
43	Impact of Oil on Bacterial Community Structure in Bioturbated Sediments. PLoS ONE, 2013, 8, e65347.	2.5	61
44	Speciation of Mercury in a Fluid Mud Profile of a Highly Turbid Macrotidal Estuary (Gironde, France). Environmental Science & Technology, 2001, 35, 2627-2633.	10.0	60
45	Identical Hg Isotope Mass Dependent Fractionation Signature during Methylation by Sulfate-Reducing Bacteria in Sulfate and Sulfate-Free Environment. Environmental Science & Technology, 2015, 49, 1365-1373.	10.0	60
46	Specific Pathways of Dietary Methylmercury and Inorganic Mercury Determined by Mercury Speciation and Isotopic Composition in Zebrafish (Danio rerio). Environmental Science & Technology, 2015, 49, 12984-12993.	10.0	60
47	Improvement of analytical performances for mercury speciation by on-line derivatization, cryofocussing and atomic fluorescence spectrometry. Talanta, 2004, 62, 433-438.	5.5	59
48	Mercury bioaccumulation in the aquatic plant Elodea nuttallii in the field and in microcosm: Accumulation in shoots from the water might involve copper transporters. Chemosphere, 2013, 90, 595-602.	8.2	59
49	Evasion of selenium to the atmosphere via biomethylation processes in the Gironde estuary, France. Marine Chemistry, 1997, 58, 173-188.	2.3	58
50	Mercury methylation by a microbial community from sediments of the Adour Estuary (Bay of Biscay,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.5	58
51	High methylmercury production under ferruginous conditions in sediments impacted by sewage treatment plant discharges. Water Research, 2015, 80, 245-255.	11.3	57
52	Distribution and Fate of Inorganic and Organic Arsenic Species in Landfill Leachates and Biogases. Environmental Science & Technology, 2007, 41, 4536-4541.	10.0	56
53	Speciation analysis of arsenic in landfill leachate. Water Research, 2007, 41, 3177-3185.	11.3	55
54	Methylmercury bioconcentration in muscle tissue of the European eel (Anguilla anguilla) from the Adour estuary (Bay of Biscay, France). Marine Pollution Bulletin, 2007, 54, 1031-1036.	5.0	53

#	Article	IF	Citations
55	Assessment of mercury speciation in feathers using species-specific isotope dilution analysis. Talanta, 2017, 174, 100-110.	5.5	53
56	The interplay between total mercury, methylmercury and dissolved organic matter in fluvial systems: A latitudinal study across Europe. Water Research, 2018, 144, 172-182.	11.3	53
57	Mercury isotopes of key tissues document mercury metabolic processes in seabirds. Chemosphere, 2021, 263, 127777.	8.2	53
58	Mercury speciation in seafood using isotope dilution analysis: A review. Talanta, 2012, 89, 12-20.	5.5	51
59	Chemical kinetic isotope fractionation of mercury during abiotic methylation of Hg(II) by methylcobalamin in aqueous chloride media. Chemical Geology, 2013, 336, 26-36.	3.3	51
60	Mercury speciation analysis in seafood by species-specific isotope dilution: method validation and occurrence data. Analytical and Bioanalytical Chemistry, 2011, 401, 2699-2711.	3.7	50
61	Natural Hg isotopic composition of different Hg compounds in mammal tissues as a proxy for in vivo breakdown of toxic methylmercury. Metallomics, 2016, 8, 170-178.	2.4	50
62	Spatial and temporal variability of benthic biogeochemical fluxes associated with macrophytic and macrofaunal distributions in the Thau lagoon (France). Estuarine, Coastal and Shelf Science, 2007, 72, 432-446.	2.1	49
63	Specific Effects of Dietary Methylmercury and Inorganic Mercury in Zebrafish (Danio rerio) Determined by Genetic, Histological, and Metallothionein Responses. Environmental Science & Technology, 2015, 49, 14560-14569.	10.0	47
64	Distribution of mercury and organic matter in particle-size classes in sediments contaminated by a waste water treatment plant: Vidy Bay, Lake Geneva, Switzerland. Journal of Environmental Monitoring, 2011, 13, 974.	2.1	46
65	Fe and H2O2 distributions in the upper water column in the Indian sector of the Southern Ocean. Earth and Planetary Science Letters, 1997, 147, 83-92.	4.4	45
66	Field cryofocussing hydride generation applied to the simultaneous multi-elemental determination of alkyl-metal(loid) species in natural waters using ICP-MS detection. Journal of Environmental Monitoring, 2000, 2, 603-612.	2.1	45
67	Potential interferences generated during mercury species determination using acid leaching, aqueous ethylation, cryogenic gas chromatography and atomic spectrometry detection techniques. Chemosphere, 1999, 39, 1119-1136.	8.2	44
68	Mercury Concentrations in Sediment Profiles of a Degraded Tropical Coastal Environment. Environmental Technology (United Kingdom), 2000, 21, 297-305.	2.2	44
69	Comparison of different numerical approaches for multiple spiking species-specific isotope dilution analysis exemplified by the determination of butyltin species in sediments. Journal of Analytical Atomic Spectrometry, 2007, 22, 1373.	3.0	44
70	Interferences during mercury speciation determination by volatilization, cryofocusing, gas chromatography and atomic absorption spectroscopy: comparative study between hydride generation and ethylation techniques. Journal of Analytical Atomic Spectrometry, 1998, 13, 623-629.	3.0	43
71	(Tri)Butyltin biotic degradation rates and pathways in different compartments of a freshwater model ecosystem. Science of the Total Environment, 2007, 388, 214-233.	8.0	43
72	Hemoglobin as a major binding protein for methylmercury in white-sided dolphin liver. Analytical and Bioanalytical Chemistry, 2014, 406, 1121-1129.	3.7	43

#	Article	IF	Citations
73	Working methods paper: Micro-scale preparation and characterization of isotopically enriched monomethylmercury. Applied Organometallic Chemistry, 2002, 16, 610-615.	3.5	42
74	Rapid, accurate and precise determination of tributyltin in sediments and biological samples by species specific isotope dilution-microwave extraction-gas chromatography-ICP mass spectrometry. Journal of Analytical Atomic Spectrometry, 2003, 18, 247-253.	3.0	42
75	Platinum, Palladium, and Rhodium in Fresh Snow from the Aspe Valley (Pyrenees Mountains, France). Environmental Science & Technology, 2007, 41, 66-73.	10.0	42
76	Seabird Tissues As Efficient Biomonitoring Tools for Hg Isotopic Investigations: Implications of Using Blood and Feathers from Chicks and Adults. Environmental Science & Technology, 2018, 52, 4227-4234.	10.0	42
77	Mercury contamination level and speciation inventory in Lakes Titicaca & Uru-Uru (Bolivia): Current status and future trends. Environmental Pollution, 2017, 231, 262-270.	7.5	41
78	Atmospheric mercury at mediterranean coastal stations. Environmental Fluid Mechanics, 2008, 8, 101-116.	1.6	40
79	In situ experiments for element species-specific environmental reactivity of tin and mercury compounds using isotopic tracers and multiple linear regression. Environmental Science and Pollution Research, 2013, 20, 1269-1280.	5.3	40
80	Nickel and vanadium contamination of benthic invertebrates following the â€œErikaâ€•wreck. Aquatic Living Resources, 2004, 17, 273-280.	1.2	38
81	Hg-Stable Isotope Variations in Marine Top Predators of the Western Arctic Ocean. ACS Earth and Space Chemistry, 2018, 2, 479-490.	2.7	38
82	Shifts in mercury methylation across a peatland chronosequence: From sulfate reduction to methanogenesis and syntrophy. Journal of Hazardous Materials, 2020, 387, 121967.	12.4	38
83	Field determination of volatile selenium species at ultra trace levels in environmental waters by on-line purging, cryofocusing and detection by atomic fluorescence spectroscopy. Journal of Analytical Atomic Spectrometry, 1998, 13, 615-621.	3.0	37
84	Elemental Mercury in the Atmosphere of a Tropical Amazonian Forest (French Guiana). Environmental Science & Technology, 1999, 33, 3044-3048.	10.0	37
85	Spatial distribution of mercury in seawater, sediment, and seafood from the Hardangerfjord ecosystem, Norway. Science of the Total Environment, 2019, 667, 622-637.	8.0	37
86	Chemical availability of mercury in stream sediments from the AlmadÃ©n area, Spain. Journal of Environmental Monitoring, 2000, 2, 360-366.	2.1	36
87	The impact of post gold mining on mercury pollution in the West Rand region, Gauteng, South Africa. Journal of Geochemical Exploration, 2013, 134, 111-119.	3.2	36
88	Sources and fate of mercury pollution in AlmadÃ©n mining district (Spain): Evidences from mercury isotopic compositions in sediments and lichens. Chemosphere, 2016, 147, 430-438.	8.2	36
89	Development of a large volume injection method using a programmed temperature vaporization injector â€“ gas chromatography hyphenated to ICP-MS for the simultaneous determination of mercury, tin and lead species at ultra-trace levels in natural waters. Journal of Chromatography A, 2018, 1547, 77-85.	3.7	36
90	Deciphering the Role of Water Column Redoxclines on Methylmercury Cycling Using Speciation Modeling and Observations From the Baltic Sea. Global Biogeochemical Cycles, 2018, 32, 1498-1513.	4.9	36

#	Article	IF	Citations
91	Fate of mercury species in the coastal plume of the Adour River estuary (Bay of Biscay, SW France). Science of the Total Environment, 2014, 496, 701-713.	8.0	35
92	Determination of alkylated tin compounds in landfill leachates using isotopically enriched tin species with GC-ICP-MS detection. Journal of Analytical Atomic Spectrometry, 2007, 22, 258-266.	3.0	34
93	Identification of sources and bioaccumulation pathways of MeHg in subantarctic penguins: a stable isotopic investigation. Scientific Reports, 2018, 8, 8865.	3.3	34
94	Formation of volatile selenium species in synthetic seawater under light and dark experimental conditions. Applied Organometallic Chemistry, 2000, 14, 236-244.	3.5	33
95	Formation and volatilisation of alkyl-iodidesand -selenides in macrotidal estuaries. Biogeochemistry, 2002, 59, 183-206.	3.5	33
96	High-Frequency Archives of Manganese Inputs To Coastal Waters (Bay of Seine, France) Resolved by the LAâ^'ICPâ^'MS Analysis of Calcitic Growth Layers along Scallop Shells (Pecten maximus). Environmental Science & Technology, 2008, 42, 86-92.	10.0	33
97	High frequency Barium profiles in shells of the Great Scallop <i>Pecten maximus</i>: a methodical long-term and multi-site survey in Western Europe. Biogeosciences, 2009, 6, 157-170.	3.3	33
98	Transformation, Localization, and Biomolecular Binding of Hg Species at Subcellular Level in Methylating and Nonmethylating Sulfate-Reducing Bacteria. Environmental Science & Technology, 2012, 46, 11744-11751.	10.0	33
99	Speciesâ€specific stable isotope analysis by the hyphenation of chromatographic techniques with MCâ€ICPMS. Mass Spectrometry Reviews, 2012, 31, 504-521.	5.4	33
100	Occurrence and distribution of organotin compounds in leachates and biogases from municipal landfills. Water Research, 2008, 42, 987-996.	11.3	32
101	Identification of mercury and other metals complexes with metallothioneins in dolphin liver by hydrophilic interaction liquid chromatography with the parallel detection by ICP MS and electrospray hybrid linear/orbital trap MS/MS. Metallomics, 2012, 4, 473.	2.4	31
102	Mercury speciation analysis in human hair by species-specific isotope-dilution using GCâ€“ICPâ€“MS. Analytical and Bioanalytical Chemistry, 2013, 405, 3001-3010.	3.7	31
103	A hundred year record of industrial and urban development in French Alps combining Hg accumulation rates and isotope composition in sediment archives from Lake Luitel. Chemical Geology, 2016, 431, 10-19.	3.3	30
104	MMHg production and export from intertidal sediments to the water column of a tidal lagoon (Arcachon Bay, France). Biogeochemistry, 2013, 114, 341-358.	3.5	29
105	Successive methylation and demethylation of methylated mercury species (MeHg and DMeHg) induce mass dependent fractionation of mercury isotopes. Chemical Geology, 2013, 355, 153-162.	3.3	29
106	Determination of tributyltin in marine sediment: Comitï¿½ Consultatif pour la Quantitï¿½ de Matïï¿½re (CCQM) pilot study P-18 international intercomparison. Analytical and Bioanalytical Chemistry, 2003, 376, 780-787.	3.7	28
107	Measurements of gaseous mercury exchanges at the sedimentâ€“water, waterâ€“atmosphere and sedimentâ€“atmosphere interfaces of a tidal environment (Arcachon Bay, France). Journal of Environmental Monitoring, 2011, 13, 1351.	2.1	28
108	Mercury in the food chain of the Lagoon of Venice, Italy. Marine Pollution Bulletin, 2014, 88, 194-206.	5.0	28

#	Article	IF	Citations
109	Origins and discrimination between local and regional atmospheric pollution in Haiphong (Vietnam), based on metal(loid) concentrations and lead isotopic ratios in PM10. Environmental Science and Pollution Research, 2018, 25, 26653-26668.	5.3	28
110	Mercury Stable Isotopes Discriminate Different Populations of European Seabass and Trace Potential Hg Sources around Europe. Environmental Science & Technology, 2017, 51, 12219-12228.	10.0	27
111	Algal Bloom Exacerbates Hydrogen Sulfide and Methylmercury Contamination in the Emblematic High-Altitude Lake Titicaca. Geosciences (Switzerland), 2018, 8, 438.	2.2	27
112	Adsorption of aqueous inorganic mercury and methylmercury on suspended kaolin: influence of sodium chloride, fulvic acid and particle content. Applied Organometallic Chemistry, 2001, 15, 490-498.	3.5	26
113	Determination of metal and organometal trophic bioaccumulation in the benthic macrofauna of the Adour estuary coastal zone (SW France, Bay of Biscay). Journal of Environmental Monitoring, 2005, 7, 693.	2.1	26
114	New volatile selenium and tellurium species in fermentation gases produced by composting duck manure. Atmospheric Environment, 2008, 42, 7786-7794.	4.1	26
115	Mercury distribution and exchanges between the Amazon River and connected floodplain lakes. Science of the Total Environment, 2009, 407, 6073-6084.	8.0	26
116	Hg Stable Isotope Time Trend in Ringed Seals Registers Decreasing Sea Ice Cover in the Alaskan Arctic. Environmental Science & Technology, 2015, 49, 8977-8985.	10.0	26
117	Simultaneous determination of monomethylmercury, monobutyltin, dibutyltin and tributyltin in environmental samples by multi-elemental-species-specific isotope dilution analysis using electron ionisation GC-MS. Journal of Mass Spectrometry, 2006, 41, 1491-1497.	1.6	25
118	Species-specific isotope tracers to study the accumulation and biotransformation of mixtures of inorganic and methyl mercury by the microalga Chlamydomonas reinhardtii. Environmental Pollution, 2014, 192, 212-215.	7.5	25
119	Inorganic mercury and methylmercury in surface sediments and mussel tissues from a microtidal lagoon (Bizerte, Tunisia). Journal of Coastal Conservation, 2002, 8, 141.	1.6	24
120	Investigation of Hg species binding biomolecules in dolphin liver combining GC and LC-ICP-MS with isotopic tracers. Journal of Analytical Atomic Spectrometry, 2011, 26, 187-194.	3.0	24
121	An experimental approach to investigate mercury species transformations under redox oscillations in coastal sediments. Marine Environmental Research, 2011, 71, 1-9.	2.5	24
122	Comparison between GCâ€“MS and GCâ€“ICPMS using isotope dilution for the simultaneous monitoring of inorganic and methyl mercury, butyl and phenyl tin compounds in biological tissues. Analytical and Bioanalytical Chemistry, 2014, 406, 1253-1258.	3.7	24
123	Assessment of background concentrations of organometallic compounds (methylmercury, ethyllead) Tj ETQq1 1 0.784314 rgBT /Ove	11.3	24
124	A â€œseabird-eyeâ€•on mercury stable isotopes and cycling in the Southern Ocean. Science of the Total Environment, 2020, 742, 140499.	8.0	24
125	Application of cryofocusing hydride generation and atomic fluorescence detection for dissolved mercury species determination in natural water samples. Journal of Environmental Monitoring, 2002, 4, 517-521.	2.1	23
126	Reactivity, interactions and transport of trace elements, organic carbon and particulate material in a mountain range river system (Adour River, France). Journal of Environmental Monitoring, 2007, 9, 157.	2.1	23

#	Article	IF	Citations
127	Volatile organotin compounds (butylmethyltin) in three European estuaries (Gironde, Rhine, Scheldt). Biogeochemistry, 2002, 59, 161-181.	3.5	22
128	Hg Compound-Specific Isotope Analysis at Ultratrace Levels Using an on Line Gas Chromatographic Preconcentration and Separation Strategy Coupled to Multicollector-Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2018, 90, 7809-7816.	6.5	22
129	A simple determination of trace mercury concentrations in natural waters using dispersive Micro-Solid phase extraction preconcentration based on functionalized graphene nanosheets. Microchemical Journal, 2020, 154, 104549.	4.5	22
130	Specific pathways for the incorporation of dissolved barium and molybdenum into the bivalve shell: An isotopic tracer approach in the juvenile Great Scallop (Pecten maximus). Marine Environmental Research, 2012, 78, 15-25.	2.5	21
131	Contrasting Spatial and Seasonal Trends of Methylmercury Exposure Pathways of Arctic Seabirds: Combination of Large-Scale Tracking and Stable Isotopic Approaches. Environmental Science & Technology, 2020, 54, 13619-13629.	10.0	21
132	Dissolved Organic Matter Controls Seasonal and Spatial Selenium Concentration Variability in Thaw Lakes across a Permafrost Gradient. Environmental Science & Technology, 2018, 52, 10254-10262.	10.0	20
133	Assessment of Hg contamination by a Chlor-Alkali Plant in riverine and coastal sites combining Hg speciation and isotopic signature (Sagua la Grande River, Cuba). Journal of Hazardous Materials, 2019, 371, 558-565.	12.4	20
134	Mercury loads and fluxes from wastewater: A nationwide survey in Switzerland. Water Research, 2020, 175, 115708.	11.3	20
135	Speciation of mercury in South African coals. Toxicological and Environmental Chemistry, 2012, 94, 1688-1706.	1.2	19
136	Fate and tidal transport of butyltin and mercury compounds in the waters of the tropical Bach Dang Estuary (Haiphong, Vietnam). Marine Pollution Bulletin, 2012, 64, 1789-1798.	5.0	19
137	Association of a Specific Algal Group with Methylmercury Accumulation in Periphyton of a Tropical High-Altitude Andean Lake. Archives of Environmental Contamination and Toxicology, 2017, 72, 1-10.	4.1	19
138	Mercury Speciation in Sediments of a Tropical Coastal Environment. Environmental Technology (United Kingdom), 2002, 23, 899-910.	2.2	18
139	Bacterial community structure along the Adour estuary (French Atlantic coast): influence of salinity gradient versus metal contamination. Aquatic Microbial Ecology, 2007, 49, 47-56.	1.8	18
140	In situ ethylation of organolead, organotin and organomercury species by bromomagnesium tetraethylborate prior to GCâ€ICPâ€MS analysis. Journal of Separation Science, 2009, 32, 2426-2433.	2.5	18
141	Occurrence and Fate of Organic and Organometallic Pollutants in Municipal Wastewater Treatment Plants and Their Impact on Receiving Waters (Adour Estuary, France). Archives of Environmental Contamination and Toxicology, 2017, 73, 619-630.	4.1	18
142	Mercury Isotopic Fractionation during Pedogenesis in a Tropical Forest Soil Catena (French Guiana): Deciphering the Impact of Historical Gold Mining. Environmental Science & Technology, 2018, 52, 11573-11582.	10.0	18
143	Diagenetic production, accumulation and sediment-water exchanges of methylmercury in contrasted sediment facies of Lake Titicaca (Bolivia). Science of the Total Environment, 2020, 723, 138088.	8.0	18
144	Diurnal variability and biogeochemical reactivity of mercury species in an extreme high-altitude lake ecosystem of the Bolivian Altiplano. Environmental Science and Pollution Research, 2016, 23, 6919-6933.	5.3	17

#	Article	IF	Citations
145	First Time Identification of Selenoneine in Seabirds and Its Potential Role in Mercury Detoxification. Environmental Science & Technology, 2022, 56, 3288-3298.	10.0	17
146	Evaluation of analytical strategies for the determination of metal concentrations to assess landfill leachate contamination. Journal of Environmental Monitoring, 2006, 8, 1069.	2.1	16
147	Methylation and dealkykation of tin compounds by sulfate- and nitrate-reducing bacteria. Chemosphere, 2018, 208, 871-879.	8.2	16
148	Multiple regression analysis to assess the spatial distribution and speciation of mercury in surface sediments of a contaminated lagoon. Journal of Hazardous Materials, 2019, 367, 715-724.	12.4	16
149	Contamination levels and habitat use influence Hg accumulation and stable isotope ratios in the European seabass Dicentrarchus labrax. Environmental Pollution, 2021, 281, 117008.	7.5	16
150	Mercury in surface waters of a macrotidal urban estuary (River Adour, south-west France). Chemistry and Ecology, 2006, 22, 137-148.	1.6	15
151	Spring molybdenum enrichment in scallop shells: a potential tracer of diatom productivity in temperate coastal environments (Brittany, NW France). Biogeosciences, 2010, 7, 233-245.	3.3	15
152	Comparison of Different Airâ€“Water Gas Exchange Models to Determine Gaseous Mercury Evasion from Different European Coastal Lagoons and Estuaries. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	14
153	Determination of total Hg isotopic composition at ultra-trace levels by on line cold vapor generation and dual gold-amalgamation coupled to MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2017, 32, 373-384.	3.0	14
154	Role of the floodplain lakes in the methylmercury distribution and exchanges with the Amazon River, Brazil. Journal of Environmental Sciences, 2018, 68, 24-40.	6.1	14
155	Recent and historical pollution legacy in high altitude Lake MarborÃ© (Central Pyrenees): A record of mining and smelting since pre-Roman times in the Iberian Peninsula. Science of the Total Environment, 2021, 751, 141557.	8.0	14
156	In-port derivatization coupled to different extraction techniques for the determination of alkylphenols in environmental water samples. Journal of Chromatography A, 2014, 1340, 1-7.	3.7	13
157	Multi-element isotopic signature (C, N, Pb, Hg) in epiphytic lichens to discriminate atmospheric contamination as a function of land-use characteristics (PyrÃ©nÃ©es-Atlantiques, SW France). Environmental Pollution, 2018, 243, 961-971.	7.5	13
158	Multiple regression analysis to assess the contamination with metals and metalloids in surface sediments (Aveiro Lagoon, Portugal). Marine Pollution Bulletin, 2020, 159, 111470.	5.0	13
159	Multiple regression analysis to assess the role of plankton on the distribution and speciation of mercury in water of a contaminated lagoon. Journal of Hazardous Materials, 2016, 318, 711-722.	12.4	12
160	Synergistic effects of mining and urban effluents on the level and distribution of methylmercury in a shallow aquatic ecosystem of the Bolivian Altiplano. Environmental Sciences: Processes and Impacts, 2016, 18, 1550-1560.	3.5	12
161	Mercury speciation and dispersion from an active gold mine at the West Wits area, South Africa. Environmental Monitoring and Assessment, 2016, 188, 47.	2.7	12
162	Volatile Dimethyl Polonium Produced by Aerobic Marine Microorganisms. Environmental Science & Technology, 2012, 46, 11402-11407.	10.0	11

#	Article	IF	Citations
163	Spatial and seasonal variations of methylmercury in European glass eels (Anguilla anguilla) in the Adour estuary (France) and relation to their migratory behaviour. Environmental Science and Pollution Research, 2015, 22, 10721-10732.	5.3	11
164	Cleaning and sampling protocol for analysis of mercury and dissolved organic matter in freshwater systems. MethodsX, 2018, 5, 1017-1026.	1.6	11
165	In vitro simulation of oscillatory redox conditions in intertidal sediments: N, Mn, Fe, and P coupling. Continental Shelf Research, 2019, 177, 33-41.	1.8	11
166	Reconstructing two millennia of copper and silver metallurgy in the Lake Titicaca region (Bolivia/Peru) using trace metals and lead isotopic composition. Anthropocene, 2021, 34, 100288.	3.3	11
167	Species-specific isotope tracking of mercury uptake and transformations by pico-nanoplankton in an eutrophic lake. Environmental Pollution, 2021, 288, 117771.	7.5	11
168	Investigation of Hg uptake and transport between paddy soil and rice seeds combining Hg isotopic composition and speciation. Elementa, 2016, 4, .	3.2	11
169	New insights into the biomineralization of mercury selenide nanoparticles through stable isotope analysis in giant petrel tissues. Journal of Hazardous Materials, 2022, 425, 127922.	12.4	11
170	Open focused microwave-assisted sample preparation for rapid total and mercury species determination in environmental solid samples. Journal of Automated Methods and Management in Chemistry, 1998, 20, 99-108.	0.3	10
171	Time Course Transformations and Fate of Mercury in Aquatic Model Ecosystems. Water, Air, and Soil Pollution, 2007, 183, 265-281.	2.4	10
172	Simultaneous determination of mercury and butyltin species using a multiple species-specific isotope dilution methodology on the European, Anguilla anguilla glass eel and yellow eel. International Journal of Environmental Analytical Chemistry, 2013, 93, 166-182.	3.3	10
173	Seasonal distribution and speciation of mercury in a gold mining area, north-west province, South Africa. Toxicological and Environmental Chemistry, 2014, 96, 387-402.	1.2	10
174	Approach to spatialize local to long-range atmospheric metal input (Cd, Cu, Hg, Pb) in epiphytic lichens over a meso-scale area (PyrÃ©nÃ©es-Atlantiques, southwestern France). Environmental Science and Pollution Research, 2015, 22, 8536-8548.	5.3	10
175	Rapid temporal decline of mercury in Greenland halibut (Reinhardtius hippoglossoides). Environmental Pollution, 2021, 289, 117843.	7.5	10
176	The Bay of Biscay. , 2019, , 113-152.		9
177	In Situ Photochemical Transformation of Hg Species and Associated Isotopic Fractionation in the Water Column of High-Altitude Lakes from the Bolivian Altiplano. Environmental Science & Technology, 2022, 56, 2258-2268.	10.0	9
178	Biogeochemical and contaminant cycling in sediments from a human-impacted coastal lagoon â€“ Introduction and summary. Estuarine, Coastal and Shelf Science, 2007, 72, 387-392.	2.1	8
179	Evaluation of preconcentration methods in the analysis of synthetic musks in wholeâ€water samples. Journal of Separation Science, 2015, 38, 2298-2304.	2.5	8
180	Pushing back the frontiers of mercury speciation using a combination of biomolecular and isotopic signatures: challenge and perspectives. Analytical and Bioanalytical Chemistry, 2016, 408, 2641-2648.	3.7	8

#	Article	IF	Citations
181	Influence of a wastewater treatment plant on mercury contamination and sediment characteristics in Vidy Bay (Lake Geneva, Switzerland). Aquatic Sciences, 2014, 76, 21.	1.5	7
182	Cycling and atmospheric exchanges of selenium in Canadian subarctic thermokarst ponds. Biogeochemistry, 2019, 145, 193-211.	3.5	7
183	Lake sediment mercury biogeochemistry controlled by sulphate input from drainage basin. Applied Geochemistry, 2019, 104, 135-145.	3.0	7
184	Determination of the Intracellular Complexation of Inorganic and Methylmercury in Cyanobacterium Synechocystis sp. PCC 6803. Environmental Science & Technology, 2021, 55, 13971-13979.	10.0	7
185	Biogenic Volatilization of Trace Elements from European Estuaries. ACS Symposium Series, 2002, , 151-165.	0.5	6
186	Flux model to estimate the transport of mercury species in a contaminated lagoon (Ria de Aveiro,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.3	6
187	Accumulation of Methylmercury in the High-Altitude Lake Uru Uru (3686 m a.s.l, Bolivia) Controlled by Sediment Efflux and Photodegradation. Applied Sciences (Switzerland), 2020, 10, 7936.	2.5	6
188	Water to atmosphere fluxes of 131I in relation with alkyl-iodide compounds from the Seine Estuary (France). Journal of Environmental Radioactivity, 2008, 99, 1102-1110.	1.7	5
189	Investigations into the differential reactivity of endogenous and exogenous mercury species in coastal sediments. Environmental Science and Pollution Research, 2013, 20, 1292-1301.	5.3	5
190	Analytical Performances of Nanostructured Gold Supported on Metal Oxide Sorbents for the Determination of Gaseous Mercury. International Journal of Analytical Chemistry, 2014, 2014, 1-8.	1.0	5
191	Hg isotopic composition and total Hg mass fraction in NIES Certified Reference Material No. 28 Urban Aerosols. Analytical and Bioanalytical Chemistry, 2020, 412, 4483-4493.	3.7	5
192	Monitoring bacterial communities adaptation to mercury contamination in estuarine sediments maintained in slurries. European Physical Journal Special Topics, 2003, 107, 393-396.	0.2	4
193	Determination of methyl mercury and inorganic mercury in natural waters at the pgL^{â˜1}level: Intercomparison between PT-GC-Pyr-AFS and GC-ICP-MS using Ethylation or Propylation derivatization. E3S Web of Conferences, 2013, 1, 09001.	0.5	4
194	Accurate determination of the total alkalinity and the CO2 system parameters in high-altitude lakes from the Western Pyrenees (France â€“ Spain). Microchemical Journal, 2020, 152, 104345.	4.5	3
195	Comparison of the Isotopic Composition of Hg and Pb in Two Atmospheric Bioaccumulators in a Pyrenean Beech Forest (Iraty Forest, Western Pyrenees, France/Spain). Frontiers in Environmental Chemistry, 2020, 1, .	1.6	3
196	Transfer of metallic contaminants at the sediment-water interface in a costal lagon : Role of the biological and microbial activity. European Physical Journal Special Topics, 2003, 107, 41-44.	0.2	2
197	Investigating the isotopic composition of mercury and lead in epiphytic lichens from South-western France (PyrÃ©nÃ©es-Atlantiques) to better constrain the spatial variability of their atmospheric transport and deposition. E3S Web of Conferences, 2013, 1, 29002.	0.5	2
198	Dynamics of Dietary Mercury Determined by Mercury Speciation and Isotopic Composition in Dicentrarchus labrax. Frontiers in Environmental Chemistry, 2022, 3, .	1.6	2

#	Article	IF	Citations
199	Chapter 13 Trends in speciation analysis for routine and new environmental issues. Comprehensive Analytical Chemistry, 2000, , 451-500.	1.3	1
200	Mercury methylation and demethylation in highly contaminated sediments from the DeÃ»le River in Northern France using species-specific enriched stable isotopes. Environmental Sciences: Processes and Impacts, 2015, 17, 145-155.	3.5	1
201	Biogeochemistry of selenium compounds in the water column of warm monomictic Lake Kinneret. Biogeochemistry, 0, , 1.	3.5	1
202	Selenium distribution and speciation in waters of pristine alpine lakes from central-western Pyrenees (Franceâ€“Spain). Environmental Sciences: Processes and Impacts, 2022, 24, 1430-1442.	3.5	1
203	Reply to the comment on â€œNew insights into the biomineralization of mercury selenide nanoparticles through stable isotope analysis in giant petrel tissuesâ€• by A. Manceau, J. Hazard. Mater. 425 (2021) 127922. doi: 10.1016/j.jhazmat.2021.127922. Journal of Hazardous Materials, 2022, 431, 128582.	12.4	1
204	Potential and Limits of Speciated Isotope-Dilution Analysis for Metrology and Assessing Environmental Reactivity. ChemInform, 2004, 35, no.	0.0	0
205	Palladium in a Mountain Ecosystem (Aspe Valley, Pyrenees, France). , 2006, , 369-380.		0
206	METHYLMERCURY IN SURFACE SEDIMENTS IN COASTAL ENVIRONMENTS. COMPARISON BETWEEN A DYNAMIC MACROTIDAL ESTUARY AND A MICROTIDAL LAGOON. , 2006, , 455-458.		0
207	Inorganic mercury and methylmercury in surface sediments and mussel tissues from a microtidal lagoon (Bizerte, Tunisia). Journal of Coastal Conservation, 2002, 8, 141-145.	1.6	0