THURSDAY

Total: 169

Sessions: **1.1** (2/2); **1.6**; **1.11**; **1.12**; **2.3**; **2.4**; **2.5**; **2.8**; **3.2**; **3.3**; **3.4**

New order: 1.202-1.272

2.45-2.94

3.49-3.96

1/2 **1.1**		
1.202	HIGH RESOLUTION ATMOSPHERIC MERCURY EMISSION INVENTORIES OF CHINESE CEMENT PLANTS OF 2007 AND 2015: TEMPORAL TREND AND SPATIAL VARIATION	Xingrui Cai, Peking University, Beijing, China, et al.
1.203	How important is biomass burning in Canada to mercury contamination?	Annemarie Fraser, Natural Sciences and Engineering Research Council of Canada, et al.
1.204	Impacts of radiation on the reduction of Hg(II) in ambient particles and gaseous phases	Yindong Tong, Tianjin University, et al.
1.205	Five-year trends and monsoon-facilitated transboundary transport of atmospheric mercury at a high-altitude background site in southwestern China	Hui Zhang, et al.
1.206	Fast photochemical depletion of total gaseous mercury after sunrise observed in the polluted coastal marine boundary layer above Hong Kong	Tao Li, School of Environmental Science and Technology, Shandong University, Qingdao, China, et al.
1.207	Experimental rainwater Hg speciation and photoreduction rates in the presence of halogens and organic carbon	Xu Yang, University of Toulouse, et al.
1.208	Air Mercury Variability at Listvyanka Station, Siberia	Nikolay Mashyanov, Lumex-marketing LLC, et al.
1.209	Trends in Atmospheric Mercury Fractions and Wet Mercury Deposition Across the United States	Connor Olson, Syracuse University, et al.
1.210	A New Approach to Numerical Simulation of the Global Mercury Cycle Based on the Model for Prediction Across Scales	Orren Bullock, U.S. Environmental Protection Agency, et al.
1.211	Assessing mercury air levels using Passive Air Samplers (PASs) as part of the GMOS network in the framework of the UNEP GEF project	Francesca Sprovieri, CNR-IIA, Institute on Atmospheric Pollution Research, Rende, Italy, et al.
1.212	Are zinc sulphides an important source of Hg as a pollutant in mining environments?	JoseMaria Esbrí, IGeA-UCLM, Pl. Manuel Meca 1, 13400 Almadén (Ciudad Real), Spain, et al.
1.213	Application of passive air samplers for atmospheric mercury research: local landscape effects, vertical gradients, and deposition at lakes with different fish-Hg concentrations	James Cizdziel, University of Mississippi, et al.
1.214	Development and validation of a cost-efficient monitoring method for the estimation of mercury deposition in forests	Nils Koenig, et al.

1.215	Assessment and establish of total mercury background level in soils from different sites in Libya	Abdelkarem Elgazali, et al.
1.216	Assessment of the present mercury input to the Altai Territory during winter period based on Hg concentrations in seasonal snow cover for 2014-2018 years	Valeria Kamardina, Altai State University, et al.
1.217	Assessment of major Anthropogenic sources and emissions of mercury in Afghanistan	Baktash Aslamy, et al.
1.218	Atmospheric mercury over Poland. The results of long-term automatic measurements in selected industrial and rural locations	Halina Pyta, Institute of Environmental Engineering of the Polish Academy of Sciences, et al.
1.219	Characterization and dynamic oxidation of atmospheric mercury in an iron-steel industry in Yangtze River Delta, China	Deming Han, Tsinghua University, et al.
1.220	Characterizations and gas-particle partitioning of oxidized mercury at a tropical mountain site downwind of the East Asian continent	Ly Sy Phu Nguyen, First author, et al.
1.221	Data quality assessment - parallel continuous mercury measurement at two levels of Tall tower Křešín, NAO Košetice, Czech Republic	Gabriela Vítková, Global Change Research Institute, Czech Academy of Sciences, Bělidla 4a, Brno, Czech Republic, et al.
1.222	DETERMINATION OF MERCURY IN INDOOR DUST OF TWO CITIES OF THE NORTHERN REGION OF BRAZIL	BARBARA CAROLINE PEREIRA DA SILVA, PROGRAMA DE PÓS-GRADUAÇÃO EM EPIDEMIOLOGIA E VIGILÂNCIA EM SAÚDE / INSTITTUTO EVANDRO CHAGAS, et al.
1.223	Elemental and oxidized mercury in an area with elevated wintertime ozone	Tyler Elgiar, Utah State University, et al.
1.224	Quantifying the impact of meteorology on atmospheric mercury pollution at an urban site in eastern China using a generalized additive model	Peisheng Zhou, et al.
1.225	Variation in ambient mercury levels in the vicinity of coal seam gas extraction and power generation facilities in rural Australia: seasonal and meteorological controls	Anthony Morrison, Department of Environmental Sciences, Macquarie University, NSW, Australia, et al.
1.226	Investigating the influence of climate change on rainfall distribution and mercury concentrations in rainwater collected at Cape Point, South Africa	Vernon Somerset, Cape Peninsula University of Technology (CPUT), et al.
1.227	Mercury Geochemistry in the Cryosphere of Western China	Jie Huang, Institute of Tibetan Plateau Research,Chinese Academy of Sciences, et al.
1.228	Illuminating Gaseous Oxidized Mercury: BrHgONO Photolysis Leads to Inorganic Hg(II) and Organomercury Compounds	Theodore Dibble, State University of New York-Environmental Science and Forestry, et al.
1.229	Observations of summertime oxidized mercury in the Colorado Front Range, USA, using a modified dual-channel analyzer and automated calibration system	Lynne Gratz, Colorado College, et al.
1.230	Atmospheric wet deposition of mercury at multiple sites over the central Himalayas, South Asia	Lekhendra Tripathee, State Key Laboratory of Cryospheric Science, Northwest Institute of Eco-environment and Resources, Chinese Academy of Sciences (CAS), Lanzhou 730000, China, et al.
1.231	Investigation of organic matter interferences for low level Hg pre-concentration techniques	Michael Tate, US Geological Survey, et al.
1.232	Comparison between derivatization and hydride generation for the precise determination of methylmercury δ13C compound specific-isotopic-analysis by purge-trap gas chromatography combustion isotope ratio mass spectrometry	Lagane christelle, Observatoire Midi-Pyrénées, Géosciences Environnement Toulouse, UMR CNRS 5563/IRD 234/Université Paul Sabatier Toulouse 3, et al.

1.233	What is New in the World of Natural Hg Mineral Species?	Andrew G. Christy, The University of Queensland, Australia, et al.
1.234	An Improved Automated Calibrator to Verify Atmospheric Mercury Measurements	Trevor O'Neil, Utah State University, et al.
1.235	Trace mercury detection in water: New electrochemical sensor based on Gold Nanoparticles modified electrode	Fatma FEZAI, Laboratoire de Genie Chimique Universite Toulouse III - Paul Sabatier, et al.
1.236	Proficiency test PT Mushroom -Trace elements in Mushroom	Vesna Fajon, Department of Environmental Sciences, Jožef Stefan Institute, Ljubljana, Slovenia, et al.
1.237	Determination of methylmercury in Scottish birds of prey (raptors) using LC-PVG-AFS	Shaun Lancaster, University of Aberdeen, et al.
1.238	Application of diffusive gradient in thin films (DGT) method to assess bioavailable Hg in artificial and natural soils	Viet Nguyen Huu, School of Earth Sciences and Environmental Engineering, Gwangju Institute of Science and Technology, et al.
1.239	Isolation and isotopic determination of methylmercury using pretreatment acid extraction or distillation coupled to anion-exchange chromatography for biota and sediments	Tylor J. Rosera, Environmental Chemistry and Technology Program, University of Wisconsin-Madison, Madison, WI 53706, USA, et al.
1.240	LONG - TERM STUDY OF ATMOSPHERIC MERCURY DEPOSITION AT MONITORING STATIONS IN LITHUANIA	Andriejus Urba, Centre for Physical Sciences and Technology, et al.
1.241	Peculiarities of mercury distribution in shungites	Sergey Pogarev, Lumex-marketing LLC, et al.
1.242	Introducing UNRRMAS_2.0: Improvements for Quantification and Identification of Atmospheric Reactive Mercury	Adriel Luippold, University of Nevada, et al.
1.243	DETERMINATION OF TOTAL Hg IN NATURAL WATERS AFTER AMALGAMATION OF Hg2+ ON Cu POWDER AND Hg0 ON AuNPs	Merimee Kalumba, EmiAfrica SARL, et al.
1.244	Effectiveness of DGT technique with open and restricted gels in predicting mercury uptake by plants	Marta Turull, Environmental Chemistry Department, Institute of Environmental Assessment and Water Research, IDÆA-CSIC, E-08034, Barcelona, Spain, et al.
1.245	Testing of Au and Au-Pt coated Al2O3 mercury preconcentration traps	Jože Kotnik, et al.
1.246	Study to Determine a Reliable Mercury Analysis Procedure on Sulfurnated-Passive Sampler Traps	Ryosuke Akebi, Nippon Instruments Corporation, et al.
1.247	Antagonistic mechanism between mercury and selenium in rice (Oryza sativa L.) studied using 1, 2-dimensional electrophoresis and SR-XRF techniques	Yuxi Gao, Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety, Institute of High Energy Physics, Chinese Academy of Sciences
1.248	Design and Developing of Passive Samplers Based on Nanocomposite TiO2NPs/AuNPs Membranes for Total Gaseous Mercury Monitoring	Antonella Macagnano, Institute of Atmospheric Pollution Research - CNR, et al.
1.249	Certified reference materials and inter-laboratory comparisons for a global mercury monitoring in the marine environment	Emilia Vasileva, International Atomic Energy Agency, Environment Laboratories, Monaco, et al.
1.250	Fit for purpose analytical procedures for determination of methyl mercury in seawater	Sabine Azemard, International Atomic Energy Agency, Environment Laboratories, Monaco, et al.
1.251	Development of mesoporous silica-gold films for trace-level monitoring of mercury in water	Vivian Stock, Ulm University, et al.
1.11		

1.252	Mercury methylation and methylmercury demethylation in sulphate-limited and sulphate-rich boreal lake sediment	Haiyong Huang, University of Toronto Scarborough, et al.
1.253	Towards a systems biology characterization of mercury-methylating synthetic model communities	Regina Wilpiszeski, Oak Ridge National Lab, et al.
1.254	A sediment microcosm study to assess how the community structure of Hg-methylating microbes impacts MeHg accumulation	Cynthia Gilmour, Smithsonian Environmental Research Center, et al.
1.255	Distribution of mercury-cycling genes in the Arctic and equatorial Pacific Oceans and their relationship to mercury speciation	Katlin Bowman, University of California, Santa Cruz/Moss Landing Marine Laboratories, USA, et al.
1.256	Comparison of the mercury reactivity in two deep sea Canyons (Capbreton, Atlantic Ocean and Monterey, Pacific Ocean)	Alyssa Azaroff, UMR IPREM UPPA-CNRS, et al.
1.257	Kinetics of Methylmercury Production in Periphyton and Sediments from a Contaminated Freshwater Stream	Grace Schwartz, Oak Ridge National Laboratory, et al.
1.258	Shifts in mercury methylation and demethylation processes across the chronosequence of peatlands	Haiyan Hu, Department of Ecology and Genetics, Limnology and Science for Life Laboratory, Uppsala University, SE-75236 Uppsala, Sweden, et al.
1.259	Progress towards understanding the role of hgcAB in Hg-methylation in pure cultures and in the environment	Dwayne Elias, ORNL, et al.
1.12		
1.260	Traceable determination of gaseous elemental mercury using impregnated activated coal as an efficient trapping sorbent	Igor Zivkovic, Jozef Stefan Institute, et al.
1.261	A study on the Spectrophotometric Analysis of Hg(II) using Dithizone under Conditions Pertinent to Hg(II) Reduction in Aquatic Systems	Lesta Kocher, Tennessee Tech University, et al.
1.262	Spatiotemporal Distribution of Anthropogenic Hg Emission in Pakistan	Muhammad Zaffar Hashmi, Department of Meteorology, COMSATS University Islamabad, Pakistan, et al.
1.263	GEOTRACES intercalibration exercises and development of reference material for the community	Aurelie Dufour, MIO, et al.
1.264	Total Hg in samples from cement production using pyrolysis coupled to AAS – method validation	Sabina Berisha, Jožef Stefan International Postgraduate School, Jamova 39, SI-1000 Ljubljana, Slovenija; Salonit Anhovo, Building Materials, Joint-Stock Co., Anhovo 1, SI-5210 Deskle, Slovenija, et al.
1.265	Method development for total mercury and mercury species determination in sorbent trap materials of relevance to environmental monitoring	Panayot Petrov, LGC ltd., Queens Road, Teddington, Middlesex, TW11 0LY
1.266	A unique Interactive Nanostructure Knitting based Passive Sampler Adsorbent at the Microscale for Trace Level Monitoring of Hg2+ in Water	Raghuraj Chouhan, Researcher, et al.
1.267	Traceability of mercury chloride permeation tubes for the calibration of gas phase oxidized Hg measurement systems	Warren Corns, P S Analytical, et al.
1.268	Solubility and oxidation of elemental Hg in KCl trapping solutions used for the determination of oxidized Hg in flue gas.	Gianmarco De Feo, P S Analytical, et al.
1.269	Measurement of oxidised mercury in gas phase emissions and the atmosphere: uncertainty budgets for calibration gas sources	Matthew Dexter, P S Analytical, et al.

1.270	Novel plasma oxidized mercury source	Jože Kotnik, et al.
1.271	Testing of Au and Au-Pt coated Al2O3 mercury preconcentration traps	Jože Kotnik, et al.
1.272	System for the simultaneous measurement of total and elemental mercury concentrations in the flow of the oxidized mercury generator	Serguei Sholupov, Lumex Marketing LLC, et al.
2.3		
2.45	Human Biomonitoring in Northern Canada: Associations Among Contaminant and Nutrient Biomarkers	Sara Packull-McCormick, School of Public Health and Health Systems, University of Waterloo, et al.
2.46	Urinary Mercury Levels and Work Practices at a Hard Rock Mining Community in Peru	Jack Caravanos, New York University, et al.
2.47	The European Human Biomonitoring Initiative HBM4EU: contributing to mercury assessment	Argelia Castaño, Centro Nacional de Sanidad Ambiental (CNSA), Instituto de Salud Carlos III (ISCIII), Madrid, Spain, et al.
2.48	Maternal mercury levels: measuring variation between and within individuals during pregnancy	Matthew Rand, University of Rochester, Environmental Medicine, et al.
2.49	The Application of two minimally invasive Microsampling Methods for Mercury Biomonitoring in Artisanal Gold Mining Areas in Zimbabwe	Stefan Rakete, University Hospital LMU Munich, Institute and Clinic for Occupational, Social and Environmental Medicine, et al.
2.50	Validation of Method for Methyl Mercury Determination in Blood by Liquid Chromatography – Inductive Coupled Plasma Mass Spectrometry	Nazirah Ariffin, ALS Technichem (M) Sdn Bhd, Shah Alam, Malaysia, et al.
2.51	Effect of maternal food safety-related risk perceptions on child actual mercury exposure	Ling Chu Chien*, School of Public Health, Taipei Medical University, Taipei, Taiwan, et al.
2.52	Development of human urine and hair reference materials for human biomonitoring of mercury	Koichi Haraguchi, Department of International Affairs and Research, National Institute for Minamata Disease, Japan, et al.
2.53	A new understanding of skin as an indicator for human exposed to Methylmercury	Yu Gong, Nanjing University; Kyoto University, et al.
2.54	Current Effects of Methylmercury on Health around Minamata	Shigeru Takaoka, Kyoritsu Neurology & Rehabilitation Clinic
2.55	ASSOCIATIONS AND SIGNIFICANCE OF MERCURY LEVELS IN URINE, BLOOD AND HAIR IN A SPANISH HBM STUDY	Marta Esteban López, National Center for Environmental Health, Instituto de Salud Carlos III, et al.
2.4		
2.56	The association of prenatal and postnatal exposure to heavy metals including methylmercury and lead with child development in Tohoku Study of Child Development	Nozomi Tatsuta, Tohoku university, et al.
2.57	Methylmercury targets muscle development	Matthew Rand, University of Rochester, et al.
2.58	Low level mercury exposure and electrocardiography characteristics among young adults	Elena Evstafeva, V.I. Vernadsky Crimean Federal University, Medical Academy named after S.I. Georgievsky, et al.
2.59	Epidemiological analysis on the historical data of health examination survey conducted in Minamata from 1975 to 1981	Noriyuki Hachiya, The National Institute for Minamata Disease, Japan

2.60	Human health, mercury exposure assessment and estimated chronic air mercury levels in a Brazilian ASGM Community.	JESSICA RAMOS, CETEM-Centre for Mineral Technology, et al.
2.61	Fasudil, a ROCK inhibitor, recovers methylmercury-induced axonal degeneration by changing microglial phenotype in rats	Masatake Fujimura, National Institute for Minamata Disease, et al.
2.5		
2.62	Genetic mechanisms underlying methylmercury tolerance and susceptibility: evidence from the Seychelles Child Development Study.	Matthew Rand, University of Rochester, Environmental Medicine, et al.
2.63	Methylmercury Concentration and Genetic Polymorphism of GSTM1 and GSTT1 among Fish Eating Pregnant Women from an urban area in Malaysia	Abedinlah Amirah, 1Department of Environmental and Occupational Health, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Malaysia, et al.
2.64	A critical review of mercury-selenium interactions and their relationship to toxicity risk in aquatic food webs	Jacqueline Gerson, Duke University, et al.
2.65	Effects of different doses of mercury on holm oak seedlings	Javier Rodriguez-Alonso, CIEMAT, et al.
2.66	Mercury in fungus Amanita muscaria at a different developmental stages	Jerzy Falandysz, 1University of Gdańsk, Environmental Chemistry & Ecotoxicology, 80-308 Gdańsk, Poland 2University of Cartagena, Environmental and Computational, et al. Chemistry Group, Campus Zaragocilla, 130015 Cartagena, Colombia 3Institute of Medicinal Plants, Yunnan Academy o
2.67	Nondigestible oligosaccharide decrease tissue concentration of mercury after methylmercury exposure in mice.	Masaaki Nagano, Department of Basic Medical Sciences, National Institute for Minamata Disease, Minamata, Kumamoto, Japan, et al.
2.68	Determinants of methylmercury and PCBs in cord blood and DHA in maternal blood in Tohoku Study of Child Development	Kunihiko NAKAI, Tohoku University Graduate School of Medicine, et al.
2.8		
2.69	MERCURY AND MICROPLASTICS, TWO POLLUTANTS OF ENVIRONMENTAL CONCERN FROM A BAY IN THE CARIBBEAN: Endangering hot spot for biodiversity?	Isabel Acosta-Coley, 1. Environmental and Computational Chemistry Group, School of Pharmaceutical Sciences, Zaragocilla Campus, University of Cartagena, Cartagena, Colombia. 2. Analytical Chemistry and Biomedicine Group, School of Exact and Natural Sciences, San Pablo Campus, et al.
2.70	MERCURY LEVELS IN INVASIVE LIONFISH, Pterois spp. (SCORPAENIDAE), FROM THE CARIBBEAN COAST OF COLOMBIA	María Cabarcas-Montalvo, Environmental and Computational Chemistry Group, School of Pharmaceutical Sciences, Zaragocilla Campus, University of Cartagena, Cartagena, et al.
2.71	MERCURY LEVELS IN BIRDS FROM LAS ORQUIDEAS NATIONAL NATURAL PARK, COLOMBIA	Lucellys Sierra-Marquez, University of Cartagena, et al.
2.72	Mercury in Fish from U.S. National Parks – Concentrations, Sources, and Ecological Risk	Colleen Flanagan Pritz, U.S. National Park Service - Air Resources Division, et al.

2.73	Feathers of Adélie Penguin as a tool for the monitoring of total and methyl mercury in the Antarctic environment	Juliana Souza, Universidade Federal do Rio de Janeiro & Uniwersytet im. Adama Mickiewicza, et al.
2.74	Temporal evolution of mercury levels in three tropical tuna species in the South-Western Pacific	Anaïs Médieu, UBO, et al.
2.75	Relating diet and Hg exposure in a generalist seabird	Nere Zorrozua, Department of Ornithology, Aranzadi Sciences Society, Zorroagagaina 11, E-20014 Donostia, Spain, et al.
2.76	Factors influencing Hg exposure in two subantarctic sympatric seabirds, the giant petrels	Paco Bustamante, University of La Rochelle, et al.
2.77	Risk assessment of mercury contamination to ecosystem in an oil extraction field	Yan Lin, Norwegian Institute for Water Research, et al.
2.78	Survey of total mercury concentration levels in eggshells of black storks	Anda Abola, Institute of Atomic Physics and Spectroscopy, University of Latvia, Skunu Str. 4, LV-1050, Riga, Latvia, et al.
2.79	Relatively unaffected nesting success of two songbird species in Hg mining and non-mining areas of Guizhou Province, China	Tongping Su, Guangxi Key Laboratory of Forest Ecology and Conservation, College of Forestry, Guangxi University, Nanning, China, et al.
2.80	Hg elimination by three size classes of Goldfish (Carassius auratus)	Jiajia Li, Southwest University
2.81	Spatial Patterns of Mercury Contamination and Associated Risk to Piscivorous Wading Birds of the South Central United States	Matthew Chumchal, Texas Christian University, et al.
2.82	Relevance of active biomonitoring of mercury using freshwater bivalves	Lies Teunen, University of Antwerp, et al.
2.83	Mercury pollution in distinct geomorphological compartments impacted by mining dam breaking in Mariana (Minas Gerais State, Brazil): toxic effects on earthworms	Mariana Vezzone, Federal University of Rio de Janeiro, et al.
2.84	Mercury Exposure and Genetic Ecotoxicological Consequences in Blacknose dace, Rhinichthys atratulus, Living in a Historically Mercury Polluted River	Kayla Anatone, Biology Department, Wesleyan University, et al.
2.85	Reconstructing avian mercury concentrations through time using museum specimens from New York State	Sarah Dzielski, State University of New York College of Environmental Science and Forestry, et al.
2.86	Land disposal of dredged sediments from Guanabara Bay (Rio de Janeiro, Brazil): seasonal variability of mercury pollution and toxic effects on earthworms	Mariana Vezzone, Federal University of Rio de Janeiro, et al.
2.87	Monitoring of Hg sources in Arctic top predators: insights from isotopic analysis in captive hooded seals Cystophora cristata.	Marianna Pinzone, University of Liège, et al.
2.88	Spatial Patterns of Exposure to Mercury in Boreal Songbirds: Combining Feather Mercury and Stable Isotope (δ2H) measurements.	Yanju Ma, Department of Biology, University of Western Ontario, London, Ontario, Canada; Advanced Facility for Avian Research, University of Western Ontario, London, Ontario, Canada, et al.
2.89	Potential ecological risk and mercury distribution in bottom sediments from Rodrigo de Freitas Lagoon (Rio de Janeiro, Brazil)	Mariana Vezzone, Federal University of Rio de Janeiro, et al.
2.90	The invasive alien raccoon Procyon lotor as a bioindicator of mercury contamination in an European riparian ecosystem	Elzbieta Kalisinska, Pomeranian Medical University in Szczecin, et al.

2.91	Stopover departure behaviors and flight orientations of spring-migrant Yellow-rumped Warblers (Setophaga coronata) experimentally exposed to methylmercury	Chad L. Seewagen, Great Hollow Nature Preserve & Ecological Research Center, New Fairfield, CT, USA, et al.
2.92	Geographic variation of mercury in breeding tidal marsh sparrows of the northeastern United States	Christopher Sayers, Cornell Lab of Ornithology, et al.
2.93	Variation of mercury concentration in different tissues of Spectacled Caiman (Caiman yacare) in the Beni river basin La Paz-Bolivia	Andrea Salazar Pammo, Wildlife Conservation Society, Madidi-Tambopata Landscape Conservation Program, La Paz, Bolivia, et al.
2.94	Elevated mercury concentrations in the Northern Saw-whet owl of Haida Gwaii	Debbie Armstrong, University of Manitoba, et al.
3.2		
3.49	Spatial Distribution of Mercury and Methylmercury in Coastal Soil and Sediments of Gadani Shipbreaking Area, Pakistan	Allauddin Kakar, COMSATS University Islamabad, Pakistan, et al.
3.50	Calcium alginate-mesoporous activated carbon composite beads as a novel adsorbent for elemental mercury from natural gas	Mohamed B. Masod, Egyptian Petroleum Research Institute (EPRI), Nasr City, 11727, Cairo, Egypt, et al.
3.51	Technical scale investigations on the controlled stripping of mercury in waste water treatment	Barna Heidel, Hochschule Esslingen University of Applied Sciences, Flandernstraße 101, D-73728 Esslingen, Germany, et al.
3.52	Decentral treatment of industrial mercury wastes – it´s not rocket science!	Reinhard Schmidt, econ industries services GmbH, et al.
3.53	Study on the Elemental Mercury Adsorption Characteristics and Mechanism of Iron-Based Modified Biochar Materials	Li Jia, Taiyuan University of Technology, et al.
3.54	Mercury removal from natural waters using Eucalyptus globulus bark as an efficient biosorbent: modelling and optimization by Response Surface Methodology	Eduarda Pereira, CESAM & LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal, et al.
3.55	Treatment/Recovery of Mercury guards and Activated Carbon in the Oil & Gas Industry as well as Stabilisation of mercury as HgS	GABRIEL CHIFFLIER, et al.
3.3		
3.56	Study of the environmental availability of mercury in soils from a contaminated area in Minas Gerais, Brazil	Cláudia M. do Valle, IFAM – Campus Manaus Centro, Av. Sete de setembro, 1075, 69020-120, Manaus/AM, Brazil, et al.
3.57	Impact of enriched CO2 and H2O on mercury removal over magnetic biochar in oxyfuel combustion atmosphere	Yuming Zhou, Huazhong University of Science and Technology, et al.
3.58	Effects of Cl and O surface groups of biochar on mercury removal from flue gas	Jinjing Luo, et al.
3.59	Impacts of emission control measures on the environmental mercury burden of India and transboundary fluxes out of India via air and water	Asif Qureshi, IIT Hyderabad, et al.
3.60	Influence of Operating Conditions on Mercury Removal by Activated Carbon Injection in A Pilot-scale Coal-fired Boiler	Tianfang Huang, School of Energy and Environment, Southeast University, et al.
3.61	Mercury concentration and mobility in soils from the vicinity of an informal e-waste recycling site, Lagos, Nigeria	Konstantinos Togias, Department of Sanitary Engineering and Environmental Health, National School of Public Health, Athens, Greece, et al.

3.62	A Patent landscape of Mercury Disposal Technology Based on Bibliometric	Liyuan Liu, Beijing Advanced Sciences and Innovation Centre of CAS, State Environmental Protection Engineering Center for Mercury Pollution Prevention and Control, et al.
3.63	Benefit of ultra-low technical transformation to the reduction of mercury emission in China's coal-fired power plant: evidence from field experiment	Minneng Wen, School of Environment, Tsinghua University, et al.
3.64	Mercury Emissions from Industrial Sources - More than 30 Sectors Analysed to Find Real Sinks	Peter Gebhardt, et al.
3.65	Implementation of the Minamata Convention With Respect to Vinyl Chloride Manufacture in China: Government Strategy and UNIDO Project Status	Yunrui ZHOU, United Nations Industrial Development Organization, et al.
3.66	Migration and Transformation Characteristics of Mercury in a 600MW Coal-fired Power Plant with Ultra Low Emission Air Pollution Control Devices	Yifan Xu, Key Laboratory of Energy Thermal Conversion and Control of Ministry of Education, Southeast University, et al.
3.4		
3.67	Effects of low temperature economizer and air pollution control devices on mercury removal in coal-fired power plants	Zijian Zhou, Huazhong University of Science & Technology, et al.
3.68	Density function theory studies of modeling Mn-V2O5-WO3/TiO2 SCR catalyst in low-temperature flue gas under Hg0 oxidation	Zhongli He, Southeast University, et al.
3.69	Experimental Study on Mercury Removal and Regeneration of SO2 Modified Activated Carbon	Cong Chen, School of Energy and Environment, Southeast University, et al.
3.70	Can co-firing of biomass to coal-fired power stations reduce global Hg(0) emissions?	Flora M. Brocza, University of Leeds, et al.
3.71	Contribution of China's "ultra-low emission" policy on atmospheric mercury emission reduction of the power industry	Fahua Zhu, State Power Environmental Protection Research Institute, et al.
3.72	New insight into simultaneous removal of NO and Hg0 on CeO2 modified V2O5/TiO2 catalyst: A nitrate pathway for Hg0 oxidation	Yang Yang, Institute of Process Engineering, Chinese Academy of Sciences, et al.
3.73	A Highly Resolved Mercury Emission Inventory of Global Thermal Power Plants	Liu Yan, et al.
3.74	Dual Roles of Nano-Sulfide in Efficient Removal of Elemental Mercury from Coal Combustion Flue Gas within a Wide Temperature Range	Jiexia Zhao, Central South University, et al.
3.75	Effect of selenium on mercury adsorption over activated carbons in coal combustion flue gas	Wenqi Qu, School of Energy Science and Engineering, Central South University
3.76	Design, Monitoring and Optimization Considerations for In Situ Remediation of Mercury at Former Chlor-Alkali Facilities	Dimitri Vlassopoulos, Anchor QEA LLC, et al.
3.77	Mercury speciation and removal by MERCAWAYSM process in the oil and gas industry	Evan Hatakeyama, Chevron, et al.
3.78	Subcellular distribution of mercury in the macrophyte Eleocharis interstincta planted in a vertical wetland: a microcosm experiment	José Luis Marrugo-Negrete, Universidad de Córdoba, Carrera 6 No. 76-103, Montería, Córdoba, Colombia, et al.
3.79	Rehabilitating Mercury Contaminated Mining Lands In Colombia Using Biochar	Alfonso Rodriguez, R3 Environmental Technology Colombia SAS, et al.

3.80	Effect of sorbents on mercury methylation and methylmercury removal from water	Katherine Muller, Oak Ridge National Laboratory, et al.
3.81	Diffusive Gradient in Thin Film (DGT) samplers as a biomonitoring tool for Hg bioaccumulation in freshwater wetlands	Natalia Neal-Walthall, Duke University, et al.
3.82	Mercury-Driven Ecotoxicological Impact of a Textile Industry Wastewater on Microbiome of a Receiving Freshwater Stream	Grace Odubanjo, University of Lagos, Nigeria, et al.
3.83	Novel Fe-ZSM-5 Catalyst for Catalytic Oxidation of Elemental Mercury in the presence of NH3	Jiayin Li, Renmin University of China, et al.
3.84	Removal and reduction of mercury in groundwater by pumice-supported nanoscale zerovalent iron: effects of dissolved oxygen, nitrate and natural organic matter	GHULAM HUSSAIN QASIM, School of Earth Sciences and Environmental Engineering, Gwangju Institute of Science and Technology, et al.
3.85	Experimental and theoretical studies of mercury removal by ZnIn2S4 sorbents from flue gas	Yingni Yu, Huazhong University of Science and Technology, et al.
3.86	Assessing the impact of activated carbon amendment and tidal inundation on mercury and methylmercury partitioning in contaminated marsh soils: A mesocosm study	Grace Schwartz, Oak Ridge National Laboratory, et al.
3.87	In situ decorated copper foam with copper selenide as a 3D monolith material for efficient sequestration of mercury	Jianping Yang, School of Energy Science and Engineering, Central South University, et al.
3.88	Harnessing social-learning and concepts of transformative education for the development of sustainable, mercury-free ASGM: Concepts and lessons from the case of TRANSMAPE in Ecuador.	Patricio Colón Velásquez-López, University of British Columbia/ CIRDI, et al.
3.89	Is it possible to cultivate energy crop on soil extremely contaminated with mercury? A pot experiment preliminary results	Marta Pogrzeba, Institute for Ecology of Industrial Areas, Katowice Poland, et al.
3.90	Immobilization of mercury in contaminated sediment: An active capping demonstration in Hyeongsan River Estuary, South Korea	Mark Xavier Bailon, Department of Environmental Systems Engineering, Korea University, et al.
3.91	Optimization, characterization and implementation of Cladophora sp alga immobilized in alginate beads and silica gel biosorbents of mercury from aqueous solutions	Ewa Cukrowska, University of the Witwatersrand, et al.
3.92	Mercury Mobilization from Contaminated Creek Bank Soils and Stabilization using Engineered Sorbents	Leroy Gonez-Rodriguez, ORNL/UTK, et al.
3.93	Technical Assessment of a Small Hg-free Gold Processing Plant in Colombia.	Melissa Correa, Agriteam Canada Consulting Ltd, Colombia, et al.
3.94	A Global Database of Mercury Emissions for Artisanal and Small-scale Gold Mining (ASGM)	Jennifer D. O'Neill, Artisanal Gold Council, et al.
3.95	Atmospheric and hydrologic transport and transformation of mercury from artisanal gold mining in the Peruvian Amazon	Jacqueline Gerson, Duke University, et al.
3.96	Enhancing stability and accuracy in direct mercury analysis, in various matrices, via a double beam spectrophotometer.	Giulio Colnaghi, et al.