

CV for Xiaolin Hou(*1966)

*Orcid: 0000-0002-4851-4858

*Degrees:

1998 PhD (Nuclear Analysis), Institute of High Energy Physics, CAS, China
1991 MSc.(Nuclear Chemistry), China Institute of Atomic Energy
1988 Bsc (Chemistry), Northwest University, Xi'an, China



*Positions:

2020- Professor, Department of Environmental & Resource Engineering, DTU
2013-2019 Professor, Center for Nuclear Technologies, DTU
2007-2013, Senior Scientist, Center for Nuclear Technologies, DTU
2004-2006 Senior Scientist, Risø National Laboratory, Denmark
2001-2003 Scientist, Risø National Laboratory, Denmark
1998-2001 Post Doc. Risø National Laboratory, Denmark

*Research Area:

Environmental radioactivity, radioecology, environmental process studies using radionuclides, radioanalytical chemistry, nuclear analytical techniques, speciation analysis of radionuclides, radiological characterisation of radioactive waste, production of radioisotopes and radio-labeling.

Distinctions and awards:

2019 George de Hevesy Medal Award
2019 Vladimir Mayer Medal

Memberships of scientific committees, review:

2016- Associate editor, Journal of Environmental Radioactivity
2019- Editor, Scientific Reports
2015- Editor, International Journal of Analytical Chemistry
2018- Editor, Journal of Nuclear Fuel Cycle and Waste Technology
2014- Distinguished reviewer, Journal of Radioanalytical and Nuclear Chemistry
2003- Selected member of Division of Nuclear and Radiochemistry (EuChemS)
2002- Member of president board of International Nuclear Chemistry Society
2017 Chairman of organization committee of LSC2017
2021 Chairman of Scientific Committee of LSC2020

*Web of Science publications: 242; Citations: 4692; h-index: 36;

Other publications: 1; Patents: 0.

*Supervision of PhDs, 2017 – present (ongoing or finished in 2017 or later):

Main supervisor for 2 PhD and co-supervisor for 5 PhD in this period

*Selected grants, 2017 – present (ongoing or finished in 2017 or later):

EU MetroPOEM, "Metrology for the harmonisation of measurements of environmental pollutants in Europe", Amount granted to depart: 1.12 mill DKK, Project period: 2022-2025

OKG-RKL-SERIN, "Analyses of hard-to-measure radionuclides in samples from the RKL and SERIN projects of OKG (Oskarshamn NPP)", Amount to Dept. 2.39 mill DKK, Project period:2021-2024

Barsebäck RKL, "Analysis of hard to measure radionuclides in samples from the RKL project of Barsebäck NPP", Amount to Depart. 1.47 mill DKK, project period: 2020-2021

SE-Method, "Investigation of ⁷⁹Se and other hard-to-measure radionuclides in radioactive samples from nuclear facilities: method development, optimization, validation, and testing", Amount to Dept: 1.32 mill DKK, project period: 2022-2024

Other significant contributions:

2019-2023 Member of Scientific Advisory Committee of the program of RAMSES, Czech
2020-2027 Member of steering committee of NNUF-EXACT Facility, University of Southampton
2009- Expert on mission, International Atomic Energy Agency
2018 Plenary lecture, International Symposium on Environmental Radiochemical Analysis, UK
2019 Plenary lecture, 2nd International conference on RANC, Budapest, Hungary
2021 Plenary lecture, LSC2020, Shenzhen, China
2021 Keynote speaker, ENVIRA2021 (International conference on Environmental Radioactivity)

***Selected publications (2017 or later):**

Zhao X., **Hou X.L.**, Huang Z., Liu H., Jiang H (2022). Plutonium isotopes in the Qinghai-Tibet Plateau: Sources, distribution, and their environmental behaviors, *Environmental Pollution*, 306:119401.

Zhang, M.T., Qiao J.X., Zhang W.C., **Hou X.L.**(2022). Plutonium isotopes in the northwestern South China Sea: Level, distribution, source and deposition, *Environ. Poll.* 298:118846.

Zhang W.C., **Hou X.L.**, Zhang H.T., Wang Y.Y., Dang H.J., Xing S., Chen N.(2021). Level, distribution and sources of plutonium in the northeast and north China. *Environmental Pollution*, 289:117976.

Zhu L., **Hou, X.**, Qiao J.(2020). Determination of Ultralow Level ¹³⁵Cs and ¹³⁵Cs/¹³⁷Cs Ratio in Environmental Samples by Chemical Separation and Triple Quadrupole ICP-MS. *Anal. Chem.*, 92:7884-7892.

Zhu, L.C., Xu, C., **Hou, X.L.** Qiao, J.X., Zhao, Y.G., Liu, G.R.(2020), Determination of Ultratrace Level ¹³⁵Cs and ¹³⁵Cs/¹³⁷Cs Ratio in Small Volume Seawater by Chemical Separation and Thermal Ionization Mass Spectrometry. *Anal. Chem.*, 92:6709-6718.

Zhang L.Y., **Hou X.L.** Xu S., Feng T., Cheng P., Fu Y.C., Chen N.(2020). Temporal variation of ¹²⁹I and ¹²⁷I in aerosols from Xi'an, China: influence of East Asian monsoon and heavy haze events, *Atmospheric Chemistry and Physics*, 20:2623-2635.

Hou X.L., Zhang W.C., Wang Y.Y.(2019). Determination of Femtogram-Level Plutonium Isotopes in Environmental and Forensic Samples with High-Level Uranium Using ICP-MS/MS Measurement. *Anal. Chem.*, 91:11553-11561.

Hou X.L., Dai X.X (2020). Environmental liquid scintillation analysis, in Handbook of Radioactivity Analysis, Vol.2, Michael L'Annunziata (ed.), 4th Edition, DOI: [10.1016/b978-0-12-814395-7.00002-7](https://doi.org/10.1016/b978-0-12-814395-7.00002-7).

Zhao X., **Hou X.L.**, Zhou W.J.(2019). Atmospheric Iodine (¹²⁷I and ¹²⁹I) Record in Spruce Tree Rings in the Northeast Qinghai-Tibet Plateau. *Environ. Sci. Technol.* 53(15)8706-8714.

Zhang W.C., Xing S, **Hou X.L.** (2019). Evolution of soil erosion and ecological rehabilitation in Loess Plateau region in Northwest China using plutonium isotopes. *Soil and Tillage Research.* 91: 162-170.