Curriculum Vitae

Dr. Yuying Huang

Current Positions:
Professor, Shanghai Synchrotron Radiation Facility (SSRF), Shanghai Advanced Research Institute, Chinese Academy of Sciences, Zhangheng Road, 239, Pudong 201204, Shanghai, China
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Deputy Chief Engineer of SSRF phase II beamline project (16 new beamlines construction, more than 7 beamlines related to XAFS techniques, 2016-2022)

Vice Chair of Chinese X-ray Absorption Society (2018-2022)

Vice Chair of Chinese X-ray Fluorescence Society (2018-2022)

The member of international journal editorial board of *X-ray spectrometry* since 2005

The technical committee member of surface chemical analysis of International Standard Organization (ISOTC201) as the Total Reflection X-ray Fluorescence (TXRF) technical expert since 2005

Professor and Supervisor of PhD student at University of Chinese Academy of Sciences since 2007, and the lecturer of the graduate student course of X-ray fluorescence and X-ray absorption techniques and their applications at the University of Science and Technology of China since 2012.

Education:
1982-1986, Bachelor Degree, Technical Physics Department, Beijing University, China
1988-1991, Master Degree, Beijing Synchrotron Radiation Facility (BSRF), Institute of High Energy Physics, Chinese Academy of Sciences, China

Scientific Research Experience:
1991-2007, Associate professor, Beijing Synchrotron Radiation Facility (BSRF), Institute of High Energy Physics, Chinese Academy of Sciences. During 1995-2007, group leader of X-ray Fluorescence (XRF) beamline BL4W1B at BSRF, in charge of the development and applications of synchrotron radiation XRF beamline in environmental and medicine science and so on. From 1994.7 to 1995.7, Italy, Elettra Synchrotron Radiation Facility and Institute of Materials Structure of CNR of Italy, visiting scholar. Between 2000 and 2002, City University of Hongkong, visiting scholar.

2007-2018, Professor, Shanghai Synchrotron Radiation Facility, Shanghai Institute of Applied Physics, Chinese Academy of Sciences. Group leader and Chief Scientist of X-ray absorption (XAFS) beamline BL14W at Shanghai Synchrotron Radiation Facility, and Director of Energy and Material Science Division, in charge of construction of the first XAFS beamline at SSRF (BL14W1) and its applications in environmental and catalytic sciences and so on.

2018-date, Professor, Shanghai Synchrotron Radiation Facility, Shanghai Advanced Research Institute, Chinese Academy of Sciences, Deputy Chief Engineer of SSRF phase II beamline project. Deputy Director of Shanghai Synchrotron Radiation Facility (SSRF) from 2019-2021.

During recent ten years, research interest mainly focusing on the development of high-energy resolution fluorescence-detected X-ray absorption spectroscopy and X-ray emission spectroscopy techniques at SSRF and its applications in actinide compounds, and in-situ characterization catalyst by XAFS.

Academic Activities Experience:

As the Deputy Director of Shanghai Synchrotron Radiation Facility (SSRF) from 2019-2021, in charge of the SSRF user administration, organizing the SSRF annual user meeting, SSRF annual activity report (Chinese and English edition) and all the others academic activities (workshop, seminars, summer school, training program by SSRF).

Successfully held the last national XAFS meeting of China in 2018 as the chairman of the local organization committee, the 4th and 10th Asia-Oceania Forum for Synchrotron Radiation Research, AOFSRR 2009 and 2016 as the secretary general of the local organization committee in Shanghai, many international or national workshops, seminars, summer school and training program on XAFS techniques and its applications in the fields of environmental and catalytic sciences, inviting many international or national XAFS experts as the chairman of the organization committee of all these activities at SSRF since 2007.

Book publication:

Editorial member of the book "Synchrotron Radiation light and its application", Chapter 10, Synchrotron Radiation X-ray Fluorescence Analysis and its Application, Chinese Science Press, 2013.

Scientific papers：

more than 200 articles and some recent ten years publications as corresponding author and co-author:

1.Atomic Indium Catalysts for Switching CO2 Electroreduction Products from Formate to CO, Weiwei Guo; Xingxing Tan; Jiahui Bi; Liang Xu; Dexin Yang; Chunjun Chen; Qinggong Zhu; Jun Ma; Akhil Tayal; Jingyuan Ma; Yuying Huang; Xiaofu Sun; Shoujie Liu; Buxing Han, Journal of the American Chemical Society, 2021, 143: 6877-6885.

2.Local structure of uranium in polycrystalline α-U2N3+δ film probed by X-ray absorption spectroscopy, Hongliang Bao; Huoping Zhong; Yin Hu; Jian Lin; Haisheng Yu; Jingyuan Ma; Zhengfeng Tang; Yuan Qian; Yuying Huang; Ke-Zhao Liu; Jian-Qiang Wang, Journal of Nuclear Materials, 2020, 542: 152404.

3.Differential interplay between Ce and U on local structures of U1-xCexO2 solid solutions probed by X-ray absorption spectroscopy, Cao; Hanjie; Bao; Hongliang; Lin; Xiao; Lin; Jian; Zhang; Linjuan;

Huang; Yuying; Wang; Jian-Qiang, Journal of Nuclear Materials, 2019, 515: 238-244.

4. Uranium-Induced Changes in Crystal-Field and Covalency Effects of Th4+ in Th1-xUxO2 Mixed Oxides Probed by High-Resolution X-ray Absorption Spectroscopy, Bao Hongliang; Duan Peiquan; Zhou Jing; Cao Hanjie; Li Jiong; Yu Haisheng; Jiang Zheng; Liu Hongtao; Zhang Linjuan; Lin Jian; Chen Ning; Lin Xiao; Liu Yancheng; Huang Yuying; Wang Jian Qjang, Inorganic Chemistry, 2018, 57(18): 11404-11413.

5.A three-crystal spectrometer for high-energy resolution fluorescence-detected X-ray absorption spectroscopy and X-ray emission spectroscopy at SSRF, Duan, Peiquan; Gu, Songqi; Cao, Hanjie; Li, Jiong; Huang, Yuying, X-Ray Spectrometry, 2017, 46(1), 12-18.

6.Contributions of distinct gold species to catalytic reactivity for carbon monoxide oxidation, Guo, Li-Wen; Du, Pei-Pei; Fu, Xin-Pu; Ma, Chao; Zeng, Jie; Si, Rui; Huang, Yu-Ying; Jia, Chun-Jiang; Zhang, Ya-Wen; Yan, Chun-Hua, NATURE COMMUNICATIONS, 2016, 7: 0-13481.

7.The XAFS beamline of SSRF, YU Hai-Sheng; WEI Xiang-Jun; LI Jiong; GU Song-Qi; ZHANG Shuo; WANG Li-Hua; MA Jing-Yuan; LI Li-Na; GAO Qian; SI Rui; SUN Fan-Fei; WANG Yu; SONG Fei; XU Hong-Jie; YU Xiao-Han; ZOU Yang; WANG Jian-Qiang; JIANG Zheng; HUANG Yu-Ying, NUCLEAR SCIENCE AND TECHNIQUES, 2015, 26 : 050102.

8. Simultaneous As(III) and Cd removal from copper smelting wastewater using granular TiO2 columns, Yan, Li; Huang, Yuying; Cui, Jinli; Jing, Chuanyong, Water Research, 2015, 68:572-579.

9.Ruthenium Nanoparticles Supported on CeO2 for Catalytic Permanganate Oxidation of Butylparaben, Zhang, Jing; Sun, Bo; Guan, Xiaohong; Wang, Hui; Bao, Hongliang; Huang, Yuying; Qiao, Junlian; Zhou, Gongming, Environmental Science & Technology, 2013, 47(22): 13011-13019.

10.Tuning the redox activity of encapsulated metal clusters via the metallic and semiconducting character of carbon nanotubes, Zhang, Fan; Pan, Xiulian; Hu, Yongfeng; Yu, Liang; Chen, Xiaoqi; Jiang, Peng; Zhang, Hongbo; Deng, Shibin; Zhang, Jin; Bolin, Trudy B.; Zhang, Shuo; Huang, Yuying; Bao, Xinhe, Proceedings of the National Academy of Sciences of the United States of America, 2013, 110(37): 14861-14866.

11.QXAFS system of the BL14W1 XAFS beamline at the Shanghai Synchrotron Radiation Facility, Liu, Heng; Zhou, Yongnian; Jiang, Zheng; Gu, Songqi; Wei, Xiangjun; Huang, Yuying; Zou, Yang; Xu, Hongjie, Journal of Synchrotron Radiation, 2012, 19: 969-975.

12.Synergetic Effect of Surface and Subsurface Ni Species at Pt-Ni Bimetallic Catalysts for CO Oxidation, Mu, Rentao; Fu, Qiang; Xu, Hong; Zhang, Hui; Huang, Yuying; Jiang, Zheng; Zhang, Shuo; Tan, Dali; Bao, Xinhe, JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 2011, 133(6): 1978-1986.