

Educational Background

- Ph.D, Chemical and Biochemical Engineering, Ohio University, USA, 2019.
- M.S., Material Science and Engineering, University of Science and Technology Beijing, China, 2013.
- B.S., Material Science and Engineering, University of Science and Technology Beijing, China, 2010.

Research Interests

- Fracture toughness assessment and simulation in H₂S containing environments.
- Corrosion of carbon steel and its mitigation in extreme conditions, including high temperature and high pressure (HTHP), supercritical system, etc.
- Passivity of stainless steel and its breakdown in harsh environment.
- Corrosion modelling in sweet/sour wells.

Awards & Honors

- 2nd Place in Harvey Herro Prize at Student Poster Session for the best posters in Applied Corrosion Technology category, NACE, 2019.
- Chair of Corrosion in Supercritical System Symposium of AMPP 2022.

Selected Publications

- "The Development of Eta Function for the Calculation of J-Integral Based on Notch Tensile Testing in Sulfide Stress Cracking (SSC) Susceptibility Evaluation." Y. Ding, L. Liu, S. Cravero, B. Bezensek, R. Case. Corrosion Conference and Expo 2022, San Antonio, TX, paper No. 18000.
- "Electrochemical and Morphological Investigation of Corrosion Behavior of Carbon Steel in a Supercritical CO₂ Environment with Presence of H₂S." Y. Ding, C. Cheng, R. Case. Corrosion Conference and Expo 2022, San Antonio, TX. Paper No. 18005.
- "A Novel Model to Assess Sulfide Stress Cracking (SSC) Susceptibility of Carbon Steels." Y. Ding, R. Case. Corrosion 2021, online, paper No. 16326.
- "Effectiveness of an Imidazoline-Type Inhibitor Against CO₂ Corrosion of Mild Steel at Elevated Temperatures (120°C-150°C)", Y. Ding, B. Brown, D. Young, and M. Singer, Corrosion 2018 Conference, Phoenix AZ, paper No. 11622.
- "Electrochemical Behavior of 304 Stainless Steel in Marine Atmosphere and its Simulated Solution", C.F. Dong, H. Luo, K Xiao, Y. Ding, P.H. Li, X.G. Li. Analytical Letters 46, 1 (2013):142-155.