



关于第十二届国际电化学阻抗谱会议评奖结果的通告

经教育部批准，由北京化工大学和清华大学联合组办的第十二届国际电化学阻抗谱会议于2023年7月2日在北京延庆开幕、7日圆满结束。会议历时5天，此次大会有来自法国、德国、比利时、巴西、日本、韩国、塞尔维亚、斯洛文尼亚等12个国家的210余位专家学者参加。大会主席为北京化工大学雍兴跃研究员和清华大学张剑波教授。大会设置8个分专题会场，分别为纪念曹楚南先生、测试技术与分析方法、磨损腐蚀、金属腐蚀、涂层、缓蚀剂、能源电池和电催化。同时，大会还组织了3分钟主题演讲竞赛（3MT）、电化学阻抗谱培训班和电化学仪器技术展示等学术交流活动。在大会开幕式上，国际电化学阻抗谱技术委员会授予了浙江大学张鉴清教授、比利时布鲁塞尔自由大学（VRIJE Universiteit Brussel）Annick Hubin教授 Claude 奖，以表彰两位教授在电化学阻抗谱技术研究与应用方面做出的贡献，这是 Claude 奖第一次授予中国的腐蚀电化学学者。

会议期间，由国内外专家学者组成了优秀报告论文评奖委员会，对邀请报告、Keynote 报告，口头报告和墙报进行评奖。同时，还评选了研究生3分钟论文讲解（3MT 比赛）的优胜者。现将评选的曹楚南院士奖、优秀报告奖、优秀墙报奖和优秀3MT 比赛奖公告如下，并对获奖表示祝贺。同时，衷心感谢来自国内外的所有会议代表对本次大会的大力支持。



附件：获奖名单

List of Chunan Cao Awards

| No. | Authors | Topic |
|-----|-------------|---|
| 1 | Li Liu | Study of corrosion of high-strength steel in 3.5% NaCl solution under hydrostatic pressure using electrochemical impedance spectroscopy |
| 2 | Yuming Tang | Study on the rapid detection method for coating performance based on phase angles with three methods of correlation analysis |
| 3 | Zehua Dong | Electrochemical Impedance sensor for early failure monitoring of coatings in offshore wind power station |

List of Best Presentation Awards

Beijing China

| No. | Session | Authors | Topic |
|-----|-----------------------------|-----------------|---|
| 1 | Inhibitors | Baoming Fan | Benzothiazole derivatives-based supramolecular assemblies as efficient corrosion inhibitors for copper in artificial seawater: Formation, interfacial release and protective mechanisms |
| 2 | Metallic Corrosion | Yaojun Hou | The effect of Cl ⁻ and applied potential for corrosion resistance on CrMnFeCoNi high entropy alloys by electrochemical measurements in sulfuric acid |
| 3 | | Reynier Revilla | EIS comparative study and critical EEC analysis of the native oxide layer of additively manufactured and wrought 316L stainless steel |
| 4 | | Haotian Ji | Study on the metal/salt hydrate interfaces under solid-liquid transitions of phase change material based on EIS and EN methods |
| 5 | Measurements & analysis and | Benny Wouters | Investigating the diffusion of water and ions in organic coatings using coupled ORP-EIS and in situ ATR-FTIR in Kretschmann geometry |
| 6 | Sensors | Noël Halleman | Operando EIS and its application to Li-ion batteries |
| 7 | Coatings & films | Guoqing Wang | An EIS study of corrosion resistance and antibacterial activities of a new composite coating on AZ91 magnesium alloy surface |
| 8 | Batteries | Chong Yan | Determining the fast-charging boundary and achieving lithium plating early warning with EIS for safe lithium-ion batteries |
| 9 | Electro-catalysis | Yiming Zhang | Analysis of Proton Transport in Electrospun Catalyst Layer |
| 10 | Tribo-corrosion | Xiankang Zhong | The research progress on adsorption-desorption of corrosion inhibitor under the pipe flow condition |

List of Best Poster Awards

| No. | Authors | Topic |
|-----|--|---|
| 1 | Sara Genoveva Hernandez EIS 2023 Beijing China 中国北京 | Frequency response of Gibbs free energy and enthalpy changes of electrochemical systems analyzed as thermometric transfer functions |
| 2 | Yanming Xia | Effect of Cu ²⁺ and Hg ²⁺ on the corrosion behavior and mechanism of Al-2 %Zn coatings in 3.5 % NaCl solution |
| 3 | Shixiong Wu | Application of electrical impedance spectroscopy in cathodic protection studies |
| 4 | Zhihong Liu | Research on the Correlation between ICG and Tensile Properties of Alloy 625 |
| 5 | Denghui Xia | Electrochemical characteristics of the additive manufacturing AlSi10Mg alloy in a 3.5 wt.% NaCl solution |
| 6 | Xiaomei Dong | Features of electrochemical impedance spectroscopy during the failure of conductive coatings |
| 7 | Lili Xie | Global and local electrochemical behaviors of the in-situ conversion coating of Mg alloy based on EIS and SVET |
| 8 | Benny Wouters | Development of an Odd Random Phase Electrochemical Impedance Spectroscopy Sensor for Battery Management Systems |
| 9 | Pingan Li | Analysis of degradation mechanism in unitized regenerative fuel cell based on the EIS method |
| 10 | Gokberk Kadirci EIS 2023 Beijing China 中国北京 | EIS Investigation of Vitzrocell C and D Size Li/SOCl ₂ and Li/SOCl ₂ /SO ₂ Cl ₂ Mixture Batteries |

List of 3MT awards

| No. | Authors | Grade | Topic |
|-----|----------------|-----------|---|
| 1 | Ruqing Fang | 1st prize | A Theoretical Study of the Mechanical Effect on Impedance Response of Lithium Ion Batteries: from Single Particle to Porous Electrode |
| 2 | Yuanyuan Ji | 2nd prize | Effect of substrate orientations on the electrochemical and localized corrosion behavior of a quad-layer Al alloy composite |
| 3 | Yiming Zhang | 2nd prize | Residual PAA makes the proton transport path in Electrospun CL more tortuous |
| 4 | Haotian Ji | 3rd prize | Fractals — The beauty from nature geometry, the answer to local corrosion |
| 5 | Yanhui Sun | 3rd prize | Pioneering Performances of RuIr Nanoalloys towards Efficient Acidic Water Splitting |
| 6 | Zhangmin Zhang | 3rd prize | Highly Stable Chloride Sensor in Reinforced Concrete |