



71st Annual Meeting

of the
International Society of Electrochemistry

Belgrade, Wednesday 31 August to Friday 4 September 2020

Symposium 20
Oral presentation program

Wednesday 2 September 2020

s20 Cutting edge electrochemical measurement techniques

Chairman : Liwei Chen; Jose Solla-Gullon

09:00 to 09:40 Keynote Invited

Patrick Unwin (Department of Chemistry, University of Warwick, Coventry, United Kingdom), Cameron Bentley, Minkyung Kang, Viacheslav Shkirskiy, Enrico Daviddi, Daniel Martin-Yerga, Lewis Yule, Binglin Tao, Baoping Chen, Oluwasegun Wahab, Danqing Liu, Xiangdong Xu, Dimitrios Valavanis, Ian McPherson, Geoff West, Alex Colburn

[Correlative Electrochemical Multi-Microscopy: Towards a Multiscale Understanding of Electrochemical Processes and Interfaces](#)

09:40 to 10:00 Invited

Yi-Lun Ying (School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China), Xin-Yi Li, Hong-Yan Niu, Meng-Ying Li, Shao-Chuang Liu, Yi-Tao Long

[Mining Nanopore Big Data to Reveal the Single Molecule Heterogeneity](#)

10:00 to 10:10

Coffee Break

10:10 to 10:50 Keynote Invited

Yujin Tong (Physical Chemistry, Fritz Haber Institute of the Max Planck Society, Berlin, Germany)

[Probing the Solvation Dynamics of Hot Electrons at the Gold / Liquid Solution Interface with a Novel Optoelectronic Method](#)

10:50 to 11:10 Invited

Jian-Feng Li (Department of Chemistry, Xiamen University, Xiamen, China), Yao-Hui Wang, Shi-Sheng Zheng, Feng Pan

[In Situ Raman Study of Interfacial Water Structure at Pd Single-Crystal Surface](#)

11:10 to 11:30 Invited

Xiqian Yu (Institute of Physics, Chinese Academy of Sciences, Beijing, China), Junyang Wang, Rusong Chen, Hongyi Pan, Quan Li, Lufeng Yang, Jie-Nan Zhang, Hong Li, Liqun Chen, Xuejie Huang

[Multi-scale Advanced Characterizations for Solid-State Lithium Batteries](#)

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Chairman : Alexandre Bastos; Liwei Chen; Olaf Magnussen

16:00 to 16:40 Keynote Invited

Peng Chen (Chemistry and Chemical Biology, Cornell University, Ithaca, USA)

[Single-particle microscopy of photoelectrodes](#)

16:40 to 17:00 Invited

Kristina Tschulik (Chemistry and Biochemistry, Ruhr University Bochum, Bochum, Germany), Kevin Wonner, Christian Rurainsky

[Elucidating reactions of individual nanoparticles by electrochemical dark-field microscopy](#)

17:00 to 17:10

Coffee Break

17:10 to 17:30 Keynote Invited

Bozhi Tian (Chemistry, 929E, 57th street, GCIS E139C, Chicago, USA)

[Bioelectrical Engineering at the Semiconductor-enabled Biointerfaces](#)

17:30 to 17:50 Invited

Matteo Bianchini (BASF SE, BASF SE, Ludwigshafen, Germany), Jingyang Wang, Raphael Clement, Bin Ouyang, Pascal Hartmann, Torsten Brezesinski, Jürgen Janek, Wenhao Sun, Gerbrand Ceder

[Investigating Solid-State Synthesis Reactions By In Situ Synchrotron X-Ray Diffraction And Ab Initio Thermodynamics](#)

17:50 to 18:10 Invited

Serhiy Cherevko (Helmholtz-Institute Erlangen-Nuernberg for Renewable Energy, Forschungszentrum Juelich GmbH, Erlangen, Germany)

[Coupled Mass Spectrometry Techniques in Research on Stability of Electro- and Photoelectrocatalysts](#)