

ItaKa: 1st Bilateral Italian-Korean Workshop on Energy Storage

25-26 October 2018 University of Milano Bicocca



Meeting room: "Sala Rodolfi", Building U6, floor IV



25 October - Morning

9:00 am -9:20 am	Welcome Greetings from the Vice-Rector for Research of Milano-Bicocca Prof. Gianfranco Pacchioni and from Prof. Riccardo Ruffo
9:20 am- 9:50 am	"Closed" and "Open" systems in the field of electrochemical conversion and storage of energy Vito Di Noto Section of Chemistry for Technologies, Department of Industrial Engineering, Universtiy of Padova, Italy
9:50 am -10:20 am	Design, Synthesis and Electrochemical Characterizations of Electrode Materials for High Performance Lithium-Sulfur Batteries Do Kyung Kim Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Republic of Korea
10:20 am -10:50 am	Specialty polymers for Advanced Lithium Ion Batteries Maurizio Biso Battery Platform Group - Solvay Specialty Polymers SpA, Bollate, Italy.
11:15 am -11:45 am	Performance in aprotic Li-O ₂ batteries of doped NiCo ₂ O ₄ inverse-spinels electro-catalysts Sergio Brutti Dipartimento di Chimica, Università di Roma La Sapienza, Roma, Italy
11:45 am -12:15 pm	Direct visualization of electrochemical reactions in batteries by in-situ transmission electron microscopy Hyun-Wook Lee School of Energy and Chemical Engineering, UNIST, Ulsan 44919, Republic of Korea
12:15 am-12:45 pm	Advanced electrolyte components for electrochemical energy storage systems Giovanni Battista Appetecchi ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) Materials and Physicochemical Processes Laboratory, Rome, Italy

25 October - Afternoon

2:00 pm- 2:30 pm	Enhanced Lithium-Oxygen Batteries Using Nature-inspired Electrolyte Catalysts Won-Hee Ryu Sookmyung Women's University, Department of Chemical and Biological Engineering, Seoul, Republic of Korea
2:30 pm -3:00 pm	A new European player perspective on Li-ion cell production: the "E-Lithium" project Matteo Destro Faam Research Center, Torino, Italy.
3:00 pm -3:30 pm	Development of new cathode materials for Na ion batteries using neutron/X-ray diffraction and first-principle calculation Jongsoon Kim Sejong University, Department of Nanotechnology and Advanced Materials Engineering, Seoul, Republic of Korea
3:30 pm -4:00 pm	An overview of the activities in the fields of Fuel Cells & Hydrogen production and Li-ion batteries Maria Assunta Navarra Department of Chemistry, University of Rome La Sapienza, Rome, Italy
4:30 pm -5:00 pm	3-Dimensional nanoarchitected materials for energy conversion applications Yeon Sik Jung Korea Advanced Institute of Science and Technology (KAIST), Department of Materials Science and Engineering, Daejeon, Republic of Korea
5:00 pm -5:30 pm	Electrochemical systems for energy and environmental sustainability Francesca Soavi Department of Chemistry "Giacomo Ciamician", Alma Mater Studiorum Università di Bologna Via Selmi 2, Bologna, Italy
5:30 pm -6:00 pm	One-step synthesis of high-performance anode materials for Na-ion batteries EunAe Cho Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea
5:30 pm -6:00 pm	Advanced nanomaterials for sodium ion batteries Fiore Michele Department of Materials Science, Università degli studi Milano Bococca, Milan, Italy

26 October – Morning

9:00 am- 9:30 am	Towards solid-state batteries operating at ambient temperature: (composite) polymer electrolytes in a cross-linked poly(ethylene oxide) matrix Claudio Gerbaldi GAME Lab, Department of Applied Science and Technology (DISAT), Politecnico di Torino, Torino, Italy
9:30 am -10:00 am	Monitoring the Strain Evolution of Lithium-Ion Battery Electrodes using an Optical Fiber Bragg Grating Sensor Chang-Jun Bae 3D Printing Materials Center, Korea Institute of Materials Science (KIMS), Changwon, Republic of Korea
10:00 am -10:30 am	From MAX phase to MXenes: 2D anodic materials for NIB Stefano Marchionna RSE - Ricerca sul sistema energetico S.p.a, Milan, Italy
10:30 am -11:00 am	Study of Prussian Blue analogues for electrochemical energy harvesting Seok Woo Lee Nanyang Technological University, School of Electrical and Electronic Engineering, 50 Nanyang ave., Singapore
11:30 am -12:00 pm	Recent advances in post Li-ion Technologies Carlotta Francia Politecnico di Torino, Department of Applied Science and Technology, Torino, Italy
12:00 am -12:30 pm	Unexpected electrochemical performance of the cation-disordered materials Byoungwoo Kang Department of Materials Science and Engineering at POSTECH, San 31, Hyoja-Dong, Pohang, Republic of Korea
12:30 pm-1:00 pm	Designing materials for advanced Li- and Post-Li ion batteries Eliana Quartarone University of Pavia, Department of Chemistry, via Taramelli 16, Pavia, Italy
13:00 pm-13:30 pm	Advanced Lithium-Sulphur and Lithium-Oxygen Batteries Jusef Hassoun Department of Chemical and Pharmaceutical Sciences University of Ferrara, Italy

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