



***ONLINE, AUGUST 11, 2021***

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| 9.55 – 10.00  | OPENING CEREMONY (Prof. Zhumabay Bakenov, National Laboratory Astana, Nazarbayev University, Institute of Batteries) |   |
| 10.00 – 12.00 | <p style="text-align: center;"><b>Day 1</b><br/>Chairman: Dr. Berik Uzakbaiuly</p>                                   |   |
| 10.00 – 10.30 | Prof. Seung-Taek Myung<br>(Sejong University, Korea)   | Cationic and anionic redox chemistry for layered cathode materials for sodium-ion batteries |
| 10.30 – 11.00 | Prof. Kiyoshi Kanamura<br>(Tokyo Metropolitan University, Japan)   | Lithium metal rechargeable battery with 3DOM separator and highly concentrated electrolytes |

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| 11.00 – 11.30 | Prof. Sung-Soo Kim<br>(Chungnam National University, Korea)             | Study on structure-electrochemical property relationship of microstructure-controlled core-shell gradient type Ni-rich cathode material by single-particle measurement |
| 11.30 – 12.00 | Prof. Yongguang Zhang<br>(Hebei University of Technology, China)        | Development of cathode materials for high performance lithium sulfur batteries   |
| 12.00 - 13.00 | <b>BREAK</b>  |  |
| 13.00 – 15.30 | <b>Day 1</b><br>Chairman: Dr. Almagul Mentbayeva                        |  |
| 13.00 – 13.30 | Prof. Nurxat Nuraje<br>(Nazarbayev University, Kazakhstan)              | Synthesis of 2D- and 3D- Structures of Conducting Polymers and Their Nanocomposites for Energy Applications  |
| 13.30 – 14.00 | Prof. Annie Ng<br>(Nazarbayev University, Kazakhstan)                   | The significance of interfacial engineering for perovskite solar cells   |
| 14.00 - 14.30 | Dr. Long Kong<br>(Southern University of Science and Technology, China) | Lithium-sulfur batteries: Materials and Mechanisms   |
| 14.30 – 15.00 | Dr. Margarita Russina<br>(Helmholtz Zentrum Berlin, Germany)            | Transport of hydrogen in porous materials – what can we learn from neutron scattering  |
| 15.00 – 15.30 | Dr. Ayaulym Belgibayeva<br>(Tokyo Institute of Technology, Japan)       | Synthesis of free-standing SiO <sub>2</sub> /C composite nanofiber mats and their application to lithium-ion and lithium-sulfur batteries                              |
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## **ONLINE, AUGUST 12, 2021**

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| <b>10.00 – 13.00</b> | <b>Day 2</b><br><b>Chairman: Dr. Aishuak Konarov</b>                                   |   |
| <b>10.00 – 10.30</b> | Dr. Berik Uzakbaiuly<br>(National Laboratory Astana, Kazakhstan)                       | Electrochemical Properties of Sn and Cu Multilayered Thin Films for Li Ion Battery Anodes |
| <b>10.30 – 11.00</b> | Dr. Almagul Mentbayeva<br>(Nazarbayev University, Kazakhstan)                          | Development of highly sensitive MOS based nano-film gas sensors                           |
| <b>11.00 – 11.30</b> | Dr. Aishuak Konarov<br>(Nazarbayev University, Kazakhstan)                             | A high capacity cathode material for sodium-ion battery                                   |
| <b>11.30 – 12.00</b> | Dr. Gulnur Kalimuldina<br>(Nazarbayev University, Kazakhstan)                          | Self-charging power systems: integration of energy harvesting and storage devices         |
| <b>12.30 – 13.00</b> | Dr. Sandugash Kalybekkyzy<br>(National Laboratory Astana, Kazakhstan)                  | UV-crosslinked Lignin/PAN-based nanofibrous separator for Li-ion Batteries                |
| <b>13.00 – 14.00</b> | <b>BREAK</b>   |   |
| <b>14.00 – 16.30</b> | <b>Day 2</b><br><b>Chairman: Dr. Gulnur Kalimuldina</b>                                |   |
| <b>14.00 – 14.30</b> | Nurbol Tolganbek<br>(Nazarbayev University and National Laboratory Astana, Kazakhstan) | Development of Advanced Electrolytes for All-Solid-State Li-ion Batteries                 |

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| <b>14.30 – 15.00</b> | Nurzhan Baikalov<br>(Nazarbayev University and National Laboratory<br>Astana, Kazakhstan) | Engineering of Multifunctional Materials of Next Generation Batteries   |
| <b>15.00 – 15.30</b> | Lunara Rakhymbay<br>(Nazarbayev University and National Laboratory<br>Astana, Kazakhstan) | Advanced and Novel cathode materials for Na-ion battery   |
| <b>15.30 – 16.00</b> | Dauren Batyrbekuly<br>(National Laboratory Astana, Kazakhstan)                            | Puckered V <sub>2</sub> O <sub>5</sub> polymorph as cathode material for Rechargeable Aqueous<br>Hybrid-ion Batteries |
| <b>16.00 – 16.30</b> | Ahmad Ajjaq<br>(Gazi University, Ankara, Turkey)  |   |

Join Zoom Meeting: <https://us02web.zoom.us/j/89746361538?pwd=Rk1xNVRLak54b3pwRDQrL242cFpaZz09>

Meeting ID: 897 4636 1538

Passcode: 534768