

The 6th International Conference on Nanomaterials and Advanced Energy Storage Systems

8-10 August | Nazarbayev University | Astana, Kazakhstan

TIME	SPEAKER	TITLE
DAY I, AUGUST 8, 2018		
8.00 - 8.45	REGISTRATION 3rd block extension Lobby Photo Session from 8.20 and Group Photo at 8.30	
Block 3, 3ext.220		
8.45 – 8.55	Vice-Provost for Research Prof. C. Doumanidis <i>(Nazarbayev University, Kazakhstan)</i>	Welcoming to NU
8.55 - 9.00	Prof. Z. Bakenov <i>(Institute of Batteries, NU, National Laboratory Astana, Kazakhstan)</i>	Opening Remarks
9.00 – 10.30	Plenary Session (Block 3, 3ext.220) Chairman: Prof. S.T. Myung; Co-Chairman: Prof. D. V. Pelegov	
9.00 – 9.30 <i>Keynote</i>	Prof. J.P. Pereira-Ramos <i>(CNRS, France)</i>	The γ' -V ₂ O ₅ Polymorph as an attractive 2D cathodic material for lithium and sodium-ion batteries
9.30 - 10.00 <i>Keynote</i>	Prof. A. Goyal, Ph.D, MBA <i>(RENEW Institute, University at Buffalo, USA)</i>	High-performance, heteroepitaxial, nanolaminate device layers on single-crystal-like, artificial substrates and controlled self-assembly of nanostructures within device layers for wide-ranging electrical and electronic applications
10.00 - 10.30 <i>Invited</i>	Prof. H. Munakata <i>(Graduate School of Urban Environmental Sciences, Japan)</i>	Development of a quasi-solid composite electrolyte for 3D-structured batteries
10.30 – 10.50	Coffee Break, 3rd block extension Lobby	
Session AM1 on “ Advanced Materials for Energy Storage ” Block 3, 3ext.220 Chairman: Prof. J.P. Pereira-Ramos; Co-Chairman: Dr. A. Nurpeissova 10.50 – 12.40		
10.50 – 11.10 <i>Invited</i>	Dr. S. Fedotov <i>(Skolkovo Institute of Science and Technology, Lomonosov Moscow State University, Russia)</i>	Novel fluoride-phosphate based cathode materials for metal-ion batteries

11.10 – 11.30 <i>Invited</i>	Dr. D. V. Pelegov (<i>Institute of Natural Sciences, Ural Federal University, Ekaterinburg, Russia</i>)	Efficiency of carbon layer growth in $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{C}$ composites studied by XPS and Raman spectroscopy
11.30 – 11.50	Dr. A. Yermukhambetova (<i>Nazarbayev University, Kazakhstan</i>)	Effect of electrochemical cycling on microstructure of sulfur electrodes
11.50 – 12.10	Dr. A. Mentbayeva (<i>Nazarbayev University, Kazakhstan</i>)	Uniform and thin gel-like polymer separator for three-dimensional (3D) lithium-ion batteries
12.10 – 12.30	S. Kalybekkyzy (<i>NU, National Laboratory Astana, Kazakhstan</i>)	Flexible composite of S/PAN/C nanofibers by electrospinning as binder – free cathodes for Li-S batteries
12.30 – 12.40	S. Algiev (<i>International Science & Technology Center, Kazakhstan</i>)	About International Science & Technology Center
12.40 – 14.00	Lunch time	
14.00 – 15.30	Plenary Session (Block 3, 3ext.220) Chairman: Prof. S.S. Kim; Co-Chairman: Dr. A. Mentbayeva	
14.00 – 14.30 <i>Invited</i>	Prof. S.-T. Myung (<i>Sejong University, Korea</i>)	Distorted orthorhombic type Na-Mn-O cathode materials
14.30 – 15.00 <i>Invited</i>	Prof. H. Sakurai (<i>Osaka University, Japan</i>)	Colloidal composite of hydroxylated fullerenes and gold nanoparticles
15.00 – 15.30 <i>Invited</i>	Prof. Z. Mansurov (<i>Institute of Combustion Problems, Al-Farabi KazNU, Kazakhstan</i>)	Synthesis of multifunctional few layers graphene for different applications
15.30 – 16.30	Coffee Break Poster session I 3rd block extension Lobby	
Session PM1 on “ Advanced Materials and Technologies for Solar Energy ” Block 3, 3ext.220 Chairman: Prof. C. Surya; Co-Chairman: Dr. A. Yedrissov 16.30 – 18.30		
16.30 – 16.50	F. AbdelHamid Mahmoud (<i>National Research Center, Egypt</i>)	Inverted hybrid solar cell based on PbS nanocrystals embedded in P3HT: C60 system
16.50 – 17.10	D. Igali (<i>Nazarbayev University, Kazakhstan</i>)	Prospects of implementing a solar water heating system in a large hotel: a case study of Borovoe, Kazakhstan
17.10 – 17.30	Prof. L. R. Rojas-Solórzano (<i>Nazarbayev University, Kazakhstan</i>)	Viability of PV-cladding on building facades in the city of Astana
17.30 – 17.50	B. Baptyayev (<i>National Laboratory Astana, NU, Kazakhstan</i>)	Transition metal doped food waste derived carbon based counter electrode as a cost-effective alternative to Pt-counter electrodes in dye sensitized solar cells
17.50 – 18.10	B. Ibragimov (<i>Nazarbayev University, Kazakhstan</i>)	Is it the right time for solar roadways in Almaty, Kazakhstan?
18.10 – 18.30	Dr. O. Mauit (<i>NU, National Laboratory Astana, Kazakhstan</i>)	Studies of electrical and crystal properties of ALD grown ZnO

DATE/TIME	SPEAKER	TITLE	
DAY II, AUGUST 9, 2018			
9.00 – 10.30 Plenary Session (Block 3, 3ext.220) Chairman: Prof. H. Munakata; Co-Chairman: Dr. B. Uzakbaiuly			
9.00 – 9.30 <i>Keynote</i>	Prof. C. Surya (Nazarbayev University, Kazakhstan)	A novel cryo-controlled growth technique for high performance organometal halide perovskite solar cells	
9.30 - 10.00 <i>Invited</i>	Prof. M. Myronov (University of Warwick, UK)	In situ doping of silicon carbide semiconductor via epitaxy	
10.00 - 10.30 <i>Invited</i>	Prof. Y. Jin (Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, China)	Improved performance of $\text{LiFe}_{0.25}\text{Mn}_{0.75}\text{PO}_4$ by using graphene and fluorine-doped carbon coating	
10.30 – 10.50 Coffee Break, Block 3rd block extension Lobby			
Session AM2 on “Environment and Green Energy” Block 3, 3ext.220 Chairman: Prof. T. Wakihara; Co-Chairman: Prof. W. Lee 10.50 – 12.40		Session AM3 on “Advanced Computational Methods and Modeling” Block 3, 3ext.224 Chairman: Prof. D. Adair Co-Chairman: Dr. S. Sumbekova 10.50 – 12.10	
10.50 – 11.10 Prof. W. Lee (Nazarbayev University, Kazakhstan)	Nitrate reduction by bimetallic nanoparticles on soil mineral surface	Prof. D. Adair (Nazarbayev University, Kazakhstan)	An assessment of the discrete reaction model for calculating the composition of sooting flames
11.10 – 11.30 Prof. M. Hojamberdiev (Nagoya University, Japan)	Bismuth-based visible-light-active photocatalytic nanomaterials for environmental remediation	D. Tokmurzin (Nazarbayev University, Kazakhstan)	Development of an Euler-Lagrangian simulation of a circulating fluidized bed reactor for Shubarkol coal gasification case study
11.30 – 11.50 T. Srymbetov (Nazarbayev University, Kazakhstan)	Seasonal and regional clean drinking water map for Kazakhstan	Dr. S. Sumbekova (Nazarbayev University, Kazakhstan)	Microstructure clustering in multiphase materials: The role of dimensionless temperature and surface fraction
11.50 – 12.10 R. Khamedov (Nazarbayev University, Kazakhstan)	Convenience of efficiency measures applied to envelop of laboratory facility located in Burabai, Kazakhstan	N. Kaishubayeva (Nazarbayev University, Kazakhstan)	Energy efficiency gains through modelling and site measurements for Nazarbayev University Technopark
12.10 – 12.30 K. Samarkhanov (Branch of Institute of Atomic Energy, Kazakhstan)	Study of luminescence in noble gases and their binary mixtures excited by the products of $^6\text{Li}(n,\alpha)\text{T}$ nuclear reaction		
12.30 – 12.40 P. Szanto (Kurt J. Lesker Company, UK)	About Kurt J. Lesker Company		
12.40 – 14.00 Lunch time			

14.00 – 15.30		
Plenary Session (Block 3, 3ext.220)		
Chairman: Prof. M. Myronov; Co-Chairman: Prof. Jongsoon Kim		
14.00 – 14.30 <i>Invited</i>	Prof. J. Kim <i>(Sejong University, Korea)</i>	Na ₃ V(PO ₃) ₃ N: New zero-strain and 4V cathode material for Na-ion batteries
14.30 – 15.00 <i>Invited</i>	Prof. S.-S. Kim <i>(Chungnam National University, Korea)</i>	Structural and Thermal Stabilities of Li _x CoO ₂ cathode for LIB studied by a temperature programmed reduction (TPR)
15.00 – 15.30 <i>Invited</i>	Prof. T. Wakihara <i>(The University of Tokyo, Japan)</i>	Continuous flow synthesis of ZSM-5 zeolite on the order of seconds
15.30 – 16.40		
Coffee Break		
Poster session II		
3rd block extension Lobby		
Session PM2 on “ Materials and Technology for Alternative Advanced Energy Applications ” Block 3, 3ext.224		
Chairman: Prof. Y. Jin; Co-Chairman: Dr. A. Yermukhambetova		
16.40 – 18.40		
16.40 – 17.00	A. Zauytbek <i>(Eurasian National University, Kazakhstan)</i>	Definition of terms of reference mean power satellites power system
17.00 – 17.20	A. Shaikenova <i>(Satbayev University, Kazakhstan)</i>	PMMA wet transferring of CVD graphene onto the target substrate
17.20 – 17.40	Prof. P. Skrzypacz <i>(Nazarbayev University, Kazakhstan)</i>	Dynamic pull-in for micro-electro-mechanical device with a current-carrying conductor
17.40 – 18.00	E.A. Dmitrieva <i>(Satbayev University, Kazakhstan)</i>	Sensitivity to vapors of ethanol of thin films of SnO ₂ alloyed by fluorine after isothermal annealing
18.00 – 18.20	Prof. P. Pourafshary <i>(Nazarbayev University, Kazakhstan)</i>	Enhancement of heavy oil recovery by nanoparticle/microwave application
18.20 – 18.40 <i>Invited</i>	Dr. T. Toyama <i>(Nihon University, Japan)</i>	Extraction of phosphorus from sewage sludge ash by CO ₂ blowing method
18.40 – 19.00	Closing remarks, Awarding Ceremony (Best Student’s Poster), 3rd block extension Lobby	
18.50 – 19.30	Reception (Fourchette). 3rd block extension Lobby	

DAY III, AUGUST 10, 2018	
Sightseeing	9.00 – 17.00

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