

***IVENTORY
OF
ARTICLES***



8th

ABA

BRNO 2007

Advanced Batteries and Accumulators

INTERNATIONAL CONFERENCE

June 3th - June 7th 2007

Nanosized or layered materials

No.	Sec. No.	Authors	Title	Spoke	Status
1	1	<u>R.Apostolova</u> ¹ , E.Shembel ^{1, 2}	ELECTROLYTIC NANOSIZED COBALT SULFIDES FOR LITHIUM BATTERIES	2	OK
2	2	<u>M. Khristov</u> , E. Grigorova, M. Khrussanova, P. Peshev	Absorption-Desorption Characteristics of Mechanically Activated Composites of 90 wt.% Mg(MgH ₂) - 10 wt.% V 0.855 Ti 0.095 Fe 0.05	2	OK
3	3	V. Ďurman, <u>V. Šály</u> , J. Packa, E. E. Horopanitis, G. Perentzis and L. Papadimitriou	Electrical behaviour of LiCoO ₂ /LiNbO ₃ thin film structure	2	OK
4	4	<u>Reháková M.</u> , Casciola M., <u>Čuvanová S.</u> , Šály V., Nagyová S., Fortunová L., Packa J.	Nanosized composites of synthetic zeolites and AgI as potentially electrochemically active materials	2	OK
5	5	<u>M. Zabloudil</u> , J. Makovička, M. Sedlaříková , J. Vondrák	MULTIWALL CARBON NANOTUBES AS NEGATIVE ELECTRODE FOR LI-ION BATTERIES	2	OK
6	6	<u>A. Cheriet</u>	INVESTIGATION OF INTERCALATION PROCESS IN LITHIUM DIFFUSED NANOPOROUS SiC SAMPLES	2	only abstract
7	7	<u>Chelyadyn V.L.</u> , Kovalenko O.S, Myronyuk I.F., Ilyin V.G.	Features of Lithium Insertion in Nanoporous TiO ₂ Prepared by Template Synthesis	2	OK
8	8	<u>B.Banov</u>	Electrochemical investigations of nano-sized magnetite deposited on carbon matrix in nonaqueous electrolyte	2	OK
9	9	<u>B. Banov</u> ¹ , I. Gocheva ^{2*} , N. Velinova ¹	Particle size dependence of electrochemical efficiency of lithiated manganese oxides	2	OK

Spoke: 1 – Spoken
 2 – Poster

Solid and polymeric conductors

No.	Sec. No.	Authors	Title	Spoke	Status
10	1	<u>Jiri Vondrak</u> , Marie Sedlarikova, Ondrej Krejza, Jana Velicka	Progress in research of aprotic gel polymer electrolytes in Czechia	1	OK
11	2	Bożena Chielewska-Bojarska, Sławomir Domagała, <u>Paweł Krzyczmonik</u>	Electrochemical preparation of conductive polymers based on aniline, o-toluidine and anthranilic acid by using low potential.	2	OK
12	3	<u>Jakub Reiter</u> , Jiří Michálek, Jiří Vondrák	1-methylimidazole based ionic liquids embedded in polymer electrolytes	2	OK
13	4	<u>Jakub Reiter</u> , Jana Velická, Martin Míka	Proton conductive polymer gel electrolytes based on methacrylates	2	OK
14	5	Ondřej Krejza, <u>Jakub Reiter</u> , Jiří Vondrák	Methacrylate-based polymer electrolytes for electrochromic devices and lithium-ion batteries	1	OK

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 2 – Poster

Intercalation materials

No.	Sec. No.	Authors	Title	Spoke	Status
15	1	<u>Globa N.I.</u> , Sirenko V.I., Prisyazhnyi V.D, Potapenko A.V.	Cathodes materials for Lithium-ion batteries with high- rate discharge	2	OK
16	2	<u>Makovička J.</u> , Sedlaříková M., Vondrák J.,	GRAPHITE ELECTRODE FOR LI-ION BATTERIES	2	OK
17	3	V.V.Mukhin, <u>S.A.Rezov</u> , O.Yu.Grigoriev a, T.L.Kulova, A.M.Skundin	Effect of doping on stability of lithiated cobalt oxide	2	OK
18	4	<u>Elitza Shinova</u> , Radostina Stoyanova, Ekaterina Zhecheva, Gregorio Ortiz, Pedro Lavela, José L. Tirado	Effect of the Cationic Distribution on the Electrochemical Performance of LiCo _{1/3} Ni _{1/3} Mn _{1/3} O ₂ Electrodes for Lithium Ion Batteries	2	OK
19	5	<u>Meglana Yoncheva</u> , Radostina Stoyanova, Ekaterina Zhecheva, Ricardo Alcántara, Gregorio Ortiz, and Jose Luis Tirado	Structural Characterization and Intercalation Properties of Lithium-Nickel-Manganese Oxides Obtained under High-Pressure	2	OK
20	6	<u>Ek. Popova</u> , Y. Dimitriev	Synthesis of new amorphous material in the modeling system of SnO-BaO-P2O5	2	OK.
21	7	<u>Svetlana Ivanova</u> , Ekaterina Zhecheva, Radostina Stoyanova	Manganese-based Composite Electrode Materials for Lithium-ion Batteries	2	OK
22	8	<u>M. Sysel</u> , J. Makovička, M. Sedlaříková, J. Vondrák	NANOTUBES AS ADMIXTURE FOR POSITIVE ELECTRODE IN LI-ION BATTERIES	2	OK
23	9	<u>B. Banov</u> ¹ , I. Gocheva ^{2*} , N. Velinova ¹ , H. Vasilchina ¹	Substituted manganese spnls – stable and efficient cathode materials	2	OK
24	10	<u>Špičák p</u> , Svoboda V	MnO ₂ studied by EQCM	1	OK
25	11	E.M. Shembel, I.M. Maksyuta, A.V. Nosenko, <u>A.V. Tron</u>	LiMn ₂ O ₄ THERMAL STABILITY IN THE PRODUCTION PROCESS OF LITHIUM-ION BATTERY WITH SOLID ELECTROLYTE	2	OK
26	12	<u>T. Jiráček</u> , J. Vondrák, M. Sedlaříková	Manganese and nickel additives for electrode materials of lithium-ion batteries	1	OK
27	13	<u>Michal Macalík</u> ¹ , Jiří Vondrák ² , Marie Sedlaříková ¹ , Jitka Mohleníková ³	INFLUENCE OF SnO ₂ SUBSTRATE TYPE ON WO ₃ ELECTROCHEMICAL PROPERTIES	2	OK

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2 – Poster

Fuel cells

No.	Sec. No.	Authors	Title	Spoke	Status
28	1	<u>M.O.Danilov</u> , G.Ya.Kolbasov, A.V.Melezhyk	ELECTROCATALYTIC PROPERTIES OF NANOSTRUCTURED COMPOSITIONS FOR ALKALINE FUEL CELLS	1	OK
29	2	<u>Sonya Ivanova</u> , Ekaterina Zhecheva, Radostina Stoyanova	0.25) perovskite-type oxides for SOFC $s \leq y \leq$ Citrate Precursor Method for the Preparation of $\text{LaNi}_y\text{Co}_{1-y}\text{O}_3$ (0	2	OK
30	3	<u>Yoshio Takasu</u> , Norihiro Yoshinaga, Wataru Sugimoto	New Active Oxide Electrocatalysts for Oxygen Reduction	1	OK
31	4	V. Novák, <u>S. Brudná</u> , J. Vognar ¹ , P. Barath, J. Vondrák, M. Sedlaříková, J. Kazelle	Catalysts for positive electrode of fuel cells	2	OK
32	5	<u>Vognar J.</u> , Brudná S., Novák V., Vondrák J., Sedlaříková M.	Kinetic properties of MnO ₂ based positive electrode with different dopants	2	OK
33	6	<u>M. Mika</u> ¹ , B. Klapste ² , J. Michal ¹ , J. Vondrak ²	Phosphosilicate membranes for a medium temperature H ₂ /O ₂ fuel cell	1	OK
34	7	<u>Barath, P.</u> , Sedlarikova, M., Vondrak, J., Chatenet, M., Roche, I.	HOR NiO _x as electrocatalysts for H ₂ -O ₂ Fuel Cells	1	OK

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 2 – Poster

Special electrochemical components

No.	Sec. No.	Authors	Title	Spoke	Status
35	1	<u>L.Skatkov</u> , V.Gomozov, I.Roy, I.Stepanova	Change in structure of niobium pentoxide anodic oxide films during cathode electrochemical polarization	2	OK
36	2	E.Sevidova, <u>I.Stepanova</u> , I.Roy	Anodizing of titanium and its alloys in ortho phosphate electrolytes for the preparation of bio inert materials	2	OK
37	3	<u>Arnaldo Visintin</u>	ELECTROCHEMICAL HYDROGEN STORAGE	1	OK
38	4	<u>Zbynek Studeny</u> , Emil Svoboda	Some classification methods of bio-compatible coating	2	OK
39	5	Pawel Krzyczmonik, <u>Slawomir Domagala</u> , Henryk Scholl, Jozef Dziegiec	MEDIATORY ACTIVITY OF 5,10,15,20-TETRAKIS(PENTAFLUOROPHENYL) PORPHYRINIRON(III) IMMOBILIZED IN NAFION FILM ON PLATINUM IN ELECTROOXIDATION OF CATECHOLS	2	OK
40	6	<u>Sirenko V.I.</u> , Potapenko A.V.	Solutions of LiSO ₃ C ₆ H ₅ in dimethylsulfoxide as electrolyte for Lithium-ion batteries	2	OK
41	7	<u>Georgeta TARALUNGA</u> , Eleonora Maria RUS, Delia Maria CONSTANTIN, Alexandru RUS, Ioana Maria CONSTANTIN	BATTERY WITH RbAg ₄ I ₅ SOLID ELECTROLYTE FOR CARDIAC PACEMAKER	2	OK
42	8	E.E. Horopanitis, G. Perentzis, P. Karagiannidis and <u>L. Papadimitriou</u>	ELECTRICAL PROPERTIES OF "Li-DOPED" LiNbO ₃ IONIC CONDUCTORS AND "LITHIUM-FREE" LiNbO ₃ -ELECTROLYTE/Cu-ANODE BI-LAYERS	2	OK

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Accumulators

No.	Sec. No.	Authors	Title	Spoke	Status
43	1	<u>Petr Křivák</u> , Petr Bača	Automatized measurement of contact resistance and active mass resistance	1	OK
44	2	<u>Kotok V. A.1</u> , Koshel N. D.1, Kovalenko V. L.1, Malishev V.V.1* <u>Kotok V. A.1</u>	Nickel hydroxide ageing in different medias and its influence on electrochemical behavior in composition nickel electrode	2	OK
45	3	<u>Kholin Yu.Yu.</u> , Lapin A.S., Pesetsky V.I., * Dmitrienko V.P.	Complex regenerative processing of alkaline batteries	2	OK
46	4	<u>Eleonora Maria RUS</u> , Delia Maria CONSTANTIN, Georgeta TARALUNGA, Al.RUS	ON THE BEHAVIOUR OF BASIC LEAD SULFATE IN SULFURIC ACID SOLUTION	2	OK
47	5	<u>Delia Maria CONSTANTIN</u> , Eleonora Maria RUS, Georgeta TARALUNGA, Alexandru RUS, Ioana Maria CONSTANTIN	NICKEL ELECTRODES CONTAINING COBALT AND CADMIUM ADDITIVES	2	OK
48	6	<u>Andrea Fedorková</u> , Hans-Dieter Wiemhöfer, Renáta Oriňáková, Andrej Oriňák	Preparation of polypyrrole-FePO ₄ powder as positive electrode material for lithium-ion batteries	1	OK
49	7	<u>P. Bača</u> , P. Křivák, M. Calábek, K. Micka	Influence of additives in negative lead-acid battery electrodes	2	OK
50	8	<u>R. Bilko</u>	The Life time of lead-acid batteries depends on type of conductive and nonconducting additives	2	OK
51	9	<u>Jiří Vrbický</u> , Jiří Vondrák, Marie Sedlaříková	ALPHA NICKEL HYDROXIDE STABILITY IN DEPENDENCE ON ELECTROLYTE CONCENTRATION	2	OK
52	10	<u>Lábus Radek</u>	SYSTEM FOR RESEARCH LABORATORY CELLS IN PSOC REGIME	2	OK
53	11	<u>C.M. Julien</u> ¹ , A. Mauger ² , K. Zaghib ³ , F. Gendron ¹	OPTIMIZATION OF OLIVINE MATERIALS AS POSITIVE ELECTRODE IN LI-ION BATTERIES FOR HEV APPLICATION	1	OK

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 2 – Poster

Methods

No.	Sec. No.	Authors	Title	Spoke	Status
54	1	<u>Marian Chatenet</u> , Elodie Guilminot, Audrey Corcella, Frédéric Maillard	Using the ultramicroelectrode with cavity (UMEC) as a tool to characterize carbon-supported platinum for proton exchange membrane fuel cell applications	1	OK
55	2	<u>Petr Vanýsek</u> and Philippe Gauthier	Disposable graphite electrode for studies of catalytic layers of platinum	1	OK
56	3	<u>Vaněk J.</u> , Kubičková K, Fořt T.	Solar cell back side contact projection to the front side LBIC image	2	OK
57	4	<u>Kristýna Kubičková</u> , Jiří Vaněk, Radim Bařinka	Electroluminescence imaging of monocrystalline silicon solar cells	2	OK
58	5	<u>Tomáš Nováček</u> , Karel Bartůšek, Sedlařiková Marie, Mikotová Eva	APPLICATION NMR IN NaClO ₄ GEL STUDY	2	OK
59	6	<u>Pavel Janderka</u> ¹ , Radka Chaloupková ²	Use of mass spectrometer for solid sample analysis	2	OK
60	7	<u>Libuše Trnková</u> , Pavel Janderka, Natálie Musilová, Andrea Marcinková, Radka Mikelová	Examples of applications of elimination voltammetry with linear scan	2	OK

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Market and Applications

No articles