**SYMPOSIUM PROGRAM**

**May 15, 2019**

|  |  |  |
| --- | --- | --- |
| 9.00- 10.00 | **Final registration of participants, posters preparation**  Hall for Academic Senate,building1,floor 4 | |
| 10.00-10.15 | ***Opening ceremony***  Academic Senate,building1,floor 4 | |
| 10.15-11.30 | ***Oral presentations:*** | |
| 10.15-  10.40 | **1.1** | **Metal oxide layers for energy saving and storage**  E. Koudoumas, D. Vernardou  *Department of Electrical and Computer Engineering*  *Hellenic Mediterranean University, Greece* |
| 10.40-11.00 | **1.2** | MоO2/mesoporous carbon and MoO2 / reduced graphene oxide composite electrodes for supercapacitor applications  V. Boichuk , A. Kachmar, V. Kotsyubynsky, Kh. Bandura,  S. Fedorchenko  Vasyl Stefanyk Precarpathian National University,  *Ivano-Frankivsk, Ukraine* |
| 11.00-  11.15 | **5.1** | **Investigation of electrical conductivity and electromagnetic shielding effectiveness of carbon based composites**  O. Butenko, V. Khomenko, V. Barsukov  *Kyiv National University of Technologies and Design,* *Kyiv, Ukraine* |
| 11.15-  11.30 | **3.7** | Agricultural by-product extracts as scale inhibitors of mild steel in tap water  G.Vasyliev, V. Vorobyova, T. Zhuk, O. Kalinchuk  *National technical university of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, Kyiv, Ukrainе* |
| 11.30-  11.45 | General Photography. | |
| 11.45- 13.00 | **Poster Session** (in parallel with Coffee break) | |
| 13.00-14.30 | Lunch break | |
| 14.30-16.00 | Ceremony of Awarding for the Symposium & Student Olympiad. Closing Ceremony.  Hall for Academic Senate,building1,floor 4 | |

**Poster Session:**

|  |  |
| --- | --- |
| Section 1. **Electrochemical power sources** | |
| **1.3** | **Alternative binders for electrodes of electrochemical capacitors -the transition to aqueous and alcohol based solvent electrode processing.**  O. Chernysh, V. Khomenko, I. Makyeyeva, V. Barsukov |
| **1.4** | A polymer sulfur-based electrode for high energy Li batteries. Influence of the materials of current collector and electrode design on the performance of Lithium-Sulfur batteries  Yu. Polishchuk, E. Shembel, Andrea Strakova Fedorkovac,  A. Markevich,V. Redko, I. Lysytsya |
| **1.5** | Nickel-copper metal hydroxide multilayer coating as anode material for ethanol oxidation.  A.Maiselis |
| **1.6** | **Direct changing of structural, morphological and Electrochemical Properties of the Sulfur- doped nano TiO2**  N. Romanovska, P. Manoryk, P. Yaremov, O. Byeda, K. Pershina,  K. Кazdobin |
| **1.7** | **Electrocatalitical production of the hydrogen from urea-water solutions**  O. Kordysh, K. Pershina |
| **1.8** | **EFFECT OF CARBON MATERIALS ON THE**  **ELECTROTECHNICAL CHARACTERISTICS OF**  **STARTER LEAD ACID ACCUMULATORS**  V. Nefedov, I. Vashnevsky, N. Posadna, Yu. Polishchuk |
| **1.9** | **Photoelectrochemical properties of anodic Cu-WO3 nanostructured materials**  M. Zych, K. Syrek, G. D. Sulka |
| **1.10** | **gold electrodes modified with polyelectrolyte for bioelectrochemical applications**  J. Grudzień, M. Jarosz, G. Sulka |
| Section 2. **Electrodeposition** | |
| **2.1** | **Synthesis of Ni nanowires by electrodeposition from deep eutectic solvent**  R. Palowska, J. Bogusz, L. Zaraska, A. Brzózka, G.D. Sulka |
| **2.2** | Composition, topography and electrocatalytic properties of Ni-TiO2 composite coatings  N. Novytska, Ie. Zaverach |
| **2.3** | **Study of electrocatalytic activity of the vanadium-containing materials for the hydrogen evolution reaction**  B. Bairachniy, Yu. Zhelavska, O. Smirnova, A. Pilipenko, O. Finohenov |
| **2.4** | **ELECTROCHEMICAL DEPOSITION of Co-Mo-W And  Co-Mo-Zr COATINGS FROM COMPLEX ELECTROLYTES**  T. Nenastina, M. Ved’, V. Proskurina, S. Zyubanova |
| **2.5** | **Electrochemical synthesis of nanostructured zinc oxide layers**  K. Mika, R.Socha, P. Nyga, G.Sulka, L. Zaraska |
| **2.6** | **Structural and phase analysis of composites based on TiO2**  V.Shtefan, N. Kanunnikova, A. Yepifanova, O.Kobziev |
| Section 3. **Corrosion protection** | |
| **3.1** | Improving mild steel corrosion resistance in tap water: influence of water flow and supply rates  G. Vasyliev, O. Chyhryn |
| **3.2** | Inhibition efficiency of apricot pomace extract as a “green” corrosion inhibitor  V. Vorobyova, M. Skiba, O. Chygyrynets’, T. Pylypenko, T. Motronyuk |
| **3.3** | Corrosion and mechanical properties of nanostructure electrolytic Co-W and Fe-Co-W alloys  M. Ved’, N. Sakhnenko, T. Nenastina, M. Volobuyev, I. Yermolenko |
| **3.4** | Investigating of the Mechanism of Stress Corrosion Cracking of Controllable Rolling Pipe Steel Х70 In Near-Neutral Environment  L. Nyrkova, S. Melnichuk, S Osadchuk, P. Lisovyi, S. Prokopchuk |
| **3.5** | Influence of phase composition of Zn-Ni film on the corrosion resistance of zinc coating  V. Artemenko, A. Maizelis |
| **3.6** | **Corrosion Resistance of Welding Joint of Aluminum Alloy of the system Al-Mg-Cu-Si**  L. Nyrkova, T. Labur, S. Osadchuk, S. Melnichuk, M.Yavorska, Yu. Borysenko |
| **3.8** | [**PARTICULAR**](https://www.multitran.ru/c/m.exe?t=1018435_1_2&s1=%EE%F1%EE%E1%E5%ED%ED%EE%F1%F2%FC)**ITIES OF CATHODIC AND ANODIC PROCESSES ON CARBON STEEL DEPENDING ON THE DEPTH OF IMMERSION IN A NEUTRAL SOLUTION**  S. Оsadchuk, L. Nyrkova, Yu. Fateev |
| **3.9** | **APPLICATION OF POLARIZATION resistance method FOR THE CORROSION MONITORING of ALUMINUM ALLOYS**  O. Buket, N. Bilousova, N. Chornobryva, A. Kushmyruk |
| Section 4. **Electrochemical sensors** | |
| **4.1** | **Substituted Benzoic Acid Amides as the modifiers of the Ethanol Bioelectrooxidation Using NAD+- dependent Alcohol Dehydrogenase**  O. Kyslova, A. Monko |
| **4.2** | **Properties and Sensing Behavior of RuO2/Ti and TiO2 /Ti Films**  K. Pershina, O. Linyucheva |
| **4.3** | **Langmuir-Blodgett technology as a tool for wiring the electrochemical sensor for glucose**  A. Bespaluk, K. Prachova, K. Pershina |
| **4.4** | **Synthesis of nanostructured anodic TiO2 impregnated with Co, Cu, Fe ions**  M. Soltys |
| Section 5. **Modern electrochemical and related**  **technologies** | |
| **5.2** | The investigation of 10Sc1CeSZ structure transformation and ionic conductivity  I. Brodnikovska, N. Korsunska, L. Khomenkova, Yu. Polishchuk, M. Brychevskyi, Y. Brodnikovskyi, D. Brodnikovskyi, I. Polishko, O. Vasylyev |
| **5.3** | **Nanostructured PEO-coatings on silumin as environmental catalysts**  A. Karakurkchi, M. Sakhnenko, M. Ved’, A. Gorokhyvskiy |
| **5.4** | Synthesis of silver nanoparticles in a plasma electrochemical system for degradation of environmental pollutants  M. Skiba, V. Vorobyova |
| **5.5** | **Organic-inorganic ion exchange materials for electromembrane processing of liquid wastes produced by dairy industry**  Yu. Dzyazko, Yu. Borysenko, Yu. G. Zmievskii, V.V. Zakharov,  V.G. Myronchuk |
| **5.6** | **Polymer-inorganic membranes modified with graphen-containing nanocomposites: electrochemical approaches of structure investigations**  Yu. Dzyazko, L. Rozhdestvenska, V. Ogenko, A. Bildukevich, T. Plisko,  Yu. Borysenko, Yu. Zmievskii |
| **5.7** | **The Influence of Butanol on the Brass Surface Morphology During the Electrochemical Treatment in Phosphoric Acid Solutions**  D. Silchenk, A. Pilipenko, **O. Smirnova, Yu. Zhelavska, V. Babenko** |
| **5.8** | Anode Material for Oxidation of Organic Acids  Kosohin O., Mazanka V. |
| **5.9** | Electrochemical polishing of silver in acid thiourea-citrate solutions  O. Smirnova, A. Pilipenko, Yu. Zhelavska, B. Osypa, M. Ivashchenko |
| **5.10** | Hydrated Antimonic Acid as a Solid Electrolyte  O. Kosohin, O. Matvieiev, O. Linyucheva |
| **5.11** | **Protective properties of diffused chrome-calorizing coatings with** **TiN and Ti2AlN** **barrier layers on VT6 alloy**  T. Loskutova, I. Pogrebova, V. Khyzhnyak, I. Smokovich,N. Nikitina |
| **5.12** | **Nanostructured polyfunctional tin-based electrocatalyst**  D. Ushchapovskyi, O. Linyucheva, T. Motronyuk, V. Klus, R. Redko, G. Podvashetsky, A. Zabaluev, O. Aksenova |
| **5.13** | **Effect of the colloidal graphite filler on the properties of electroconductive polyethylene compositions**  D. Novak, Y. Budash, V. Plavan, E. Kucherenko |
| **5.14** | **HIGH-EFFICIENT ANODIC TREATMENT OF STAINLESS STEEL AISI 304 FOR MEDICAL PURPOSE IN DEEP EUTECTIC SOLVENT ETHALINE**  A. Kityk, N. Bannik, O. Kyn |
| **5.15** | **Electrochemical dissolution of pseudo alloys of tungsten carbide type in acid electrolytes**  M. Оsмanоvа, L. Lyashok, S. Leshchenko, E. Isмаhilоvа, I. Kolupaev |
| **5.16** | **FEATURES OF FORMATION OF POROUS ALUMINUM OXIDE**  L. Liashok, H. Shevchenko, S. Leshchenko, O. Brovin |
| **5.17** | **ANODIC OXIDATION OF CUPPER-ZINC ALLOY**  V. Datsenko,E. Khobotova,V. Larin |
| **5.18** | **COMBINED CATHODE PROCESSES IN THE ELECTROCHEMICAL SYNTHESIS OF SODIUM HYPOCHLORITE**  K. Rutkovska, G. Tulskyi , I. Chahine, A.Tulska |
| **5.19** | **TERNARY Fe-Co-Mo ALLOYS AS CATALYTIC MATERIALS**  **IN OXIDATIONS REACTIONS OF LOW MOLECULAR WEIGHT ALCOHOLS**  Yu. Sachanova, N. Sakhnenko, M.Ved’, I.Yermolenko, M.Volobuyev |
| **5.20** | **Comparable investigation of "shielding paints" for shadowing electromagnetic radiation**  K. Buhaiova, O. Butenko, V. Tverdokhlib, V. Barsukov |
| **5.21** | **The influence of the graphite powder particle size on electrical conductivity of carbon-polymer composites**  O. Budko, O. O. Butenko, V. Tverdokhlib, V. Khomenko |
| **5.22** | **STUDY OF PHYSICAL AND CHEMICAL PROPERTIES OF POROUS NIOBIUM OXIDE**  L. Lyashok , S. Vodolazhchenko, , S. Deribo, V. Gomozov |