

Titlu proiect: Interactional and functional effects of the substrate on the electrochemical behavior of micro- and nanostructured metallic and oxidic deposits / Efecte interactionale si functionale ale substratului asupra comportarii electrochimice a depunerilor metalice si oxidice micro si nanostructurate.

Categoria de proiect: PN-II-ID-PCE-2011-3-0272

Contractul de finanțare: 41/ 05. 10. 2011

Manager proiect: Dr. Nicolae Spătaru

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE ISI				
1	T. Spătaru, P. Osiceanu, M. Marcu, C. Lete, C. Munteanu, N. Spătaru	Functional effects of the deposition substrate on the electrochemical behavior of platinum particles	Japanese Journal of Applied Physics, 51 090119	2012
2	T. Spătaru, P. Osiceanu, C. Munteanu, N. Spătaru, A. Fujishima	Electrochemical preparation and characterization of a cobalt oxide – platinum composite with promising capacitive and electrocatalytic features	Journal of Solid State Electrochemistry, 16, 3897-3905	2012
3	T. Spătaru, M. Anastasescu, N. Spătaru, A. Fujishima	Influence of cobalt oxide substrate on the resistance to fouling during methanol oxidation of platinum particles	Electrochemistry Communications, 29, 1-3	2013
4	T. Spătaru, M. Marcu, N. Spătaru	Electrocatalytic and photocatalytic activity of Pt – TiO ₂ films on boron-doped diamond substrate	Applied Surface Science, 269, 171-174	2013
5	T. Spătaru, L. Preda, P. Osiceanu, C. Munteanu, M. Anastasescu, M. Marcu, N. Spătaru	Role of surfactant-mediated electrodeposited titanium oxide substrate in improving electrocatalytic features of supported platinum particles	Applied Surface Science, 288, 660-665	2014
6	T. Spătaru, M. Anastasescu, N. Spătaru, A. Fujishima	Influence of electroformation regime on the specific properties of cobalt oxide platinum composite films deposited on conductive diamond	Thin Solid Films, 556, 81-86	2014
7	T. Spătaru, P. Osiceanu, M. Anastasescu, G. Pătrinoiu, C. Munteanu, N. Spătaru, A. Fujishima	Effect of the chemical termination of conductive diamond substrate on the resistance to carbon monoxide-poisoning during methanol oxidation of platinum particles	Journal of Power Sources, 261, 86-92	2014
8	T. Spătaru, L. Preda, C. Munteanu, A.I. Căciuleanu, N. Spătaru, A. Fujishima	Influence of boron-doped diamond surface termination on the characteristics of titanium	Journal of The Electrochemical Society, 162, H535-H540	2015

		dioxide anodically deposited in the presence of a surfactan		
9	T. Spătaru, L. Preda, P. Osiceanu, C. Munteanu, M. Marcu, C. Lete, N. Spătaru, A. Fujishima	Electrochemical deposition of Pt-RuOx nH ₂ O composites on conductive diamond and its application to methanol oxidation in acidic media	Electrocatalysis, 7 (2016) 140-148	2016
10	A.I. Căciuleanu, T. Spătaru, L. Preda, M. Anastasescu, P. Osiceanu, C. Munteanu, R.D. Bărbăoiu, A.A. Iovescu, N. Spătaru	Platinum-carbon electrocatalytic composites via liposome-directed electrodeposition at conductive diamond	International Journal of Hydrogen Energy, 41, 22529-22537	2016
11	T. Spătaru, T. Kondo, C. Anastasescu, I. Balint, P. Osiceanu, C. Munteanu, N. Spătaru, A. Fujishima	Silica veils-conductive diamond powder composite as a new propitious substrate for platinum electrocatalysts	Journal of Solid State Electrochemistry, 21, 1007-1014	2017
n				
1	ARTICOLE ALTE BAZE DE DATE			
n				
1				
n				
1	CARTI			
n				
1				
n				
1	COMUNICARI STIINTIFICE NATIONALE			
n				
1				
n				
1	COMUNICARI STIINTIFICE INTERNATIONALE			
1	M. Marcu, T. Spătaru, N. Spătaru, A. Banu	Anodic oxidation of ethanol on Pt/TiO ₂ /C – influence of the substrate on electrocatalytic activity	Third Regional Symposium on Electrochemistry South-East Europe 13-17 mai 2012 Bucharest, Romania	2012
2	C. Lete, F. Teodorescu, N. Spătaru, T. Spătaru, M. Marin	Determination of dopamine and ascorbic acid with boron-doped diamond electrodes	Third Regional Symposium on Electrochemistry South-East Europe 13-17 mai 2012 Bucharest, Romania	2012
3	M. Marcu, T. Spătaru, N. Spătaru	BDD electrode pre-treatments effect on the catalytic activity of Pt/TiO ₂ /BDD electrocatalyst for methanol anodic oxidation	International Conference on Diamond and Carbon Materials, 3-6 sept. 2012, Granada, Spain	2012
4	T. Spătaru, M. Marcu, N. Spătaru	Electrocatalytic and photocatalytic activity of Pt-TiO ₂ film on boron doped diamond substrate	SURFINT-SREN III - Progress in Applied Surface Science, Interface and Thin Films Science Conference, Florence, Italy 14 -18 mai 2012	2012
5	T. Spătaru, M. Marcu, P. Osiceanu, C. Munteanu, N. Spătaru	Effect of the substrate on the electrochemical performances for methanol oxidation of Pt particles	63rd Annual Meeting of the International Society of Electrochemistry, Prague, 19-24 August 2012	2012
6	N. Spătaru, P. Osiceanu, M.	Electrodeposition of Co ₃ O ₄	63rd Annual Meeting of	2012

	Marcu, C. Munteanu, T. Spătaru	— platinum composites at conductive diamond films for electrochemical capacitors	the International Society of Electrochemistry, Prague, 19-24 August 2012	
7	T. Spătaru, M. Marcu, C. Munteanu, N. Spătaru	Improved activity for methanol oxidation of TiO ₂ — Pt composites electrodeposited on conductive diamond	2nd International Conference on Materials for Energy EnMat II, Karlsruhe, Germany, 12-16 May 2013	2013
8	N. Spătaru, P. Osiceanu, M. Anastasescu, T. Spătaru	Electrochemically prepared Co ₃ O ₄ — Pt hybrid systems with improved resistance to CO poisoning	2nd International Conference on Materials for Energy EnMat II, Karlsruhe, Germany, 12-16 May 2013	2013
9	T. Spătaru, L. Preda, M. Anastasescu, M. Marcu, C. Munteanu, A.I. Căciuleanu, N. Spătaru	Structure-directing effect of an anionic surfactant on the morphological and electrochemical features of electrodeposited Pt-TiO ₂ composites	The 15th International Conference of Physical Chemistry, ROMPHYSICHEM15, Bucharest, Romania, September 11-13, 2013	2013
10	C. Munteanu, T. Spătaru, L. Preda, P. Osiceanu, N. Spătaru	Morphological features of platinum incorporated three dimensionally in electrodeposited Co ₃ O ₄ coatings	The 15th International Conference of Physical Chemistry, ROMPHYSICHEM15, Bucharest, Romania, September 11-13, 2013	2013
11	T. Spătaru, L. Preda, M. Marcu, P. Osiceanu, C. Munteanu, N. Spătaru	Morphological and electrochemical features of a new Pt-TiO ₂ composite obtained by surfactant-mediated electrodeposition	International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT 2013), Granada, Spain, September 22-25, 2013	2013
12	N. Spătaru, M. Marcu, P. Osiceanu, C. Munteanu, T. Spătaru	Electrodeposition of Co ₃ O ₄ — Pt composites with tailor-made electrochemical features	International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT 2013), Granada, Spain, September 22-25, 2013	2013
13	N. Spătaru, P. Osiceanu, T. Spătaru, A. Fujishima	Effect of chemical termination of BDD substrate on the resistance to fouling during methanol oxidation of platinum particles	International Symposium on Diamond Electrochemistry, Keio University, Yokohama, Japan, March 18-19, 2014	2014
14	T. Spătaru, L. Preda, A.I. Căciuleanu, N. Spătaru	Effect of Hydrophobic Interaction between Boron-doped Diamond and Anionic Surfactants on the Charge Transfer Efficiency	65th Annual Meeting of the International Society of Electrochemistry, Lausanne, Switzerland, 31 August-5 September, 2014	2014
15	N. Spătaru, P. Osiceanu, C. Munteanu, M. Anastasescu, T. Spătaru	Effect of Oxygenated Platinum and Carbon Species on the Electrocatalytic Activity of Pt Particles	65th Annual Meeting of the International Society of Electrochemistry, Lausanne, Switzerland, 31 August-5 September, 2014	2014
16	A.I. Căciuleanu, T. Spătaru, D.C. Culiță, N. Spătaru	Liposome Directed Platinum Electrodeposition	7th International Conference on Materials Science and Condensed Matter Physics, Chisinau, Rep. Moldova, 16-19 September, 2014	2014
17	A.I. Căciuleanu, T. Spătaru, N. Spătaru	Effect of Electrolyte-Electrode Interaction on the Distribution of Pt	8th International Conference on Advanced Materials, (ROCAM	2015

		Nanoparticles Deposits Obtained via a Liposomal Template	2015), Bucharest, Romania, 7-10 July, 2015	
18	T.Spătaru, L. Preda, C. Lete, P. Osiceanu, A.I. Căciuleanu, N. Spătaru	Effect of Hydrous Ruthenium Oxide Modification of Conductive Diamond Substrate on the Electrocatalytic Performances of Supported Pt Particles	31st European Conference on Surface Science, (ECOSS-31), Barcelona, Spain, 31 August-4 September, 2015	2015
19	N. Spătaru, P. Osiceanu, M. Radu, T.Spătaru, M. Marcu, C. Lete	Influence of Conductive Diamond Surface Termination on the Morphological and Electrocatalytic Features of Supported Platinum-Oxide Composites	10th International Frumkin Symposium on Electrochemistry, Moscow, Russian Federation, 20-23 October, 2015	2015
20	N. Spătaru, C. Anastasescu, T.Spătaru, P. Osiceanu, C. Munteanu	Conductive Diamond Powder-SiO ₂ Nanotubes Composite, A Promising Platinum Support for Methanol Fuel Cell Applications	International Conference on Structural Nano Composites (NANOSTRUC 2016), Aberdeen, United Kingdom, 12-15 September, 2016	2016
21	M. Marcu, A. Banu, D. Portan, S. Petrescu	Interactional Effect of The Titanium Substrate on Photo-Electrochemical Behavior of TiO ₂ Nanotubes	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
22	T. Spătaru, L. Preda, C. Munteanu, M. Marin, N. Spătaru	Role of Iridium Oxide in The Reactivation of Platinum Nanoparticles Electrodeposited at BDD Powder	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
23	N. Spătaru, P. Osiceanu, M. Marcu, C. Munteanu, T.Spătaru, L. Preda	Improvement of Supported Platinum Particles Resistance to Fouling by Appropriate Selection of The Substrate	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
24	A. Toader, T. Spătaru, N.Spătaru, F. Cîmpoescu	Electron Structure Effects in Boron Doped Diamond	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
	ATLASE, DICTIONARE DE SPECIALITATE			
1				
n				
	CERERI BREVET DE INVENTII/BREVET OBTINUT			
		ALTE rezultate		
1				
n				

**Lista achizițiilor realizate în cadrul proiectului
Anul 2011**

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Sistem PC Intel Core 15-650	Imobilizari corporale	3178,89	ICF
Sursa de tensiune Keithley 2425 plus test lead kit 1754 si test lead set 5804	Imobilizari corporale	39601,88	ICF
Monitor Samsung Led S22A300N	Imobilizari corporale	725,83	ICF
Laptop Sony Vaio Intel Core TM 2310 M	Imobilizari corporale	3999,00	
Etuva cu convecție forțată FD53	Imobilizari corporale	6481,98	ICF
Microsoft Office Pro 2010 English PKC	Imobilizari necorporale	2242,82	ICF

Anul 2012

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Echipament de masuratori electrochimice tip Potentiostat/Galvanostat	Imobilizari corporale	156860,00	ICF
KUSB – 488B IEEE-488 Interface Unit, 880 Kbytes/s, USB interface	Imobilizari corporale	3078,91	ICF
HDD extern Western Digital , 500GB	Imobilizari corporale	389,99	ICF
HDD extern Western Digital , 1TB	Imobilizari corporale	429,99	ICF
Ultrabook Samsung NP900X3A-Bo1RO cu processor Intel Core, 4 GB	Imobilizari corporale	4999,99	ICF

Anul 2013

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Sistem Desktop SeriouX Evolution V3 cu procesor Intel CoreTM i3 3220 3.30 GHz, 4 GB, DDR3 1333 MHz, HDD 500 GB	Imobilizari corporale	1.399,99	ICF
Microsoft Windows 7 Home Premium 64 bit English OEM SP1	Imobilizari necorporale	459,99	ICF

Anul 2014

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
—	—	—	—

Anul 2015

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Cuptor cu camera, LE 1/11 cu controler R6 temperatura	Imobilizari corporale	6.340,28	ICF

Anul 2016

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Baie termostata cu recirculare	Imobilizari corporale	10.896,00	ICF
Baie de ultrasonare cu capac si cos din inox	Imobilizari corporale	4.317,60	ICF
Monitor LED IPS Dell 23.8" Full HD	Imobilizari corporale	799,99	ICF
Sistem Desktop PC Dell OptiPlex 30,\$ MT cu procesor Intelo Corew i5'5500 3.20Gha Skylake", 8GB, 1TB, DVD-RW, lnteo HD GraPhics, Microsoft Windows 7 ProlMicrosoft Windows 10 Pro, Mouse + Tastatura, Black	Imobilizari corporale	2.999,99	ICF
Sistem Desktop PC Dell OptiPlex 30,\$ MT cu procesor Intelo Corew i5'5500 3.20Gha Skylake", 8GB, 1TB, DVD-RW, lnteo HD GraPhics, Microsoft Windows 7 ProlMicrosoft Windows 10 Pro, Mouse + Tastatura, Black cu Monitor LED TN Philips 23.6", Full HD, DVI, HDMI Negru. 243V5LHSB/00	Imobilizari corporale	3.449,98	ICF
Pachet DigiSim de simulare CV	Imobilizari necorporale	13.104,00	ICF

**Director proiect,
Dr. Nicolae Spataru**

Titlu proiect: Interactional and functional effects of the substrate on the electrochemical behavior of micro- and nanostructured metallic and oxidic deposits / Efecte interactionale si functionale ale substratului asupra comportarii electrochimice a depunerilor metalice si oxidice micro si nanostructurate.

Categoria de proiect: PN-II-ID-PCE-2011-3-0272

Contractul de finanțare: 41/ 05. 10. 2011

Manager proiect: Dr. Nicolae Spătaru

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE ISI				
1	T. Spătaru, P. Osiceanu, M. Marcu, C. Lete, C. Munteanu, N. Spătaru	Functional effects of the deposition substrate on the electrochemical behavior of platinum particles	Japanese Journal of Applied Physics, 51 090119	2012
2	T. Spătaru, P. Osiceanu, C. Munteanu, N. Spătaru, A. Fujishima	Electrochemical preparation and characterization of a cobalt oxide – platinum composite with promising capacitive and electrocatalytic features	Journal of Solid State Electrochemistry, 16, 3897-3905	2012
3	T. Spătaru, M. Anastasescu, N. Spătaru, A. Fujishima	Influence of cobalt oxide substrate on the resistance to fouling during methanol oxidation of platinum particles	Electrochemistry Communications, 29, 1-3	2013
4	T. Spătaru, M. Marcu, N. Spătaru	Electrocatalytic and photocatalytic activity of Pt – TiO ₂ films on boron-doped diamond substrate	Applied Surface Science, 269, 171-174	2013
5	T. Spătaru, L. Preda, P. Osiceanu, C. Munteanu, M. Anastasescu, M. Marcu, N. Spătaru	Role of surfactant-mediated electrodeposited titanium oxide substrate in improving electrocatalytic features of supported platinum particles	Applied Surface Science, 288, 660-665	2014
6	T. Spătaru, M. Anastasescu, N. Spătaru, A. Fujishima	Influence of electroformation regime on the specific properties of cobalt oxide platinum composite films deposited on conductive diamond	Thin Solid Films, 556, 81-86	2014
7	T. Spătaru, P. Osiceanu, M. Anastasescu, G. Pătrinoiu, C. Munteanu, N. Spătaru, A. Fujishima	Effect of the chemical termination of conductive diamond substrate on the resistance to carbon monoxide-poisoning during methanol oxidation of platinum particles	Journal of Power Sources, 261, 86-92	2014
8	T. Spătaru, L. Preda, C. Munteanu, A.I. Căciuleanu, N. Spătaru, A. Fujishima	Influence of boron-doped diamond surface termination on the characteristics of titanium	Journal of The Electrochemical Society, 162, H535-H540	2015

		dioxide anodically deposited in the presence of a surfactan		
9	T. Spătaru, L. Preda, P. Osiceanu, C. Munteanu, M. Marcu, C. Lete, N. Spătaru, A. Fujishima	Electrochemical deposition of Pt-RuOx nH ₂ O composites on conductive diamond and its application to methanol oxidation in acidic media	Electrocatalysis, 7 (2016) 140-148	2016
10	A.I. Căciuleanu, T. Spătaru, L. Preda, M. Anastasescu, P. Osiceanu, C. Munteanu, R.D. Bărbăoiu, A.A. Iovescu, N. Spătaru	Platinum-carbon electrocatalytic composites via liposome-directed electrodeposition at conductive diamond	International Journal of Hydrogen Energy, 41, 22529-22537	2016
11	T. Spătaru, T. Kondo, C. Anastasescu, I. Balint, P. Osiceanu, C. Munteanu, N. Spătaru, A. Fujishima	Silica veils-conductive diamond powder composite as a new propitious substrate for platinum electrocatalysts	Journal of Solid State Electrochemistry, 21, 1007-1014	2017
n				
1	ARTICOLE ALTE BAZE DE DATE			
n				
1				
n				
1	CARTI			
n				
1				
n				
1	COMUNICARI STIINTIFICE NATIONALE			
n				
1				
n				
1	COMUNICARI STIINTIFICE INTERNATIONALE			
1	M. Marcu, T. Spătaru, N. Spătaru, A. Banu	Anodic oxidation of ethanol on Pt/TiO ₂ /C – influence of the substrate on electrocatalytic activity	Third Regional Symposium on Electrochemistry South-East Europe 13-17 mai 2012 Bucharest, Romania	2012
2	C. Lete, F. Teodorescu, N. Spătaru, T. Spătaru, M. Marin	Determination of dopamine and ascorbic acid with boron-doped diamond electrodes	Third Regional Symposium on Electrochemistry South-East Europe 13-17 mai 2012 Bucharest, Romania	2012
3	M. Marcu, T. Spătaru, N. Spătaru	BDD electrode pre-treatments effect on the catalytic activity of Pt/TiO ₂ /BDD electrocatalyst for methanol anodic oxidation	International Conference on Diamond and Carbon Materials, 3-6 sept. 2012, Granada, Spain	2012
4	T. Spătaru, M. Marcu, N. Spătaru	Electrocatalytic and photocatalytic activity of Pt-TiO ₂ film on boron doped diamond substrate	SURFINT-SREN III - Progress in Applied Surface Science, Interface and Thin Films Science Conference, Florence, Italy 14 -18 mai 2012	2012
5	T. Spătaru, M. Marcu, P. Osiceanu, C. Munteanu, N. Spătaru	Effect of the substrate on the electrochemical performances for methanol oxidation of Pt particles	63rd Annual Meeting of the International Society of Electrochemistry, Prague, 19-24 August 2012	2012
6	N. Spătaru, P. Osiceanu, M.	Electrodeposition of Co ₃ O ₄	63rd Annual Meeting of	2012

	Marcu, C. Munteanu, T. Spătaru	— platinum composites at conductive diamond films for electrochemical capacitors	the International Society of Electrochemistry, Prague, 19-24 August 2012	
7	T. Spătaru, M. Marcu, C. Munteanu, N. Spătaru	Improved activity for methanol oxidation of TiO ₂ — Pt composites electrodeposited on conductive diamond	2nd International Conference on Materials for Energy EnMat II, Karlsruhe, Germany, 12-16 May 2013	2013
8	N. Spătaru, P. Osiceanu, M. Anastasescu, T. Spătaru	Electrochemically prepared Co ₃ O ₄ — Pt hybrid systems with improved resistance to CO poisoning	2nd International Conference on Materials for Energy EnMat II, Karlsruhe, Germany, 12-16 May 2013	2013
9	T. Spătaru, L. Preda, M. Anastasescu, M. Marcu, C. Munteanu, A.I. Căciuleanu, N. Spătaru	Structure-directing effect of an anionic surfactant on the morphological and electrochemical features of electrodeposited Pt-TiO ₂ composites	The 15th International Conference of Physical Chemistry, ROMPHYSICHEM15, Bucharest, Romania, September 11-13, 2013	2013
10	C. Munteanu, T. Spătaru, L. Preda, P. Osiceanu, N. Spătaru	Morphological features of platinum incorporated three dimensionally in electrodeposited Co ₃ O ₄ coatings	The 15th International Conference of Physical Chemistry, ROMPHYSICHEM15, Bucharest, Romania, September 11-13, 2013	2013
11	T. Spătaru, L. Preda, M. Marcu, P. Osiceanu, C. Munteanu, N. Spătaru	Morphological and electrochemical features of a new Pt-TiO ₂ composite obtained by surfactant-mediated electrodeposition	International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT 2013), Granada, Spain, September 22-25, 2013	2013
12	N. Spătaru, M. Marcu, P. Osiceanu, C. Munteanu, T. Spătaru	Electrodeposition of Co ₃ O ₄ — Pt composites with tailor-made electrochemical features	International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT 2013), Granada, Spain, September 22-25, 2013	2013
13	N. Spătaru, P. Osiceanu, T. Spătaru, A. Fujishima	Effect of chemical termination of BDD substrate on the resistance to fouling during methanol oxidation of platinum particles	International Symposium on Diamond Electrochemistry, Keio University, Yokohama, Japan, March 18-19, 2014	2014
14	T. Spătaru, L. Preda, A.I. Căciuleanu, N. Spătaru	Effect of Hydrophobic Interaction between Boron-doped Diamond and Anionic Surfactants on the Charge Transfer Efficiency	65th Annual Meeting of the International Society of Electrochemistry, Lausanne, Switzerland, 31 August-5 September, 2014	2014
15	N. Spătaru, P. Osiceanu, C. Munteanu, M. Anastasescu, T. Spătaru	Effect of Oxygenated Platinum and Carbon Species on the Electrocatalytic Activity of Pt Particles	65th Annual Meeting of the International Society of Electrochemistry, Lausanne, Switzerland, 31 August-5 September, 2014	2014
16	A.I. Căciuleanu, T. Spătaru, D.C. Culiță, N. Spătaru	Liposome Directed Platinum Electrodeposition	7th International Conference on Materials Science and Condensed Matter Physics, Chisinau, Rep. Moldova, 16-19 September, 2014	2014
17	A.I. Căciuleanu, T. Spătaru, N. Spătaru	Effect of Electrolyte-Electrode Interaction on the Distribution of Pt	8th International Conference on Advanced Materials, (ROCAM	2015

		Nanoparticles Deposits Obtained via a Liposomal Template	2015), Bucharest, Romania, 7-10 July, 2015	
18	T.Spătaru, L. Preda, C. Lete, P. Osiceanu, A.I. Căciuleanu, N. Spătaru	Effect of Hydrous Ruthenium Oxide Modification of Conductive Diamond Substrate on the Electrocatalytic Performances of Supported Pt Particles	31st European Conference on Surface Science, (ECOSS-31), Barcelona, Spain, 31 August-4 September, 2015	2015
19	N. Spătaru, P. Osiceanu, M. Radu, T.Spătaru, M. Marcu, C. Lete	Influence of Conductive Diamond Surface Termination on the Morphological and Electrocatalytic Features of Supported Platinum-Oxide Composites	10th International Frumkin Symposium on Electrochemistry, Moscow, Russian Federation, 20-23 October, 2015	2015
20	N. Spătaru, C. Anastasescu, T.Spătaru, P. Osiceanu, C. Munteanu	Conductive Diamond Powder-SiO ₂ Nanotubes Composite, A Promising Platinum Support for Methanol Fuel Cell Applications	International Conference on Structural Nano Composites (NANOSTRUC 2016), Aberdeen, United Kingdom, 12-15 September, 2016	2016
21	M. Marcu, A. Banu, D. Portan, S. Petrescu	Interactional Effect of The Titanium Substrate on Photo-Electrochemical Behavior of TiO ₂ Nanotubes	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
22	T. Spătaru, L. Preda, C. Munteanu, M. Marin, N. Spătaru	Role of Iridium Oxide in The Reactivation of Platinum Nanoparticles Electrodeposited at BDD Powder	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
23	N. Spătaru, P. Osiceanu, M. Marcu, C. Munteanu, T.Spătaru, L. Preda	Improvement of Supported Platinum Particles Resistance to Fouling by Appropriate Selection of The Substrate	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
24	A. Toader, T. Spătaru, N.Spătaru, F. Cîmpoescu	Electron Structure Effects in Boron Doped Diamond	International Conference of Physical Chemistry (ROMPHYSICHEM 16), Galati, Romania, 21-23 September, 2016	2016
	ATLASE, DICTIONARE DE SPECIALITATE			
1				
n				
	CERERI BREVET DE INVENTII/BREVET OBTINUT			
		ALTE rezultate		
1				
n				

**Lista achizițiilor realizate în cadrul proiectului
Anul 2011**

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Sistem PC Intel Core 15-650	Imobilizari corporale	3178,89	ICF
Sursa de tensiune Keithley 2425 plus test lead kit 1754 si test lead set 5804	Imobilizari corporale	39601,88	ICF
Monitor Samsung Led S22A300N	Imobilizari corporale	725,83	ICF
Laptop Sony Vaio Intel Core TM 2310 M	Imobilizari corporale	3999,00	
Etuva cu convecție forțată FD53	Imobilizari corporale	6481,98	ICF
Microsoft Office Pro 2010 English PKC	Imobilizari necorporale	2242,82	ICF

Anul 2012

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Echipament de masuratori electrochimice tip Potentiostat/Galvanostat	Imobilizari corporale	156860,00	ICF
KUSB – 488B IEEE-488 Interface Unit, 880 Kbytes/s, USB interface	Imobilizari corporale	3078,91	ICF
HDD extern Western Digital , 500GB	Imobilizari corporale	389,99	ICF
HDD extern Western Digital , 1TB	Imobilizari corporale	429,99	ICF
Ultrabook Samsung NP900X3A-Bo1RO cu processor Intel Core, 4 GB	Imobilizari corporale	4999,99	ICF

Anul 2013

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Sistem Desktop SeriouX Evolution V3 cu procesor Intel CoreTM i3 3220 3.30 GHz, 4 GB, DDR3 1333 MHz, HDD 500 GB	Imobilizari corporale	1.399,99	ICF
Microsoft Windows 7 Home Premium 64 bit English OEM SP1	Imobilizari necorporale	459,99	ICF

Anul 2014

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
—	—	—	—

Anul 2015

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Cuptor cu camera, LE 1/11 cu controler R6 temperatura	Imobilizari corporale	6.340,28	ICF

Anul 2016

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Baie termostata cu recirculare	Imobilizari corporale	10.896,00	ICF
Baie de ultrasonare cu capac si cos din inox	Imobilizari corporale	4.317,60	ICF
Monitor LED IPS Dell 23.8" Full HD	Imobilizari corporale	799,99	ICF
Sistem Desktop PC Dell OptiPlex 30,\$ MT cu procesor Intelo Corew i5'5500 3.20Gha Skylake", 8GB, 1TB, DVD-RW, lnteo HD GraPhics, Microsoft Windows 7 ProlMicrosoft Windows 10 Pro, Mouse + Tastatura, Black	Imobilizari corporale	2.999,99	ICF
Sistem Desktop PC Dell OptiPlex 30,\$ MT cu procesor Intelo Corew i5'5500 3.20Gha Skylake", 8GB, 1TB, DVD-RW, lnteo HD GraPhics, Microsoft Windows 7 ProlMicrosoft Windows 10 Pro, Mouse + Tastatura, Black cu Monitor LED TN Philips 23.6", Full HD, DVI, HDMI Negru. 243V5LHSB/00	Imobilizari corporale	3.449,98	ICF
Pachet DigiSim de simulare CV	Imobilizari necorporale	13.104,00	ICF

**Director proiect,
Dr. Nicolae Spataru**