

UNIVERSITATEA POLITEHNICA DIN BUCURESTI

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR

ABILITARE

CANDIDAT Prof. Dr. Ing. Cristian Pirvu

Departament Chimie Generală, Facultatea de Chimie Aplicată și Știința Materialelor

Condiții	Îndeplinire condiții	
A. Doctor	Diploma de Doctor în domeniul Inginerie Chimica, nr. 34 din 20.09.2004 emisa de Universitatea POLITEHNICA din București	
B. Îndeplinirea standardelor minime naționale conform OMECTS nr. 6560/20.12.2012; MO, I, 890 si 890bis/27.12.2012	Standarde indeplinite, conform Comisiei CNATDCU Nr 8, Comisia Inginerie Chimică, Inginerie Medicală, Știința Materialelor Și Nanomateriale Anexată: Fișa de calcul si de sustinere a indeplinirii standardelor minimele specifice domeniului, in acord cu realizarile mentionate:	
Standarde minimale și obligatorii	Minim prevăzut	Realizat
Numarul total de articole in reviste ISI - NT	25	54
Numarul de articole in reviste ISI la care cadidatul este autor principal (prim autor sau autor de corespondenta) - NP	12	29
Factorul de impact cumulat - FIC	16	58.148
Numarul total de citari (din baza SCOPUS) - NC	40	238
C. Atestarea studiilor (diploma + Foi Matricole) si a altor realizari profesionale	Diploma de Licenta , in profilul Chimie, specializarea Inginerie Chimică Nr 6305 din 09.12.1995 emisă de Universitatea POLITEHNICA din București	
	Diplomă de Studii Aprofundate / Master , Specializarea Medicamente si cosmetice, Nr 520 din 24.03.1997 emisă de Ministerul Învățământului, Universitatea POLITEHNICA din București	
	Certificat de absolvire Studii Postuniversitare – nr. 428 / 24.08.1997	
	Certificat de absolvire Studii Postuniversitare – nr. 268 / 24.07.1997	

Subsemnatul Pirvu Valeriu Cristian, Departamentul Chimie Generală, Facultatea de Chimie Apliactă și Știința Materialelor, din Domeniul de Studii Universitare Inginerie Chimică, candidat la concursul pentru ABILITARE, arondat Comisiei de Specialitate CNATDCU [OMECTS 6573/2012] Nr 8, Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, ca sunt indeplinite toate Standardele minimele prevazute de Metodologia UPB pentru inscrierea la concurs [Sectiunea II.3] si OMECTS 6560/2012 [C + P], in momentul inscrierii la concurs, si sustin veridicitatea informatiilor prezentate in dosar si in materialul de mai sus. Lucrarile considerate a fi incluse in Baza ISI Thomson Reuters sau in alte Baze de Date Internationale [BDI] sunt vizibile in aceste baze, in dreptul numelui candidatului, la aceasta data.

Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menționate

Numarul total de articole în reviste ISI (NT)

PIRVU VALERIU CRISTIAN

Minim prevăzut – 25
Realizat - 54

1. C. Ungureanu, C. Dumitriu, S. Popescu, M. Enculescu, V. Tofan, M. Popescu, C. **Pîrvu***, Enhancing antimicrobial activity of TiO₂/Ti by torularhodin bioinspired surface modification. *Bioelectrochemistry* 107, 14-24, 2016, ISSN:1878-562X, WOS:000365363600003.
2. Dumitriu C, Ungureanu C, Popescu S, Tofan V, Popescu M, **Pîrvu, C***, Ti surface modification with a natural antioxidant and antimicrobial agent, *Surface and Coating Technology*, 276, 175-185, 2015, ISSN: 0257-8972, WOS: 000360594600022.
3. Manole CC, Pîrvu C, Stoian AB, Moreno JMC, Stanciu D, Demetrescu I., The Electrochemical Stability in NaCl Solution of Nanotubes and Nanochannels Elaborated on a New Ti-20Zr-5Ta-2Ag Alloy, *Journal of Nanomaterials*, 2015, article ID 521276, 9 pages, 2015, ISSN: 1687-4110, WOS:000351112000001.
4. Dumitriu C, Popescu M, Ungureanu C, **Pîrvu, C***, Antibacterial efficiencies of TiO₂ nanostructured layers prepared in organic viscous electrolytes, *Applied Surface Science*, 341, 157-165, 2015, ISSN: 0169-4332, WOS: 000352214700021.
5. Comorosan, S, Popescu, I., Polosan, S., Pîrvu, C, Ionescu, E. Paslaru, L., Apostol, M., Conformational changes and metastable states induced in proteins by green light, *European Physical Journal B*, 88 (8), pp. 1-9, 2015, ISSN: 1434-6028, WOS:000348122700002.
6. Ungureanu C, Popescu S, Purcel G, Tofan V, Popescu M, Salageanu A, **Pîrvu, C***, Improved antibacterial behavior of titanium surface with torularhodin-polypyrrole film, *Materials Science and Engineering C*, 42, pp. 726-733, 2014, ISSN: 0928-4931, WOS: 000340687400091.
7. Popescu S, Ungureanu C, Albu AM, **Pîrvu, C***, Poly(dopamine) assisted deposition of adherent PPy film on Ti substrate, *Progress in Organic Coating*, 77(11), pp. 1890-900, 2014, ISSN: 0300-9440, WOS: 000353185300038.
8. Penta V, Pîrvu C, Demetrescu I. Electrochemical Impedance Spectroscopy Investigation on the Clinical Lifetime of ProTaper Rotary File System, *Biomed Research International*, 2014, Article ID 754189, 10 pages, 2014, ISSN: 2314-6133, WOS: 000330881200001.
9. Mindroiu M, **Pîrvu, C***, Galateanu B, Demetrescu I., Corrosion Behaviour and Cell Viability of Untreated and Laser Treated Ti6Al7Nb Alloys, *Rev Chim-Bucharest.*, 65(3), 328-334, 2014, ISSN: 00347752, WOS:000335294800015.
10. Andrei M, **Pîrvu, C***, Demetrescu I. Electrochemical impedance spectroscopy in understanding the influence of ultrasonic dental scaling on the dental structure-dental filling interface, *European Journal of Oral Sciences.*, 122(6), pp. 411-416, 2014, ISSN: 0909-8836, WOS: 000344785300007.
11. Popescu S, Manole CC, **Pîrvu, C***, Surface Features Changes and Corrosion Stability of Titanium Surfaces by Suitable Treatments, *Rev Chim-Bucharest*, 64(8), pp. 796-802, 2013, ISSN: 00347752, WOS: 000330329400003.
12. Mîndroiu, M., **Pîrvu, C***, Cîmpean, A., Demetrescu, I., Corrosion and biocompatibility of PPy/PEG coating electrodeposited on Ti6Al7Nb alloy, *Materials and Corrosion*, 64 (10) , pp. 926-931, 2013, ISSN: 09475117, WOS:000327742100009.

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13. Penta, V., Vornicescu, D., Keusgen, M., **Pirvu, C.***, Understanding the cleaning effect with sodium hypochlorite of *Enterococcus faecalis* endodontic pathogen using electrochemical impedance spectroscopy (EIS), atomic force microscopy (AFM) and surface plasmon resonance (SPR), *Digest Journal of Nanomaterials and Biostructures*, 8 (3) , pp. 1205-1214, 2013, **ISSN:** 18423582, WOS:000327816300028.
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16. Mîndroiu, M., Ungureanu, C., Ion, R., **Pirvu, C.***, The effect of deposition electrolyte on polypyrrole surface interaction with biological environment, *Applied Surface Science*, 276 , pp. 401-410, **ISSN:** 01694332, WOS:000318979800058.
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18. Drob, S.I., **Pirvu, C.**, Moreno, J.M.C., Vasilescu, C., Popa, M., Characterization and protective properties of a new water-based acryl coating, *Rev Chim-Bucharest*, 64 (3) , pp. 287-293, 2013, **ISSN:** 00347752, WOS:000319179300015.
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24. Lungu, A., Şulcă, N.M., Vasile, E., Badea, N., **Pîrvu, C.**, Iovu, H., The influence of POSS substituent on synthesis and properties of hybrid materials based on urethane dimethacrylate (UDMA) and various polyhedral oligomeric silsesquioxane (POSS), *Journal of Applied Polymer Science*, 121 (5) , pp. 2919-2926, 2011, **ISSN:**0021-8995, WOS:000291598100053.
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41. Radovici, O., Banu, A., **Pirvu, C.**, Micro reactor for chlorophenols electrocatalytic oxidation, *ECS Transactions* 16 (27) , pp. 1-9, 2009, **ISSN:**1938-5862,
42. **Pirvu, C.***, Stancu, R., Drob, P., Vasilescu, E., Vasilescu, C., Mindroiu, M., Influence of various binder of the protective properties of paint coatings, *Key Engineering Materials*, 415 , pp. 73-76, 2009, **ISSN:**1662-9795, WOS:000278916000019
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46. **Pirvu, C.**, Banu, A., Radovici, O., Marcu, M., Application of electrochemical impedance spectroscopy (EIS) To study of phenolic films, *Revue Roumaine de Chimie*, 53 (11) , pp. 1007-1015, 2008, **ISSN:**0035-3930, WOS:000266226500004
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50. Pigani, L., Musiani, M., **Pirvu, C.**, Terzi, F., Zanardi, C., Seeber, R., Electro-oxidation of chlorophenols on poly(3,4-ethylenedioxythiophene)-poly(styrene sulphonate) composite electrode, *Electrochimica Acta*, 52 (5) , pp. 1910-

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53. Pirvu, C*, Brillas, E., Radovici, O., Banu, A., Degradarea electrochimică a clorofenolilor prin oxidare anodică în prezență de H₂O₂ electrogenerată | [The electrochemical degradation of chlorophenols by anodic oxidation in the presence of electrogenerated H₂O₂], *Rev Chim-Bucharest*, 55 (6) , pp. 430-434, 2004, ISSN: 00347752, WOS:000222753600013
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**Numarul de articole in reviste ISI la care cadidatul este autor principal
(prim autor sau autor de corespondenta) - NP**

Pirvu Valeriu Cristian

Minim prevazut – 12
Realizat - 29

1. C. Ungureanu, C. Dumitriu, S. Popescu, M. Enculescu, V. Tofan, M. Popescu, **C. Pirvu***, Enhancing antimicrobial activity of TiO₂/Ti by torularhodin bioinspired surface modification. *Bioelectrochemistry* 107, 14-24, 2016, ISSN:1878-562X, WOS:000365363600003.
2. Dumitriu C, Ungureanu C, Popescu S, Tofan V, Popescu M, **Pirvu, C***, Ti surface modification with a natural antioxidant and antimicrobial agent, *Surface and Coating Technology*, 276, 175-185, 2015, ISSN: 0257-8972, WOS: 000360594600022.
3. Dumitriu C, Popescu M, Ungureanu C, **Pirvu, C***, Antibacterial efficiencies of TiO₂ nanostructured layers prepared in organic viscous electrolytes, *Applied Surface Science*, 341, 157-165, 2015, ISSN: 0169-4332, WOS: 000352214700021.
4. Ungureanu C, Popescu S, Purcel G, Tofan V, Popescu M, Salageanu A, **Pirvu, C***, Improved antibacterial behavior of titanium surface with torularhodin-polypyrrole film, *Materials Science and Engineering C*, 42, pp. 726-733, 2014, ISSN: 0928-4931, WOS: 000340687400091.
5. Popescu S, Ungureanu C, Albu AM, **Pirvu, C***, Poly(dopamine) assisted deposition of adherent PPy film on Ti substrate, *Progress in Organic Coating*, 77(11), pp. 1890-900, 2014, ISSN: 0300-9440, WOS: 000353185300038.
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10. Penta, V., Vornicescu, D., Keusgen, M., **Pirvu, C.***, Understanding the cleaning effect with sodium hypochlorite of *Enterococcus faecalis* endodontic pathogen using electrochemical impedance spectroscopy (EIS), atomic force microscopy (AFM) and surface plasmon resonance (SPR), *Digest Journal of Nanomaterials and Biostructures*, 8 (3) , pp. 1205-1214, 2013, **ISSN:** 18423582, **WOS:**000327816300028.
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15. **Pirvu, C.***, Demetrescu, I., Drob, P., Vasilescu, E., Ivanescu, S., Mindroiu, M., Vasilescu, C., Drob, S.I., Corrosion behaviour of a new Ti-6Al-2Nb-1Ta alloy in various solutions, *Materials and Corrosion*, 62 (10) , pp. 948-955, 2011, **ISSN:** 09475117, **WOS:**000297742200007.
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16. Demetrescu, I., **Pirvu, C.***, Mitran, V., Effect of nano-topographical features of Ti/TiO₂ electrode surface on cell response and electrochemical stability in artificial saliva, *Bioelectrochemistry*, 79 (1) , pp. 122-129, 2010, **ISSN:**1567-5394, **WOS:**000278666300020
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21. **Pirvu, C.***, Mindroiu, M., Popescu, S., Demetrescu, I., Electrodeposition of polypyrrole/poly(Styrene Sulphonate) composite coatings on Ti6Al7Nb alloy, *Molecular Crystals and Liquid Crystals*, 521 , pp. 126-139, 2010, **ISSN:**1542-1406, **WOS:**000278163100010
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23. **Pirvu, C.***, Stancu, R., Drob, P., Vasilescu, E., Vasilescu, C., Mindroiu, M., Influence of various binder of the protective properties of paint coatings, *Key Engineering Materials*, 415 , pp. 73-76, 2009, **ISSN:**1662-9795, **WOS:**000278916000019
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27. **Pirvu, C.***, Stancu, R., Sovar, M.M., Anticorrosive properties of hybride organic (Polypyrrole) inorganic (Zinc)

coatings on steel surface, *Rev Chim-Bucharest*, 58 (9) , pp. 933-937, 2007, **ISSN:** 00347752, WOS:000250636800017

28. **Pîrvu, C***, Brillas, E., Radovici, O., Banu, A., Degradarea electrochimică a clorofenolilor prin oxidare anodică în prezență de H₂O₂ electrogenerată | [The electrochemical degradation of chlorophenols by anodic oxidation in the presence of electrogenerated H₂O₂], *Rev Chim-Bucharest*, 55 (6) , pp. 430-434, 2004, **ISSN:** 00347752, WOS:000222753600013
29. **Pîrvu, C***, Brillas, E., Radovici, O., Banu, A., Degradarea 4-clorofenolului prin metode de oxidare electrochimică avansată | [Degradation of 4-chlorophenol by advanced electrochemical oxidation methods], *Rev Chim-Bucharest*, 55 (10) , pp. 764-768, 2004, **ISSN:** 00347752, WOS:000225068100008

Factorul de impact cumulat – (FIC)

Pîrvu Valeriu Cristian

Minim prevazut – 16
Realizat - 53.976

Nr. crt	Articol	FI	Nr. autori	FIC
1.	C. Ungureanu, C. Dumitriu, S. Popescu, M. Enculescu, V. Tofan, M. Popescu, C. Pîrvu* , Enhancing antimicrobial activity of TiO ₂ /Ti by torularhodin bioinspired surface modification. <i>Bioelectrochemistry</i> 107, 14-24, 2016, WOS:000365363600003.	4.172	1	4.172
2.	Dumitriu C, Ungureanu C, Popescu S, Tofan V, Popescu M, Pîrvu, C* , Ti surface modification with a natural antioxidant and antimicrobial agent, <i>Surface and Coating Technology</i> , 276, 175-185, 2015, ISSN: 0257-8972, WOS: 000360594600022.	1.998	1	1.998
3.	Comorosan, S, Popescu, I., Polosan, S., Pîrvu, C, Ionescu, E. Paslaru, L., Apostol, M., Conformational changes and metastable states induced in proteins by green light, <i>European Physical Journal B</i> , 88 (8), pp. 1-9, 2015, ISSN: 1434-6028, WOS:000348122700002.	1.345	7	0.192
4.	Manole CC, Pîrvu C, Stoian AB, Moreno JMC, Stanciu D, Demetrescu I., The Electrochemical Stability in NaCl Solution of Nanotubes and Nanochannels Elaborated on a New Ti-20Zr-5Ta-2Ag Alloy, <i>Journal of Nanomaterials</i> , 2015, article ID 521276, 9 pages, 2015, ISSN: 1687-4110, WOS:000351112000001.	1.644	6	0.274
5.	Dumitriu C, Popescu M, Ungureanu C, Pîrvu, C* , Antibacterial efficiencies of TiO ₂ nanostructured layers prepared in organic viscous electrolytes, <i>Applied Surface Science</i> , 341, 157-165, 2015, ISSN: 0169-4332, WOS: 000352214700021.	2.711	1	2.711
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7.	Popescu S, Ungureanu C, Albu AM, Pîrvu, C* , Poly(dopamine) assisted deposition of adherent PPy film on Ti substrate, <i>Progress in Organic Coating</i> , 77(11), pp. 1890-900, 2014,	2.358	1	2.358

ISSN: 0300-9440, WOS: 000353185300038.				
8.	Penta V, Pirvu C, Demetrescu I. Electrochemical Impedance Spectroscopy Investigation on the Clinical Lifetime of ProTaper Rotary File System, <i>Biomed Research International</i> , 2014, Article ID 754189, 10 pages, 2014, ISSN: 2314-6133, WOS: 000330881200001.	1.579	3	0.526
9.	Mindroiu M, <i>Pirvu, C*</i> , Galateanu B, Demetrescu I., Corrosion Behaviour and Cell Viability of Untreated and Laser Treated Ti6Al7Nb Alloys, <i>Rev Chim-Bucharest.</i> , 65(3), 328-334, 2014, ISSN: 00347752, WOS:000335294800015.	0.810	1	0.810
10.	Andrei M, <i>Pirvu, C*</i> , Demetrescu I. Electrochemical impedance spectroscopy in understanding the influence of ultrasonic dental scaling on the dental structure-dental filling interface, <i>European Journal of Oral Sciences.</i> , 122(6), pp. 411-416, 2014, ISSN: 0909-8836, WOS: 000344785300007.	1.488	1	1.488
11.	Popescu S, Manole CC, <i>Pirvu, C*</i> , Surface Features Changes and Corrosion Stability of Titanium Surfaces by Suitable Treatments, <i>Rev Chim-Bucharest</i> , 64(8), pp. 796-802, 2013, ISSN: 00347752, WOS: 000330329400003.	0.810	1	0.810
12.	Mindroiu, M., <i>Pirvu, C*</i> , Cîmpean, A., Demetrescu, I., Corrosion and biocompatibility of PPy/PEG coating electrodeposited on Ti6Al7Nb alloy, <i>Materials and Corrosion</i> 64 (10) , pp. 926-931, 2013, ISSN: 09475117, WOS:000327742100009.	1.373	1	1.373
13.	Penta, V., Vornicescu, D., Keusgen, M., <i>Pirvu, C*</i> , Understanding the cleaning effect with sodium hypochlorite of Enterococcus faecalis endodontic pathogen using electrochemical impedance spectroscopy (EIS), atomic force microscopy (AFM) and surface plasmon resonance (SPR), <i>Digest Journal of Nanomaterials and Biostructures</i> 8 (3) , pp. 1205-1214, 2013, ISSN: 18423582, WOS:000327816300028.	0.945	1	0.945
14.	Penta, V., <i>Pirvu, C.</i> , Electrochemical impedance spectroscopy (EIS) investigation on the action of dental endodontic lavage substances, <i>Revista de Chimie</i> 64 (9) , pp. 965-970, 2013, ISSN: 00347752, WOS:000326855900009.	0.810	2	0.405
15.	Mindroiu, M., Ion, R., <i>Pirvu, C.</i> , Cimpean, A., Surfactant-dependent macrophage response to polypyrrole-based coatings electrodeposited on Ti6Al7Nb alloy, <i>Materials Science and Engineering C</i> 33 (6) , pp. 3353-3361, 2013, ISSN: 09284931, WOS:000320973000033.	3.088	4	0.772
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19.	Drob, S.I., <i>Pirvu, C.</i> , Moreno, J.M.C., Vasilescu, C., Popa, M., Characterization and protective properties of a new water-based acryl coating, <i>Revista de Chimie</i> 64 (3) , pp. 287-293, 2013,ISSN: 00347752, WOS:000319179300015.	0.810	5	0.162
20.	<i>Pirvu, C.*</i> , Manole, C.C., Electrochemical surface plasmon resonance for in situ investigation of antifouling effect of ultra thin hybrid polypyrrole/PSS films, <i>Electrochimica Acta</i> 89 , pp. 63-71, 2013, ISSN:0013-4686, WOS:000315558200009.	4.504	1	4.504
21.	Ungureanu, C., <i>Pirvu, C.</i> , Mindroiu, M., Demetrescu, I., Antibacterial polymeric coating based on polypyrrole and polyethylene glycol on a new alloy TiAlZr, <i>Progress in Organic Coatings</i> 75 (4) , pp. 349-355, 2012, ISSN:0300-9440, WOS:000309695700010.	2.358	4	0.590

22.	Cursaru, D.-L., Andronescu, C., <i>Pirvu, C.</i> , Ripeanu, R., The efficiency of Co-based single-wall carbon nanotubes (SWNTs) as an AW/EP additive for mineral base oils, <i>Wear</i> 290-291 , pp. 133-139, 2012, ISSN:0043-1648 , WOS:000307032800016.	1.913	4	0.478
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25.	Lungu, A., Şulcă, N.M., Vasile, E., Badea, N., <i>Pârnu, C.</i> , Iovu, H., The influence of POSS substituent on synthesis and properties of hybrid materials based on urethane dimethacrylate (UDMA) and various polyhedral oligomeric silsesquioxane (POSS), <i>Journal of Applied Polymer Science</i> 121 (5) , pp. 2919-2926, 2011, ISSN:0021-8995 , WOS:000291598100053.	1.768	6	0.295
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29.	Demetrescu, I., <i>Pirvu, C.*</i> , Mitran, V., Effect of nano-topographical features of Ti/TiO ₂ electrode surface on cell response and electrochemical stability in artificial saliva, <i>Bioelectrochemistry</i> 79 (1) , pp. 122-129, 2010, ISSN:1567-5394 , WOS:000278666300020	4.172	1	4.172
30.	<i>Pirvu, C.</i> , Demetrescu, I., Drob, P., Vasilescu, E., Vasilescu, C., Mindroiu, M., Stancu, R., Electrochemical stability and surface analysis of a new alkyd paint with low content of volatile organic compounds, <i>Progress in Organic Coatings</i> 68 (4) , pp. 274-282, 2010, ISSN:0300-9440 , WOS:000279237900003	2.358	1	2.358
31.	<i>Pirvu, C.</i> , Marcu, M., Banu, A., Deactivation of gold electrode at chlorophenols electrooxidation, <i>Revista de Chimie</i> 61 (6) , pp. 585-589, 2010, ISSN: 00347752 , WOS:000279757800015	0.810	1	0.810
32.	Mindroiu, V.M., <i>Pirvu, C.*</i> , Popescu, S., Demetrescu, I., Polypyrrole electrodeposition on Ti6Al7Nb alloy in aqueous and non-aqueous solutions, <i>Revista de Chimie</i> 61 (4) , pp. 390-394, 2010, ISSN: 00347752 , WOS:000278425100014	0.810	1	0.810
33.	Popescu, S., <i>Pirvu, C.*</i> , Mindroiu, M., Manole, C., Demetrescu, I., Electrochemical synthesis and characterization of Ti modified electrodes with polypyrrole - polyethylene glycol hybrid coating, <i>Revista de Chimie</i> 61 (3) , pp. 245-248, 2010, ISSN: 00347752 , WOS:000276667000005	0.810	1	0.810
34.	Demetrescu, I., Ionita, D., <i>Pirvu, C.</i> , Portan, D., Present and future trends in TiO ₂ nanotubes elaboration, characterization and potential applications, <i>Molecular Crystals and Liquid Crystals</i> 521 , pp. 195-203, 2010, ISSN:1542-1406 , WOS:000278163100017	0.493	4	0.123
35.	<i>Pirvu, C.*</i> , Mindroiu, M., Popescu, S., Demetrescu, I., Electrodeposition of polypyrrole/poly(Styrene Sulphonate) composite coatings on Ti6Al7Nb alloy <i>Molecular Crystals and Liquid Crystals</i> 521 , pp. 126-139, 2010, ISSN:1542-1406 , WOS:000278163100010	0.493	1	0.493
36.	Popescu, S., <i>Pirvu, C.*</i> , Mindroiu, M., Demetrescu, I., Enhancing the stability of PPy film on Ti by PEG incorporation, <i>Molecular Crystals and Liquid Crystals</i> 522 , pp. 125-135, 2010, ISSN:1542-1406 , WOS:000278163300015	0.493	1	0.493

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38.	Stefanescu, T., Manole, C., <i>Parvu, C.</i> , Barbinta Patrascu, M.E., Tugulea, L., Supported phospholipid bilayers with chlorophyll for optoelectronic devices, <i>Optoelectronics and Advanced Materials, Rapid Communications</i> 4 (1) , pp. 33-38, 2010, ISSN: 1842-6573, WOS: 000274804300008	0.394	5	0.079
39.	Manole, C.C., <i>Pirvu, C.</i> , Demetrescu, I., Evaluation of TiO ₂ nanotubes changes after ultrasonication treatment, <i>Molecular Crystals and Liquid Crystals</i> 521 , pp. 84-92, 2010, ISSN: 1542-1406, WOS: 000278163100005	0.493	3	0.164
40.	Mindroiu, M., <i>Pirvu, C.</i> , Popescu, S., Demetrescu, I., Polypyrrole as conducting polymer coating on Ti6Al17Nb alloy, <i>Materiale Plastice</i> 46 (4) , pp. 394-398, 2009, ISSN: 0025-5289, WOS: 000274282300010	0.824	4	0.206
41.	Comorosan, S, Kappel, W, Constantinescu, I, Gheorghe, M, Ionescu, E, <i>Pirvu, C.</i> , Cinca, S, Cristache, L, Green light effects on biological systems: a new biophysical phenomenon, <i>Journal of Biological Physics</i> , 35 (3), pp. 265-277, ISSN: 0092-0606, WOS: 000268069000006	1.286	8	0.161
42.	<i>Pirvu, C.</i> , Banu, A., Radovici, O., Marcu, M., Application of electrochemical impedance spectroscopy (EIS) To study of phenolic films, <i>Revue Roumaine de Chimie</i> 53 (11) , pp. 1007-1015, 2008, ISSN: 0035-3930, WOS: 000266226500004	0.311	1	0.311
43.	Marcu, M., <i>Pirvu, C.</i> , Banu, A., Vulpasu, E., Effect of chlorine substitute on phenols electrooxidation studied by cyclic voltammetry, <i>Revista de Chimie</i> 59 (8) , pp. 867-870, 2008, ISSN: 00347752, WOS: 000260067700007	0.810	4	0.203
44.	Man, I., <i>Pirvu, C.</i> , Demetrescu, I., Enhancing titanium stability in Fusayama saliva using electrochemical elaboration of TiO ₂ nanotubes, <i>Revista de Chimie</i> 59 (6) , pp. 615-617, 2008, ISSN: 00347752, WOS: 000257604600002	0.810	3	0.270
45.	<i>Pirvu, C.</i> , Stancu, R., Sovar, M.M., Anticorrosive properties of hybride organic (Polypyrrole) inorganic (Zinc) coatings on steel surface, <i>Revista de Chimie</i> 58 (9) , pp. 933-937, 2007, ISSN: 00347752, WOS: 000250636800017	0.810	1	0.810
46.	Pigani, L., Musiani, M., <i>Pirvu, C.</i> , Terzi, F., Zanardi, C., Seeber, R., Electro-oxidation of chlorophenols on poly(3,4-ethylenedioxythiophene)-poly(styrene sulphonate) composite electrode, <i>Electrochimica Acta</i> 52 (5) , pp. 1910-1918, 2007, ISSN: 0013-4686, WOS: 000243647700010	4.504	6	0.751
47.	Banu, A., Marcu, M., Radovici, O., <i>Pirvu, C.</i> , Vasilescu, M., Electrodisolution studies of three aluminum alloys in acid, neutral and alkaline solutions, <i>Revue Roumaine de Chimie</i> 51 (3) , pp. 193-198, 2006, ISSN: 0035-3930, WOS: 000240447100005	0.311	5	0.062
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49.	<i>Pîrvu, C*</i> , Brillas, E., Radovici, O., Banu, A., Degradarea electrochimică a clorofenolilor prin oxidare anodică în prezență de H ₂ O ₂ electrogenerată [The electrochemical degradation of chlorophenols by anodic oxidation in the presence of electrogenerated H ₂ O ₂], <i>Revista de Chimie</i> 55 (6) , pp. 430-434, 2004, ISSN: 00347752, WOS: 000222753600013	0.810	1	0.810
50.	<i>Pîrvu, C*</i> , Brillas, E., Radovici, O., Banu, A., Degradarea 4-clorofenolului prin metode de oxidare electrochimică avansată, Degradation of 4-chlorophenol by advanced electrochemical oxidation methods, <i>Revista de Chimie</i> 55 (10) , pp. 764-768, 2004, ISSN: 00347752, WOS: 000225068100008	0.810	1	0.810
TOTAL				58.148

Numarul total de citari (din baza SCOPUS) - NC

Pirvu Valeriu Cristian

Minim prevazut –	40
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		<2011	2011	2012	2013	2014	2015	Subtotal	>2015	Total
	Total	29	27	31	45	61	44	208	2	239
1	Enhancing antimicrobial activity of TiO ₂ /Ti by torularhodin ...	2016						0		0
2	The electrochemical stability in NaCl solution of nanotubes ...	2015					1	1		1
3	Antibacterial efficiencies of TiO ₂ nanostructured layers pre...	2015						0		0
4	Conformational changes and metastable states induced in prot...	2015						0		0
5	Ti surface modification with a natural antioxidant and antim...	2015						0		0
6	Improved antibacterial behavior of titanium surface with tor...	2014					1	1		1
7	Electrochemical impedance spectroscopy investigation on the ...	2014						0		0
8	Poly(dopamine) assisted deposition of adherent PPy film on T...	2014						0		0
9	Gigahertz Resonance at gold surface as a tool for ions study...	2014						0		0
10	Monitoring on short-term the corrosion processes of three di...	2014						0		0
11	Effects of PEG on the stability and electrochemical properti...	2014						0		0
12	Electrochemical impedance spectroscopy in understanding the ...	2014						0		0
13	Corrosion behaviour and cell viability of untreated and lase...	2014						0		0
14	Corrosion and biocompatibility of PPy/PEG coating electrodep...	2013					3	3		3
15	Understanding the cleaning effect with sodium hypochlorite o...	2013					1	1		1
16	Electrochemical impedance spectroscopy (EIS) investigation o...	2013						0		0
17	Surfactant-dependent macrophage response to polypyrrole-base...	2013					2	2		2
18	Surface features changes and corrosion stability of titanium...	2013					1	1		1
19	The effect of deposition electrolyte on polypyrrole surface ...	2013					3	3	1	4
20	Synthesis and characterisation of TiO ₂ nanotubes with EC-AFM	2013						0		0
21	The electrochemical formation and shielding mechanism of TiO...	2013				1	1	3		5
22	Characterization and protective properties of a new water-ba...	2013					1	1		2
23	Electrochemical surface plasmon resonance for in situ invest...	2013				1	1	2		2
24	Antibacterial polymeric coating based on polypyrrole and pol...	2012					4	1		5
25	Electrochemical studies on TiO ₂ nanotubes modified ti elect...	2012						0		0

26 The efficiency of Co-based single-wall carbon nanotubes (SWN...	2012			3	6	3	12	12
27 Electrochemical impedance technique in understanding diagnos...	2011						0	0
28 Understanding of electrochemical and structural changes of p...	2011		1	1	3	3	8	8
29 Corrosion behaviour of a new Ti-6Al-2Nb-1Ta alloy in various...	2011		1	2	1	1	5	5
30 The influence of POSS substituent on synthesis and propertie...	2011		1	2		2	5	1
31 Surface and electrochemical analysis for the understanding o...	2011		1	2	1	1	5	5
32 Manufacturing and characterization of TiO ₂ nanotubes on pure...	2011		2	1			3	3
33 Vegetal nanoclusters in hybrid silica films prepared by sol-...	2011		1	2		1	4	4
34 Surface perspective of a TiO ₂ nanoarchitecture	2010				1		1	1
35 Comparing performance of nanoarchitectures fabricated by Ti6...	2010		2	3	5	7	5	22
36 Effect of nano-topographical features of Ti/TiO ₂ electrode s...	2010		10	8	6	8	4	36
37 Electrochemical stability and surface analysis of a new alky...	2010		1	2		1	3	7
38 Deactivation of gold electrode at chlorophenols electrooxida...	2010		1		1		1	3
39 Polypyrrole electrodeposition on Ti6Al7Nb alloy in aqueous a...	2010			1		1	2	2
40 Electrochemical synthesis and characterization of Ti modifie...	2010						0	0
41 Present and future trends in TiO ₂ nanotubes elaboration, cha...	2010		3			1	4	4
42 Electrodeposition of polypyrrole/poly(Styrene Sulphonate) co...	2010						0	0
43 Enhancing the stability of PPy film on Ti by PEG incorporati...	2010		2		1		3	3
44 Biopolymer thin films for optoelectronics applications	2010		4	2	3	1	10	10
45 Supported phospholipid bilayers with chlorophyll for optoele...	2010		1	2	1	2	6	6
46 Evaluation of TiO ₂ nanotubes changes after ultrasonication t...	2010				1	1	2	2
47 Polysulfone-functionalized multiwalled carbon nanotubes comp...	2009	3					1	1
48 Polypyrrole as conducting polymer coating on Ti6Al7Nb alloy	2009					1	1	1
49 Aspects of correlation between structures, properties and bi...	2009						0	0
50 Micro reactor for chlorophenols electrocatalytic oxidation	2009						0	0
51 Biomaterials based on DNA embedded in silica matrix	2009	1	1		1		2	3
52 Influence of various binder of the protective properties of ...	2009						0	0
53 Scanning electronic microscopy in supporting electrochemical...	2009					1	1	1
54 One-step potentiostatic electrodeposition of polypyrrole coa...	2009					2	2	2
55 TiO ₂ : From nanotubes to nanopores by changing the anodizing ...	2009			1	2		3	3
56 Application of electrochemical impedance spectroscopy (EIS) ...	2008					4	4	4
57 Effect of chlorine substitute on phenols electrooxidation st...	2008	2					0	2
58 Enhancing titanium stability in Fusayama saliva using electr...	2008	1			2	1	3	4
59 Anticorrosive properties of hybride organic (Polypyrrole) in...	2007						0	0
60 Electro-oxidation of chlorophenols on poly(3,4-ethylenedioxy...	2007	8	2		4	3	1	10
61 Electro-dissolution studies of three aluminum alloys in acid...	2006		1				1	1
62 A poly(3,4-ethylenedioxythiophene)-poly(styrene sulphonate) ...	2005	12	4	1	5	5	1	16
63 The electrochemical degradation of chlorophenols by anodic o...	2004	1					0	1
64 Degradation of 4-chlorophenol by advanced electrochemical ox...	2004						0	0
65 pH influence on electrochemical oxidation of phenol on plati...	2002						0	0
66 Aspects concerning chemical and electrochemical reactivity o...	1999	1					0	1

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