Curriculum Vitae

INFORMAŢII PERSONALE

PÎRVU VALERIU CRISTIAN

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Sexul | Data naşterii | Naţionalitatea

LOCUL DE MUNCA ACTUAL

Universitatea Politehnica din Bucuresti, Facultatea Inginerie Chimica si Biotehnologii, Departamentul Chimie Generală

EXPERIENŢA PROFESIONALĂ

2016 - prezent

Prodecan – Facultatea de Inginerie Chimică si Biotehnologii

- Responsabil cu internaționalizarea si activitățile cu studenții (2016 – 2020);
- Responsabil cu activitatea de cercetare si activitățile studențești (2020 – prezent);

Tipul sau sectorul de activitate Învățământ superior;

2014 - prezent

Profesor, Universitatea POLITEHNICA Bucuresti, Facultatea de Inginerie Chimică si Biotehnologii, Departamentul Chimie Generală;

- Predare cursuri și conducere seminarii si laboratoare la diferite discipline. Conducere proiecte de licența / disertație și activitate de cercetare doctoranzi. Activități de cercetare;

▪ Tipul sau sectorul de activitate Învățământ superior;

2009 - 2014

Conferențiar, Universitatea POLITEHNICA Bucuresti, Facultatea Chimie Aplicata si Știința Materialelor, Departamentul Chimie Generală;

- Predare cursuri și conducere seminarii si laboratoare la diferite discipline. Conducere proiecte de licența / disertație. Activități de cercetare;

▪ Tipul sau sectorul de activitate Învățământ superior;

2004 - 2009

Șef lucrări, Universitatea POLITEHNICA București, Facultatea Chimie Aplicata si Știința Materialelor, Departamentul Chimie Generală;

- Predare cursuri și conducere seminarii si laboratoare la diferite discipline. Conducere proiecte de licența / disertație. Activități de cercetare;

▪ Tipul sau sectorul de activitate Învățământ superior;

1997 - 2004

Preparator / Asistent universitar, Universitatea POLITEHNICA București, Facultatea Chimie Aplicata si Știința Materialelor, Departamentul Chimie Generală;

- Conducere seminarii si laboratoare la diferite discipline. Activități de cercetare;

▪ Tipul sau sectorul de activitate Învățământ superior;

1995 - 1997

inginer, SC Romceram S.A. ;

- Activități de cercetare și organizarea unui laborator de analiză cantitativă.

▪ Tipul sau sectorul de activitate Industrie;

EDUCAŢIE ŞI FORMARE

2016 **Abilitare in Inginerie Chimica**

- Titlul tezei: Contributions to the recent research in development and advanced characterization of electrochemically deposited micro and nano-structured coatings

Universitatea Politehnica din București, Romania

2010 - 2013 **Post-doc, - Program postdoctoral pentru cercetare avansata in domeniul nanomaterialelor, POSDRU/89/1.5/S/54785, UPB**

Universitatea Politehnica din București, Romania

2004 **Doctor in Inginerie Chimica**

- Titlul tezei: Metode electrochimice de depoluare a compusilor organici

Universitatea Politehnica din București, Romania

2001 / 2003 / 2004 **Stagii de cercetare**

2001 - Spania, Universitatea din Barcelona;

2003 / 2004, Italia, Universitatea din Modena;

1995 - 1996 **Studii aprofundate**

- Universitatea POLITEHNICA Bucuresti, Facultatea Chimie Industriala, Specializarea Medicamente şi cosmetice, Universitatea Politehnica din București, Romania

1990 - 1995 **Inginer**

- Universitatea POLITEHNICA Bucuresti, Facultatea Chimie Industriala, Specializarea Tehnologia Substanţelor Organice, Titlul de INGINER în profilul CHIMIE.

COMPETENTE PERSONALE

Limba(i) maternă(e): Romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversaţie	Discurs oral	
Engleza	C1	C1	C1	C1	C1
Italiana	B1	B1	B1	B1	B1

Competenţe de comunicare

- Abilitați de comunicare si lucru in echipa; elaborare de documente științifice si administrative;
- Aplicații Microsoft Office: Word, Excel, PowerPoint, Outlook

Competenţe organizaţionale/manageriale

- Competente manageriale – dobândite prin activitatea de Director de departament (2012-2016), Prodecan (2016- prezent), coordonarea Laboratorului Fenomene de Interfață si a Laboratorului de caracterizare avansata a proprietăților morfologice si electrochimice

INFORMATII SUPLIMENTARE

105 lucrari ISI publicate (30 - Q1, 17 - Q2), Indice Hirsch 21;
8 brevete de inventie;
6 cărti / capitole de cărti,
Expert Evaluator proiecte UEFISCDI 2014, 2016, 2019 si Expert Evaluator Horizon 2020 - FETOPEN 2018;
Membru International Society of Electrochemistry;
Membru Societatea de Chimie din Romania;
ORCID - 0000-0003-0339-6146
Researcher ID - V-4619-2018
Proiecte de cercetare (director) - PN-II-ID-PCE 32-106/2008-2012, Environment friendly products based on polymeric composite conducting covering on nanostructurate supports with antifouling affect and the applications in reducing pollution and corrosion, Project PN-II - 253/2014 – NANOCOAT, New nanostructured multifunctional coatings for orthopaedic implants, Project PN-II-ID-PCE 31-003.2 / 2007-2010, New advanced products and technologies for environmental friendly, corrosion resistant and low VOC content multilayer coatings;

Pirvu Valeriu Cristian 16.07.2025

UNIVERSITATEA POLITEHNICA DIN BUCUREŞTI

FACULTATEA INGIINERIE CHIMICA si BIOTEHNOLOGII

Departamentul CHIMIE GENERALA

LISTA DE LUCRARI

Prof. PIRVU VALERIU CRISTIAN

1. Heavy Metal Ion Detection Using TiO2 Nanotubes and Self-Reduced TiO2 Nanotube Electrodes, Pirvu, Cristian; Prodana, Mariana ... Buica, George-Octavian Published: Dec 2024 in Applied Sciences DOI: 10.3390/APP142411879 Accession Number: WOS:001385545400001.
2. Irodia, R.; Mîndroiu, M.; Bîru, I.; Ioniţă, G.; Mihai, G. V.; Enăchescu, M.; Orbeci, C.; Pîrvu, C., Double S-Scheme Polydopamine/TiO2/Chlorophyll as Stable and Efficient Green Photoelectrocatalyst. ChemElectroChem 2023, 10 (24), e202300277.
3. A.G. Olaru, V. Butculescu, C. Dumitriu, N. Badea, S. Popescu, C. Ungureanu, C. Pirvu, Biopolymers as intermediate layers for amoxicillin grafting on antibacterial surface, Surf Interfaces, 33 (2022).
4. C. Pirvu, G. Stanciu, G.O. Buica, Cu(II) and Hg(II) detection under photo-assisted accumulation in an open circuit potential at a polyazulene-EDTA like modified electrode, Analyst, 147 (2022) 4730-4734.
5. C. Dumitriu, A. Constantinescu, A. Dumitru, C. Pirvu, Modified Electrode with ZnO Nanostructures Obtained from Silk Fibroin for Amoxicillin Detection, Crystals, 12 (2022).
6. Penta, C. Ungureanu, A.B. Stoian, C. Pirvu, EFECTUL POTENTIALULUI ELECTRIC INTRAORAL ASUPRA Candida albicans THE EFFECT OF INTRAORAL ELECTRICAL POTENTIAL ON Candida albicans, Revista Romana De Materiale-Romanian Journal of Materials, 52 (2022) 145-155.
7. C. Dumitriu, A. Constantinescu, C. Pirvu, Functionalized TiO2 Nanotube Platform for Gliadin Electroanalysis, Crystals, 11 (2021).
8. Danes, C.A.; Dumitriu, C.; Vizireanu, S.; Bita, B.; Nicola, I.M.; Dinescu, G.; Pirvu, C. Influence of Carbon Nanowalls on Copper Deposition for Electrostatic Conductive Coatings. Coatings 2021, 11.
9. Ungureanu, C.; Fierascu, I.; Fierascu, R.C.; Costea, T.; Avramescu, S.M.; Calinescu, M.F.; Somoghi, R.; Pirvu, C. In Vitro and In Vivo Evaluation of Silver Nanoparticles Phytosynthesized Using Raphanus sativus L. Waste Extracts. Materials 2021, 14.
10. Ungureanu, C.; Barbulescu, L.; Dumitriu, C.; Manole, C.; Pirvu, C. Titanium industrial residues surface modification towards its reuse as antimicrobial surfaces. Environ Sci Pollut R 2021, 28, 38224-38237.
11. Dumitriu, C.; Constantinescu, A.; Pirvu, C. Functionalized TiO2 Nanotube Platform for Gliadin Electroanalysis. Crystals 2021, 11.
12. Popescu S, Zarif ME, Dumitriu C, Ungureanu C, Pirvu C. Silk Fibroin-Based Hybrid Nanostructured Coatings for Titanium Implantable Surfaces Modification. Coatings. 2020;10(6).
13. Ionita D, Pirvu C, Stoian AB, Demetrescu I. The Trends of TiZr Alloy Research as a Viable Alternative for Ti and Ti16 Zr Roxolid Dental Implants. Coatings. 2020;10(4).

14. Barbulescu LE, Dumitriu C, Dragut DV, Nicoara A, Badanoiu A, Pirvu C. Residual titanium flakes as a novel material for retention and recovery of rare earth and relatively rare earth elements. Environ Sci Pollut R. 2020;27(4):4450-9.
15. Buica GO, Stoian AB, Manole C, Demetrescu I, Pirvu C. Zr/ZrO2 nanotube electrode for detection of heavy metal ions. Electrochem Commun. 2020;110.
16. Barbinta-Patrascu ME, Badea N, Bacalum M, Ungureanu C, Suica-Bunghez IR, Lordache SM, et al. 3D hybrid structures based on biomimetic membranes and Caryophyllus aromaticus - "green" synthesized nano-silver with improved bioperformances. Mat Sci Eng C-Mater. 2019;101:120-37.
17. Albu AM, Draghicescu W, Munteanu T, Ion R, Mitran V, Cimpean A, et al. Nitrodopamine vs dopamine as an intermediate layer for bone regeneration applications. Mat Sci Eng C-Mater. 2019;98:461-71.
18. Badea SL, Enache S, Tamaian R, Niculescu VC, Varlam M, Pirvu CV. Enhanced open-circuit voltage and power for two types of microbial fuel cells in batch experiments using Saccharomyces cerevisiae as biocatalyst. J Appl Electrochem. 2019;49(1):17-26.
19. A.M. Anton, I. Rau, F. Kajzar, A.M. Simion, C. Pirvu, N. Radu, C. Simion, Natural materials with enhanced optical damage threshold, Opt Mater, 86 (2018) 1-6, WOS:000453499500001.
20. L. Ichim, C. Pirvu, C.C. Manole, Electrochemical stability of Titanium-Hydroxyapatite implantable material modified with Ceftriaxone, Int J Electrochem Sc, 13 (2018) 11895-11905, WOS:000452744500046.
21. C.C. Manole, A. Dinischiotu, C. Nica, I. Demetrescu, C. Pirvu, Influence of electrospun TiO2 nanowires on corrosion resistance and cell response of Ti50Zr alloy, Mater Corros, 69 (2018) 1609-1619, WOS:000451781100010.
22. R. Ion, A. Mazare, C. Dumitriu, C. Pirvu, P. Schmuki, A. Cimpean, Nanochannelar Topography Positively Modulates Osteoblast Differentiation and Inhibits Osteoclastogenesis, Coatings, 8 (2018), WOS:000447978200002.
23. C. Dumitriu, S.I. Voicu, A. Muhulet, G. Nechifor, S. Popescu, C. Ungureanu, A. Carja, F. Miculescu, R. Trusca, C. Pirvu*, Production and characterization of cellulose acetate - titanium dioxide nanotubes membrane fraxiparinized through polydopamine for clinical applications, Carbohyd Polym, 181 (2018) 215-223, ISSN: 0144-8617, WOS:000418661000027.
24. M.E. Barbinta-Patrascu, N. Badea, C. Ungureanu, C. Pirvu, V. Iftimie, S. Antohe, Photophysical Studies on Biocomposites Based on Carbon Nanotubes and Chlorophyll-Loaded Biomimetic Membranes, Rom Rep Phys, 69 (2017), ISSN - 1221-1451, WOS:000401305200018.
25. L. Barbulescu, A. Badanoiu, A. Nicoara, C. Pirvu, Use of Wastes from Titanium Industry as Alternative Aggregate for Portland Cement Mortars, Rev Rom Mater, 47 (2017) 16-23, ISSN - 1583-3186, WOS:000396979900002.
26. C. Pirvu*, M. Mindroiu, O. Craciunescu, D. Constantin, The Bioactivity and Stability Evaluation of the PPy/Ca-P Hybrid Films on Titanium Alloy Implant, Mater Plast, 53 (2016) 722-726, WOS:000395047100032.

27. M.E. Barbinta-Patrascu, N. Badea, C. Pirvu, M. Bacalum, C. Ungureanu, P.L. Nadejde, C. Ion, I. Rau, Multifunctional soft hybrid bio-platforms based on nano-silver and natural compounds, Mat Sci Eng C-Mater, 69 (2016) 922-932, WOS:000383930900106.
28. M. Andrei, S. Tovaru, I. Parlatescu, C. Gheorghe, C. Pirvu*, Correlation of corrosion resistance of dental alloy restorations with oral lichen planus pathology, Mater Corros, 67 (2016) 882-887, WOS:000383643000011.
29. C.C. Manole, C. Pirvu, F. Maury, I. Demetrescu, Novel Approach to Surface Plasmon Resonance: A Third Dimension in Data Interpretation Through Surface Roughness Changes, J Nanosci Nanotechno, 16 (2016) 6332-6337, WOS:000386123900133.
30. C.A. Lazar, F. Kajzar, M. Mihaly, C. Pirvu, A.R. Petcu, N.L. Olteanu, I. Rau, DNA based materials doped with praseodymium (III) hydroxide nanoparticles, Opt Mater, 56 (2016) 3-7, WOS:000375517200002.
31. M.E. Barbinta-Patrascu, N. Badea, C. Ungureanu, M. Constantin, C. Pirvu, I. Rau, Silver-based biohybrids "green" synthesized from Chelidonium majus L., Opt Mater, 56 (2016) 94-99, WOS:000375517200018.
32. C.C. Manole, C. Pirvu, I. Demetrescu, Surface Plasmon Resonance in the Study of Phenol Electropolymerization at Ultralow Concentration, Rev Chim-Bucharest, 67 (2016) 884-886, WOS:000378158100014.
33. R. Huluba, C. Pirvu, C. Nicolescu, M. Gheorghe, M. Mindroiu, Counter Electrode Based on PEDOT:PSS - TiO2 NTs Films for Dye-sensitized Solar Cells, Mater Plast, 53 (2016) 130-134, WOS:000373966500030.
34. S. Popescu, M. Mindroiu, D. Cabuzu, C. Pirvu*, The Roll of NaPSS Surfactant on the Ceria Nanoparticles Embedding in Polypyrrole Films, J Nanomater, DOI Artn 9747931, 10.1155/2016/9747931(2016), WOS:000365363600003.
35. F. Iacob, G.T. Tihan, R.G. Zgarian, M. Pauliuc, I. Rau, C. Pirvu, Preliminary studies concerning some natural extracts influence on dentin, Mol Cryst Liq Cryst, 628 (2016) 110-114, WOS:000378126400014.
36. 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.
37. Dumitriu C, Ungureanu C, Popescu S, Tofan V, Popescu M, Pîrvu, C*., Ti surface modification with a natural antioxidant and antimicrobial agent, Surface and Coatating Technology, 276, 175-185, 2015, ISSN: 0257-8972, WOS: 000360594600022.
38. Manole CC, Pirvu 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.
39. 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.
40. Comorosan, S, Popescu, I., Polosan, S., Pirvu, 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.

41. 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.
42. 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.
43. Penta V, Pirvu 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. Penta, V., Pirvu, C., Electrochemical impedance spectroscopy (EIS) investigation on the action of dental endodontic lavage substances, Rev Chim-Bucharest, 64 (9), pp. 965-970, 2013, ISSN: 00347752, WOS:000326855900009.
50. Mindroiu, M., Ion, R., Pirvu, C., Cimpean, A., Surfactant-dependent macrophage response to polypyrrole-based coatings electrodeposited on Ti6Al7Nb alloy, Materials Science and Engineering C, 33 (6) , pp. 3353-3361, 2013, ISSN: 09284931, WOS:000320973000033.
51. 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.
52. Dumitriu, C., Pirvu, C.*, Demetrescu, I., The electrochemical formation and shielding mechanism of TiO2 nanotubes in organic electrolytes with different viscosity, Journal of the Electrochemical Society, 160 (2) , pp. G55-G60, 2013, ISSN:0013-4651, WOS:000313581600066.

53. 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.
54. Pirvu, C.*, Manole, C.C., Electrochemical surface plasmon resonance for in situ investigation of antifouling effect of ultra thin hybrid polypyrrole/PSS films, Electrochimica Acta, 89 , pp. 63-71, 2013, ISSN:0013-4686, WOS:000315558200009.
55. Ungureanu, C., Pirvu, C., Mindroiu, M., Demetrescu, I., Antibacterial polymeric coating based on polypyrrole and polyethylene glycol on a new alloy TiAlZr, Progress in Organic Coatings, 75 (4) , pp. 349-355, 2012, ISSN:0300-9440, WOS:000309695700010.
56. Cursaru, D.-L., Andronescu, C., Pirvu, C., Ripeanu, R., The efficiency of Co-based single-wall carbon nanotubes (SWNTs) as an AW/EP additive for mineral base oils, Wear, 290-291 , pp. 133-139, 2012, ISSN:0043-1648, WOS:000307032800016.
57. Pirvu, C., Manole, C.C., Stoian, A.B., Demetrescu, I., Understanding of electrochemical and structural changes of polypyrrole/polyethylene glycol composite films in aqueous solution, Electrochimica Acta, 56 (27) , pp. 9893-9903, 2011, ISSN:0013-4686, WOS:000297399100029.
58. 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.
59. Lungu, A., Şulcă, N.M., Vasile, E., Badea, N., Pârvu, 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.
60. Manole, C.C., Pirvu, C., Surface and electrochemical analysis for the understanding of TiO 2 nanopores/nanotubes changes in post-elaboration treatment, Surface and Interface Analysis, 43 (7) , pp. 1022-1029, 2011, ISSN:0142-2421, WOS:000291600900003.
61. Lacatusu, I., Badea, N., Murariu, A., Pirvu, C., Meghea, A., Vegetal nanoclusters in hybrid silica films prepared by sol-gel spin coating technique, Journal of Non-Crystalline Solids, 357 (7) , pp. 1716-1723, 2011, ISSN:0022-3093, WOS:000290006900018.
62. Mîndroiu, M., Pirvu, C., Ion, R., Demetrescu, I., Comparing performance of nanoarchitectures fabricated by Ti6Al7Nb anodizing in two kinds of electrolytes, Electrochimica Acta, 56 (1) , pp. 193-202, 2010, ISSN:0013-4686, WOS:000297399100029
63. 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
64. Pirvu, C., 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, Progress in Organic Coatings, 68 (4) , pp. 274-282, 2010, ISSN:0300-9440, WOS:000279237900003
65. Pirvu, C., Marcu, M., Banu, A., Deactivation of gold electrode at chlorophenols electrooxidation, Rev Chim-Bucharest, 61 (6) , pp. 585-589, 2010, ISSN: 00347752, WOS:000279757800015

66. Mindroiu, V.M., Pirvu, C.*, Popescu, S., Demetrescu, I., Polypyrrole electrodeposition on Ti6A17Nb alloy in aqueous and non-aqueous solutions, Rev Chim-Bucharest, 61 (4) , pp. 390-394, 2010, ISSN: 00347752, WOS:000278425100014
67. Popescu, S., Pirvu, C.*, Mindroiu, M., Manole, C., Demetrescu, I., Electrochemical synthesis and characterization of Ti modified electrodes with polypyrrole - polyethylene glycol hybrid coating, Rev Chim-Bucharest, 61 (3) , pp. 245-248, 2010, ISSN: 00347752, WOS:000276667000005
68. Demetrescu, I., Ionita, D., Pirvu, C., Portan, D., Present and future trends in TiO2 nanotubes elaboration, characterization and potential applications, Molecular Crystals and Liquid Crystals, 521 , pp. 195-203, 2010, ISSN:1542-1406, WOS:000278163100017
69. 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
70. Popescu, S., Pirvu, C.*, Mindroiu, M., Demetrescu, I., Enhancing the stability of PPy film on Ti by PEG incorporation, Molecular Crystals and Liquid Crystals, 522 , pp. 125-135, 2010, ISSN:1542-1406, WOS:000278163300015
71. Popescu, R., Pîrvu, C., Moldoveanu, M., Grote, J.G., Kajzar, F., Rau, I., Biopolymer thin films for optoelectronics applications, Molecular Crystals and Liquid Crystals, 522 , pp. 229-237, 2010, ISSN:1542-1406, WOS:000278163300024
72. Stefanescu, T., Manole, C., Parvu, C., Barbinta Patrascu, M.E., Tugulea, L., Supported phospholipid bilayers with chlorophyll for optoelectronic devices, Optoelectronics and Advanced Materials, Rapid Communications, 4 (1) , pp. 33-38, 2010, ISSN:1842-6573, WOS:000274804300008
73. Manole, C.C., Pirvu, C., Demetrescu, I., Evaluation of TiO2 nanotubes changes after ultrasonication treatment, Molecular Crystals and Liquid Crystals, 521 , pp. 84-92, 2010, ISSN:1542-1406, WOS:000278163100005
74. Mindroiu, M., Pirvu, C., Popescu, S., Demetrescu, I., Polypyrrole as conducting polymer coating on Ti6A17Nb alloy, Materiale Plastice, 46 (4) , pp. 394-398, 2009, ISSN:0025-5289, WOS:000274282300010
75. Comorosan, S, Kappel, W, Constantinescu, I, Gheorghe, M, Ionescu, E, Pirvu, C, Cinca, S, Cristache, L, Green light effects on biological systems: a new biophysical phenomenon, Journal of Biological Physics, 35 (3), pp. 265-277, ISSN: 0092-0606, WOS:000268069000006
76. Radovici, O., Banu, A., Pirvu, C., Micro reactor for chlorophenols electrocatalytic oxidation, ECS Transactions 16 (27) , pp. 1-9, 2009, ISSN:1938-5862,
77. 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
78. Pirvu, C.*, Mindroiu, M., Stancu, R., Bojin, D., Demetrescu, I., Scanning electronic microscopy in supporting electrochemical deposition and characterization of hybrid polymeric composite, Key Engineering Materials, 415 , pp. 69-72, 2009, ISSN:1662-9795, WOS:000278916000018

79. Pirvu, C*., Mindroiu, M., Demetrescu, I., One-step potentiostatic electrodeposition of polypyrrole coatings on zinc coated steel surfaces, Key Engineering Materials, 415 , pp. 65-68, 2009, ISSN:1662-9795, WOS:000278916000017
80. Manole, C.C., Pirvu, C., Demetrescu, I., TiO2: From nanotubes to nanopores by changing the anodizing voltage in floride-glycerol electrolyte, Key Engineering Materials, 415 , pp. 5-8, 2009, ISSN:1662-9795, WOS:000278916000002
81. 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
82. Marcu, M., Pirvu, C., Banu, A., Vulpasu, E., Effect of chlorine substitute on phenols electrooxidation studied by cyclic voltammetry, Rev Chim-Bucharest, 59 (8) , pp. 867-870, 2008, ISSN: 00347752, WOS:000260067700007
83. Man, I., Pirvu, C., Demetrescu, I., Enhancing titanium stability in Fusayama saliva using electrochemical elaboration of TiO2 nanotubes, Rev Chim-Bucharest, 59 (6) , pp. 615-617, 2008, ISSN: 00347752, WOS:000257604600002
84. 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
85. 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. 1910-1918, 2007, ISSN:0013-4686, WOS:000243647700010
86. Banu, A., Marcu, M., Radovici, O., Pirvu, C., Vasilescu, M., Electrodissolution studies of three aluminum alloys in acid, neutral and alkaline solutions, Revue Roumaine de Chimie, 51 (3) , pp. 193-198, 2006, ISSN:0035-3930, WOS:000240447100005
87. Heras, M.A., Lupu, S., Pigani, L., Pirvu, C., Seeber, R., Terzi, F., Zanardi, C., A poly(3,4-ethylenedioxythiophene)-poly(styrene sulphonate) composite electrode coating in the electrooxidation of phenol, Electrochimica Acta, 50 (7-8) , pp. 1685-1691, 2005, ISSN:0013-4686, WOS:000226969600029
88. Pîrvu, C*., Brillas, E., Radovici, O., Banu, A., Degradarea electrochimică a clorofenolilor prin oxidare anodică în prezenţă 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
89. 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

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