

Curriculum vitae Europass



Informații personale

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Naționalitate(-tăți) Română
Anul nașterii [REDACTED]
Sex Masculin

Experiența profesională

Perioada	23 Aprilie 1990 - prezent
Funcția sau postul ocupat	Profesor universitar (oct. 2004-prezent), Conferențiar (oct. 2001 – sept 2004), S.L. (oct. 1996 – sept 2001), Asistent (apr. 1990 – sept 1996). Cursuri, laboratoare, seminarii, proiecte, tutoriale în limba româna și în limba engleză la FCASM și la Faculty of Engineering in Foreign Languages. Conducător de doctorat din 2010, 8 doctoranzi în stagiul și 1 doctorand în cotutela. Administrativ: Prodecan 2004-2005.
Activități și responsabilități principale	Învățământ și cercetare; ca Prodecan responsabil cu cercetarea și problemele studențești
Numele și adresa angajatorului	Universitatea Politehnica din București, Str. Splaiul independenței 313, București, sector 6
Tipul activității sau sectorul de activitate	Învățământ superior și cercetare
Perioada	5 septembrie 1988 – 22 februarie 1990
Funcția sau postul ocupat	Stagiatura obligatorie în producție
Activități și responsabilități principale	Inginer tehnolog și cercetător în programul de elaborare a catalizatorului de depoluare tricomponent Șef secție Agenți de lucru. Sinteze organice fine pentru industria farmaceutică și pentru aditivi folosiți în băile de galvanizare
Numele și adresa angajatorului	1. Dacia Groupe Renault - Automobile Dacia, Str. Uzinei nr 1, Mioveni, jud. Argeș, Romania 2. S.C. Sintofarm S.A., Strada Ziduri Între Vii, Bucuresti Sectorul 2, Romania
Tipul activității sau sectorul de activitate	Industria construcțiilor de mașini și industria chimică

Educație și formare

Perioada	Sept. 1997 - August 1998
Calificarea / diploma obținută	Stagiu Postdoctoral NATO/Royal Society
Disciplinele principale studiate / competențe profesionale dobândite	- Metode electrochimice de detecție în câmpuri de înalta tensiune, Instrumentație neconvențională. - Lab on a Chip. Stagiu postdoctoral de cercetare finalizat cu succes și raportul de cercetare depus la termenul stabilit.
Numele și tipul instituției de învățământ / furnizorului de formare	University of Manchester Institute of Science And Technology, Dept. of Instrumentation and Analytical Sciences, Anglia;
Nivelul în clasificarea națională sau internațională	GB 5A (maxim posibil)

<p>Perioada Calificarea / diploma obținută</p> <p>Disciplinele principale studiate / competențe profesionale dobândite</p> <p>Numele și tipul instituției de învățământ / furnizorului de formare</p> <p>Nivelul în clasificarea națională sau internațională</p> <p>Perioada Calificarea / diploma obținută</p> <p>Disciplinele principale studiate / competențe profesionale dobândite</p> <p>Numele și tipul instituției de învățământ / furnizorului de formare</p> <p>Nivelul în clasificarea națională sau internațională</p> <p>Perioada Calificarea / diploma obținută</p> <p>Disciplinele principale studiate / competențe profesionale dobândite</p> <p>Numele și tipul instituției de învățământ / furnizorului de formare</p> <p>Nivelul de clasificarea</p> <p>Limba(i) străină(e) cunoscută(e)</p> <p>Autoevaluare Nivel european (*)</p>	<p>Sept. 1992 - Sept. 1995; Doctor in Instrumentație și științe analitice (PhD in Instrumentation and Analytical Sciences). Titlul de PhD echivalat cu Doctor in Chimie - specializarea Electrochimie - atestat echivalare M.I. seria B, nr. 0000080- serie Secretariatul de stat nr. 56 din 27.02.1997 – acordat de Ministerul Învățământului, Bucuresti, Romania, in 1997. Examenul de doctorat susținut în ședința publică din 25.08.1995 și trecut cu calificativul maxim (passed grade A, no corrections); Șef comisie examinare: Prof.Dr.A. Townsend, (Hull University), Editor Șef Analytica Chimica Acta. - Instrumentație și Științe Analitice, Electrochimie, Electroanalitică, Analiză prin injectare în flux</p> <p>University of Manchester Institute of Science And Technology, Dept of Instrumentation and Analytical Sciences, Anglia. GB 5A (maxim posibil)</p> <p>Sept. 1991 - Sept. 1992 Master of Science in Environmental and Pollution Control acordat de University of Manchester, Anglia in 1993; Masterat echivalat cu Studii aprofundate in domeniul Chimiei, specializarea Controlul Poluării și Protecția Mediului Înconjurător, atestat echivalare M.I., seria B, nr. 0000079 - serie Secretariatul de stat nr. 55 din 27.02.1997 – acordat de Ministerul Învățământului, București, Romania, in 1997. Nota la examenul de dizertație în Anglia: Passed, Grade A (calificativul maxim); - Protecția mediului și controlul poluării. (4 pachete modulare, 16 discipline din domeniul protecției mediului, ecologiei, legislația de mediu, economie – terminate cu examene scrise și orale) urmate de 6 luni de cercetare intensă în laborator, finalizată cu dizertație. Dizertație cu evaluare internă și externă, conform standardelor britanice. Procent de absolvire 23 absolvenți din 52 înscriși!</p> <p>University of Manchester School of Biological Science, Manchester, Anglia GB 5A (maxim posibil)</p> <p>Sept 1983 - iul. 1988 Diplomat inginer. Medie generală (excluzând examenul de diplomă): 9,96 (șef de promoție pe țară); Examenul de diplomă: 10 Peste 44 de discipline din domeniul științelor exacte, ingineriei, social și de management</p> <p>Institutul Politehnic Bucuresti, Facultatea de Tehnologie Chimică, Secția: Tehnologie Chimică Anorganică Top 5 Universități din țară</p>
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		Înțelegere		Vorbire				Scriere		
		Ascultare	Citire	Participare la conversație		Discurs oral		Exprimare scrisă		
Engleză	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
Franceză	C2	Utilizator experimentat	C2	Utilizator experimentat	B1	Utilizator independent	A2	Utilizator elementar	A2	Utilizator elementar
Germană	C1	Utilizator experimentat	C1	Utilizator experimentat	B1	Utilizator independent	B1	Utilizator independent	A2	Utilizator elementar
Italiană	B1	Utilizator independent	B2	Utilizator independent	A2	Utilizator elementar	A2	Utilizator elementar	A1	Utilizator elementar

- Cambridge Certificate IELTS nr. 012/01.02.1991
- Traducător - interpret autorizat și certificat de Ministerul Justiției (1996-2001) (i.d.#491/1996, reconfirmat i.d.#278112.12.2000).
Examen de certificare susținute și trecute la centrul de perfecționare al Ministerului culturii, Comisia centrală pentru acordarea certificatului de traducător.
- Traducător certificat pentru engleză, domeniul Juridic - Certificat nr.531/2000
- Traducător certificat pentru germană, domeniul Tehnic -Chimie - Certificat nr. 215/2000.
- Traducător certificat pentru franceză, domeniul Tehnic -Chimie - Certificat nr. 198/2000

Competențe și abilități sociale	<ul style="list-style-type: none"> - Experiență de peste 16 ani în poziții de management universitar individuale și colective (Prodecan, Consiliul Facultății, Membru deplin în Consiliul Facultății/Profesoral din 2000, Catedră, Departament); - Spirit de echipă – în majoritatea pozițiilor avute m-am integrat fără dificultate în cele mai variate echipe și medii (interne sau externe); participant la numeroase proiecte complexe de cercetare cu parteneri multipli (CEEX, PN2, Inovare, Posdru etc.). - Negociere și mediere, necesare pentru evitarea sau aplanarea unor fricțiuni apărute în echipe de lucru eterogene
Competențe și aptitudini organizatorice	<ul style="list-style-type: none"> - Director/Responsabil Proiect pentru un număr de peste 19 proiecte ce necesită aptitudini de proiect manager. - Proiecte complexe de cooperare cu terți (mediul industrial, mediul social, training-uri etc.). - Supravegherea și relațiile de legătură pe parcursul a peste 3 ani de consolidarea a clădirii F prin proiect cu Banca Mondială (laboratoarele de electrochimie, coroziune, procese electrochimice); - Scrierea CS pentru logistică necesară bunei funcționări a laboratoarelor; - Evidența computerizată, BD.
Competențe și aptitudini tehnice	<ul style="list-style-type: none"> - Menținerea laboratoarelor (intretinere/depanare/reconditionare); - Construirea de sisteme și interfețe de achiziție digitală asistată de calculator a datelor furnizate de sistemele electrochimice de analiză; - Construirea de convertoare curent-tensiune bazate pe amplificatoare operaționale 741N, convertoare capabile să măsoare curenți de ordinul picoamperilor; - Construirea unui sistem computerizat de evaluare a coroziunii de contact în aliajele de uz stomatologic; - Construirea unui microreactor electrochimic de sinteză a hipocloritului de sodiu; - Construirea unui dispozitiv opto-electronic de testare a gradului de lăcuire la depunerile catodice; - Construirea unui disp. de testare accelerată la desprinderea catodică a acoperirilor anticorozive.
Competențe și aptitudini de utilizare a calculatorului	<ul style="list-style-type: none"> - Stăpânire fără probleme a pachetelor MsOffice, ACD Systems, Zview, Intel QX3, Coatings 4.1, ElectroCells, Virtual CycVoltam, ChemWin, Electronic WorkBench, Adobe, MathCad, SolvEq etc. - Creator de programe pentru studenți pentru predarea interactivă: VisualGalvanic. - Internet și poșta electronică (pachete Outlook, Pegasus Mail, WebMail etc.) - Experiență în depanare și configurare rețele de calculator; - Experiență în depanare hardware și configurare calculatoare în sistemele Windows și Linux
Competențe și aptitudini artistice	Proiectare asistată de Calculator (ECAD), Ikebana.
Alte competențe și aptitudini	Hobby: Go, tenis de masă, literatură
Permis(e) de conducere	Categorii B de peste 35 ani.
Activitate didactică	Cursuri, laboratoare, seminarii, tutoriale proiecte predate la materiile: Electrochimie, Electrochimie aplicată, Coroziune și Protecție anticorozivă, Tehnologie electrochimică, Reactoare Electrochimice, Baterii și Acumulatori, Pile de combustie, Electrochemical Conversion and Storage of Electricity using Electrochemical Devices, Electrozi și microelectrozi, Spectroscopie de impedanță electrochimică, Procese electrochimice aplicate în protecția mediului, Metode și tehnici electrochimice de depoluare, Știința materialelor, Biomateriale etc.
Domenii de cercetare abordate	Electrochimie, Coroziune, Metode de evaluare a coroziunii, Electroliza, Sinteze electrochimice, Baterii și Acumulatori, Pile de combustie de tip PEM și SOFC, Vehicule electrice, Microelectrozi, Spectroscopie de impedanță electrochimică, Procese electrochimice aplicate în protecția mediului, Metode și tehnici electrochimice de depoluare, Știința materialelor, Coroziunea Biomaterialelor, Coroziunea indusă microbiologic (MIC), sisteme fotovoltaice etc.
Publicații	<ul style="list-style-type: none"> - 15 manuale universitare, îndrumare de laborator, cărți, monografii ca autor unic sau coautor; - 5 invenții (4 acordată și 1 sub evaluare); - peste 100 articole publicate în reviste cotate ISI sau indexate în baze de date internaționale; - peste 100 de articole publicate în volumele recenzate ale unor conferințe internaționale; - 19 contracte naționale sau internaționale (unele cu bugete multianuale ca director / responsabil / coordonator / Manager și alte 28 ca membru în echipa de cercetare
Informații suplimentare	Referințele pot fi furnizate la cerere

LISTA DE LUCRARI PUBLICATE

Prof.dr.ing. **D Ă N U Ț - I O N E L V Ă I R E A N U**

Universitatea Politehnica din București
Facultatea Chimie Aplicată și Știința Materialelor
Catedra Chimie Fizica Aplicata si Electrochimie

A. TEZA DE DOCTORAT

- A1 - Titlul de **Doctor in Instrumentatie si stiinte analitice (PhD in Instrumentation and Analytical Sciences)** conferit de către University of Manchester Institute of Science And Technology, Dept of Instrumentation and Analytical Sciences, 12 decembrie 1995;

Teza de doctorat intitulata "Dispersion Assessment in a Flow Injection Analysis System without Chemical Reaction" a fost sustinuta public si examenul de doctorat trecut in sedinta publica din 25.08.1995 cu *calificativul maxim (passed grade A, no corrections)*;
Presedinte comisie examinare: Prof.Dr.A. Townsend, (Hull University), Editor Sef Anal.Chimica Acta

Titlul de PhD in Instrumentation and Analytical Sciences a fost echivalat de catre Ministerul Invatamantului cu cu titlul de Doctor in Chimie - specializarea Electrochimie - atestat echivalare M.I. seria B, nr. 0000080- serie Secretariatul de stat nr. 56 din 27.02.1997 – eliberat de Ministerul Invatamantului, Bucuresti, Romania, in 1997.

B. ARTICOLE (Ba, Bb, Bc)

(Ba) *Lucrari publicate in reviste de specialitate indexate ISI, BDI+, BD*

- Ba1 Peter R. Fielden, Thomas McCreedy, Nigel Ruck and **Danut-Ionel Vaireanu**, *Amperometric Arrays in Flowing Solution Analysis*, Analyst, May 1994, vol. 119, p.953-958, ISSN: 0003-2654. (cotata ISI) WOS:A1994NR76500034 **zona rosie Q1**
- Ba2 **Danut-Ionel Vaireanu**, Nigel Ruck and Peter R. Fielden, *Predictive model for coulometric operation in a thin-layer amperometric flow cell*, Analytica Chimica Acta, vol. 306, April 28, 1995, p.115-122, ISSN: 0003-2670. (cotata ISI) WOS:A1995QW82600014 **zona rosie Q1**
- Bb1 P.R. Fielden, S.J. Baldock, N.J. Goddard, L.W. Pickering, J.E. Prest, R.D. Snook, B.J. Treves Brown, and **D.I. Vaireanu**, *A Miniaturized Planar Isotachophoresis Separation Device for Transition Metals with integrated conductivity detection*, Proc. uTAS '98, Editors. D.J. Harrison and A. van den Berg, 13-16 October 1998, Banff, Canada, p. 323-326. ISI WOS:000085854700076
- Bb2 S.J. Baldock, N. Bektas, P.R. Fielden, N.J. Goddard, L.W. Pickering, J.E. Prest, R.D. Snook, B.J. Treves Brown, and **D.I. Vaireanu**, *Isotachophoresis on Planar Polymer Substrates*, Proc. uTAS '98, Editors. D.J. Harrison and A. van den Berg, 13-16 October 1998, Banff, Canada, p. 359-362. ISI WOS:000085854700085
- Ba3 **Danut-Ionel Vaireanu**, Peter R. Fielden, Richard D. Snook, *Isodispersion curves in flow injection analysis*, Analytical Communication (of London) vol. 12, 1999, p.403-406, ISSN: 1359-7337. (cotata ISI) WOS:000083961600012 **zona rosie Q1**
- Ba4 **Danut-Ionel Vaireanu**, Peter R. Fielden, Richard D. Snook, *Similarity and scaling in flow injection analysis*, Analytical Communication (of London), vol. 12, 1999, p.407-410, ISSN: 1359-7337. (cotata ISI) WOS:000083961600011 **zona rosie Q1**
- Ba5 **Danut-Ionel Vaireanu**, *A computer controlled injection system for environmental analysis*, Science and Technology of Environmental Protection, vol.7, no.1, 2000, p. 20-28, ISSN 1221- 6909.
- Ba6 **Danut-Ionel Vaireanu**, Peter R. Fielden, Bernard J. Treves Brown *A capacitively Coupled Conductivity Detector for Electroseparations*, Measurement Science and Technology vol. 11, no. 3, March 2000, p.244-251, ISSN: 0957-0233 ISI WOS:000086238900011 **zona rosie Q1 la data publicarii (Q1 in 2000 (7/58) in domeniul Engineering (miscellaneous)**
- Ba7 **Danut-Ionel Vaireanu**, *Evaluarea dispersiei în celule electrochimice modulare de volum variabil utilizate în sisteme de analiză prin injectare în flux*, Rev. Chimie, vol. 51, no. 10, 2000, p.758-762, ISSN 0034 - 7752 (cotata ISI) WOS:000167138700008
- Ba8 **Danut-Ionel Vaireanu**, *Electrochemical platinum coating of a disposable multielectrode array*, Metalurgia International, vol. V, no 4, 2000, p.37-41 ISSN 1582-2214.

- Ba9 **Danut-Ionel Vaireanu**, *Model de simulare numerică a peak-urilor în sisteme de analiză prin injecție în flux*, Rev. Chimie, vol. 51, no. 11, 2000, p.885-888, ISSN 0034 - 7752. (cotata ISI) WOS:000167138900011
- Ba10 **Danut-Ionel Vaireanu** and Adriana Simion, *A novel silver/silver Chloride - saturated gel reference electrode for electrochemical measurements used in connection with pollution monitoring systems*, Science and Technology of Environmental Protection, vol.7, no.2, 2000, p.31-36, ISSN 1221- 6909. BDI
- Ba11 **Danut-Ionel Vaireanu**, *Achiziția digitală a semnalelor furnizate de celulele electrochimice prin intermediul instrumentelor virtuale*, Rev. Chimie, vol. 51, no. 12, 2000, p.983-985 ISSN 0034 – 7752 (cotata ISI) WOS:000167139000016
- Ba12 **Danut-Ionel Vaireanu**, *Evaluarea efectului de memorie în acumulatorii Ni-Cd*, Rev. Metalurgia, vol. 52, nr.12., 2000, p.20-28, ISSN 0461-9579. BDI
- Ba13 **Danut-Ionel Vaireanu** și Adriana Simion, *Revitalizarea electrozilor de referință detipul Ag/AgCl*, Rev. Chimie, vol. 52, no. 1-2, 2001, p. 34-37 ISSN 0034 - 7752. (cotata ISI) WOS:000168218700008
- Ba14 **Danut-Ionel Vaireanu**, *Model operațional de exploatare optimă a instalațiilor de rafinare electrolitică a cuprului*, Rev. Metalurgia, vol. 53, nr. 1, 2001, p.28-37, ISSN 0461-9579.
- Ba15 **Danut-Ionel Vaireanu**, *Electric vehicles - a possible future solution for zero emission vehicles*, Metalurgia International, vol. VI, no.1, 2001, p.37-42, ISSN 1582-2214. (cotata ISI)
- Ba16 **Danut-Ionel Vaireanu**, *Considerații privind modelarea procesului de extracție electrolitică a zincului. Partea I. Modelul fizic al reactorului de extracție electrolitică*, Rev. Metalurgia vol.53, nr. 3, 2001, p.18-26, ISSN 0461-9579.
- Ba17 **Danut-Ionel Vaireanu**, *Black platinum coating of platinum wire electrodes used in connection with a flow-through conductivity cell*, Metalurgia International, vol. VI, no.2, 2001, p. 18-24, ISSN 1582-2214. (cotata ISI)
- Ba18 **Danut-Ionel Vaireanu**, *Electrochemical cleaning of copper subjected to nickel plating*, Metalurgia International, vol. VI, no.2, 2001, p. 25-30, ISSN 1582-2214. (cotata ISI)
- Ba19 **Danut-Ionel Vaireanu**, Cosmin Olteanu și Adriana Simion, *Celulă electrochimică modulară utilizată în analiza prin injectare în flux*, Rev. Chimie, vol. 52, no.3, 2001, p.130-133, ISSN 0034 - 7752. (cotata ISI) WOS:000168791200008
- Ba20 **Danut-Ionel Vaireanu**, *Considerații privind modelarea procesului de extracție electrolitică a zincului. Partea II. Aplicație de calcul privind predimensionarea reactorului de extracție electrolitică*, Rev. Metalurgia vol. 53, nr.4, 2001, p.25-33, ISSN 0461-9579.
- Ba21 **Danut-Ionel Vaireanu**, P.R. Fielden and R.D. Snook *Electrochemical Cells Of Variable Configuration Used In Conection With A Flow Injection Analysis System*, Scientific Bulletin of U.P.B., Series B, vol. 63, no.3, 2001, p. 299-308, ISSN 1454-2331. (ISI)
- Ba22 **Danut-Ionel Vaireanu**, *A novel miniaturised electrochemical reactor for sterilisation of organic fluids loaded with biologically active material*, Science and Technology of Environmental Protection, vol. 8, nr.1, 2001, p. 34-39, ISSN 1221- 6909. BDI
- Ba23 **Danut-Ionel Vaireanu** and Costin Constantinescu, *Electrochemical Removal of Cupric Ions from Industrial Waste Water*, Science and Technology of Environmental Protection, vol. 8, nr.1, 2001, p.50-55, ISSN 1221- 6909. BDI
- Ba24 **Danut-Ionel Vaireanu**, Adriana Simion and Mirela Colesa, *A disposable screen printed silver/silver chloride electrode array for pollution monitoring systems*, Science and Technology of Environmental Protection, vol. 9, nr.2, 2002, p.17-22, ISSN 1221- 6909. BDI
- Ba25 Maria Mihailescu, Adrian Mihailescu and **Danut-Ionel Vaireanu** *A novel electrochemical array used for mapping the water infiltration in buildings*, Science and Technology of Environmental Protection, vol. 10, nr.1, 2003, p.12-16, ISSN 1221- 6909. BDI
- Ba26 Maria Mihailescu, Adrian Mihailescu and **Danut-Ionel Vaireanu** and Mirela Colesa, *Economic efficiency of the electrochemically induced coagulation*, Science and Technology of Environmental Protection, vol. 10, nr.1, 2003, p.17-20, ISSN 1221- 6909. BDI
- Ba27 **Danut-Ionel Vaireanu** *Environmental Risks associated with Energy Systems based on Fossil Fuels and Nuclear Fuels*, Science and Technology of Environmental Protection, vol. 11, nr.1, 2004, p.43-47, ISSN 1221- 6909. BDI
- Ba28 **Danut-Ionel Vaireanu** *Environmental Risks associated with Renewable Energy Systems*, Science and Technology of Environmental Protection, vol. 11, nr.2, 2004, p.126-131, ISSN 1221- 6909. BDI
- Ba29 C. Muscalu, R. David, S.A. Garea, A.C. Nichifor, **D.I. Vaireanu**, S.I. Voicu, G. Nechifor, *Polysulfone-Polypyrrole Ionic Conductive Composite Membranes Synthesized by Phase Inversion with Chemical Reaction*, CAS 2009 Proceedings of The International Semiconductor Conference, October 12-14, Sinaia, Romania, IEEE (Institute of Electronics and Engineering) Publishing House, New Jersey, USA, vol. 1, pp. 557-560, IEEE Catalog Number: mCFP08CAS-PRT, ISBN: 978-1-4244-2004-9, ISSN: 1545-827X, indexat ISI. WOS:000279558600117

- Ba30 **Danut-Ionel Vaireanu** and Simona Caprarescu *Trends And Prospects For The Use Of Biodiesel Products* Science and Technology of Environmental Protection, vol. 12, nr.1, 2005, p.31-36, ISSN 1221- 6909. BDI
- Ba31 **Danut-Ionel Vaireanu**, Simona Caprarescu, Anca Cojocaru And Ioana Maior *Revitalisation of Sealed Lead Acid Rechargeable Batteries*, Science and Technology of Environmental Protection, vol. 12, nr.1, 2005, p.50-56, ISSN 1221- 6909. BDI
- Ba32 **Danut-Ionel Vaireanu**, *Ion Selective Electrodes for Environmental Analysis*, Science and Technology of Environmental Protection, vol. 12, nr.2, 2005, p.87-97, ISSN 1221- 6909. BDI
- Ba33 **Danut-Ionel Vaireanu**, Mirela Stanciu, Simona Caprarescu, *Sistem electrochimic de testare accelerată pentru desprinderea catodică a acoperirilor pentru conducte îngropate*, Revista de Chimie, nr. 3, 2006, pp. 258-260, ISSN 0034 – 7752 (cotata ISI) WOS:000237578100007
- Ba34 Daniela Simina Ștefan, M. Ștefan and **Danut-Ionel Vaireanu**, *Removal of Cu(II) and Zn(II) Ions on Corn Cobs*, Rev. Roum. Chim., 2006, 51(6), 541-546, ISSN 0035-3930, (cotata ISI) WOS:000242600800010
- Ba35 A.Cojocaru, I.Maior, **D-I.Vaireanu**, G.Badea, S.Caprarescu, Aniline Electrooxidation on *Semiconductor Electrodes and Electrochemical Behavior of Polyaniline Obtained Films*, Analele Univ. din Oradea, fasc. Chimie, Vol. XIV, 2007, pp. 80-84, ISSN 1224-7626 – revista indexata in baza de date internationala *Chemical Abstracts*
- Ba36 **D. I. Văireanu**, A.Cojocaru, I.Maior, S. Caprarescu, *Standardizarea bateriilor*, Revista Standardizarea, nr. 1, ianuarie 2008, pp. 31-36, Ed. ASRO, Bucuresti, ISSN 1220-2061
- Ba37 I.Maior, G.Badea, A.Cojocaru and **D-I.Vaireanu**, *The Corrosion of Zinc Chloride Solutions and the Inhibition Effect of Urea and Thiourea/Coroziunea zincului în soluții de clorură de zinc și efectul inhibitor al ureei și tioureei*, Coroziune și Protecție Anticorozivă-Corrosion and Anticorrosive Protection, Vol. III, 2008, Nr. 3, pp. 36-40, ISSN 1842-0346
- Ba38 **D.-I. Vaireanu**, A. Cojocaru, I. Maior, and S. Caprarescu, *Practical Considerations Regarding the Measurement of Ionic Conductivity by EIS in Conductive Polymers*, Chem. Bull. "POLITEHNICA" Univ. of Timisoara, Series Chemistry and Environmental Engineering, Volume 53(67), 1-2, 2008, pp. 258-261, ISSN 1224-6018, CNCSIS B+ Category Journal, http://www.chim.upt.ro/buletin_chimie/index.htm
- Ba39 Voicu, S. I., Stanciu, N. D. ; Nechifor, A. C. ; **Vaireanu, D. I.**; Nechifor, G. Polysulfone-Doped Polyaniline Composite Membranes. Synthesis And Electrochemical Characteristics, Ieee, Cas: 2008 International Semiconductor Conference, Sinaia, Romania Oct 13-15, 2008, DOI:10.1109/Smicnd.2008.4703392 , 2008, p.245 WOS:000267590800048
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E. Inventii si inovatii

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- P1 Brevet de inventie nr. înregistrare **RO 116129 B** / 28.09.2000 - **Vaireanu Danut Ionel** - “*Procedeu si dispozitiv pentru polarizare electroodica, independenta, cu baleiere simultana in sistemele electrochimice de analiza cu injectie in flux*” - Oficiul de stat pentru inventii si marci, Publicat în Buletinul Oficial de proprietate industrială - Sectiune Inventii, nr. 10, 2000.
- P2 Brevet de inventie nr. înregistrare **RO 116130 B** / 28.09.2000 - **Vaireanu Danut Ionel** - “*Metodă si dispozitiv pentru masurarea vitezei radiale a fluidelor in sistemele electrochimice de analiza cu injectie in flux*” - Oficiul de stat pentru inventii si marci, Publicat în Buletinul Oficial de proprietate industrială - Sectiune Inventii, nr. 10, 2000.
- P3 Brevet de inventie nr. înregistrare **RO 116304 B** /27.11.2000 - **Vaireanu Danut Ionel** - “*Procedeu electrochimic pentru obtinerea microsistemelor tubulare pozitionate in aranjamente tridimensionale*” - Oficiul de stat pentru inventii si marci, Publicat în Buletinul Oficial de proprietate industrială - Sectiune Inventii, nr. 12, 2000.
- P4 Brevet de inventie nr. înregistrare **RO 126439 B1** /29.03.2013- **Danut-Ionel Vaireanu**, Corina Rradulescu, Mihai Victor Mircea Macavescu, Elisabeta Pasculete, Ioana Predescu - „Dispozitiv și metodă pentru controlul și monitorizarea corozionii, utilizând un traductor rezistiv – diferențial în conjuncție cu un sistem de achiziție în timp real a datelor” Publicat în Buletinul Oficial de proprietate industrială - Sectiune Inventii, nr. 3/2013.

