

Curriculum vitae Europass



Informații personale

Nume / Prenume **Ioan Stefan VOICU**
Adresă(e) Str. Gheorghe Polizu 1-7, 011061 București
Telefon(oane)
E-mail(uri)
Naționalitate(-tăți) Romana
Data nașterii

Experiența profesională

Perioada	Sep. 2019 - Prezent
Funcția sau postul ocupat	Profesor Universitar
Activități și responsabilități principale	Activitate didactica la Departamentul de Chimie Analitica si Ingineria Mediului, activitate de cercetare in domeniul materialelor si proceselor membranare, Project Team Leader in cadrul Advanced Polymer Materials Group APMG-UPB
Numele și adresa angajatorului	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor www.chim.upb.ro , Str. Gheorghe Polizu 1-7, 011061 Bucuresti, Romania
Tipul activității	Universitate publica, invatamant, cercetare
Perioada	Oct. 2017 – Sep. 2019
Funcția sau postul ocupat	Conferențiar Universitar
Activități și responsabilități principale	Activitate didactica la Departamentul de Chimie Analitica si Ingineria Mediului, activitate de cercetare in domeniul materialelor si proceselor membranare, Project Team Leader in cadrul Advanced Polymer Materials Group APMG-UPB
Numele și adresa angajatorului	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor www.chim.upb.ro , Str. Gheorghe Polizu 1-7, 011061 Bucuresti, Romania
Tipul activității	Universitate publica, invatamant, cercetare
Perioada	Oct. 2011 – Sep. 2017
Funcția sau postul ocupat	Sef de Lucrari
Activități și responsabilități principale	Activitate didactica la Catedra de Chimie Analitica si Analiza Instrumentala, activitate de cercetare in domeniul materialelor si proceselor membranare
Numele și adresa angajatorului	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor www.chim.upb.ro , Str. Gheorghe Polizu 1-7, 011061 Bucuresti, Romania

Tipul activității	Universitate publica, invatamant, cercetare
Perioada	Oct. 2009 – Sep. 2011
Funcția sau postul ocupat	Asistent Universitar
Activități și responsabilități principale	Activitate didactica la Catedra de Chimie Analitica si Analiza Instrumentala, activitate de cercetare in domeniul materialelor si proceselor membranare
Numele și adresa angajatorului	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor www.chim.upb.ro , Str. Gheorghe Polizu 1-7, 011061 Bucuresti, Romania
Tipul activității	Universitate publica, invatamant, cercetare
Perioada	Sep. 2006 – Sep. 2009
Funcția sau postul ocupat	Cercetator stiintific
Activități și responsabilități principale	Activitate de cercetare in domeniul materialelor si proceselor membranare
Numele și adresa angajatorului	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor www.chim.upb.ro , Str. Gheorghe Polizu 1-7, 011061 Bucuresti, Romania
Tipul activității	Universitate publica, invatamant, cercetare
Perioada	Apr. 2006 – Dec. 2007
Funcția sau postul ocupat	Cercetator stiintific
Activități și responsabilități principale	Activitate de cercetare in domeniul senzorilor – matrici polimerice compozite senzitive pentru senzori de gaze
Numele și adresa angajatorului	Honeywell Romania SRL Sensors and Wireless Laboratory Bucharest www.honeywell.ro , Calea Floreasca 49B, 014462 Bucuresti, Romania
Tipul activității	Companie multinationala, cercetare
Perioada	Ian. 2006 – Oct. 2006
Funcția sau postul ocupat	Asistent de cercetare
Activități și responsabilități principale	Activitate de cercetare in domeniul sintezei si caracterizarii polimerilor imprimati molecular
Numele și adresa angajatorului	INCDCP-ICECHIM Departamentul polimeri www.icechim.ro , Splaiul Independentei 202, Bucuresti, Romania
Tipul activității	Institut public, cercetare
Perioada	Noi. 2003 – Oct. 2004
Funcția sau postul ocupat	Reprezentant de marketing si vanzari
Activități și responsabilități principale	Reprezentant de marketing si vanzari pentru firmele General Electric Plastics, General Electric – Bayer Silicones, Du Pont de Nemour, Avantec si Basell Polyolefines
Numele și adresa angajatorului	AECTRA SRL www.aectra.ro , Sos Odai 341-345, 013604 Bucuresti, Romania
Tipul activității	Societate multinationala, vanzari

Educație și formare

Perioada	Iul. 2016
Calificarea / diploma obținută	Abilitare in domeniul Inginerie Chimica , Nr. 4835/11.08.2016 emis de Ministerul Educatiei Nationale si Cercetarii Stiintifice

Disciplinele principale studiate / competențe profesionale dobândite	Teza de Abilitare 'Contributions to the field of composite and derivatized polymeric membrane materials'
Numele și tipul instituției de învățământ	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor
Perioada	Apr. 2010 – Mar. 2013
Calificarea / diploma obținută	Stagiu postdoctoral
Disciplinele principale studiate / competențe profesionale dobândite	Titlul temei de cercetare: Nanoateriale membranare pe baza de polimeri conductivi si nanotuburi de carbon
Numele și tipul instituției de învățământ	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor
Perioada	Noi. 2005 – Sep.2008
Calificarea / diploma obținută	Doctorat/Diploma de doctor
Disciplinele principale studiate / competențe profesionale dobândite	Titlul tezei de doctorat: Materiale polimerice functionalizate cu selectivitate dirijata Conducator stiintific: Prof. Dr. Ing. Gheorghe NECHIFOR
Numele și tipul instituției de învățământ	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor
Perioada	Oct. 2005 – Iul. 2007
Calificarea / diploma obținută	Masterat/Diploma de master
Disciplinele principale studiate / competențe profesionale dobândite	Titlul lucrarii de dizertatie: Matrici polimerice compozite pe baza de anilina si amino nanotuburi de carbon pentru detectie de dioxid de carbon Conducator stiintific: Prof. Dr. Ing. Gheorghe NECHIFOR
Numele și tipul instituției de învățământ	Universitatea Politehnica Bucuresti Facultatea de Chimie Aplicata si Stiinta Materialelor
Perioada	Oct. 2000 – Iul. 2005
Calificarea / diploma obținută	Inginer chimist – Tehnologia compusilor organici/Diploma de inginer
Disciplinele principale studiate / competențe profesionale dobândite	Titlul lucrarii de diploma: Sinteza de liganzi macroheterociclici Conducator stiintific: S.I. Dr. Ing. Cistian SIMION
Numele și tipul instituției de învățământ	Universitatea Politehnica Bucuresti Facultatea de Chimie Industriala
Perioada	14-19 Iunie 2010
Calificarea / diploma obținută	Diploma de participare
Disciplinele principale studiate / competențe profesionale dobândite	A XXVII-a Scoala de vara a Societatii Europene de Membrane, Membrane pentru procese de nanofiltrare
Numele și tipul instituției de învățământ	Universitatea Politehnica Bucuresti, Romania Facultatea de Chimie Aplicata si Stiinta Materialelor
Perioada	7-16 Aprilie 2010
Calificarea / diploma obținută	Diploma de participare
Disciplinele principale studiate / competențe profesionale dobândite	Nanomemcourse – Nanomaterials for water and health (organizat de European Membrane Society si Euromemhouse)
Numele și tipul instituției de învățământ	Twente University, Enschede, Netherlands Membrane technology group
Perioada	7-11 Septembrie 2008
Calificarea / diploma obținută	Diploma de participare

Disciplinele principale studiate / competențe profesionale dobândite	A XXV-a Scoala de vara a Societatii Europene de Membrane, Membrane pentru procese de nanofiltrare
Numele și tipul instituției de învățământ	Katholieke Universiteit Leuven, Belgia Centre for Surface Chemistry and Catalysis
Perioada	10-14 Septembrie 2007
Calificarea / diploma obținută	Diploma de participare
Disciplinele principale studiate / competențe profesionale dobândite	A XXIV-a Scoala de vara a Societatii Europene de Membrane, Membrane pentru procese reactive
Numele și tipul instituției de învățământ	Universita degli Studi di Genova, Italia Dipartimento di Chimica e Chimica Industriale

Aptitudini și competențe personale

Limba(i) maternă(e) **Limba Romana**

Limba(i) străină(e) cunoscută(e)

Autoevaluare
Nivel european (*)

Limba Engleza

Înțelegere		Vorbire		Scriere
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă
C2	C2	C2	C2	C1

(*) Nivelul Cadrlui European Comun de Referință Pentru Limbi Străine

Activitate didactică:

- **Coordonare teze de doctorat** – 9 doctoranzi in stagi (Oana Muhulet, Nitu Sabina, Flaviu Dacinoi, Cristina Tuncel, Cristiana Bindar, Diana Becheru, Marcela Palla, Andreea Iordache, Elly Gloria Popescu);
- **Tutoriat doctoranzi** – 14 teze de doctorat (Alexandra Ivan, Vlad Luntraru, Sergiu Sava, Cristina Baicea, Livia Gugoasa, Ionut Zaharia, Valeriu Danciulescu, Mircea Segarceanu, Firas Kamar, Hussam AbdAlraheem, Abdul Rikabi, Viorica Panait, Lacramioara Naftanaila, Octavian Dorca);
- **Coordonare lucrari de disertatie masteranzi** – 15 teze de dizertatie (Daniela Valentina Isaia, Alina Dobrica, Andreea Turcu, Paul George Ilie, Oana Muhulet, Alexandru Muhulet, Patricia Sapunaru, Crina Sarbu, Roxana Condruz, Andreea Nedelcu, Andreea Stefan, Bianca Bejan, Bianca Harsana, Adriana Avram, Aura Pica);
- **Coordonare lucrari de licenta** – 16 lucrari de licenta (Ioana Mosor, Adriana Nicolae, Sonia Ene, Liviu Iacoblovici, Andreea Iordache, Andreea Nedelcu, Giorgiana Gheorghita, Cornelia Dumitrache, Farcasanu Larisa, Andrei Taradaciuc, Elena Comanici, Andreea Raileanu, Florea Constantin, Madalina Dapcea, Bianca Harsana, Adriana Avram, Roxana Liliana Mihai);
- **Premii ale studentilor coordonati** la Sesiunile de Comunicari Stiintifice Studentesti: Iuliana Biru (premiul 1), Giorgiana Gheorghita (premiul 1), Claudia Ninciuleanu (premiul 2), Alina Dobrica (premiul 3), Bianca Harsana (mentiuine);
- **Cursuri** – Smart Polymer Membranes (Master Smart Polymers and Biopolymers, An I, din 2018), Membrane polimerice (Master SIPOL, An I, in perioada 2010-2017), Tehnici membranare in analiza alimentelor (Licenta CEPA, An III, in perioada 2012-2017); Elemente de membranologie (Master SCIVEC, in perioada 2010-2013); Controlul calitatii materialelor anorganice (Master PC-CCP, in perioada 2010-2012);
- **Laboratoare** – Chimie analitica si analiza instrumentala (Licenta Inginerie chimica, An I, in perioada 2007-2017), Membrane polimerice (Master SIPOL, An I, in perioada 2010-2017), Tehnici membranare in analiza alimentelor (Licenta CEPA, An III, in perioada 2012-2017); Analiza probelor biologice (Licenta Facultatea de Inginerie Medicala, An II, in anul universitar 2016-2018).

Premii si distinctii:

- **Highly Cited Paper** in Ianuarie-Decembrie 2018 pentru 'V.K. Thakur, S.I. Voicu*, Recent Advances in Cellulose and Chitosan Membranes for Water Purification: A Concise Review, Carbohydrate Polymers, 2016, 146, 148-165, DOI: 10.1016/j.carbpol.2016.03.030', in the top 1% of its academic field, according to Thomson Reuters ISI.
- **Highly Cited Paper** in November/December 2016 for M. Miculescu, V.K. Thakur, F. Miculescu, S.I. Voicu, Graphene based polymer nanocomposite membranes: A Review, Polymers for Advanced Technologies, 2016, 27(7), 844-859, DOI: 10.1002/pat.3751, according to Thomson Reuters ISI;
- **Excellence Award – ROMAT 2018** for relevant contribution into the field of materials science and engineering, acordat in anul 2018;
- **Premiul 'In Tempore Opportuno'**, acordat de Universitatea Politehnica din Bucuresti, in anul 2011;
- **Best Paper Award**, acordat de IEEE International Conference of Semiconductors, pentru lucrarea 'Invertase Immobilization onto Dispersed Magnetic Particles. Synthesis and Characterization, autori V.I. Luntraru, V. Danciulescu, A.C. Nechifor, S.I. Voicu, G. Nechifor';
- **Oral Presentation Award**, 2010, European Membrane Society Summer School, Lucrarea: Polysulfone composite membranes with applications in electronics;
- **Premiul I** – Sesiunea de comunicari a cercurilor stiintifice studentesti, Universitatea Politehnica Bucuresti, Facultatea de Chimie Industriala, Sectiunea chimie organica, Lucrarea "Compusi macroheterociclici", 2005;
- **Premiul III** – Sesiunea de comunicari a cercurilor stiintifice studentesti, Universitatea Politehnica Bucuresti, Facultatea de Chimie Industriala, Sectiunea chimie organica, Lucrarea "Sinteza organica in apa", 2003;
- **Mentiuine** – Sesiunea de comunicari a cercurilor stiintifice studentesti, Universitatea Politehnica Bucuresti, Facultatea de Chimie Industriala, Sectiunea chimie-fizica, Lucrarea "Reactii de electropolimerizare a pirolului cu aplicabilitate in obtinerea de acumulatori de tip metal-polimer", 2002;
- **Premii UEFISCDI pentru rezultatele cercetarii - 16** (PN-III-P1-1.1-PRECISI-2018-24803, PN-III-P1-1.1-PRECISI-2018-24381, PN-III-P1-1.1-PRECISI-2018-23241, PN-III-P1-1.1-PRECISI-2018-22629, PN-III-P1-1.1-PRECISI-2018-22647, PN-III-P1-1.1-PRECISI-2017-20313, PN-III-

P1-1.1-PRECISI-2017-20060, PN-III-P1-1.1-PRECISI-2017-20060, PN-III-P1-1.1-PRECISI-2016-12861, PN-III-P1-1.1-PRECISI-2016-12462, PN-III-P1-1.1-PRECISI-2016-12464, PN-III-P1-1.1-PRECISI-2016-11593, PN-II-RU-PRECISI-2015-9-9859, PN-II-RU-PRECISI-2014-8-6547, PN-II-RU-PRECISI-2013-7-3873, PN-II-RU-PRECISI-2013-7-2348).

Activitate editorială:

- **Guest Editor, SN Applied Sciences Springer**, numar special „Synthesis and Manufacturing of Materials for the Future”;
- **Guest Editor, Coatings MDPI** (ISI IF 2.350), numar special propus „Membrane Processes for Water Purification”;
- **Guest Editor, Materials MDPI** (ISI IF 2.467), numar special propus „Advanced Composite Biomaterials”;
- **Membru al boardului editorial, Journal of Optoelectronics and Advanced Materials** (Thomson Reuters ISI IF 0.396), publicata de Institutul National pentru Optoelectronica;
- **Lead Guest Editor, Journal of Nanomaterials**, numar special propus “Graphene Based Composites: From Theories to Advanced Applications”;
- **Lead Guest Editor, Journal of Chemistry**;
- **Editor, vol. Gels Horizons, Springer**, (ed. V.K. Thakur, M.K. Thakur, S.I. Voicu), volum in pregatire.
- **Editor, Trans Tech Publishing**, Elvetia, I.V. Antoniac, S. Cavalu, **S.I. Voicu** Ed., Biomaterials and Regenerative Medicine (Key Engineering Materials), Trans Tech Publication, 2016, 334 pag., ISBN 978-3-03835-567-0.
- **Recenzor pentru 35 reviste cotate ISI cu factor de impact:** Cellulose (Springer), Scientific Reports (Nature), The Journal of Physical Chemistry (American Chemical Society), ACS Environmental Science and Technology (American Chemical Society), Current Opinion in Green and Sustainable Chemistry (Elsevier), Food Bioscience (Elsevier), Applied Surface Science (Elsevier), Compte Rendus du Chimie (Elsevier), Chinese Chemical Letters (Elsevier), Heliyon (Elsevier), Vacuum (Elsevier), International Journal of Biological Macromolecules (Elsevier), Environmental Technology (Springer), Journal of Nanostructure in Chemistry (Springer), Cellulose (Springer), Applied Water Science (Springer), Applied Physics A (Springer), Journal of Polymers and Environment (Springer), Journal of Adhesion Science and Technology (Taylor and Francis), Chemical Engineering Communications (Taylor and Francis), Journal of Chemistry (Hindawi), Romanian Reports in Physics (IFIN-HH), RSC Advances (Royal Society of Chemistry), ACS Journal of Physical Chemistry (American Chemical Society), Journal of Adhesion Science and Technology (Taylor and Francis), Materials Express (MEX), Chemical Engineering Communications (Taylor and Francis), Chinese Chemical Letters (Elsevier), ACS Applied Materials and Interfaces (American Chemical Society), Journal of Alloys and Compounds (Elsevier), Journal of Nanomaterials (Hindawi), Journal of Molecular Catalysis B (Elsevier), Journal of Membrane Science (Elsevier), Polymer Bulletin (Springer), Journal of Optoelectronics and Advanced Materials (INOE), Optoelectronics and Advanced Materials Rapid Communications (INOE).

Afilieri la Societati Profesionale:

American Chemical Society (din 2016), European Membrane Society (din 2007), European Desalination Society (din 2007), American Nano Society (din 2011), SPIE (2011), Societatea Romana de Biomateriale (din 2006), Societatea Romana de Chimie (din 2006).

Alte activități profesionale:

- **Membru al Senatului Universitar** al Universitatii Politehnica din Bucuresti (2020-2024);
- **Membru al Comisiei de etica si integritate academica** al Universitatii Politehnica din Bucuresti (2020-2024);
- **Membru al Consiliului Profesorat** al Facultății de Chimie Aplicată și Știința Materialelor (2012-2016);
- **Membru Comisia de Admitere**, Facultatea de Chimie Aplicata si Stiința Materialelor (2012-2014);
- **Secretarul General al Comitetului de Organizare** a celei de-a XXVII-a **Scoli de vara a European Membrane Society**, “Systems membranes-complex roadmaps toward functional devices and coupled processes”, Bucuresti, 14-19 iunie 2010;
- **Membru in Comitetul de Organizare al Conferintei Internationale de Chimie si Inginerie Chimica RICCCCE** (2011, 2013, 2017, 2019);
- **Membru in Comitetul de Organizare al Simpozionului International Bioremed 2015**, Baile Felix, Romania.

- **Expert pe termen lung** in proiectul e-Chimie POSDRU/87/1.3/S/ID 61839, Iul. 2011-Aug. 2012.
- **Chairmen Sesiunea comunicarii studentesti**, a celei de-a XXVII-a **Scoli de vara a European Membrane Society**, "Systems membranes-complex roadmaps toward functional devices and coupled processes", Bucuresti, 14-19 iunie 2010
- **Chairmen sesiune**, Conferinta Internationala RICCCCE 2011 Simpozionul C. Luca, Sinaia, Septembrie 2011.
- **Chairman sesiune**, Conferinta EMN Meeting on Smart and Multifunctional Materials, Berlin, August 2016.

Contracte/granturi de cercetare stiintifica (director/responsabil de proiect):

- **Director**, Proiect RU-TE 20/2018 (Mai 2018 – Aprilie 2020), O noua generatie de sisteme membranare cu controlul vizual al eficientei procesului de separare bazat pe schimbarea culorii suprafetei membranei, finantat de UEFISCDI, 449500 RON. Proiectul isi propune dezvoltarea unei noi generatii de materiale membranare care sa indice eficienta procesului de separare prin schimbarea culorii suprafetei membranei.
- **Responsabil**, Proiect 39PCCDI/2018, Materiale inteligente pentru aplicatii medicale – subproiectul 'O noua generatie de membrane compozite cu grafene derivatizate pentru hemodializa', valoare totala subproiect 825205 RON, valoare UPB 624485 RON (≈ 135000 EUR). Proiectul isi propune dezvoltarea unei noi generatii de membrane compozite cu grafene functionalizate si derivatizate cu aplicatii in hemodializa de o zi.
- **Responsabil**, Proiect 15PCCDI/2018, Fabricarea, calibrarea si testarea de sisteme avansate de senzori pentru aplicatii in securitatea societata – subproiectul 'Design-ul, fabricarea si calibrarea matricilor de senzori chemorezistivi pentru detectia compusilor explozibili volatili', valoare totala subproiect 1433333 (≈ 135000 EUR), valoare UPB 300000 RON (≈ 65000 EUR).
- **Director**, Proiect RU-TE 303/2015 (Octombrie 2015 – Septembrie 2017), Reactoare membranare nanostructurate pentru derivatizarea si doparea nanotuburilor de carbon si grafenelor, finantat de UEFISCDI, 540500 RON. Proiectul isi propune dezvoltarea unei noi generatii de reactoare membranare polimerice pentru doparea si derivatizarea nanotuburilor de carbon si a grafenelor. Dupa 15 luni de implementare au fost publicate doua articole in reviste cotate ISI (FI 1,823, respectiv FI 4,219), un articol de tip proceeding indexat Scopus (prezentat la conferinta TechConnect Washington 2016), respectiv trei comunicari orale la conferinte internationale, toate trei invitate.
- **Responsabil**, Proiect PCCA 195/2014 (Septembrie 2014 – Septembrie 2017), Strategii terapeutice pentru imbunatatirea raspunsului de vindecare a osului prin utilizarea de implanturi pe baza de magneziu bioresorbabile cu acoperiri bioactive, finantat de UEFISCDI responsabil partener UPB, suma partener 300000 RON. Proiectul dezvolta o noua generatie de membrane functionalizate si derivatizate din polimeri biocompatibili si bioresorbabili, capabile sa favorizeze sudarea implantului metalic de os. In timpul derularii proiectului, rezultatele au fost diseminate prin publicarea unui articol cotate ISI la factor de impact 5,267 si doua comunicari orale la conferinte internationale, dintre care una invitata.
- **Director**, Grant Td 025/2007, Materiale functionalizate micro si nanostructurate pe baza de polimeri impregnati cu ciclodextrina cu aplicatii farmaceutice, finantat de CNCSIS, 79000 RON.
- **Director**, Grant Bd 013/2006, Materiale polimerice functionalizate cu selectivitate dirijata, finantat de CNCSIS, 34240 RON. Aceste doua granturi au reprezentat suportul financiar pentru activitatile de cercetare ale tezei de doctorat cu titlul "Materiale polimerice functionalizate cu selectivitate dirijata" si au fost finalizate cu publicarea a cinci articole in reviste cotate ISI cu factor de impact.

Contracte/granturi de cercetare stiintifica (membru al colectivului de lucru):

- **Pn.1** CEEX Modul 1 12/2005, Nanostructuri hibride organice-anorganice pe baza de serpentină și polimeri vinilici pentru obținerea de composite avansate (NAHANOSCA), 1580000 RON;
- **Pn.2** CEEX Modul 1 48/2005, Polimeri impregnati molecular – suport pentru constructia de biosenzori enzimatici destinati monitorizarii unor poluanti din ape, 1200000 RON;
- **Pn.3** CNCSIS (CEEX Modul II) ET146/2006, Membrane compozite selective pe baza de materiale functionalizate si polimeri impregnati (SECOFIM), 135000 RON;
- **Pn.4** CNMP-Program PN II, Modul IV Parteneriate, 71034-2007, Nanocompozite cu proprietati electrice si magnetice destinate proceselor separative de inalta selectivitate (NEMSEPEL), 2000000 RON;
- **Pn.5** CNMP-Program PN II, Modul IV Parteneriate, 71025-2007, Nanocompozite polimerice de tip polisulfona-polianilina utilizate in bioanaliza si bioseparari (NANOBIOPAS), 2000000 RON;

- **Pn.6** CNMP-Program PN II, Modul IV Parteneriate, 71063-2007, Materiale pe baza de calixarene cu proprietati de recunoastere a unor specii ionice si/sau moleculare de interes biologic si ecologic (CALIXMAT), 2000000 RON;
- **Pn.7** CNCIS Grant A, 359/2005 Materiale membranare cu selectivitate dirijata prin sisteme redox (MEMBREDOX);
- **Pi.1** Proiect intern Honeywell Int., Automation and Control Solutions, Sensors Laboratory Bucharest, I10185 (PG), Molecular Cooling (informatii financiare confidentiale);
- **Pi.2** Proiect intern Honeywell Int., Automation and Control Solutions, Sensors Laboratory Bucharest, D11997(GB9400), Functionalized surfaces (informatii financiare confidentiale);
- **Pi.3** Proiect intern Honeywell Int., Automation and Control Solutions, Sensors Laboratory Bucharest, D12022(AA1000), Oil monitoring systems (informatii financiare confidentiale);
- **Pi.4** Proiect intern Honeywell Int., Automation and Control Solutions, Sensors Laboratory Bucharest, I10185(GH1000), SAW Platform (informatii financiare confidentiale);
- **Pi.5** Proiect intern Honeywell Int., Automation and Control Solutions, Sensors Laboratory Bucharest, I10185(PE1), Syn and test (informatii financiare confidentiale);
- **Pi.6** EU Financial Support – FP 6 – Marie Curie training course, Contract Nr. 29483 – 09/2007, Reactor membranes.

Numar lucrari indexate ISI Web of Science	77
Numar citari ISI Web of Science	1788
Indice H ISI Web of Science	22
Numar lucrari indexate Scopus	85
Numar citări Scopus	1650
Indice H Scopus	22
Număr lucrari indexate Scholar Google	113
Număr citări Scholar Google	2140
Indice H Scholar Google	24

Anexe

Lista de lucrari

Bucuresti, 01.03.2020

Prof. Dr. Habil. Ing. Ioan Stefan VOICU

Lista de lucrari

Patente

1. B.C. Serban, **S.I. Voicu**, S.D. Costea, C. Cobianu, Matrix nanocomposite sensing film for SAW/BAW based hydrogen sulphide sensor and method for making same, US Patent Office, US 7,695,993 B2, Derwent Primary Accession Number: 2009-R27632 [46].
2. B.C. Serban, V.G. Dumitru, C. Cobianu, S.D. Costea, N. Varachiu, **S.I. Voicu**, Methods for use of a sensitive layer for hydrogen sulphide detection with SAW/BAW devices, US Patent Office, US 7,867,552 B2, Derwent Primary Accession Number: 2009-R27545 [05].
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Comunicari orale

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2. Advanced Functional Polymeric Membranes for Biomedical Applications, International Seminar on Biomaterials and Regenerative Medicine, **Craiova, Romania, 26-28 September 2019**.
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5. Functionalized carbon nanotubes for gas sensors, Meeting on Carbon Nanostructures, [Rome, Italy](#), 13-17 May 2019, Invited Speaker
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11. Functionalized cellulose acetate membranes. Synthesis, characterization and applications, ROMAT, [Bucharest, Romania](#), 16-18 November 2018, Invited Speaker
12. Functionalized Cellulose Acetate Membranes as Coatings for Biomedical Applications, European Conference on Nanofilms, [Cranfield, United Kingdom](#), 20-22 March 2018.
13. Applications of composite membranes with carbon nanotubes in environmental decontamination, Romanian International Conference for Chemistry and Chemical Engineering, [Poiana Brasov, Romania](#), 6-9 September 2017, Keynote Speaker.
14. Synthesis and Characterization of Polyetherimide-Doped Carbon Nanotubes With Ruthenium Oxide Or Titanium Dioxide Composite Membranes, International Conference on Composites/Nano Engineering ICCE-25, [Rome, Italy](#), 16-22 July 2017.
15. Biomedical applications of polymeric membranes, Technologies for the fabrication and characterization of 3D scaffolds for tissue engineering NoRoTech, [Bucharest, Romania](#), 8-9 June 2017.
16. Sonochemical synthesis of doped-carbon nanotubes-composite polymeric membranes as membrane reactors, Frontiers Forum on Nano science and Technology, FFSCI 2017, [Dubrovnik, Croatia](#), 4-7 May 2017, Invited Speaker.
17. Composite polymeric membranes with carbon nanotubes, graphenes and silica nanowires. Synthesis, comparison and applications, Engineering with Membranes 2017, [Singapore, Singapore](#), 26-28 April 2017.
18. Resveratrol covalent immobilization onto cellulose acetate membranes for improved Osseointegration, **10th International Conference on Materials Science & Engineering** Bramat 2017, Transilvania University of Brasov, [Brasov, Romania](#), 8-11 March 2017.
19. Bioactive compounds covalent immobilization onto cellulose acetate membranes for biomedical applications, 7th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BIOMMEDD 2016, [Constanta, Romania](#), 15-17 September 2016, Invited Speaker.
20. Hybrid organic polymer – carbon nanotubes composite membranes, Synthesis and applications, EMN Smart and Multifunctional Materials, [Berlin, Germany](#), August 2016, Invited Speaker.
21. Hybrid Composite Polymeric Membranes with Carbon Nanotubes for Biomedical Applications, International Conference of 3D Modelling Techniques for BioMedical Engineering (MOBILE 2016), University Politehnica of Bucharest, [Bucharest, Romania](#), 13-14 June 2016, Invited Speaker.
22. Composite polymeric membranes with graphenes. Synthesis, characterization and applications, EMN Meeting on Membranes, [Dubai, United Arab Emirates](#), 5-8 April 2016, Invited Speaker.

23. The influence of filler in composite cellulose acetate membranes for proteins recovery, International Seminar on Biomaterials & Regenerative Medicine BIOREMED 2015, on September 17-20, 2015, [Oradea, Romania](#).
24. Cellulose derivatives-based membranes for biomedical applications, 6th International Conference "Biomaterials, Tissue Engineering & Medical Devices" Biommedd 2014, [Constanta, Romania](#), 15-18 September 2014.
25. The use of polysulfone-carbon nanotubes composite membranes in heavy metals removal, Romanian International Conference for Chemistry and Chemical Engineering, [Sinaia, Romania](#), 7-10 September 2011.
26. Polysulfone-carbon nanotubes composite membranes, C. Luca Symposium, Romanian International Conference for Chemistry and Chemical Engineering, [Sinaia, Romania](#), 7-10 September 2011.
27. *Covalent enzyme immobilization onto carbon nanotubes using a membrane reactor*, SPIE Microtechnologies, Nanotechnology section, [Prague, Czech Republic](#), 17-21 April 2011.
28. Polysulfone composite membranes with applications in electronics, XXVII Summer School of the European Membrane Society, [Bucharest, Romania](#), 14-19 June, 2010.
29. Polysulfone composite membranes for biomedical applications, Diaspora in cercetarea stiintifica si invatamantul superior din Romania - "Solutii Durabile la Provocari Emergente in Agricultura-Alimentatie cu Implicatii in Medicina Umana", Institutul National de Stiinte Biologice, 21-24 septembrie 2010, [Bucuresti, Romania](#).
30. Polysulfone membrane reactor for carbon nanotubes functionalization, Network Young Membranes, [Meze, France](#), September 2-4, 2009.
31. Polysulfone-doped polyaniline composite membranes. Synthesis and electrochemical characteristics, International Semiconductors Conference (CAS), [Sinaia, Romania](#), October 11-13, 2008.

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2. F. Miculescu, A. Maidaniuc, **S.I. Voicu**, M. Miculescu, D.Batalu, *Strategies for production of naturally-derived calcium phosphates particles*, Proceedings of TechConnect World Conference, Washington, 2016.
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4. M.V. Ghica, A-A.Watzlawek, E. Olaret, **S. Voicu**, S. Marin, M.M. Marin, E. Danila, A.G. Simonca, M.G. Albu, C. Chelaru, C.E. Dinu-Pîrvu, *Collagen-niflumic acid spongiuous matrices for bone repairing*, Key Engineering Materials, Vol. 695, pp 170-177, doi:10.4028/www.scientific.net/KEM.695.170.
5. **S.I. Voicu**, A. Muhulet, I.V. Antoniac, M.S. Corobea, *Cellulose derivatives based membranes for biomedical applications*, Key Engineering Materials, Vol. 638, pp 27-30, doi: 10.4028/www.scientific.net/KEM.638.27.
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9. C. Baicea, A. Ivan, C. Trisca-Rusu, A.C. Nechifor, D.I. Vaireanu, **S.I. Voicu**, G. Nechifor, *Ionic conductive silica-polypyrrole composites obtained by in-situ polymerization*, Proceedings of International Semiconductors Conference (CAS), 2010, pg. 359-362, ISBN: 978-1-4244-5783-0, DOI: 10.1109/SMICND.2010.5650655.
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