Universitatea POLITEHNICA din Bucureşti
Facultatea de ChimieAplicatăşiŞtiinţaMaterialelor

Nume IOVU HORIA

Funcţie Profesor

Departmentul: Bioresurse și Știința Materialelor

Grupul de cercetare (dacaestecazul): Advanced Polymer Materials Group (APMG); www.tsocm.pub.ro/APMG

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Date biografice

Perioada	Pozitieocupată
1986 – 1989	Inginer – IBCC Jilava
1989 – 1993	Asistent – IPB
1993 – 1997	Șef de lucrări – IPB
1997 – 1999	Conferențiar – UPB
1999 – prezent	Profesor - UPB

Cercetare

Domenii de cercetare

- Materialecompozitepolimerice
- Biomaterialepolimerice
- Sisteme cu eliberarecontrolată

Proiectecercetare (selecție)

1. ***Noi nanohibrizi pe baza de polibenzoxazine CH 39-13-02***
2. ***Ambalajealimentareecologice din bio-plasticemultifunctionale de ultimageneratie CH 39-12-09***

3. ***Materialehibride de tip polimer-argilaporoasaheterostructuratadestinateeliberariicontrolate a medicamentelor CH 39-12-07***

4. ***Noiconceptestrategicepentrudezvoltareacunoasteriiunornoistructuribiocompatibile in bioinginerie CH 39-10-03***

5. ***Compoziteinovativepoliester/celulozabacterianapentruingineriabiomedicala CH 39-12-05***

Activitateacademică

Activitate didactică(in prezent)

Program Studii	Specializare/Facultate	Cod	Titludisciplina	Tip activitate
Licenta	Fac. Chimie aplicata si Stiinta Materialelor	UPB.11.T.04.O.014	Stiintamaterialeloro rganice II-materialeorganicesi compozite	curs
	SIPOL/ Fac. ChimieaplicatasiStiintaMaterialelor	UPB.11.S.08.O.713	Biopolimerisibioco mpozite II	curs
	Facultatea de Ingineriemedicala		Stiintamaterialelorb iopolimerice	curs
Master	SIPOL/ Fac. ChimieaplicatasiStiintaMaterialelor	UPB.11.S.09.O.902	Proiectarea materialelor compozite	curs
	SIPOL/ Fac. ChimieaplicatasiStiintaMaterialelor		Materiale compozite cu matrice polimera	curs
	SIPOL/ Fac. ChimieaplicatasiStiintaMaterialelor	UPB.11.S.10.O.907	Metodeavansate de caracterizare a materialelorpolimeri ce	curs

Alte activitati didactice (in trecut)

Titluri si premii

Membru in Organizatii Profesionale

- Membru corespondent – Academia Oamenilor de Știință din România
- Membru – Societatea de Chimie din România

Alte activităţi semnificative

Publicaţii

Nr.total carti, articole, conferinte, brevete

180

Articole publicate în reviste de specialitate (selectie)

B110. C. I. Covaliu, I. Jitaru, G. Praschiv, E. Vasile, S. Biris, L. Diamandescu, **H. Iovu,** Core-Shell Hybrid Nanomaterials based on CoFe204 particles coated with PVP or PEG biopolymers for applications in biomedicine, **Powder Technology**, 237, 2013, 415-426.

B111. C. M. Damian, C. C. Ciobotaru, S. A. Garea and **H. Iovu,** Effect of POSS-NH2 functionalizationof MWNTs on reinforcing properties in epoxy nanocomposites, **High Performance Polymers**, 25 (5), 2013, 566-575.

B112.Cristina Ileana Covaliu, GigelParaschiv, Sorin-ŞtefanBiriş, IoanaJitaru, EugeniuVasile, Lucian Diamandescu, TanjaCirkovicVelickovic, MajaKrstic, ValentinIonita, **HoriaIovu**, EcaterinaMatei**,** Maghemite and poly-dl-alanine based core–shell multifunctional nanohybrids for environmental protection and biomedicine applications**, Applied Surface Science**, Volume 285, Part A, 2013, 86–95.

B113. Corina Andronescu, Sorina Alexandra Gârea, CălinDeleanu, AlinaNicolescu, **HoriaIovu,**The influence of montmorillonite concentration and solvent polarity on the synthesis of benzoxazine monomers in the presence of montmorillonite, **Applied Clay Science**, 86, 2013, 99-105.

B114. AM Pandele, S. Dinescu, M. Costache, E. Vasile, C. Obreja, **H. Iovu**, M. Ionita, Preparation and In Vitro, Bulk, and Surface Investigation of Chitosan/Graphene Oxide Composite Films**, Polymer Composites,** 34 (12), 2013, 2116-.

B115. C. Andronescu, E. Biru, I.Radu, SA Garea, **H. Iovu**, Kinetics of benzoxazine polymerization studied by Raman spectroscopy, **High Performance Polymers**, 25 (6), 2013, 634-640.

B116. C. Andronescu, P. Stanescu, SA Garea, **H. Iovu**, Influence of Curing Protocol of Benzoxazine Monomer based on Aromatic Diamines against the Degradation Behaviour of the Resulted Polybenzoxazines**, MaterialePlastice,** 50 (2), 2013, 146-151.

B117. M. Ionita, AM Pandele, **H. Iovu**,Sodium alginate/graphene oxide composite films with enhanced thermal and mechanical properties, **Carbohydrate Polymers,** 94 (1), 2013, 339-344.

B118. A. Serafim, E. Vasile, **H. Iovu**, IC Stancu, Self-assembled gold-dendrimer composite nanoparticles as surface nanostructuring features, **Digest Journal of Nanomaterials and Biostructures,** 8 (2), 613-620, 2013**.**

B119.A. L. Radu, C. Damian, V. Fruth, T. V. Iordache, AM Zaharia, **H. Iovu**, A. Sarbu, Unique polyvinyl acetate–mesoporous synthetic zeolite composites prepared in ultrasonic field, **Microporous and Mesoporous Materials**, 198, 281-290, 2014.

B120. M. Prodana, A. Voiculet, S. Garea, M. Radu**, H. Iovu**, I. Demetrescu, A. Dinischiotu, Synthesis, characterization and controlled toxicity of a novel hybrid material based on cisplatin and docetaxel, **Central European Journal of Chemistry**, 12 (10), 1008-1015, 2014.

B121. C. Andronescu, S. Garea, E. Vasile, **H. Iovu**, Synthesis and characterization of polybenzoxazine/layered double hydroxides nanocomposites, **Composites Science and Technology**, 95, 29-37, 2014.

B122. C. Ciobotaru, C. Damian, S. Polosan, M. Prodana, **H. Iovu**, Drug delivery study of single-wall carbon nanotubes covalent functionalized with cisplatin, **Digest Journal of Nanomaterials and biostructures**, 9(2), 859-868, 2014.

B123. B. Balanuca, A. Lungu, A. M. Hanganu, R. Stan, E. Vasile, **H. Iovu**, Hybrid nanocomposites based on POSS nad networks of methacrylated camelina oil and various PEG derivatives, **European Journal of Lipid Science and Technology**, 116 (4), 458-469, 2014.

B124. C. Ciobotaru, C. Damian, E. Matei, **H. Iovu**, Covalent functionalization of graphene oxide with cisplatin, **Materiale Plastice**, 51 (1), 75-80, 2014.

B125. A. Pandele, M. Ionita, L. Crica, S. Dinescu, M. Costache. **H. Iovu**, Synthesis, characterization and in vitro studies of graphene oxide/chitosan-polyvinyl alcohol films, **Carbohydrate Polymers**, 102, 813-820, 2014.

B126. C. Ciobotaru, C. Damian, S. Polosan, E. Matei, **H. Iovu**, Covalent functionalization of single walled carbon nanotubes with doxorubicin for controlled drug delivery systems, **Digest Journal of Nanomaterials and Biostructures,** 9(1), 413-422, 2014.

B127. S. Dinescu, B. Galateanu, A. Lungu, E. Radu, S. Nae, **H. Iovu**, M. Costache, Perilipin Expression Reveals Adipogenic Potential of hADSCs inside Superporous Polymeric Cellular Delivery Systems, **Biomed Research International**, DOI: 10.1155/2014/830791, 2014.

B128. E. Vasile, A. Serafim. D. Petre, D. Giol, P. Dubrule, H. Iovu, I. Stancu, **Scientific World Journal**, DOI: 10.1155/2014/103462, 2014.

Cărţi (selectie)

C7. M. Dimonie, S. A. Garea, **H. Iovu**, Gh. Hubca, M. Teodorescu, Tehnologii de sinteza a materialelor polimerice, **Editura Politehnica Press**, 2003, **ISBN 9738449340.**

C8. V. Trandafir, G. Popescu, M. G. Albu, **H. Iovu**, M. Georgescu, Bioproduse pe baza de colagen**, Editura Ars Docendi** 2007, ISBN 978-973-558-291-3

Capitole in cărţi (selectie)

C9. I.C.Stancu, A. Lungu and **H. Iovu**, "Hydrogels for bone regeneration" in: "Biomaterials for Bone Regeneration. Novel Techniques and Applications", edited by Peter Debruel and Sandra Van Vlierberghe, Woodhead Publishing Series in Biomaterials: Number 75, Elsevier, 2014, ISBN 978-0-85709-804-7