



**AVIZAT**

Director CSUD.....

**VERIFICAT ÎNDEPLINIRE STANDARDE I.O.S.U.D. - UMFC**

DA                       NU

Director Școală doctorală.....

**FIȘA DE VERIFICARE**

a îndeplinirii standardelor I.O.S.U.D. Universitatea de Medicină și Farmacie “Carol Davila” București  
în vederea obținerii atestatului de abilitare

Domeniile de doctorat: Medicină, Farmacie

**I. Date despre candidat**

Nume: BÎLTEANU

Prenume: LIVIU

Gradul didactic/de cercetare: CONFERENȚIAR UNIVERSITAR / CERCETĂTOR ȘTIINȚIFIC III

Încadrat în prezent în învățământul superior:

DA                       NU

Disciplina Matematici aplicate științelor biologice și Fizică, Departamentul Matematică, Fizică, Măsurători Terestre, Facultatea de Îmbunătățiri Funciare și Ingineria Mediului, Universitatea de Științe Agronomice și Medicină Veterinară București

Medic/Farmacist rezident/specialist/primar:

DA                       NU

Ordinul de confirmare:

**II. Date privind îndeplinirea condițiilor de abilitare**

Doctor în științe

DA                       NU

Titlul tezei de doctorat: Simulations à l'échelle atomique des défauts de l'implantation de l'hydrogène en silicium –technologie Smart Cut™ / Atomic Scale Simulations of Hydrogen Implantation Defects in



**Hydrogen Implanted Silicon – Smart Cut™ Technology, 2010– Commissariat à l'Énergie Atomique – France**

**Ordinul de confirmare:**

**III. Date numerice privind îndeplinirea standardelor minime naționale, conform anexelor nr. 20 și 23 ale Ordinului Ministrului Educației Naționale și Cercetării Științifice nr. 6129/20.12.2016**

**1. Articole publicate în reviste cotate ISI în calitate de autor principal**

Criteriaul	Standard minim	Realizat
Număr articole publicate în reviste cotate ISI în calitate de autor principal	10	10

Criteriau îndeplinit:  DA  NU

**Lista articolelor ISI publicate în calitate de autor principal: autori, titlu articol, revistă, an, volum, pagini, factor de impact**

**AP1** Marinescu, Șerban Andrei, Radu-Valeriu Toma, Oana Gabriela Trifănescu, Laurenția Nicoleta Galeș, Antonia Ruxandra Folea, Adrian Sima, Liviu **Bîlteanu**, and Rodica Anghel. “Predictors of Clinical Hematological Toxicities under Radiotherapy in Patients with Cervical Cancer—A Risk Analysis.” *Cancers* 16, no. 17 (August 30, 2024): 3032. <https://doi.org/10.3390/cancers16173032> (IF 5.2).

**AP2** Stanca, Loredana, **Liviu Bîlteanu**, Oana Crina Bujor, Violeta Alexandra Ion, Andrei Cătălin Petre, Liliana Bădulescu, Ovidiu Ionut Geicu, Aurelia Magdalena Pisoschi, Andreea Iren Serban, and Oana-Mărgărita Ghimpeteanu. “Development of Functional Foods: A Comparative Study on the Polyphenols and Anthocyanins Content in Chokeberry and Blueberry Pomace Extracts and Their Antitumor Properties.” *Foods* 13, no. 16 (August 16, 2024): 2552. <https://doi.org/10.3390/foods13162552> (IF 4.7)

**AP3** Iliesiu, Andreea, Radu-Valeriu Toma, Ana Maria Ciongariu, Radu Costea, Narcis Zarnescu, and **Liviu Bîlteanu**. “A Pancreatic Adenocarcinoma Mimicking Hepatoid Carcinoma of Uncertain Histogenesis: A Case Report and Literature Review.” *Oncology Letters* 26, no. 4 (October 1, 2023): 1–15. <https://doi.org/10.3892/ol.2023.14029> (IF 2.5).

**AP4** Toma, Radu Valeriu, Zgura Anca, Oana Gabriela Trifănescu, Laurenția Nicoleta Galeș, Antonia Ruxandra Folea, Loredana Stanca, **Liviu Bîlteanu**, and Rodica M. Anghel. “Early Echocardiography and ECG Changes Following Radiotherapy in Patients with Stage II–III HER2-Positive Breast Cancer Treated with Anthracycline-Based Chemotherapy with or without Trastuzumab-Based Therapy.” *Medical Science Monitor: International Medical Journal of Experimental and Clinical Research* 29 (September 20, 2023): e941754-1-e941754-32. <https://doi.org/10.12659/MSM.941754> (IF 2.2).

**AP5** Geicu, Ovidiu Ionut, **Liviu Bîlteanu**, Loredana Stanca, Adriana Ionescu Petcu, Florin Iordache, Aurelia Magdalena Pisoschi, and Andreea Iren Serban. “Composition-Based Risk Estimation of



Mycotoxins in Dry Dog Foods.” Foods 12, no. 1 (January 2023): 110. <https://doi.org/10.3390/foods12010110> (IF 4.7).

**AP6** Constantin, Nicolae Tiberiu, Cezar Mihai Bercea-Strugariu, Dragoș Bîrțoiu, Florin Petrișor Posastiuc, Florin Iordache, **Liviu Bilteanu**, and Andreea Iren Serban. “Predicting Pregnancy Outcome in Dairy Cows: The Role of IGF-1 and Progesterone.” Animals 13, no. 10 (2023): 1579 <https://doi.org/10.3390/ani13101579> (IF 2.7).

**AP7** Ionescu, Adriana, **Liviu Bilteanu**, Ovidiu Ionut Geicu, Florin Iordache, Loredana Stanca, Aurelia Magdalena Pisoschi, Adrian Miron, Andreea Iren Serban, and Valentin Calu. “Multivariate Risk Analysis of RAS, BRAF and EGFR Mutations Allelic Frequency and Coexistence as Colorectal Cancer Predictive Biomarkers.” Cancers 14, no. 11 (January 2022): 2792. <https://doi.org/10.3390/cancers14112792> (IF 4.5)

**AP8** Calu, Valentin, Adriana Ionescu, Loredana Stanca, Ovidiu Ionut Geicu, Florin Iordache, Aurelia Magdalena Pisoschi, Andreea Iren Serban, and **Liviu Bilteanu**. “Key Biomarkers within the Colorectal Cancer Related Inflammatory Microenvironment.” Scientific Reports 11, no. 1 (April 12, 2021): 7940. <https://doi.org/10.1038/s41598-021-86941-5> (IF 3.8).

**AP9 Bilteanu**, Liviu, Ovidiu I. Geicu, Loredana Stanca, Aurelia M. Pisoschi, Florea Serban, Andreea I. Serban, and Valentin Calu. “Human Eye Optics within a Non-Euclidian Geometrical Approach and Some Implications in Vision Prosthetics Design.” Biomolecules 11, no. 2 (February 2021): 215. <https://doi.org/10.3390/biom11020215> (IF 4.879).

**AP10 Bilteanu**, Liviu, Clement Dutreix, Anu Jagannathan, and Cristina Bena. “Interplay between Edge States and Simple Bulk Defects in Graphene Nanoribbons.” The European Physical Journal B 86, no. 5 (May 29, 2013): 240. <https://doi.org/10.1140/epjb/e2013-30488-6> (IF 1.53).

## 2. Articole publicate în reviste cotate ISI în calitate de coautor

Criteriul	Standard minim	Realizat
Număr articole publicate în reviste cotate ISI în calitate de coautor	5	14

Criteriu îndeplinit:  DA  NU

**Lista articolelor ISI publicate în calitate de coautor: autori, titlu articol, revistă, an, volum, pagini, factor de impact**

**CA1** Iordache, Florin, Adriana (Ionescu) Petcu, Aurelia Magdalena Pisoschi, Loredana Stanca, Ovidiu Ionut Geicu, **Liviu Bilteanu**, Carmen Curuțiu, Bogdan Amuzescu, and Andreea Iren Serban. “PCR Array Profiling of miRNA Expression Involved in the Differentiation of Amniotic Fluid Stem Cells toward Endothelial and Smooth Muscle Progenitor Cells.” International Journal of Molecular Sciences 25, no. 1 (January 2024): 302. <https://doi.org/10.3390/ijms25010302> (IF 5.6).

**CA2** Magdalena Pisoschi, Aurelia, Florin Iordache, Loredana Stanca, Adriana Ionescu Petcu, Letitia Purdoi, Ovidiu Ionut Geicu, **Liviu Bilteanu**, and Andreea Iren Serban. “Comprehensive Overview and Critical Perspective on the Analytical Techniques Applied to Aflatoxin Determination – A



Review Paper.” *Microchemical Journal* 191 (August 1, 2023): 108770.  
<https://doi.org/10.1016/j.microc.2023.108770>.

**CA3** Trifanescu, Oana Gabriela, **Liviu Bilteanu**, Silvia Ilie, Diana Maria Bran, Inga Safta, Laurentia Minea Gales, and Rodica Maricela Anghel. “Are We Using the Right Cut-Offs to Obtain Maximum Information from Ki-67 in Patients with Early Breast Cancer?” *Journal of Clinical Oncology* 41, no. 16\_suppl (June 2023): e12567–e12567. [https://doi.org/10.1200/JCO.2023.41.16\\_suppl.e12567](https://doi.org/10.1200/JCO.2023.41.16_suppl.e12567).

**CA4** Trifanescu, Oana Gabriela, Laurentia Nicoleta Gales, Mihai Andrei Paun, Natalia Motas, Serban Andrei Marinescu, Ion Virtosu, Raluca Alexandra Trifanescu, Mirela Gherghe, **Liviu Bilteanu**, Camelia Cristina Diaconu and Rodica Maricela Anghel “Long-Term Outcome of Patients with Stage II and III Muscle-Invasive Urothelial Bladder Cancer after Multimodality Approach. Which Is the Best Option?” *Medicina* 59, no. 1 (January 2023): 50. <https://doi.org/10.3390/medicina59010050>.

**CA5** Trifanescu, Oana Gabriela, Dan Mitrea, Laurenția Nicoleta Gales, Ana Ciornei, Mihai-Andrei Păun, Ioana Butnariu, Raluca Alexandra Trifanescu, Natalia Motaș, Radu Valeriu Toma, **Liviu Bilteanu**, Mirela Gherghe and Rodica Maricela Anghel “Therapies beyond Physiological Barriers and Drug Resistance: A Pilot Study and Review of the Literature Investigating If Intrathecal Trastuzumab and New Treatment Options Can Improve Oncologic Outcomes in Leptomeningeal Metastases from HER2-Positive Breast Cancer.” *Cancers* 15, no. 9 (January 2023): 2508. <https://doi.org/10.3390/cancers15092508>.

**CA6** Lucaciu, Constantin Mihai, Stefan Nitica, Ionel Fizesan, Lorena Filip, **Liviu Bilteanu**, and Cristian Iacovita. “Enhanced Magnetic Hyperthermia Performance of Zinc Ferrite Nanoparticles under a Parallel and a Transverse Bias DC Magnetic Field.” *Nanomaterials* 12, no. 20 (2022): 3578.

**CA7** Pisoschi, Aurelia Magdalena, Florin Iordache, Loredana Stanca, Iuliana Gajaila, Oana Margarita Ghimpeteanu, Ovidiu Ionut Geicu, **Liviu Bilteanu**, and Andreea Iren Serban. “Antioxidant, Anti-Inflammatory, and Immunomodulatory Roles of Nonvitamin Antioxidants in Anti-SARS-CoV-2 Therapy.” *Journal of Medicinal Chemistry* 65, no. 19 (October 13, 2022): 12562–93. <https://doi.org/10.1021/acs.jmedchem.2c01134>.

**CA8** Popescu, Simona Daniela, Andreea Gratiana Boiangiu, Romina-Marina Sima, **Liviu Bilteanu**, Simona Vladareanu, and Radu Vladareanu. “Maternal HPV Infection and the Estimated Risks for Adverse Pregnancy Outcomes—A Systematic Review.” *Diagnostics* 12, no. 6 (June 2022): 1471. <https://doi.org/10.3390/diagnostics12061471>.

**CA9** Pisoschi, Aurelia Magdalena, Aneta Pop, Florin Iordache, Loredana Stanca, Ovidiu Ionut Geicu, **Liviu Bilteanu**, and Andreea Iren Serban. “Antioxidant, Anti-Inflammatory and Immunomodulatory Roles of Vitamins in COVID-19 Therapy.” *European Journal of Medicinal Chemistry* 232 (March 15, 2022): 114175. <https://doi.org/10.1016/j.ejmech.2022.114175>.

**CA10** Pisoschi, Aurelia Magdalena, Aneta Pop, Florin Iordache, Loredana Stanca, **Liviu Bilteanu**, and Andreea Iren Serban. “Antioxidant Determination with the Use of Carbon-Based Electrodes.” *Chemosensors* 9, no. 4 (April 2021): 72. <https://doi.org/10.3390/chemosensors9040072>.



**CA11** Geicu, Ovidiu I., Loredana Stanca, Sorina N. Voicu, Anca Dinischiotu, **Liviu Bilteanu**, Andreea I. Serban, and Valentin Calu. “Dietary AGEs Involvement in Colonic Inflammation and Cancer: Insights from an in Vitro Enterocyte Model.” Scientific Reports 10, no. 1 (February 17, 2020): 2754. <https://doi.org/10.1038/s41598-020-59623-x> (IF **4.6**).

**CA12** Opris, Ioan, Valeriu S. Nestianu, Adrian Nestianu, **Liviu Bilteanu**, and Jean Ciurea. “George Marinesco in the Constellation of Modern Neuroscience.” Frontiers in Neuroscience 11 (2017). <https://www.frontiersin.org/articles/10.3389/fnins.2017.00726>.

**CA13** Dutreix, Clément, **Liviu Bilteanu**, Anu Jagannathan, and Cristina Bena. “Friedel Oscillations at the Dirac Cone Merging Point in Anisotropic Graphene and Graphenelike Materials.” Physical Review B 87, no. 24 (June 10, 2013): 245413. <https://doi.org/10.1103/PhysRevB.87.245413> (IF **3.322**).

**CA14** Rieutord, F., F. Mazen, S. Reboh, J. D. Penot, **L. Bilteanu**, J. P. Crocombette, V. Vales, V. Holy, and L. Capello. “Lattice Strain of Hydrogen-Implanted Silicon: Correlation between X-Ray Scattering Analysis and Ab-Initio Simulations.” Journal of Applied Physics 113, no. 15 (April 21, 2013): 153511. <https://doi.org/10.1063/1.4800538>.

### 3. Factorul cumulat de impact pentru articolele publicate ca autor principal în reviste cotate ISI (FCIAP)

Criteriul	Standard minim	Realizat
(ISI) Factor cumulat de impact autor principal	10	36,709

Criteriu îndeplinit:  DA  NU

### 4. Indexul Hirsch

Criteriul	Standard minim	Realizat
Index Hirsch	6	9

Criteriu îndeplinit:  DA  NU

Data

31.01.2025

Semnătura candidatului.

Liviu  
Bilteanu