

## Curriculum vitae

### Informații personale



Nume / Prenume

**Andronescu, Ecaterina**

Adresă

Universitatea POLITEHNICA din București, Splaiul Independenței nr. 313, sector 6, București

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Data nașterii

### Experiența profesională

Perioada

**2012-2020**

Funcția sau postul ocupat

Președinte Senat

Numele și adresa angajatorului

Universitatea POLITEHNICA București

Tipul activității sau sectorul de activitate

Management în educație și cercetare

Perioada

**2004-2008; 2008-2012**

Funcția sau postul ocupat

Rector

Numele și adresa angajatorului

Universitatea POLITEHNICA București

Tipul activității sau sectorul de activitate

Management în educație și cercetare

Perioada

**2004 - 2013**

Funcția sau postul ocupat

Președinte, Consiliul Național al Rectoților

Tipul activității sau sectorul de activitate

Management în educație și cercetare

Perioada

**2009; 2001 – 2003; iulie – decembrie 2012, 2018-2019**

Funcția sau postul ocupat

Ministrul Educației și Cercetării

Numele și adresa angajatorului

Ministerul Educației și Cercetării

Tipul activității sau sectorul de activitate

Management în educație și cercetare

Perioada

**2013**

Funcția sau postul ocupat

Președinte, Comisia pentru Învățământ, Știință, Tineret și Sport

Numele și adresa angajatorului

Senatul României, Parlamentul României

Tipul activității sau sectorul de activitate

Elaborare și avizare legislație în domeniul educației și cercetării

Perioada

**2012 – 2020**

Funcția sau postul ocupat

Senator în Parlamentul României

Numele și adresa angajatorului

Senatul României, Parlamentul României

Tipul activității sau sectorul de activitate

Elaborare și avizare legislație în domeniul educației și cercetării

<p>Perioada</p> <p>Numele și adresa angajatorului</p> <p>Tipul activității sau sectorul de activitate</p> <p>Tipul activității sau sectorul de activitate</p>	<p><b>2008 – 2012</b></p> <p>Senator în Parlamentul României, Vicepreședintele Comisiei pentru Învățământ, Știință, Tineret și Sport</p> <p>Senatul României, Parlamentul României</p> <p>Elaborare și avizare legislație în domeniul educației și cercetării</p>
<p>Perioada</p> <p>Funcția sau postul ocupat</p> <p>Numele și adresa angajatorului</p> <p>Tipul activității sau sectorul de activitate</p>	<p><b>1996 – 2008</b></p> <p>Deputat în Parlamentul României, Secretar și membru în Comisia pentru Învățământ, Știință, Tineret și Sport;</p> <p>Camera Deputaților, Parlamentul României</p> <p>Elaborare și avizare legislație în domeniul educației și cercetării</p>
<p>Perioada</p> <p>Funcția sau postul ocupat</p> <p>Numele și adresa angajatorului</p> <p>Tipul activității sau sectorul de activitate</p>	<p><b>1995 – 1996</b></p> <p>Secretar de Stat pentru Învățământul Superior</p> <p>Ministerul Învățământului</p> <p>Management în educație și cercetare</p>
<p>Perioada</p> <p>Funcția sau postul ocupat</p> <p>Numele și adresa angajatorului</p> <p>Tipul activității sau sectorul de activitate</p>	<p><b>1992 – 2004</b></p> <p>Decan, Facultatea de Chimie Industrială</p> <p>Universitatea POLITEHNICA București</p> <p>Coordonarea activității didactice, strategii și management în educație și cercetare</p>
<p>Perioada</p> <p>Funcția sau postul ocupat</p> <p>Numele și adresa angajatorului</p> <p>Tipul activității sau sectorul de activitate</p>	<p><b>1989 – 1992</b></p> <p>Prodecan</p> <p>Facultatea de Chimie Industrială, Universitatea POLITEHNICA București</p> <p>Coordonarea activității didactice, strategii și management în educație și cercetare</p>
<p>Perioada</p> <p>Funcția sau postul ocupat</p> <p>Activități didactice</p> <p>Numele și adresa angajatorului</p> <p>Tipul activității sau sectorul de activitate</p>	<p><b>1972 - prezent</b></p> <p>Asistent; Șef lucrări; Conferențiar; Profesor, Catedra Știința și Ingineria Materialelor Oxidice și Nanomateriale, Facultatea de Chimie Aplicată și Știința Materialelor</p> <p>Cursuri predate: Chimia fizică a stării solide a silicaților; Știința materialelor oxidice; Biomateriale; Materiale ceramice cu proprietăți electrice și magnetice; Ceramici termomecanice; Nanomateriale.</p> <p>Universitatea POLITEHNICA din București</p> <p>Învățământ și cercetare</p>
<b>Educație și formare</b>	
<p>Perioada</p> <p>Calificarea / diploma obținută</p> <p>Disciplinele principale studiate / competențe profesionale dobândite</p> <p>Numele și tipul instituției de învățământ / furnizorului de formare</p>	<p><b>1972</b></p> <p>Diploma de Inginer</p> <p>Știința și Ingineria Materialelor Oxidice</p> <p>Universitatea POLITEHNICA din București, Facultatea de Chimie Industrială</p>
<p>Perioada</p> <p>Calificarea / diploma obținută</p> <p>Titlul tezei</p> <p>Numele și tipul instituției de învățământ / furnizorului de formare</p>	<p><b>1983</b></p> <p>Diploma de Doctor</p> <p>Diagrame de echilibru termic fazal în sistemul cuaternar CaO-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>-MgO</p> <p>Universitatea POLITEHNICA din București, Facultatea de Chimie Industrială</p>

Competențe și aptitudini organizatorice	În domeniul educației și cercetării
Competențe și aptitudini științifice și tehnice	Competențe științifice în domeniile: Chimia fizică a stării solide, Diagrame de echilibru termiz fazal, Știința materialelor oxidice, Materiale ceramice cu proprietăți electrice și magnetice, Ceramici termomecanice, Biomateriale, Nanomateriale; Sinteza și caracterizarea materialelor ceramice; Evaluarea, monitorizarea și asigurarea calității programelor de învățământ din domeniile chimie, inginerie chimică și știința materialelor oxidice; Evaluarea și monitorizarea proiectelor de cercetare științifică din domeniul de specialitate; Recenzia științifică a unor lucrări în vederea publicării în reviste din țară sau străinătate, sau în volume la edituri de prestigiu; Organizarea și coordonarea laboratoarelor în domeniul Științei Materialelor.
<b>Activitatea științifică</b>	
Publicații	<ul style="list-style-type: none"> <li>• peste 300 lucrări științifice publicate sau prezentate la conferințe științifice în România și/sau în străinătate (peste 160 în publicații cotate ISI);</li> <li>• peste 10 cărți, cursuri universitare, îndrumare de laborator;</li> <li>• 1 brevet de invenție.</li> </ul>
Contracte de cercetare	coordonator a peste 50 de contracte de cercetare, cu finanțare națională și internațională
Titluri științifice	<p><b>2011</b> Doctor Honoris Causa - Universitatea Națională din Kharkiv;</p> <p><b>2010</b> Doctor Honoris Causa - Universitatea Valahia din Târgoviște; Universitatea Petru Maior din Târgu Mureș;</p> <p><b>2007</b> Doctor Honoris Causa - Universitatea din Reșița;</p> <p><b>2006</b> Doctor Honoris Causa - Universitatea "Ovidius" din Constanța;</p> <p><b>2005</b> Doctor Honoris Causa - Universitatea "Andrei Șaguna" din Constanța;</p> <p><b>2004</b> Doctor Honoris Causa - Universitatea Politehnică Timișoara, Universitatea din Bacău, Universitatea „Ștefan cel Mare” din Suceava, Universitatea din Petroșani;</p> <p><b>2003</b> Doctor Honoris Causa - Universitatea Tehnică „Gh. Asachi” din Iași, Universitatea „Aurel Vlaicu” din Arad.</p> <p><b>1996</b> Coordonator de doctorat în domeniul Inginerie Chimică.</p>
Stagii proiecte TEMPUS	<p><b>1996, 1998:</b> Universitatea din Sevilla, Spania;</p> <p><b>1997:</b> Universitatea din Londra, UK;</p> <p><b>1995:</b> Universitatea din Darlington, UK;</p> <p><b>1994, 1995:</b> Universitatea Claude Bernard Lyon, France.</p>
Apartenența la asociații profesionale și comisii de specialitate	<p><b>1996 – 2004:</b> Membru în Comisia de Chimie și Știința Materialelor, Consiliul Național pentru Atestarea Diplomelor și Titlurilor Academice;</p> <p><b>2004 – 2005</b> Președintele Comisiei de Chimie și Știința Materialelor, Consiliul Național de Atestare a Diplomelor, Titlurilor și Certificatelor Universitare.</p> <p><b>1994 – 2000, 2004 – 2005:</b> Membru în Comisia de Științe Inginerești, Consiliul Național de Evaluare și Acreditare Academică</p> <ul style="list-style-type: none"> <li>• Membru fondator al Societății Române de Biomateriale;</li> <li>• Membru fondator al Societății Române de Ceramică</li> <li>• Membru fondator al Societății Române de Chimie;</li> <li>• Membru fondator al Societății Române de Inginerie Chimică;</li> <li>• Membru al Societății Europene de Ceramică;</li> <li>• Membru al Academiei Oamenilor de Știință;</li> <li>• Membru în Colegiul Editorial al Revistei Române de Materiale;</li> </ul>
Permis(e) de conducere	Permis categoria B

**LISTA DE LUCRĂRI**  
**Prof.dr.ing. Ecaterina ANDRONESCU**

**A. CĂRȚI**

1. **Ecaterina Andronescu**, Dan Dascălu, Irina Kleps, Lorenzo Pavesi – *Nanoscience and Nanoengineering*, Editura Academiei Române, București, 216 pg., 2002;
2. **Ecaterina Andronescu**, Sorin Jinga, Cornelia Jinga - *Ceramică pentru optoelectronică*, Editura Printech, 271 pg., 2003;
3. **Ecaterina Andronescu**, Marin Cernea, Dana, Maria Neacșu – *Ceramică dielectrică din Nanoparticule de titanat de bariu*, Editura POLITEHNICA Press, 182 pg., 2004;
4. Cristina Ghișulică, **Ecaterina Andronescu** - *Materiale ceramice poroase. Proprietăți, metode de obținere, aplicații*, Editura Politehnica Press, ISBN: 978-973-7838-81-0, 127 pg., 2008;
5. Cristina Ghișulică, **Ecaterina Andronescu** - *Introducere în studiul biomaterialelor*, Editura Politehnica Press, ISBN: 978-973-7838-80-3, 152 pg., 2008;
6. **Ecaterina Andronescu**, Cristina Ghișulică, Georgeta VOICU, Ștefania STOLERIU - *Nanopulberi și materiale ceramice. Obținere și caracterizare*, Editura Politehnica Press, ISBN: 978-973-82-7, 102 pg., 2008;
7. Anton FICAI, **Ecaterina ANDRONESCU** - *Biomateriale compozite pe bază de colagen și hidroxiapatită utilizate în reconstrucția osoasă*; Editura Politehnica Press, 2011; ISBN: 978-606-515-257-1;
8. Anton FICAI, **Ecaterina ANDRONESCU**, Georgeta VOICU and Denisa FICAI - *Advances in Collagen/Hydroxyapatite Composite Materials* in “*Advances in composite materials for medicine and nanotechnology*” Editura INTECH, 2011, ISBN 978-953-307-235-7 pg. 3-32.
9. Sorin-Ion Jinga, **Ecaterina ANDRONESCU** - *Ceramică optică*, București, Politehnica Press, 2011, ISBN 978-606-515-338-7.

**B. CURSURI UNIVERSITARE**

1. **Ecaterina Andronescu** – *Știința materialelor I - materiale anorganice*;
2. **Ecaterina Andronescu** – *Nanomateriale*;
3. **Ecaterina Andronescu** – *Echilibre termice de fază în sisteme aplicate*;
4. **Ecaterina Andronescu** – *Funcții de utilizare derivate din corelația compoziție-structură-proprietăți*

**C. ARTICOLE**

1. A. Spoiala, C.I. Ilie, D. Fikai, A. Fikai, E. **Andronescu**, From Biomedical Applications of Alginate towards CVD Implications Linked to COVID-19, *Pharmaceuticals-Base* 15(3) (2022).
2. A. Spoiala, C.I. Ilie, G. Dolete, R.D. Trusca, L. Motelica, O.C. Oprea, D. Fikai, A. Fikai, E. **Andronescu**, L.M. Ditu, THE DEVELOPMENT OF ANTIMICROBIAL CHITOSAN/ZnO NANOCOMPOSITE MEMBRANES FOR WATER PURIFICATION, *Rev Rom Mater* 52(1) (2022) 17-25.
3. A. Spoiala, C.I. Ilie, G. Dolete, A.M. Croitoru, V.A. Surdu, R.D. Trusca, L. Motelica, O.C. Oprea, D. Fikai, A. Fikai, E. **Andronescu**, L.M. Ditu, Preparation and Characterization of Chitosan/TiO2 Composite Membranes as Adsorbent Materials for Water Purification, *Membranes-Basel* 12(8) (2022).
4. D.M. Radulescu, I.A. Neacsu, A.M. Grumezescu, E. **Andronescu**, New Insights of Scaffolds Based on Hydrogels in Tissue Engineering, *Polymers-Basel* 14(4) (2022).
5. D.E. Radulescu, I.A. Neacsu, A.M. Grumezescu, E. **Andronescu**, Novel Trends into the Development of Natural Hydroxyapatite-Based Polymeric Composites for Bone Tissue Engineering, *Polymers-Basel* 14(5) (2022).
6. L. Marinescu, D. Fikai, A. Fikai, O. Oprea, A.I. Nicoara, B.S. Vasile, L. Boanta, A. Marin, E. **Andronescu**, A.M. Holban, Comparative Antimicrobial Activity of Silver Nanoparticles Obtained by Wet Chemical Reduction and Solvothermal Methods, *Int J Mol Sci* 23(11) (2022).
7. C.I. Ilie, E. Oprea, E.I. Geana, A. Spoiala, M. Buleandra, G.G. Pircalabioru, I.A. Badea, D. Fikai, E. **Andronescu**, A. Fikai, L.M. Ditu, Bee Pollen Extracts: Chemical Composition, Antioxidant

- Properties, and Effect on the Growth of Selected Probiotic and Pathogenic Bacteria, *Antioxidants-Basel* 11(5) (2022).
8. D.A. Florea, V. Grumezescu, A.C. Birca, B.S. Vasile, M. Musat, C. Chircov, M.S. Stan, A.M. Grumezescu, E. **Andronescu**, M.C. Chifiriuc, Design, Characterization, and Antibacterial Performance of MAPLE-Deposited Coatings of Magnesium Phosphate-Containing Silver Nanoparticles in Biocompatible Concentrations, *Int J Mol Sci* 23(14) (2022).
  9. D. Ficai, M. Gheorghe, G. Dolete, B. Mihailescu, P. Svasta, A. Ficai, G. Constantinescu, E. **Andronescu**, Microelectromechanical Systems Based on Magnetic Polymer Films, *Micromachines-Basel* 13(3) (2022).
  10. [C.D. Dumitru, I.A. Neacsu, A.M. Grumezescu, E. **Andronescu**, Bee-Derived Products: Chemical Composition and Applications in Skin Tissue Engineering, *Pharmaceutics* 14(4) (2022).
  11. C.R. Dumitrescu, V.A. Surdu, H. Stroescu, A.I. Nicoara, I.A. Neacsu, R. Trusca, E. **Andronescu**, L.T. Ciocan, Alkali Niobate Powder Synthesis Using an Emerging Microwave-Assisted Hydrothermal Method, *Materials* 15(15) (2022).
  12. C.R. Dumitrescu, I.A. Neacsu, V.A. Surdu, A.I. Nicoara, C.I. Codrea, C.E. Pop, R. Trusca, E. **Andronescu**, Maturation of Hydroxyapatite from Biogenic Calcium Source - a Comparative Study, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science* 84(1) (2022) 19-30.
  13. A.C. Burdusel, O. Gherasim, E. **Andronescu**, A.M. Grumezescu, A. Ficai, Inorganic Nanoparticles in Bone Healing Applications, *Pharmaceutics* 14(4) (2022).
  14. M.E. Zarif, S.A. Yehia, B. Bitu, V. Satulu, S. Vizireanu, G. Dinescu, A.M. Holban, F. Marinescu, E. **Andronescu**, A.M. Grumezescu, A.C. Birca, A.T. Farcasiu, Atmospheric Pressure Plasma Activation of Hydroxyapatite to Improve Fluoride Incorporation and Modulate Bacterial Biofilm, *Int J Mol Sci* 22(23) (2021).
  15. V.A. Surdu, E. **Andronescu**, The Role of Configurational Entropy in Fluorite Oxides Systems: A Mini-Review, *Rev Rom Mater* 51(3) (2021) 327-334.
  16. V.A. Surdu, E. **Andronescu**, Phase Formation in Heterovalent Equimolar Quinary Oxide Systems of ZrO<sub>2</sub>-HfO<sub>2</sub>-CeO<sub>2</sub>-Nb<sub>2</sub>O<sub>5</sub>-RE<sub>2</sub>O<sub>3</sub> Type (RE = Y, Yb, Nd, Gd), *Ceramics-Basel* 4(3) (2021) 476-485.
  17. A. Spoiala, C.I. Ilie, R.D. Trusca, O.C. Oprea, V.A. Surdu, B.S. Vasile, A. Ficai, D. Ficai, E. **Andronescu**, L.M. Ditu, Zinc Oxide Nanoparticles for Water Purification, *Materials* 14(16) (2021).
  18. A. Spoiala, C.I. Ilie, D. Ficai, A. Ficai, E. **Andronescu**, Chitosan-Based Nanocomposite Polymeric Membranes for Water Purification-A Review, *Materials* 14(9) (2021).
  19. A. Spoiala, C.I. Ilie, L.N. Craciun, D. Ficai, A. Ficai, E. **Andronescu**, Magnetite-Silica Core/Shell Nanostructures: From Surface Functionalization towards Biomedical Applications-A Review, *Appl Sci-Basel* 11(22) (2021).
  20. V.A. Spirescu, R. Suhan, A.G. Niculescu, V. Grumezescu, I. Negut, A.M. Holban, O.C. Oprea, A.C. Birca, B.S. Vasile, A.M. Grumezescu, L.E. Bejenaru, G.D. Mogosanu, C. Bejenaru, P.C. Balaure, E. **Andronescu**, L. Mogoanta, Biofilm-Resistant Nanocoatings Based on ZnO Nanoparticles and Linalool, *Nanomaterials-Basel* 11(10) (2021).
  21. V.A. Spirescu, A.G. Niculescu, S. Slave, A.C. Birca, G. Dorcioman, V. Grumezescu, A.M. Holban, O.C. Oprea, B.S. Vasile, A.M. Grumezescu, I.C. Nica, M.S. Stan, E. **Andronescu**, Anti-Biofilm Coatings Based on Chitosan and Lysozyme Functionalized Magnetite Nanoparticles, *Antibiotics-Basel* 10(10) (2021).
  22. V.A. Spirescu, C. Chircov, A.M. Grumezescu, B.S. Vasile, E. **Andronescu**, Inorganic Nanoparticles and Composite Films for Antimicrobial Therapies, *Int J Mol Sci* 22(9) (2021).
  23. V.A. Spirescu, C. Chircov, A.M. Grumezescu, E. **Andronescu**, Polymeric Nanoparticles for Antimicrobial Therapies: An up-to-date Overview, *Polymers-Basel* 13(5) (2021).
  24. R.A. Puiu, P.C. Balaure, E. Constantinescu, A.M. Grumezescu, E. **Andronescu**, O.C. Oprea, B.S. Vasile, V. Grumezescu, I. Negut, I.C. Nica, M.S. Stan, Anti-Cancer Nanopowders and MAPLE-Fabricated Thin Films Based on SPIONs Surface Modified with Paclitaxel Loaded beta-Cyclodextrin, *Pharmaceutics* 13(9) (2021).
  25. R.C. Popescu, D.I. Savu, M. Bierbaum, A. Grbenicek, F. Schneider, H. Hosser, B.S. Vasile, E. **Andronescu**, F. Wenz, F.A. Giordano, C. Herskind, M.R. Veldwijk, Intracellular Delivery of

- Doxorubicin by Iron Oxide-Based Nano-Constructs Increases Clonogenic Inactivation of Ionizing Radiation in HeLa Cells, *Int J Mol Sci* 22(13) (2021).
26. A.V. Paduraru, O. Oprea, A.M. Musuc, B.S. Vasile, F. Iordache, E. **Andronescu**, Influence of Terbium Ions and Their Concentration on the Photoluminescence Properties of Hydroxyapatite for Biomedical Applications, *Nanomaterials-Basel* 11(9) (2021).
  27. A.V. Paduraru, O. Oprea, A.M. Musuc, B.S. Vasile, A. Ficai, E. **Andronescu**, Photoluminescent Nanomaterials Based on Europium Doped Hydroxyapatite, *Rev Rom Mater* 51(3) (2021) 353-360.
  28. A.V. Paduraru, A.M. Musuc, O.C. Oprea, R. Trusca, F. Iordache, B.S. Vasile, E. **Andronescu**, Synthesis and Characterization of Photoluminescent Ce(III) and Ce(IV) Substituted Hydroxyapatite Nanomaterials by Co-Precipitation Method: Cytotoxicity and Biocompatibility Evaluation, *Nanomaterials-Basel* 11(8) (2021).
  29. S. Nistorescu, A.M. Udrea, M.A. Badea, I. Lungu, M. Boni, T. Tozar, F. Dumitrache, V.A. Maraloiu, R.G. Popescu, C. Fleaca, E. **Andronescu**, A. Dinischiotu, A. Staicu, M. Balas, Low Blue Dose Photodynamic Therapy with Porphyrin-Iron Oxide Nanoparticles Complexes: In Vitro Study on Human Melanoma Cells, *Pharmaceutics* 13(12) (2021).
  30. I.A. Neacsu, L. Matei, A.C. Birca, A.I. Nicoara, V.L. Ene, L.D. Dragu, A. Ficai, C. Bleotu, E. **Andronescu**, Curcumin - Hydroxyapatite Systems Used for Bone Cancer Treatment, *Rev Rom Mater* 51(4) (2021) 505-513.
  31. L. Motelica, D. Ficai, O.C. Oprea, A. Ficai, V.L. Ene, B.S. Vasile, E. **Andronescu**, A.M. Holban, Antibacterial Biodegradable Films Based on Alginate with Silver Nanoparticles and Lemongrass Essential Oil-Innovative Packaging for Cheese, *Nanomaterials-Basel* 11(9) (2021).
  32. L. Motelica, D. Ficai, O. Oprea, A. Ficai, R.D. Trusca, E. **Andronescu**, A.M. Holban, Biodegradable Alginate Films with ZnO Nanoparticles and Citronella Essential Oil-A Novel Antimicrobial Structure, *Pharmaceutics* 13(7) (2021).
  33. M. Maximov, O.C. Maximov, L. Craciun, D. Ficai, A. Ficai, E. **Andronescu**, Bioactive Glass-An Extensive Study of the Preparation and Coating Methods, *Coatings* 11(11) (2021).
  34. O. Gherasim, R.C. Popescu, V. Grumezescu, G.D. Mogosanu, L. Mogoanta, F. Iordache, A.M. Holban, B.S. Vasile, A.C. Birca, O.C. Oprea, A.M. Grumezescu, E. **Andronescu**, MAPLE Coatings Embedded with Essential Oil-Conjugated Magnetite for Anti-Biofilm Applications, *Materials* 14(7) (2021).
  35. O. Gherasim, A.M. Grumezescu, V. Grumezescu, I. Negut, M.F. Dumitrescu, M.S. Stan, I.C. Nica, A.M. Holban, G. Socol, E. **Andronescu**, Bioactive Coatings Based on Hydroxyapatite, Kanamycin, and Growth Factor for Biofilm Modulation, *Antibiotics-Basel* 10(2) (2021).
  36. O. Gherasim, A.M. Grumezescu, V. Grumezescu, E. **Andronescu**, I. Negut, A.C. Birca, B. Galateanu, A. Hudita, Bioactive Coatings Loaded with Osteogenic Protein for Metallic Implants, *Polymers-Basel* 13(24) (2021).
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