



Europass Curriculum Vitae

Informații personale

Nume / Prenume **SANDU/Elena**
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Naționalitate(-tăți) ROMANA
Data nașterii 01.11.1951
Sex feminin

Ocupația **Fizica nuclear experimental, radioprotectie, radioecologie**

Experiența profesională

Perioada 1. Nov. 1999 - prezent
Cercetator stiintific II
Experiența profesională DINV, DFVM, cercetari aplicate, proiectare si producere detectoare de radiatii nucleare. Cercetari in fizica nucleara legate de radioprotectie. Metrologia radionuclizilor. Cercetari aspra compozitelor polimer-materiale cu magnetorezistenta colosala.
Locul de munca Institutul National de Fizica si Inginerie Nucleara Horia Hulubei Str. Reactorului 30, P.O. Box MG-6, 077125 Magurele, Ilfov, Romania; website: <http://www.ifin.ro>
Domeniul ocupațional Cercetare stiintifica
Perioada Apr. 1991- Nov. 1999
Pozitie detinuta Cercetator stiintific III
Experiența profesională Cercetari in fizica nuclear legate de radioprotectie. Metrologia radionuclizilor.
Locul de munca Institutul National de Fizica si Inginerie Nucleara Horia Hulubei Str. Reactorului 30, P.O. Box MG-6, 077125 Magurele, Ilfov, Romania; website: <http://www.ifin.ro>
Domeniul ocupațional Cercetare stiintifica
Perioada Dec.1988 – Apr. 1991
Pozitie detinuta Cercetator stintific
Experiența profesională Fizica nucleara aplicata
Locul de munca Institutul National de Fizica si Inginerie Nucleara Horia Hulubei Str. Reactorului 30, P.O. Box MG-6, 077125 Magurele, Ilfov, Romania; website: <http://www.ifin.ro>
Domeniul ocupațional Cercetare stiintifica
Perioada Sept. 1980 to Dec. 1988
Pozitie detinuta Fizician
Experiența profesională Fizica nuclear aplicata
Locul de munca Institutul National de Fizica si Inginerie Nucleara Horia Hulubei Str. Reactorului 30, P.O. Box MG-6, 077125 Magurele, Ilfov, Romania; website: <http://www.ifin.ro>
Domeniul ocupațional Cercetare stiintifica
Perioada Sept. 1975 to sept. 1980

Pozitie detinuta Conducerea laboratorului industrial pentru asigurarea calitatii
 Experiența profesională Asigurarea calitatii
 Locul de munca Izolatorul SA, 9-11 Electronicii Str, 023251, Bucuresti, Romania
 Domeniul ocupațional Management

Education and training

Perioada 1993- 1999
 Calificarea / diploma obținută Doctor in Fizica
 Tema Titlul tezei: Contributii la realtia dintre structura si proprietatile fizico chimice ale copolimerilor Stire-butadiena supusi la conditii extreme

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Bucuresti

Level in national or international classification Doctorat in Fizica

Perioada 1974-1975

Calificarea / diploma obținută Master in Fizica Polimerilor

Disciplinele principale studiate / competențe profesionale dobândite Fizica Polimerilor, Metode de investigare

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Bucuresti

Level in national or international classification 1

Perioada 1970-1974

Calificarea / diploma obținută Fizician

Disciplinele principale studiate / competențe profesionale dobândite Fizica generala, Matematica pentru fizica,

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Bucuresti

Level in national or international classification

Aptitudini și competențe personale

Limba(i) maternă(e) **Romana**

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european

Engleza

Franceza

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	C1	
B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	C1	

Competențe și abilități sociale

Spirit de echipa castigat prin experienta de lucru in grupurile de cercetare avansata; capacitate de comunicare excelenta.

Competențe și aptitudini organizatorice

Experienta buna in conducerea de echipe si proiecte, abilitate de lucru in echipa comunicare excelenta, bun negociator, intuitive, sociabilitate, perseverenta, autocontrol in situatii critice, capacitate de a gasi solutii si orientare,ambitioasa, energica, proactive si cu mentalitae pozitiva fata de provocarile cercetarii.

Competențe și aptitudini tehnice	Competente tehnice avansate
Competențe și aptitudini de utilizare a calculatorului	Microsoft Office, Origin, Adobe Acrobat, Adobe Photoshop, etc
Conducator de proiecte	<p>Responsabil de proiect «Plan multiwire Geiger-Müller Detector of large area typep DGMPM-250» 1981-1983</p> <p>Responsabil de proiect «Proportional counter with front window for X rays»</p> <p>Responsabil de proiect «Immersion Geiger- Müller counter typep DI-15-SG »</p> <p>Responsabil de proiect «Proportional counter with lateral window for X rays»</p> <p>Responsabil de proiect «Metallic Geiger-Müller counters with frontal window and organic extinction gas and halogene type BG-20-HM3 ».</p> <p>-Coordoneaza si apoi conduce activitatea de microproductie de detectoare Geiger-Muller type G100 si G1000.</p> <p>Responsabil de proiect «Experimental Model for Metallic Geiger-Müller counters with frontal window and organic extinction gas and halogene».</p> <p>Responsible for the collaboration «Madium vacuum vacuumeter type MINIVAC MV-01 and MV-0,2 »</p> <p>Responsabil de proiect «Modernisation and diversification of Geiger-Müller with halogen for nuclear dosimetry».</p> <p>Responsabil de proiect « Geiger-Müller counters with halogen type BG-02-H » STR 33/95 .</p> <p>Responsabil partener PNCDI CERES 218/2004</p> <p>Responsabil partener PNCDI CERES 241/2004</p> <p>Responsabil partener Ctr. CEEX 05-D11-73/2005</p> <p>Responsabil partener Ctr. CEEX 05-D11-45/2006</p> <p>Responsabil partener Ctr. PN 2 72-151/2008</p>
Alte competențe și aptitudini	
Permis(e) de conducere	Categoria B
Informatii suplimentare	
Anexe	Lista publicatiilor http://www.nipne.ro/research/publications/publications.php?user=

Anexa

1. Lucrari in reviste ISI

1. V. Sandu, M. S. Nicolescu, V. Kuncser, S. Popa, I. Pasuk, C. Ghica, **E. Sandu**, *Structure and Magnetic Properties of Nanosized Magnetite Obtained by Glass Recrystallization*, **Journal of Nanoscience and Nanotechnology** **12** (2012) 1-8.
2. V. Sandu, E. Cimpoiasu, G. Aldica, S. Popa, P. Badica, F. Dumitrache, and **E. Sandu**, *Transport Properties of Superconducting MgB₂ Composites with Carbon-Encapsulated Fe Nanospheres*, **Journal of Applied Physics** **110**, (2011), 123921 1-7).
3. V. Sandu, E. Cimpoiasu, G. Aldica, S. Popa, **E. Sandu**, N. Hurduc, and I. Nor, *Fabrication and Superconducting Properties of MgB₂ Doped with Polysiloxane Based Copolymers*, **IEEE transactions on Applied Superconductivity**, vol. 21, issue 3(3), 2631-2634 2011. DOI 10.1109/TASC.2010.2078434
4. V. Sandu, S. Popa, I. Ivan, **E. Sandu**, N. Hurduc, I. Nor, *Magnetism and transport properties of gamma- irradiated polymer-CrO₂ composites*, **Journal of Magnetism and Magnetic Materials** **322** 1405–1408 (2010) doi:10.1016/j.jmmm.2009.09.045.
5. V. Sandu, S. Popa, I. Ivan, C. Plapcianu, **E. Sandu**, C. Mihailescu, F. Doroftei, *Fabrication and transport properties of manganite-polyacrylamide-based composites* **Journal of Nanomaterials** **2009**, Article ID 429430/1-5 (2009)
6. V.Sandu, *A Way to Increase the Critical Current in High Temperature Superconductors: Neutron Irradiation* **J. Optoelectronics and Adv. Materials**, **10** (11) 3117 (2008)
7. V. Sandu, S. Popa, C. Plapcianu, **E. Sandu**, N. Hurduc, I. Nor, *Transport and Magnetic Properties of CrO₂-Polymer Magnetic Composites*, **Advanced Materials Research**, **47-50** 326-330 (2008)
8. V. Sandu, G. Aldica, **E. Sandu**, P. Nita, *Electric and Magnetic Response of Li-Doped YBa₂Cu₃O₇(LiF)_x under Neutron Irradiation*, **J. Optoelect. Adv. Materials** **9** (12) 3832-3836 (2007)
9. V. Sandu, G. Aldica, and **Elena Sandu**, *Extrinsic Tunneling Magnetoresistance in Thick Films of CrO₂-Polystyrene Composite*, **J. Optoelectronics and Adv. Materials**, **9** (7) 2121-2124 (2007)
10. V. Sandu, S. Popa, **E. Sandu**, D. Di Gioacchino, and P. Tripodi, *Neutron-Irradiated Superconducting YBa₂Cu₃(Li)O_{7-d} with Improved Irreversibility*, **J. Optoelectronics and Advanced Materials** **8** (1) 391-395 (2006).

2. Lucrari in Revistele Academiei Romane

1. V. Sandu, S. Popa, **Elena Sandu**, D. Di Gioacchino, and P. Tripodi Irradiation Enhancement of Superconductivity. A Multiharmonic Study, **Rom. J. Phys** 51, 611-621 (2006).
2. V. Sandu, J. Jaklovszky, **E. Sandu**, I. Gr. Deac, S. Popa, YBa₂Cu₃O_{7-x} -Polytetrafluorethylene Composites, **Rom. J. Phys.** 46 (1) (2001).
3. V. Sandu, J. Jaklovszky, S. Popa, **E. Sandu**, Neutron Irradiation and Normal-Superconducting Transition in High T_c Superconductors, **Rom. Rep. Phys.** 51, 723-733 (1999).
4. V. Sandu, I. Garlea, C. Garlea, **E. Sandu**, E. Cimpoiasu, On the Paraconductivity of Neutron Irradiated YBa₂Cu₃O_{7-x}, **Rom. J. Phys.** 43, 581-591 (1998).
5. **E. Sandu**, D Stanga, R Margineanu Measuring system for the production of gaseous standards, **Rom. J. Phys, Vol 49, 597-600 (2004).**

3. Conferinte Internationale

1. V. Sandu, M.S. Nicolescu, S. Popa, V. Kuncser, N. Aldea, **E. Sandu**, *Effect of P2O5 on the Growth of Nanosized Magnetite in a Glassy Matrix*, **International Conference on Advanced Materials and Technologies (ICMAT 2011)**, Singapore, 26 June-1 July, 2011
2. V.Sandu, M. S. Nicolescu, V. Kuncser, R. Damian, **E. Sandu**, *Magnetic Glass-Ceramics*, **The 7th International Conference on High-Performance Ceramics (CICC-7)**, Xiamen, China, November 4-7, 2011.
3. V. Sandu, M. S. Nicolescu, V. Kuncser, I. Ivan, **E. Sandu**, *Magnetite in glassy matrix*, **The 18th International Conference on Composite Materials (ICCM18)** August 21-26, 2011, Jeju Island, Korea
4. V. Sandu, M. S. Nicolescu, S. Popa, V. Kuncser, N. Aldea, **E. Sandu**, *Effect of P₂O₅ on the Growth of Nanosized Magnetite in a Glassy Matrix*, **International Conference on materials for Advanced technologies ICMAT 2011**, Singapore, 21 Jun2-1 July 2011
5. V. Sandu, G. Aldica, S. Popa, .P. Badica, E. Cimpoiasu, **E. Sandu**, S. B. Vasile, N. Hurduc and I. Nor, *Use Of Pre ceramic Polymers For Magnesium Diboride Composites(Invited)*, **IUPAC 6th International Symposium on Novel Materials and their Synthesis (NMS-VI) & the 20th International Symposium on Fine Chemistry and Functional Polymers (FCFP-XX)**, Wuhan, China 10-14 October, 2010
6. V. Sandu, M. S. Nicolescu, V. Kuncser, S. Popa, I. Pasuk, and **E. Sandu** *Effect of Nucleators and Intermediants on the Magnetic Properties of Nanosized Magnetite Obtained by Glass Recrystallization (invited)* **International Conference on Physical and Numerical Simulation" (ICPNS' 2010)**, Guilin, China on November 16-19
7. V. Sandu, M. S. Nicolescu, V. Kuncser, S. Popa, I. Pasuk, C. Ghica, **E. Sandu**, *Structure and Magnetic Properties of Nanosized Magnetite Obtained by Glass Recrystallization* **5th International Conference on Surfaces, Coatings and Nanostructured Materials NANOSMAT-5**, 19-21 October 2010, Reims (France)
8. V. Sandu, S. Popa, C. Plapcianu, **E. Sandu**, N. Hurduc, and I. Nor, *Physical Properties of Manganite-Polysiloxanes Composites Obtained by Co-Precipitation*, **AIP Conference Proceedings Volume 1151 102-105 ADVANCED MATERIALS AND NANOTECHNOLOGY: Proceedings of the International Conference (AMN-4)**, Dunedin (New Zealand), 8–12 February 2009, Editors: Shaun C. Hendy, Ian W. M. Brown
9. V. Sandu, S. Popa, I. Ivan, C. Plapcianu, **E. Sandu**, N. Hurduc, I. Nor, *Polymer functionalization with manganites*, **Proceedings of SPIE Vol. 7493, 74934F (2009) Second International Conference on Smart Materials and Nanotechnology in Engineering**, Weihai, China, July 2009, edited by Jinsong Leng, Anand K. Asundi, Wolfgang Ecke, Proceedings of SPIE Vol. 7493 (SPIE, Bellingham, WA 2009) 74934F.
10. V. Sandu, G. Aldica, S. Popa, **E. Sandu**, *Effect of Li-halides on the morphology of cuprates ceramics and their properties under neutron irradiation*, **Journal of Physics: Conference Series 152**, art. no. 012056 (2009)
11. V. Sandu, S. Popa, **E. Sandu**, N. Hurduc, I. Nor, I. Stamatina, A. Andronie, *Composites Made with Spin Polarized Compounds*, **Processing Materials for Properties III** by B. Mishra, A. Fuwa, and P. Bhandhubanyong, editors, Proc. PMP III Conf. Bangkok, Thailand, December 2008
12. V. Sandu, G. Aldica, C. Plapcianu, M. C. Valsangiacom, **E. Sandu**, *Tunneling Magnetoresistance in Polymer-Chromium Dioxide Composites*, 4th International Conference on Materials for Advanced Technologies (ICMAT 2007), Singapore, July 1-7, 2007 to be published in **"Encyclopedia of Advanced Materials: Science and Engineering"** by Pan Stanford Publishing

Activitate sindicala:

- 1997-2000, membru in Consiliul Sindicatului IFIN-HH;
- 2004-2009, membru in Comisia de Dialog Social a Ministerului Educatiei si cercetarii
- 2003-2008,2008-2013, 2013-2017, presedinte ales al Sindicatului IFIN-HH
- 2000-2003, membru in consiliul Sindicatului IFIN-HH;
- 2005-2015, responsabil cu Domeniul Cercetare Stiintifica in cadrul FNS Alma Mater;
- 2009-2013 ,2013-prezent, vicepresedinte FNS Alma Mater – domeniul Cercetare Stiintifica.