

**Fișă autoevaluare conform standardelor universității (conform Anexa 1).
Leontin Pădurariu**

Activitatea de cercetare

1. Articole științifice publicate *in extenso* in reviste cotate Web of Science cu factor de impact: (60 puncte x factor de impact+25)/nr. autori

Articol	Factor ISI	Nr. autori	Punctaj
F. Gheorghiu, <u>L. Padurariu</u> , M. Airimioaei, L. Curecheriu, C. Ciomaga, C. Padurariu, C. Galassi, L. Mitoseriu, Porosity-Dependent Properties of Nb-Doped Pb(Zr,Ti)O ₃ Ceramics, J. Am. Ceram. Soc., <i>in press</i> (2016)	2.787	8	24.03
<u>L. Padurariu</u> , L. Mitoseriu, Comment on “The Impact of Composite Effect on Dielectric Constant and Tunability in Ferroelectric-Dielectric System”, J. Am. Ceram. Soc., 99, 3816–3817 (2016)	2.787	2	96.11
<u>L. Padurariu</u> , L. P. Curecheriu, L. Mitoseriu, Nonlinear dielectric properties of paraelectric-dielectric composites described by a 3D Finite Element Method based on Landau-Devonshire theory, Acta Materialia, 103, 724 (2016)	5.058	3	109.49
R. Stanculescu, C. E. Ciomaga, <u>L. Padurariu</u> , P. Galizia, N. Horchidan, C. Capiani, C. Galassi, L. Mitoseriu, Study of the role of porosity on the functional properties of (Ba,Sr)TiO ₃ ceramics, Journal of Alloys and Compounds, 643, 79 (2015)	3.014	8	25.73
C. E. Ciomaga, <u>L. Padurariu</u> , L. P. Curecheriu, N. Lupu, I. Lisiecki, M. Deluca, S. Tascu, C. Galassi, L. Mitoseriu, Using multi-walled carbon nanotubes in spark plasma sintered Pb(Zr _{0.47} Ti _{0.53})O ₃ ceramics for tailoring dielectric and tunability properties, J. Appl. Phys. 116, 164110 (2014)	2.183	9	17.33
C. Olariu, <u>L. Padurariu</u> , R. Stanculescu, C. Baldisserri, C. Galassi, L. Mitoseriu, Investigation of low field dielectric properties of anisotropic porous Pb(Zr,Ti)O ₃ ceramics: Experiment and modeling, J. Appl. Phys. 114, 214101 (2013)	2.185	6	26.02
A. Cazacu, L. Curecheriu, A. Neagu, <u>L. Padurariu</u> , A. Cernescu, I. Lisiecki, L. Mitoseriu, Tunable gold-chitosan nanocomposites by local field engineering, Appl. Phys. Lett., 102, 222903 (2013).	3.515	7	33.70
V. Pascariu, <u>L. Padurariu</u> , O. Avadanei, L. Mitoseriu, Dielectric properties of PZT-epoxy composite thick films, Journal of Alloys and Compounds 574, 591–599(2013)	2.726	4	47.14
C. E. Ciomaga, C. S. Olariu, <u>L. Padurariu</u> , A. V. Sandu, C. Galassi, L. Mitoseriu, Low field permittivity of ferroelectric-ferrite ceramic composites: Experiment and modeling, J. Appl. Phys. 112, 094103 (2012)	2.210	6	26.27
<u>L. Padurariu</u> , L. Curecheriu, C. Galassi, L. Mitoseriu, Tailoring non-linear dielectric properties by local field engineering in anisotropic porous ferroelectric structures, Appl. Phys. Lett. 100, 252905 (2012)	3.794	4	63.16
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia, L. Mitoseriu, Field-dependent permittivity in nanostructured BaTiO ₃ ceramics: Modeling and experimental verification, Phys. Rev. B 85, 224111 (2012)	3.767	4	62.76
A. Ianculescu, Z. V. Mocanu, L. Curecheriu, <u>L. Padurariu</u> , L. Mitoseriu, R. Trusca, Dielectric and tunability properties of La-doped BT ceramics, Journal of Alloys and Compounds, 509,10040– 10049 (2011)	2.289	6	25.06
Z. V. Mocanu, G. Apachitei, <u>L. Padurariu</u> , F. Tudorache, L. P. Curecheriu, L. Mitoseriu, Impedance spectroscopy method for investigation of polycrystalline inhomogeneous ceramics, Eur. Phys. J. Appl. Phys. 56, 10102 (2011)	0.771	6	11.88
<u>L. Padurariu</u> , C. Enachescu, L. Mitoseriu, Monte Carlo simulations for describing the ferroelectric-relaxor crossover in BaTiO ₃ -based solid solutions, Journal of Physics: Condensed Matters 32, 5901-5913(2011)	2.546	3	59.25

Punctaj total pentru aceasta sectiune: P1=629.92

2. Articole științifice publicate *in extenso* in reviste cotate Web of Science fara factor de impact P2=0.0

3. Articole științifice publicate in extenso in reviste indexate BDI (15 puncte/numar autori)

L. Padurariu, L. Mitoseriu, Monte Carlo Simulations for Describing the Dielectric Properties of Ferroelectric Relaxors, Journal of Advanced Research in Physics, 32, 021006 (2010)

P3=7.5

4. Articole științifice publicate in extenso in volumele conferintelor

P4=0.0

5. Cărți științifice publicate la edituri academice internaționale (100 puncte la 100 pagini/nr. autori)

L. Padurariu, L. Mitoseriu, Local field engineering approach for tuning dielectric and ferroelectric properties in nanostructured ferroelectrics and composites, capitol in cartea Nanoscale ferroelectrics and multiferroics: Key processes and characterization issues, and nanoscale effects, Editori: Miguel Alguero, Marty Gregg, Liliana Mitoseriu, 29 pagini

P5=14.5

6. Cărți științifice traduse și publicate în edituri din străinătate: P6=0.0**7. Coordonarea și editarea de volume, traduceri și antologii: P7=0.0****8. Articole publicate in dicționare și enciclopedii: P8=0.0****9. Contracte de cercetare științifică în institutii academice (director: 50 puncte pentru fiecare 500000 lei; membru: 50 puncte pentru fiecare 500000 lei/numar de membri)**

Proiect	Poziția în statul de funcții	Buget (lei)	Nr. Membri	Punctaj
PN II –RU TE 187 - Investigarea efectelor de volum, interfață și de percolație în materialele compozite multifuncționale cu geometrie controlată și metamateriale (IMECOMP), 2010-2013	Asistent Cercetare	502.543	4	12.56
PN-II-ID-PCE-2011-3-0745 -Design de material, preparare, proprietati si modelare de structuri multifuncționale oxidice pentru microelectronica si noi aplicatii in stocare de energie (MULTIFOX), 2011-2016	Asistent Cercetare	1.500.000	7	21.43
Proiect bilateral România-Italia Searching for new BaO-TiO-FeO multiferroics: from material design to magnetoelectric applications (MULTIFER), 2013-2014	Asistent Cercetare	40.000	6	0.67
PNII-RU-TE-2012-3-0150, Investigation of the mesoscopic polar order and size effects in driving polarization mechanisms of tunability in perovskites (IMPOTUN), 2013-2015	Asistent Cercetare	645.833	6	10.76
PNII-PCCE-2-2011-0006- Efectul interfetelor asupra transportului de sarcina in heterostructuri feroice/multiferoice”, 2012-2016	Asistent Cercetare	490.000	6	8.17
PN-II-PT-PCCA-2013-4-1119 Magnetoelectric composites with emergent properties for wireless and sensing applications (MECOMAP), 2014-2016	Asistent Cercetare	431.250	12	3.59
Grant Intern GI-2015-05 - Modelarea proprietatilor de comutare in memorii feroelectrice, 2015-2016	Director	20.000	1	2.00
PNII-RU-TE-2014-4-1494 - Exploatarea porozitatii in materiale feroelectrice prin controlul campului local pentru imbunatatirea proprietatilor functionale	Director	550.000	8	55.00

Punctaj total pentru această secțiune: 114.18

10. Contracte de cercetare în mediul de afaceri și sectorul public: P10=0.0**11. Brevete: P11=0.0****12 Citări în reviste de specialitate din străinătate (10+20 x IF) / nr. autor**

Articol citat	Citare	IF citare	Nr. autori	Punctaj
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<p><u>L. Padurariu, C. Enachescu, L. Mitoseriu, Monte Carlo simulations for describing the ferroelectric-relaxor crossover in BaTiO₃-based solid solutions, Journal of Physics: Condensed Matters 32, 5901-5913(2011)</u></p>	<p>L. P. Curecheriu, M. Deluca, Z. V. Mocanu, M. V. Pop, V. Nica, N. Horchidan, M. T. Buscaglia, V. Buscaglia, M. Bael, A. Hardy, L. Mitoseriu, Investigation of the ferroelectric-relaxor crossover in Ce-doped BaTiO₃ ceramics by impedance spectroscopy and Raman study, Phase Transition 86, 703 (2013)</p>	<p>1.044</p>	<p>3</p>	<p>10.29</p>
	<p>N. Horchidan, A.C. Ianculescu, C.A. Vasilescu, M. Deluca, V. Musteata, H. Ursic, R. Frunza, B. Malic, L. Mitoseriu, Multiscale study of ferroelectric-relaxor crossover in BaSnxTi_{1-x}O₃ ceramics, J. Eur. Ceram. Soc. 34, 3661 (2014)</p>	<p>2.947</p>	<p>3</p>	<p>22.98</p>
	<p>Y.B. Ma, K. Albe, B.X. Xu, Lattice-based Monte Carlo simulations of the electrocaloric effect in ferroelectrics and relaxor ferroelectrics, Phys. Rev. B 91, 184108 (2015)</p>	<p>3.718</p>	<p>3</p>	<p>28.12</p>
	<p>S. Prosandeev, D.W. Wang, A.R. Akbarzadeh, L. Bellaiche, First-principles-based effective Hamiltonian simulations of bulks and films made of lead-free Ba (Zr,Ti)O-3 relaxor ferroelectrics, J. Phys.: Condens. Matter 27, 22 (2015)</p>	<p>2.209</p>	<p>3</p>	<p>18.06</p>
	<p>L.P. Curecheriu, C.E. Ciomaga, V. Musteata, G. Canu, V. Buscaglia, L. Mitoseriu, Diffuse phase transition and high electric field properties of BaCeyTi_{1-y}O₃ relaxor ferroelectric ceramics, Ceram. Int. 42, 11085-11092 (2016)</p>	<p>2.758</p>	<p>3</p>	<p>21.72</p>
<p>Z. V. Mocanu, G. Apachitei, <u>L. Padurariu, F. Tudorache, L. P. Curecheriu, L. Mitoseriu, Impedance spectroscopy method for investigation of polycrystalline inhomogeneous ceramics, Eur. Phys. J. Appl. Phys. 56, 10102 (2011)</u></p>	<p>Q.Zhang, N. Schmidt, Jolin Lan, W. Kim, G. Cao, A facile method for the synthesis of the Li_{0.3}La_{0.57}TiO₃ solid state electrolyte, Chem. Commun., 50, 5593-5596 (2014)</p>	<p>6.843</p>	<p>6</p>	<p>24.48</p>
	<p>M. Airimioaei, M.Palamaru, A.Iordan, P. Berthet, C. Decorse, L. Curecheriu, L. Mitoseriu, Structural Investigation and Functional Properties of Mg_xNi_{1-x}Fe₂O₄ Ferrites, J. Am. Ceram. Soc., 97 519-526 (2014)</p>	<p>2.610</p>	<p>6</p>	<p>10.37</p>
	<p>R.B. Kamble, V. Varade, K.P. Ramesh, V. Prasad, Domain size correlated magnetic properties and electrical impedance of size dependent nickel ferrite nanoparticles, AIP Advances 5, 0171119 (2015)</p>	<p>1.444</p>	<p>6</p>	<p>6.48</p>
	<p>A. M. Ionascu, P.V. Notingher, R. Bercia, Modeling of Solid Electrolyte Based on Ceria for Intermediate Temperature Fuel Cells, 2015 9th International Symposium on Advanced Topics In Electrical Engineering, 484-489 (2015)</p>	<p>0</p>	<p>6</p>	<p>1.67</p>
	<p>X. V. Shang, W. Chen, , W.-Q. Cao, Research on dielectric tunability of relaxor ferroelectrics, Acta Physica Sinica, 61, 217701 (2012)</p>	<p>1.016</p>	<p>6</p>	<p>5.05</p>
<p>A. Ianculescu, Z. V. Mocanu, L. Curecheriu, <u>L. Padurariu, L. Mitoseriu, R. Trusca, Dielectric and tunability properties of La-doped BT ceramics, Journal of Alloys and Compounds, 509,10040-10049 (2011)</u></p>	<p>B. Wodecka-Dus, M. Adamczyk, K. Osinska, M. Plonska, D. Czekaj, Dielectric properties of Ba_{1-x}La_xTi_{1-x/4}O₃ ceramics with different La³⁺ content, Advances in Science and Technology, 77, 35-40 (2013)</p>	<p>0</p>	<p>6</p>	<p>1.67</p>
	<p>M.L.V. Mahesh, V.V. Bhanu Prasad, A.R. James, Effect of sintering temperature on the microstructure and electrical properties of zirconium doped barium titanate ceramics, J Mater Sci- Mater El, 24, 4684 (2013)</p>	<p>1.966</p>	<p>6</p>	<p>8.22</p>
	<p>A. Mahmood, Y. Iqbal, A. Ullah, Phase, microstructure and electrical characterization of Ba_{1-x}La_x(Zr_{0.6}Ti_{0.4})_{1-x/4}O₃ ceramics, J Mater Sci- Mater El, 26, 113 (2014)</p>	<p>1.569</p>	<p>6</p>	<p>6.90</p>
	<p>H. Chen, Z. Cao, L. Wang, W. He, J. Sun, , Y. Zhang, X. Ruan, The giant dielectric constant and tunable properties of La 2NiMnO₆-xMgO ceramics, J. Alloy. Compd. 616, 213-222 (2014)</p>	<p>2.999</p>	<p>6</p>	<p>11.66</p>
	<p>P. Ren, H. Fan, X. Wang, D. Guangzhi, Phase transition, high figure of merit and polar nano-regions in dielectric tunable lanthanum substituted barium titanate, J. Alloy. Compd. 617, 337 (2014)</p>	<p>2.999</p>	<p>6</p>	<p>11.66</p>
	<p>K.E. Oksuz, S. Sen, U. Sen, Effects of B2O3 addition on the sintering behavior of 0-5-10% ZrO2 doped BaTiO3 based ceramics, Acta Physica Polonica A, 127, 1086 (2015)</p>	<p>0.525</p>	<p>6</p>	<p>3.42</p>
	<p>S.Z. Cui, D.Y. Lu, X.Y. Sun, Study of the solubility of La³⁺-Dy³⁺ defect complexes and dielectric properties of (Ba_{1-x}Lax) (Ti_{1-x}Dyx)O-3 ceramics, Ceramics International, 41, 2301 (2015)</p>	<p>2.758</p>	<p>6</p>	<p>10.86</p>
	<p>Z. Cao, L.Y. Wang, W.Y. He, J.T. Zeng, Y.F. Gao, J.R. Liu, S.L. Leng, The electric and dielectric responses of La2Ni_{1-x}MgxMnO₆ solid solution, J. Alloy. Compd. 628, 81 (2015)</p>	<p>3.014</p>	<p>6</p>	<p>11.71</p>
	<p>A.C. Ianculescu, C.A. Vasilescu, M. Crisan, M. Raileanu, N.S. Vasile, M. Calugaru, D. Crisan, N. Dragan, L. Curecheriu, L. Mitoseriu, Formation mechanism and characteristics of lanthanum-doped BaTiO₃ powders and ceramics prepared by the sol-gel process, Materials Characterization, 106, 195 (2015)</p>	<p>2.383</p>	<p>6</p>	<p>9.61</p>
	<p>A. Kumar, V.V. Bhanu Prasad, K.C. James Raju, A.R. James, Optimization of poling parameters of mechanically processed PLZT 8/60/40 ceramics based on dielectric and piezoelectric studies, EPJB, 88, 287 (2015)</p>	<p>1.223</p>	<p>6</p>	<p>5.74</p>
	<p>V. Paunovic, V. Mitic, M. Marjanovic, L. Kocic, Dielectric Properties Of La/Mn Codoped Barium Titanate Ceramics, Facta Universitatis-Series Electronics And Energetics, 29, 285-296 (2016)</p>	<p>0</p>	<p>6</p>	<p>1.67</p>
	<p>A. Mahmood, E. Mensur-Alkoy, A. Naem, Y. Iqbal, A. Ullah, S. Alkoy, Effect of La substitution on the microstructure and dielectric properties of the sol-gel derived BaZr_{0.2}Ti_{0.8}O₃ thin films, Thin Solid Films 611, 68-73 (2016)</p>	<p>1.761</p>	<p>6</p>	<p>7.54</p>
	<p>D.Y. Lu, T.T. Liu, Dielectric properties and defect chemistry of (Ba_{1-x}Lax)(Ti_{1-x}Lux)O₃ ceramics, J. Alloy. Compd. 698, 967 (2017)</p>	<p>3.014</p>	<p>6</p>	<p>11.71</p>
	<p>F. Maldonado, A. Stashans, DFT study of Ag and La codoped BaTiO₃, J. Phys. Chem. Solids, 102, 136 (2017)</p>	<p>2.048</p>	<p>6</p>	<p>8.49</p>

<p><u>L. Padurariu, L. Curecheriu, C. Galassi, L. Mitoseriu, Tailoring non-linear dielectric properties by local field engineering in anisotropic porous ferroelectric structures, Appl. Phys. Lett. 100, 252905 (2012)</u></p>	B. Chen, J.Wang, M. Zhou, J. Wan, J. Liu, Enhanced Magnetodielectric Effect in Graded $\text{CoFe}_2\text{O}_4/\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ Particulate Composite Films, J. Am. Ceram. Soc. 97, 1450–1455 (2014)	2.610	4	15.55
	A. Neagu, L.P. Curecheriu, A. Cazacu, L. Mitoseriu, Impedance analysis and tunability of BaTiO_3 –chitosan composites: Towards active dielectrics for flexible electronics, Composites: Part B 66 109–116 (2014)	2.983	4	17.42
	T.Sa, Z. Cao, Y. Wang, H. Zhu, Enhancement of charge and energy storage in PbZrO_3 thin films by local field engineering, Applied Physics Letters 105, 043902 (2014)	3.302	4	19.01
	L. Amaral, P. M. Vilarinho, A. M. R. Senos, Electrophoretic deposition and constrained sintering of strontium titanate thick films, Materials Chemistry and Physics 149-150, 445-452 (2015)	2.101	4	13.01
	J. Lesseur, D. Bernard, U.-C. Chung, C. Estournès, M.Maglione, C. Elissalde, 3D mapping of anisotropic ferroelectric/dielectric composites, J. Eur. Ceram. Soc. 35, 337-345 (2015)	2.933	4	17.17
	R.L. Johnson-Wilke, R.H.T. Wilke, M. Wallace, A. Rajashekhar, G. Esteves, Z. Merritt, J.L. Jones, S. Trolier-McKinstry, Ferroelectric/Ferroelastic Domain Wall Motion in Dense and Porous Tetragonal Lead Zirconate Titanate Films, IEEE Trans. Ultrason. Ferroelectr. freq. control 62, 46-55 (2015)	2.287	4	13.94
	T.T. Xu, C.A. Wang, Grain Orientation and Domain Configuration in 3-1 Type Porous PZT Ceramics with Ultrahigh Piezoelectric Properties, J. Am. Cer. Soc. 98, 2700-2702 (2015)	2.787	4	16.44
<p><u>L. Padurariu, L. Curecheriu, V. Buscaglia, L. Mitoseriu, Field-dependent permittivity in nanostructured BaTiO_3 ceramics: Modeling and experimental verification, Phys. Rev. B 85, 224111 (2012)</u></p>	A. Sakanas, R. Grigalaitis, J. Banys, L. Curecheriu, L. Mitoseriu, V. Buscaglia, Microstructural influence on the broadband dielectric properties of BaTiO_3 - $\text{Ni}_0.5\text{Zn}_0.5\text{Fe}_2\text{O}_4$ core-shell dcomposites: Experiment and modeling, J. Appl. Phys. 118, 174106 (2015)	2.101	4	13.01
	R. Khachatryan, S. Zhukov, J. Schulthei, C. Galassi, C. Reimuth, J. Koruza, H. von Seggern, Y. A Genenko Polarization-switching dynamics in bulk ferroelectrics with isometric and oriented anisometric pores, Journal of Physics D: Applied Physics, 50, 045303 (2017)	2.772	4	16.36
	L. Curecheriu, S.Balmus, M. T. Buscaglia, V. Buscaglia, A. Ianculescu, and L. Mitoseriu, Grain Size-Dependent Properties of Dense Nanocrystalline Barium Titanate Ceramics, J. Am. Ceram. Soc., 95, 3912–3921 (2012)	2.107	4	13.04
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	S. Zhang, X. Wang, H. Wang, L. Li, Grain boundary region and local piezoelectric response of BiScO_3 - PbTiO_3 nanoceramics prepared by combination of SPS and two-step sintering, J. Eur. Ceram. Soc. 34, 2317–2323 (2014)	2.947	4	17.24
	C. Mao, S. Yan, S. Cao, C. Yao, F.Cao, G. Wang, X. Dong, X. Hu, C. Yang, Effect of grain size on phase transition, dielectric and pyroelectric properties of BST ceramics, J. Eur. Ceram. Soc. 34, 2933–2939 (2014)	2.947	4	17.24
	R. P. Jiménez, J. P. Rino, J. A. Eiras, Ferroelectric Domain Wall as Stretched Membrane: Nonlinear Dielectric Response and Tunability, Ferroelectrics 461, 29-37 (2014)	0.469	4	4.85
	N. Salazar, M. Alguero, H. Amorin, A. Castro, A. Gil, J. Ricote, Local characterization of nanostructured high sensitivity piezoelectric BiScO_3 - PbTiO_3 ceramics by piezoresponse force microscopy, J. Appl. Phys. 116, 124108 (2014)	2.183	4	13.42
	L. Curecheriu, P. Postolache, M. T. Buscaglia, V. Buscaglia, A. Ianculescu, L. Mitoseriu, Novel magnetoelectric ceramic composites by control of the interface reactions in Fe_2O_3 @ BaTiO_3 core-shell structures, J. Appl. Phys. 116, 084102 (2014)	2.183	4	13.42
	L. Curecheriu, M. T. Buscaglia, F. Maglia, U. Anselmi-Tamburini, V. Buscaglia, L. Mitoseriu, Design tunable materials: Ferroelectric-antiferroelectric composite with core-shell structure, Appl. Phys. Lett. 105, 25 (2014)	3.302	4	19.01
	J. Lesseur, D. Bernard, U.-C. Chung, C. Estournès, M.Maglione, C. Elissalde, 3D mapping of anisotropic ferroelectric/dielectric composites, J. Eur. Ceram. Soc. 35, 337-345 (2015)	2.933	4	17.17
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	H. Ghayour, M. Abdellahi, A brief review of the effect of grain size variation on the electrical properties of BaTiO_3 -based ceramics, Powder Technology, 292, 84-93 (2016)	2.759	4	16.30
	S. Zheng, L.X. Li, W.J. Luo, H.R. Zheng, Effects of dwell time on dielectric properties and diffuse phase transition behavior of Li_2CO_3 doped $\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$	1.798	4	11.49

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	O. Condurache, I. Turcan, L. Curecheriu, C. Ciomaga, P. Postolache, G. Ciobanu, L. Mitoseriu, Towards novel functional properties by interface reaction in mixtures of BaTiO ₃ -Fe ₂ O ₃ composite ceramics, Cer. Intern. 43, 1098 (2017)	2.758	4	16.29
C. E. Ciomaga, C. S. Olariu, <u>L. Padurariu</u> , A. V. Sandu, C. Galassi, L. Mitoseriu, Low field permittivity of ferroelectric-ferrite ceramic composites: Experiment and modeling, J. Appl. Phys. 112, 094103 (2012)	L. Curecheriu, P. Postolache, M. T. Buscaglia, V. Buscaglia, A. Ianculescu, and L. Mitoseriu, Novel magnetoelectric ceramic composites by control of the interface reactions in Fe ₂ O ₃ @BaTiO ₃ core-shell structures, J. Appl. Phys. 116, 084102 (2014)	2.183	6	8.94
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	A. Sakanas, R. Grigalaitis, M. Ivanov, J. Banys, L. Mitoseriu, V. Buscaglia, P. Nanni, The Alternative Expression of Lichtenecker's Logarithmic Mixture Formula and Its Application to the Broadband Dielectric Spectroscopy of BaTiO ₃ -Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ Composites, Ferroelectrics, 479, 90-97 (2015)	0.491	6	3.30
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	O. Condurache, I. Turcan, L. Curecheriu, C. Ciomaga, P. Postolache, G. Ciobanu, L. Mitoseriu, Towards novel functional properties by interface reaction in mixtures of BaTiO ₃ -Fe ₂ O ₃ composite ceramics, Cer. Intern. 43, 1098 (2017)	2.758	6	10.86
A. Cazacu, L. Curecheriu, A. Neagu, <u>L. Padurariu</u> , A. Cernescu, I. Lisiecki, L. Mitoseriu, Tunable gold-chitosan nanocomposites by local field engineering, Appl. Phys. Lett., 102, 222903 (2013).	A. Neagu, L.P. Curecheriu, A. Cazacu, L. Mitoseriu, Impedance analysis and tunability of BaTiO ₃ -chitosan composites: Towards active dielectrics for flexible electronics, Composites Part B 66 109–116 (2014)	2.983	7	9.95
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	R. Khachatryan, S. Zhukov, J. Schulthei, C. Galassi, C. Reimuth, J. Koruza, H. von Seggern, Y. A Genenko Polarization-switching dynamics in bulk ferroelectrics with isometric and oriented anisometric pores, Journal of Physics D: Applied Physics, 50, 045303 (2017)	2.772	8	8.18
<u>L. Padurariu</u> , L. P. Curecheriu, L. Mitoseriu, Nonlinear dielectric properties of paraelectric-dielectric composites described by a 3D Finite Element Method based on Landau-Devonshire theory, Acta Materialia, 103, 724 (2016)	O. Condurache, I. Turcan, L. Curecheriu, C. Ciomaga, P. Postolache, G. Ciobanu, L. Mitoseriu, Towards novel functional properties by interface reaction in mixtures of BaTiO ₃ -Fe ₂ O ₃ composite ceramics, Ceram. Int. 43, 1098 (2017)	2.758	3	21.72
	R. Khachatryan, S. Zhukov, J. Schulthei, C. Galassi, C. Reimuth, J. Koruza, H. von Seggern, Y. A Genenko, Polarization-switching dynamics in bulk ferroelectrics with isometric and oriented anisometric pores, Journal of Physics D: Applied Physics, 50, 045303 (2017)	2.772	3	21.81

Punctaj total pentru aceasta sectiune: P12=918.21

13. Lucrări susținute în calitate de invitat la manifestări științifice (25 puncte prezentari invitate la conferințe în străinătate și 10 puncte pentru conferințe naționale)

Prezentare	Tip conferinta	Punctaj
<u>L. Padurariu</u> , L. Mitoseriu, Modeling of the nonlinear dielectric properties of paraelectric-dielectric composites by a 3D Finite Element Method based on Landau-Devonshire theory, Electroceramics XV, 27-29 June 2016, Limoges, France	Străinătate	25
<u>L. Padurariu</u> , L. Curecheriu, C. Ciomaga, L. Mitoseriu, Tailoring properties in ferroelectric-based composites by local field engineering, 8 th International Workshop on Amorphous and Nanostructured Magnetic Materials, 21-24 September 2015, Iasi	În țară	10
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia, C. Galassi, L. Mitoseriu, Local field engineering for tailoring electrical properties in ferroelectric-based composites, The 8 th International Conference On Advanced Materials, ROCAM, 7-10 July 2015, Bucharest	În țară	10
C. E. Ciomaga, <u>L. Padurariu</u> and L. Mitoseriu, Ferroelectric-ferrite/CNT ceramic composites: synthesis, functional properties and modeling, 3 rd Conference of The Serbian Society for Ceramic Materials, June 15-17, 2015, Belgrade, Serbia	Străinătate	25
P. M. Vilarinho, A. Castro, <u>L. Padurariu</u> , L. Mitoseriu, B. Rodriguez, P. Ferreira, Nanoporous ferroelectrics: modeling, synthesis and applications, 13th European Meeting on Ferroelectricity, 28 June-3 July 2015, Porto, Portugal	Străinătate	25

Punctaj total pentru aceasta sectiune: P13=95

14. Profesor/cercetator invitat la universitati/ institute de cercetare (strainatate: 25 puncte; tara: 10 puncte)

Activitate	Locatie	Punctaj
Short Term Scientific Mission in cadrul proiectului COST MP0904 la Universitatea din Aveiro, colaborare cu Prof. Dr. Paula Vilarinho. Tema: Modelarea rolului porozitatii asupra proprietatilor de comutare in straturi subtiri feroelectrice	Strainatate	25

P14=25

15. Editor/Membru in Editorial Board & Advisory Board: P15=0.0

16. Premii internaționale (100 de puncte pentru fiecare premiu international)

1. Premiu pentru cea mai bună prezentare orală "Modeling the size effects on the dielectric properties in nanostructured ferroelectric ceramics" la conferința Cost MP0904 Showcase organizată la Electroceramics XIV, București, Romania, 16-20 iunie 2014

2. Premiu centrului de excelență CARPATH în 2012 pentru lucrarea " Tailoring non-linear dielectric properties by local field engineering in anisotropic porous ferroelectric structures" publicată în Applied Physics Letters
3. Premiu pentru cea mai bună prezentare orală la 9th Interantional Conference on Physics of Advanced Materials, 20-23 Septembrie 2012, Iasi, Romania
4. Premiu pentru cea mai bună prezentare poster la COST MP0904 Training School Meeting, Genova, 12-13 Martie 2012 pentru lucrarea "Permittivity vs. field dependence in nanostructured ferroelectric ceramics: the role of grain size".

P16=400

17. Premii ale academiei romane: P17=0.0

18. Alte premii nationale ale institutiilor culturale P18=0.0

19. Participari la manifestari stiintifice (internationale: moderator panel - 15 puncte, raportor pe sectiune/panel -10 puncte)

Activitate	Punctaj
Chair of the section "Improper ferroelectricity and diluted magnetism", Electroceramics XV, Limoges, 27-29 June 2016	15
<u>L. Padurariu</u> , L. Curecheriu, R. Stanculescu, C. Ciomaga, C. Padurariu, C. Galassi, L. Mitoseriu, Modeling of the dielectric properties of porous ferroelectric structures, Joint 8th Management Committee Meeting (MCM8) Meetings of Working Groups WG1-WG4, 8-9 September 2016, Warsaw, Poland (oral)	10
<u>L. Padurariu</u> , L. Mitoseriu, Modeling of the nonlinear dielectric properties of paraelectric-dielectric composites by a 3D Finite Element Method based on Landau-Devonshire theory, Joint ISAF/ECAPD/PEF conference, 21-25 August 2016, Darmstadt, Germany (oral)	10
L.P. Curecheriu, C. Padurariu, <u>L. Padurariu</u> , L. Mitoseriu, Exploiting porosity for design tunable materials, ISAF/ECAPD/PEF conference, 21-25 August 2016, Darmstadt, Germany (oral)	10
<u>L. Padurariu</u> , L. Mitoseriu, Modeling of cross-talk phenomena in ferroelectric ananocapacitor systems, Joint ISAF/ECAPD/PEF conference, 21-25 August 2016, Darmstadt, Germany (poster)	10
L.Curecheriu, <u>L. Padurariu</u> , M.T. Buscaglia, V. Buscaglia, L. Mitoseriu, Effect of porosity on ferroelectric-relaxor crossover in BaTiO ₃ -based solid solutions, Electroceramics XV, 27-29 June 2016, Limoges, France (oral)	10
<u>L. Padurariu</u> , L. Mitoseriu, Modeling of cross-talk phenomena in ferroelectric ananocapacitor systems, Electroceramics XV, 27-29 June 2016, Limoges, France (poster)	10
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia, L. Mitoseriu, Modeling the size effects in nanostructured ferroelectric ceramics, The 8 th International Conference On Advanced Materials, ROCAM, 7-10 July 2015, Bucharest, (oral)	10
C. E. Ciomaga, <u>L. Padurariu</u> , L.P. Curecheriu, I. Lisiecki, M. Deluca, C. Galassi, L. Mitoseriu, Using multi-walled carbon nanotubes in spark plasma sintered ferroelectric ceramics for tailoring dielectric and tunability properties, The 8 th International Conference On Advanced Materials, ROCAM, 7-10 July 2015, Bucharest	10
R. Stanculescu, C.E. Ciomaga, <u>L. Padurariu</u> , N. Horchidan, C. Galassi, L. Mitoseriu, Study of the role of Graphite-derived porosity on the BT-based materials functional properties, 13th European Meeting on Ferroelectricity, 28 June-3 July 2015, Porto, Portugal (oral)	10
N. Horchidan, <u>L. Padurariu</u> , L. Mitoseriu, FORC method - a complementary analysis for high field characterization for different ferroelectric systems, 13th European Meeting on Ferroelectricity, 28 June-3 July 2015, Porto, Portugal (poster)	10
<u>L. Padurariu</u> and L. Mitoseriu, Local field engineering for designing tunable materials, European Conference on Application of Polar Dielectrics 7-11 July 2014 - Vilnius, Lithuania (oral)	10
L.P. Curecheriu, <u>L. Padurariu</u> , L. Mitoseriu, Nonlinear dependence of dielectric constant in polymerbased composite, European Conference on Application of Polar Dielectrics 7-11 July 2014 - Vilnius, Lithuania (oral)	10
N. Horchidan, A. Ianculescu, H. Ursic, B. Malic, M. Deluca, L. Curecheriu, <u>L. Padurariu</u> , L. Mitoseriu, The influence of microstructure on functional properties of $Ba(Sn_xTi_{1-x})O_3$ ceramics, European Conference on Application of Polar Dielectrics 7-11 July 2014 - Vilnius, Lithuania (poster)	10
<u>L. Padurariu</u> and L. Mitoseriu, Tunable composites materials designed by local field engineering, Electroceramics XIV, 16-20 June 2014, Bucharest, Romania (oral)	10
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia, Liliana Mitoseriu, Modeling the size effects on the dielectric properties in nanostructured ferroelectric ceramics, COST MP0904 Action Showcase, 17 June 2014, Bucharest, Romania (oral)	10
<u>L. Padurariu</u> , L. Mitoseriu, Using Finite Element Method for Material Design: Tailoring Permittivity and Tunability of Ferroelectric Based Composites, COST IC1208 Workshop, 20th-21th March 2014, Santarem, Portugal (oral)	10
<u>L. Padurariu</u> , C. Galassi, L. Mitoseriu, Modeling of the Dielectric Properties of Porous Ferroelectric Structures, Closing Conference COST MP0904 - SIMUFER, CNR-IENI, 30th January-1st February 2014, Genoa, Italy (oral)	10
N. Horchidan, C. Galassi, C. Capiani, H. Ursic, B. Malic, M.V. Pop, <u>L. Padurariu</u> , L. Mitoseriu, Influence of Length Scale Degree and Sintering Method on Functional Properties of PZT Camposites with Soft/Hard Counterparts, Closing Conference COST MP0904 - SIMUFER, CNR-IENI, 30th January-1st February 2014, Genoa, Italy (poster)	10
C. Padurariu, <u>L. Padurariu</u> , L. Curecheriu, C. Galassi, L. Mitoseriu, Investigation of the Role of Interconnectivity on the Dielectric Properties of PZTN Porous Ceramics, Closing Conference COST MP0904 - SIMUFER, CNR-IENI, 30th January-1st February 2014, Genoa, Italy (poster)	10
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia, L. Mitoseriu, FEM Models for Describing Size Effects on the Dielectric Properties	10

in Nanostructured Ferroelectric Ceramics, Closing Conference COST MP0904 - SIMUFER, CNR-IENI, 30th January-1st February 2014, Genoa, Italy (poster)	
C.E.Ciomaga, L.P.Curecheriu, <u>L. Padurariu</u> , N.Lupu, I. Lisiecki, C. Galassi, L. Mitoseriu, Enhanced Ferroelectric Properties of Ferroelectric-CNTS Composite Ceramics, Closing Conference COST MP0904 - SIMUFER, CNR-IENI, 30th January-1st February 2014, Genoa, Italy (poster)	10
A. Neagu, <u>L. Padurariu</u> , L. Curecheriu, L. Mitoseriu, Dielectric properties of polymer matrix nanocomposites, The Third Early Stage Researchers Workshop” COST MP0904 – SIMUFER, 6-9 November 2013, Novi Sad, Serbia (oral)	10
<u>L. Padurariu</u> , C. Galassi, L. Mitoseriu, Investigation of the role of porosity on the switching properties of Nb-PZT ceramics: experiment and modeling, 10th Student Meeting, 6-9 November 2013, Novi Sad, Serbia (oral)	10
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia, L. Mitoseriu, Grain size effect on nonlinear properties in nanostructured ferroelectric ceramics: modeling and experimental validation, 13 th International Meeting on Ferroelectricity, 2-6 september 2013, Kraków, Poland (oral)	10
N. Horchidan, C. Galassi, M. V. Pop, <u>L. Padurariu</u> , H. Ursic, B. Malic, L. Mitoseriu, Influence of different degree of mixing on dielectric properties of hard/soft PZT composite materials, 13 th International Meeting on Ferroelectricity, 2-6 september 2013, Kraków, Poland (poster)	10
C. E. Ciomaga, <u>L. Padurariu</u> , L. P. Curecheriu, N. Lupu, C. Galassi, L. Mitoseriu, Electric and ferroelectric properties of ferroelectric-carbon nanotubes ceramic composites, 13 th International Meeting on Ferroelectricity, 2-6 september 2013, Kraków, Poland (poster)	10
<u>L. Padurariu</u> , L. Mitoseriu, Electrical properties of ferroelectric composites in terms of local field inhomogeneity, COST SIMUFER Action MPO904 Workshop, 2-3 september 2013, Kraków, Poland (oral)	10
N. Horchidan, C. Galassi, M.V. Pop, <u>L. Padurariu</u> , M. Airimioaei, C. Capiani, L. Mitoseriu, Dielectric and Ferroelectric Properties of Hard/Soft composites ceramics, COST SIMUFER Action MPO904 Workshop, 2-3 september 2013, Kraków, Poland (poster)	10
C. E. Ciomaga, M.V. Pop, <u>L. Padurariu</u> , M. Airimioaei, C. Galassi and L. Mitoseriu, Effect of composition on functional properties of ferroelectric-ferrite composite systems, Joint IEEE, UFFC, EFTF and PFM Symposia, 21—25 July 2013 , Prague, Czech Republic (poster)	10
<u>L. Padurariu</u> , L. Mitoseriu, Electrical properties of ferroelectric composites described in terms of local field inhomogeneity, Joint IEEE, UFFC, EFTF and PFM Symposia, 21—25 July 2013 , Prague, Czech Republic (poster)	10
<u>L. Padurariu</u> , M.V.Pop, C.Galassi, L.Mitoseriu, First Order Reversal Curve Modeling of porous ferroelectric systems, COST SIMUFER Action MPO904 Workshop Advances in Ferroelectrics and Multiferroics, Institute of Physics AS CR, 21 July 2013, Prague, Czech Republic (oral)	10
L.P. Curecheriu, A. Cazacu, Al. Neagu, <u>L. Padurariu</u> and L. Mitoseriu, Tunable chitosan-based nanocomposite by local field engineering, COST SIMUFER Action MPO904 Workshop Advances in Ferroelectrics and Multiferroics, Institute of Physics AS CR, 21 July 2013, Prague, Czech Republic (oral)	10
N. Horchidan, H. Ursic, B. Malic, A. Ianculescu, M. Deluca, M.V. Pop, <u>L. Padurariu</u> and L. Mitoseriu, Ferroelectric-relaxor crossover in $\text{Ba}(\text{Sn}_x\text{Ti}_{1-x})\text{O}_3$ ceramics: study of properties at different lengthscales, COST SIMUFER Action MPO904 Workshop Advances in Ferroelectrics and Multiferroics, Institute of Physics AS CR, 21 July 2013, Prague, Czech Republic (poster)	10
<u>L. Padurariu</u> , L. Curecheriu, M. Pop, C. Galassi, V.Buscaglia and L. Mitoseriu, The role of the local electric field inhomogeneity on the electrical properties of ferroelectric composites, COST MP0904 Action „Recent advances in ferro/piezoelectric and multiferroic-based composites”, 22-23 April 2013, Faenza, Italy (oral)	10
F. Gheorghiu, <u>L. Padurariu</u> , Mihai V. Pop, C. Ciomaga, C. Capiani, C. Galassi and L. Mitoseriu, The role of porosity on the ferroelectric properties of PZTN ceramics: experiment and modeling, COST MP0904 Action „Recent advances in ferro/piezoelectric and multiferroic-based composites”, 22-23 April 2013, Faenza, Italy (poster)	10
<u>L. Padurariu</u> , M. Alexe, L. Mitoseriu, Simulation of cross-talk phenomena in ferroelectric nanocapacitor systems, Workshop on Nanoscale Phenomena in Ferroics and Multiferroics, 21 st March 2013, Belfast, UK (oral)	10
Lavinia Curecheriu, <u>Leontin Padurariu</u> , Vincenzo Buscaglia, Liliana Mitoseriu. Non-linear dielectric properties in ferroelectric oxides: material design, experiment and modelling, International Scientific Conference «10 YEARS OF NANOTECHNOLOGY DEVELOPMENT IN THE REPUBLIC OF MOLDOVA», October 22 – 23 rd , 2012, Balti (oral)	10
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia and L. Mitoseriu, Modeling of the grain size effect on nonlinear dielectric properties in nanostructured ferroelectric ceramics, Joint Conference COST MP0904 Action "Single-and multiphase ferroics and multiferroics with restricted geometries" & the 9 th Edition IEEE-ROMSC 2012, 24-26 September 2012, Iasi, Romania (oral)	10
C.S. Olariu, <u>L. Padurariu</u> , C.E. Ciomaga, C. Galassi and L. Mitoseriu, Effective Medium Approximation and Finite Element Method for prediction of dielectric properties in composite materials, Joint Conference COST MP0904 Action "Single-and multiphase ferroics and multiferroics with restricted geometries" & the 9 th Edition IEEE-ROMSC 2012, 24-26 September 2012, Iasi, Romania (poster)	10
C.S. Olariu, <u>L. Padurariu</u> , C. Galassi and L. Mitoseriu, EMA and FEM modeling of dielectric properties of anisotropic PZT ceramics, 9 th International Conference on Physics of Advanced Materials, 20-23 September 2012, Iasi, Romania, (poster)	10
<u>L. Padurariu</u> , L.P. Curecheriu and L. Mitoseriu, Tailoring dc-tunability properties by local field engineering in ferroelectric structures, 9 th International Conference on Physics of Advanced Materials, 20-23 September 2012, Iasi, Romania (oral)	10
<u>L. Padurariu</u> , L. Curecheriu, L. Mitoseriu, V. Buscaglia, Modelling of the grain size effect on nonlinear properties in nanostructured ferroelectric ceramics, ISAF-ECAPD 9-13 July 2012, Aveiro, Portugal (oral)	10
Lavinia-Petronela Curecheriu, <u>Leontin Padurariu</u> , Liliana Mitoseriu and Vincenzo Buscaglia , Tailoring dc-tunability	10

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<u>L. Padurariu</u> , M. Alexe, L. Mitoseriu, Simulation of cross-talk phenomena in ferroelectric nanocapacitor systems, ISAF-ECAPD 9-13 July 2012, Aveiro, Portugal (poster)	10
L.P. Curecheriu, A.M. Neagu, G. Apachitei, M.T. Buscaglia, G. Canu, <u>L. Padurariu</u> , M. Pop, L. Mitoseriu, V. Buscaglia, New magtenoelectric materials: $\text{Ba}_{12}\text{Fe}_{28}\text{Ti}_{15}\text{O}_{84}$ intergrowth layered ferrite, ISAF-ECAPD 9-13 July 2012, Aveiro, Portugal (poster)	10
C. E. Ciomaga, C. S. Olariu, <u>L. Padurariu</u> , C. Galassi and L. Mitoseriu „Study of microwave electromagnetic properties in xNiFe_2O_4 -(1-x)PZT magnetoelectric composites”, ISAF-ECAPD 9-13 July 2012, Aveiro, Portugal (poster)	10
Liliana Mitoseriu, Lavinia Curecheriu, <u>Leontin Padurariu</u> , Catalin Harnagea and Vincenzo Buscaglia, New insights on grain size and interface effects in nanostructured ferroelectric ceramics, Electroceramics XIII, 24-27 June, Twente, Holland (oral)	10
L.P. Curecheriu, <u>L. Padurariu</u> , L. Mitoseriu and V. Buscaglia, A new approach for tayloring tunability and permittivity values by using grain size reduction at nanoscale, Electroceramics XIII, 24-27 June, Twente, Holland (oral)	10
<u>L. Padurariu</u> , L. Curecheriu, L. Mitoseriu and C. Galassi Anisotropy effects on the dc-tunability characteristics of porous ferroelectric ceramics, Electroceramics XIII, 24-27 June, Twente, Holland (poster)	10
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Punctaj total pentru această secțiune: P19=655

$$\text{Punctaj total cercetare: PC} = \sum_{i=1}^{19} P_i = 2859.31$$

Activitate didactică

Organizare de aplicații și practică de specialitate (5 puncte pentru fiecare aplicație)

1. Organizarea de experimente de electricitate și magnetism pentru Zilele Porților Deschise la UAIC
2. Organizarea de cursuri pregătitoare pentru examenul de Bacalaureat la Facultatea de Fizică (UAIC)
3. Propunere de subiecte pentru concursul studențesc "Dragomir Hurmuzescu" la Facultatea de Fizică (UAIC)

Punctaj total activitatea didactică: PD=15

$$\text{Punctaj final: PF} = 0.7 \cdot \text{PC} + 0.3 \cdot \text{PD} = 2006.017$$