

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

Nr. Art.	Articol	Factor ISI	Nr. autori	Punctaj
1	V.A. Lukacs, I. Turcan, L. Padurariu, L. Curecheriu, A. Cernescu, G. Stoian, C.E. Ciomaga, F. Tufescu, N. Lupu, L. Mitoseriu, Nonlinear dielectric properties of BaTiO ₃ - Silver composites: The role of microstructure, JOURNAL OF ALLOYS AND COMPOUNDS, in press (2020)	4,175	10	27,55
2	N. Horchidan, L. Padurariu, C.E. Ciomaga, L. Curecheriu, M. Airimioaei, F. Doroftei, F. Tufescu, L. Mitoseriu, Room temperature phase superposition as origin of enhanced functional properties in BaTiO ₃ - based ceramics, JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, in press (2020)	4,029	8	33,3425
3	A. Guzu, C.E. Ciomaga, M. Airimioaei, L. Padurariu, L.P. Curecheriu, I. Dumitru, F. Gheorghiu, G. Stoian, M. Grigoras, N. Lupu, M. Asandulesa, L. Mitoseriu, Functional properties of randomly mixed and layered BaTiO ₃ -CoFe ₂ O ₄ ceramic composites close to the percolation limit, JOURNAL OF ALLOYS AND COMPOUNDS, 796, 55-64 (2019)	4,175	13	21,19231
4	I. Turcan, V.A. Lukacs, L. Curecheriu, L. Padurariu, C.E. Ciomaga, M. Airimioaei, G. Stoian, N. Lupu, L. Mitoseriu, Microstructure and dielectric properties of Ag-BaTiO ₃ composite ceramics, JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 38, 5420-5429 (2018)	4,029	9	29,63778
5	L. Padurariu, L. Mitoseriu, Modeling of cross-talk phenomena in thin film ferroelectric nanocapacitor arrays by finite element method combined with Monte Carlo calculations, JOURNAL OF APPLIED PHYSICS, 122, 144106 (2017)	2,176	2	77,78
6	R.E. Stanculescu, N. Horchidan, C. Galassi, M. Asandulesa, L. Padurariu, C.E. Ciomaga, L. Mitoseriu, Porous (Ba,Sr)TiO ₃ ceramics for tailoring dielectric and tunability properties: Modelling and experiment, PROCESSING AND APPLICATION OF CERAMICS, 11, 235-246 (2017)	1,152	7	13,44571
7	C. Padurariu, L. Padurariu, L. Curecheriu, C. Ciomaga, N. Horchidan, C. Galassi, L. Mitoseriu, Role of the pore interconnectivity on the dielectric, switching and tunability properties of PZTN ceramics, CERAMICS INTERNATIONAL, 43, 5767-5773 (2017)	3,057	7	29,77429
8	F. Gheorghiu, L. Padurariu, M. Airimioaei, L. Curecheriu, C. Ciomaga, C. Padurariu, C. Galassi, L. Mitoseriu, Porosity-Dependent Properties of Nb-Doped Pb(Zr,Ti)O ₃ Ceramics, JOURNAL OF THE AMERICAN CERAMIC SOCIETY, 100, 647-658 (2017)	2,956	8	25,295
9	L. Padurariu, L. Mitoseriu, Comment on "The Impact of Composite Effect on Dielectric Constant and Tunability in Ferroelectric-Dielectric System", JOURNAL OF THE AMERICAN CERAMIC SOCIETY, 99, 3816-3817 (2016)	2,841	2	97,73
10	L. Padurariu, 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)	5,301	3	114,3533
11	R. Stanculescu, C. E. Ciomaga, L. Padurariu, 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
12	C. E. Ciomaga, L. Padurariu, 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, JOURNAL OF APPLIED PHYSICS, 116, 164110 (2014)	2,183	9	17,33111
13	C. Olariu, L. Padurariu, 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, JOURNAL OF APPLIED PHYSICS, 114, 214101 (2013)	2,185	6	26,01667
14	A. Cazacu, L. Curecheriu, A. Neagu, L. Padurariu, A. Cernescu, I. Lisiecki, L. Mitoseriu, Tunable gold-chitosan nanocomposites by local field engineering, APPLIED PHYSICS LETTERS, 102, 222903 (2013).	3,515	7	33,7
15	V. Pascariu, L. Padurariu, 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
16	C. E. Ciomaga, C. S. Olariu, L. Padurariu, A. V. Sandu, C. Galassi, L. Mitoseriu, Low field permittivity of ferroelectric-ferrite ceramic composites: Experiment and modeling, JOURNAL OF APPLIED PHYSICS, 112, 094103 (2012)	2,210	6	26,26667
17	L. Padurariu, L. Curecheriu, C. Galassi, L. Mitoseriu, Tailoring non-linear dielectric properties by local field engineering in anisotropic porous ferroelectric structures, APPLIED PHYSICS LETTERS 100, 252905 (2012)	3,794	4	63,16
18	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)	3,767	4	62,755
19	A. Ianculescu, Z. V. Mocanu, L. Curecheriu, L. Padurariu, 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	27,05667

20	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, EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, 56, 10102 (2011)	0,771	6	11,87667
21	<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 MATTER, 32, 5901-5913(2011)	2,546	3	59,25333

Punctaj total pentru aceasta sectiune: P1=870,387

2. Articole stiintifice publicate in extenso in reviste cotate Web of Science fara factor de impact

P2=0.0

3. Articole stiintifice 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 stiintifice publicate in extenso in volumele conferintelor

P4=0.0

5. Carti stiintifice publicate la edituri academice internationale (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. Carti stiintifice traduse si publicate in edituri din strainatate

P6=0.0

7. Coordonarea si editarea de volume, traduceri si antologii

P7=0.0

8. Articole publicate in dictionare si enciclopedii

P8=0.0

9. Contracte de cercetare stiintifica in institutii academice (director: 50 puncte pentru fiecare 500.000 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
PN-III-P4-ID-PCE-2016-0817 Cercetări fundamentale ale fenomenelor dependente de scală în feroelectrice pe baza de	Cercetator Stiintific	775.700	7	11,08

titanat de bariu: granulația critică și efectul nanostructurării (FerroScale), 2017-2020				
PN-III-P4-ID-PCCF2016-0175 Nanostructuri particulare de tip multistrat cu constanta dielectrică ridicată cu aplicații pentru stocarea energiei și dispozitive nanoelectronice (HIGHKDEVICE), 2018-2022	Cercetator Științific	2.400.000	8	30,00
PN-III-P1-1.1-TE-2016-1951 Proprietăți dependente de scală în ceramicele piezoelectrice fără plumb (ProLEAF), 2018-2020	Cercetator Științific	450.000	4	11,25
Grant Intern GI-2015-05 - Modelarea proprietăților de comutare în memorii feroelectrice, 2015-2016	Director	20.000	1	2,00
PNII-RU-TE-2014-4-1494 - Exploatarea porozității în materiale feroelectrice prin controlul câmpului local pentru îmbunătățirea proprietăților funcționale (EXPOFER), 2015-2017	Director	550.000	8	55,00
PN-III-P1-1.1-PD-2016-1069 Modelarea Monte Carlo a structurilor de domenii și proprietăților de comutare în ceramici feroelectrice (MCCER), 2018-2020	Director	250.000	2	25,00

Punctaj total pentru această secțiune: P9=191.51

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
L. Padurariu, 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)	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 BaTiO ₃ ceramics by impedance spectroscopy and Raman study, Phase Transition 86, 703 (2013)	1.044	3	10.29
	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 BaSn _x Ti _{1-x} O ₃ ceramics, J. Eur. Ceram. Soc. 34, 3661 (2014)	2.947	3	22.98
	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)	3.718	3	28.12
	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)	2.209	3	18.06
	L.P. Curecheriu, C.E. Ciomaga, V. Musteata, G. Canu, V. Buscaglia, L. Mitoseriu, Diffuse phase transition and high electric field properties of BaCe _y Ti _{1-y} O ₃ relaxor ferroelectric ceramics, Ceram. Int. 42, 11085-11092 (2016)	2.986	3	23.24
	Y.B. Ma, C. Molin, V. Shvartsman, S. Gebhardt, D.C. Lupascu, K. Albe, B.X. Xu, State transition and electrocaloric effect of BaZr _x Ti _{1-x} O ₃ : Simulation and experiment, J. Appl. Phys. 121, 024103 (2017)	2.176	3	17.84
Z. V. Mocanu, G. Apachitei, 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)	Q.Zhang, N. Schmidt, Jolin Lan, W. Kim, G. Cao, A facile method for the synthesis of the Li _{0.3} La _{0.57} TiO ₃ solid state electrolyte, Chem. Commun., 50, 5593-5596 (2014)	6.843	6	24.47
	M. Airimioaei, M.Palamaru, A.Iordan, P. Berthet, C. Decorse, L. Curecheriu, L. Mitoseriu, Structural Investigation and Functional Properties of Mg _x Ni _{1-x} Fe ₂ O ₄ Ferrites, J. Am. Ceram. Soc., 97 519-526 (2014)	2.610	6	10.36
	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, 017119 (2015)	1.444	6	6.48
	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)	0	6	1.66
	C. Chen, P. Jost, H. Volker, M. Kaminski, M. Wirtsohn, U. Engelmann, K. Kruger, F. Schlich, C. Schlockermann, R. P. S. M. Lobo, M. Wuttig,	3.813	6	14.37

	Dielectric properties of amorphous phase-change materials, Phys. Rev. B, 95, 094111 (2017)			
	N. Lenin, R.R. Kanna, K. Sakthipandi, A.S. Kumar, Structural, electrical and magnetic properties of $\text{NiLa}_x\text{Fe}_{2-x}\text{O}_4$ nanoferrites, MATERIALS CHEMISTRY AND PHYSICS, 212, 385-393 (2018)	2.781	6	10.93
	M.V.S. Kumar, G.J. Shankarmurthy, E. Melagiriappa, K.K. Nagaraja, H.S. Jayanna, M.P. Telenkov, Induced effects of Zn+2 on the transport and complex impedance properties of Gadolinium substituted nickel-zinc nanoferrites, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 478, 12-19 (2019)	2.683	6	10.61
	A.L. Marcomini, J.A. Dias, M.R. Morelli, R.E.S. Bretas, Synthesis of the high dielectric permittivity perovskite ($\text{Na}_{1/3}\text{Ca}_{1/3}\text{Bi}_{1/3}\text{Cu}_3\text{Ti}_4\text{O}_{12}$) by different routes, Ceramics International, in press (2019)	3.450	6	13.16
A. Ianculescu, Z. V. Mocanu, L. Curecheriu, L. Padurariu, L. Mitoseriu, R. Trusca, Dielectric and tunability properties of La-doped BT ceramics, Journal of Alloys and Compounds, 509,10040– 10049 (2011)	X. V. Shang, W. Chen, , W.-Q. Cao, Research on dielectric tunability of relaxor ferroelectrics, Acta Physica Sinica, 61, 217701 (2012)	1.016	6	5.053333 333
	B. Wodecka-Dus, M. Adamczyk, K. Osinska, M. Plonska, D. Czekaj, Dielectric properties of $\text{Ba}_{1-x}\text{La}_x\text{Ti}_{1-x}\text{O}_3$ ceramics with different La^{3+} content, Advances in Science and Technology, 77, 35-40 (2013)	0	6	1.66
	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)	1.966	6	8.22
	A. Mahmood, Y. Iqbal, A. Ullah, Phase, microstructure and electrical characterization of $\text{Ba}_{1-x}\text{La}_x(\text{Zr}_{0.6}\text{Ti}_{0.4})_{1-x/4}\text{O}_3$ ceramics, J Mater Sci- Mater El, 26, 113 (2014)	1.569	6	6.89
	H. Chen, Z. Cao, L. Wang, W. He, J. Sun, , Y. Zhang, X. Ruan, The giant dielectric constant and tunable properties of $\text{La}_2\text{NiMnO}_6\text{-xMgO}$ ceramics, J. Alloy. Compd. 616, 213-222 (2014)	2.999	6	11.66
	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)	2.999	6	11.66
	K.E. Oksuz, S. Sen, U. Sen, Effects of B_2O_3 addition on the sintering behavior of 0-5-10% ZrO_2 doped BaTiO_3 based ceramics, Acta Physica Polonica A, 127, 1086 (2015)	0.525	6	3.41
	S.Z. Cui, D.Y. Lu, X.Y. Sun, Study of the solubility of $\text{La}^{3+}\text{-Dy}^{3+}$ defect complexes and dielectric properties of $(\text{Ba}_{1-x}\text{La}_x)(\text{Ti}_{1-x}\text{Dy}_x)\text{O}_3$ ceramics, Ceramics International, 41, 2301 (2015)	2.758	6	10.86
	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 $\text{La}_2\text{Ni}_{1-x}\text{Mg}_x\text{MnO}_6$ solid solution, J. Alloy. Compd. 628, 81 (2015)	3.014	6	11.71
	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 BaTiO_3 powders and ceramics prepared by the sol-gel process, Materials Characterization, 106, 195 (2015)	2.383	6	9.61
	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)	1.223	6	5.74
	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)	0	6	1.66
	A. Mahmood, E. Mensur-Alkoy, A. Naeem, Y. Iqbal, A. Ullah, S. Alkoy, Effect of La substitution on the microstructure and dielectric properties of the sol-gel derived $\text{BaZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ thin films, Thin Solid Films 611, 68-73 (2016)	1.879	6	7.93
	D.Y. Lu, T.T. Liu, Dielectric properties and defect chemistry of $(\text{Ba}_{1-x}\text{La}_x)(\text{Ti}_{1-x}\text{Lu}_x)\text{O}_3$ ceramics, J. Alloy. Compd. 698, 967 (2017)	3.779	6	14.26
	F. Maldonado, A. Stashans, DFT study of Ag and La codoped BaTiO_3 , J. Phys. Chem. Solids, 102, 136 (2017)	2.207	6	9.02
	K. E. Oksuz, S. Sen, U. Sen, Influence of ZrO_2 Addition on the Structure and Dielectric Properties of BaTiO_3 Ceramics, Acta Physica Polonica A, 131, 197 (2017)	0.857	6	4.52
	M.S. Alkathy, K.C. James Raju, Structural, dielectric, electromechanical, piezoelectric, elastic and ferroelectric properties of lanthanum and sodium co-substituted barium titanate ceramics, J. Alloy. Compd. 737, 464 (2018)	4.175	6	15.58
	Q. Liu, J. Liu, D. Lu, W.T. Zheng, Colossal dielectric behavior and relaxation in Nd-doped BaTiO_3 at low temperature, CERAMICS INTERNATIONAL, 44, 7251-7258 (2018)	3.450	6	13.16
	M.S. Alkathy, A. Hezam, K.S.D. Manoj, J.W. Wang, C. Cheng, K. Byrappa, K.C.J Raju, Effect of sintering temperature on structural,	4.715	6	17.38

	electrical, and ferroelectric properties of lanthanum and sodium co-substituted barium titanate ceramics, J. Alloy. Compd., 762, 49-61 (2018)			
	V. Paunovic, Z. Prijic, M. Dordevic, V. Mitic, ENHANCED DIELECTRIC PROPERTIES IN LA MODIFIED BARIUM TITANATE CERAMICS, FACTA UNIVERSITATIS-SERIES ELECTRONICS AND ENERGETICS, 32, 179-193 (2019)	0	6	1.66
	A. El Ghandouri, S. Sayouri, T. Lamcharfi, A. Elbasset, Structural, microstructural and dielectric properties of Ba _{1-x} La _x Ti _(1-x/4) O ₃ prepared by sol gel method, JOURNAL OF ADVANCED DIELECTRICS, UNSP 1950026 (2019)	0	6	1.66
	J.L. Yang, H.J. Mao, X.Y. Chen, W.J. Zhang, Investigation of microstructure and dielectric properties of LaMnO ₃ doped BaTiO ₃ ceramics, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 30, 18227-18233 (2019)	2.195	6	8.98
	C.A. Stanciu, I. Pintilie, A. Surdu, R. Trusca, B.S. Vasile, M. Eftimie, A. Ianculescu, Influence of Sintering Strategy on the Characteristics of Sol-Gel Ba _{1-x} Ce _x Ti _{1-x/4} O ₃ Ceramics, Nanomaterials, 9, 1675 (2019)	4.034	6	15.11
	Y. Feng, J. Wu, Q. Chi, W. Li, Y. Yu, W. Fei, Defects and Aliovalent Doping Engineering in Electroceramics, Chem. Rev. in press 2020	54,301	6	182,67
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)	B. Chen, J.Wang, M. Zhou, J. Wan, J. Liu, Enhanced Magnetodielectric Effect in Graded CoFe ₂ O ₄ /Pb(Zr _{0.52} Ti _{0.48})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	17.415
	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	13.005
	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	17.165
	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	13.935
	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	16.435
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	R.E. Stanculescu, C.E. Ciomaga, N. Horchidan, C. Galassi, F.M. Tufescu, L. Mitoseriu, The influence of post-sintering re-oxidation treatment on dielectric response of dense and porous Ba _{0.70} Sr _{0.30} TiO ₃ ceramics, Ceram. Int. 42, 527 (2016)	2.986	8	8.715
R. Stanculescu, C. E. Ciomaga, <u>L. Padurariu</u> , P. Galizia, N. Horchidan, C. Capiiani, 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)	A. Ianculescu, I. Pintilie, C.A. Vasilescu, M. Botea, A. Iuga, A. Melinescu, N. Dragan, L. Pintilie, Intrinsic pyroelectric properties of thick, coarse grained Ba _{1-x} Sr _x TiO ₃ ceramics, Ceram. Intern. 42, 10338 (2016)	2.986	8	8.715
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	H. Zhao, P.P. Wu, L.F. Du, H.L. Du, Effect of the nanopore on ferroelectric domain structures and switching properties, <i>COMPUTATIONAL MATERIALS SCIENCE</i> , <i>COMPUTATIONAL MATERIALS SCIENCE</i> , 148, 216-223 (2018)	2.644	8	7.86
	Y. Zhang, J. Roscow, R. Lewis, H. Khanbareh, V.Y. Topolov, M.Y. Xie, C.R. Bowen, Understanding the effect of porosity on the polarisation-field response of ferroelectric materials, <i>ACTA MATERIALIA</i> , 154, 100-122 (2018)	7.293	8	19.4825
	M.S. Alkathy, A. Hezam, K.S.D. Manoja J.W. Wang, C. Cheng, K. Byrappa, K.C.J. Raju, Effect of sintering temperature on structural, electrical, and ferroelectric properties of lanthanum and sodium co-substituted barium titanate ceramics, <i>JOURNAL OF ALLOYS AND COMPOUNDS</i> , 762, 49-61 (2018)	4.175	8	11.6875
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	B. Vial, Y. Hao, Enhanced tunability in ferroelectric composites through local field enhancement and the effect of disorder, <i>JOURNAL OF APPLIED PHYSICS</i> , 126, 044102 (2019)	2.328	8	7.07
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L. Padurariu, L. P. Curecheriu, L. Mitoseriu, Nonlinear dielectric properties of paraelectric-dielectric composites described by a 3D Finite Element Method based	M. Lei, Reply to Comment on “The Impact of Composite Effect on Dielectric Constant and Tunability in Ferroelectric-Dielectric System”, <i>J. Am. Ceram. Soc.</i> 99, 3818 (2016)	2.841	3	22.273
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	J.I. Roscow, Y. Zhang, M.J. Krasny, R.W.C. Lewis, J. Taylor, C.R. Bowen, Freeze cast porous barium titanate for enhanced piezoelectric energy harvesting, JOURNAL OF PHYSICS D-APPLIED PHYSICS, 51, 225301 (2018)	2.373	3	19.15
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	C.E. Ciomaga, A. Guzu, M. Airimioaei, L.P. Curecheriu, V.A. Lukacs, O.G. Avadanei, G. Stoian, M. Grigoras, N. Lupu, M. Asandulesa, L. Mitoseriu, Comparative study of magnetoelectric BaTiO ₃ -Co _{0.8} Zn _{0.2} Fe ₂ O ₄ bi-tunable ceramics sintered by Spark Plasma Sintering and classical method, Ceramics International, in press (2019)	3.450	3	26.333
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	Y. Zhang, J. Roscow, R. Lewis, H. Khanbareh, V.Y. Topolov, M.Y. Xie, C.R. Bowen, Understanding the effect of porosity on the polarisation-field response of ferroelectric materials, ACTA MATERIALIA, 154, 100-122 (2018)	7.293	2	77.93
R.E. Stanculescu, N. Horchidan, C. Galassi, M. Asandulesa, L. Padurariu, C.E. Ciomaga, L. Mitoseriu, Porous (Ba,Sr)TiO ₃ ceramics for tailoring dielectric and tunability properties: Modelling and experiment, Processing & Application of Ceramics 11, 235-246 (2017)	S.T. Dadami, I. Shivaraja, S.K. Deshpande, S. Razaprol, B. Angadi, BiFeO ₃ induced enhancement in multiferroic properties of PbFe _{0.5} Nb _{0.5} O ₃ , CERAMICS INTERNATIONAL, 44, 20446-20456 (2018)	3.450	7	11.28
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	V.A. Lukacs, R. Stanculescu, L. Curecheriu, C.E. Ciomaga, N. Horchidan, C. Cioclea, L. Mioseriu, Structural and functional properties of BaTiO ₃ porous ceramics produced by using pollen as sacrificial template, CERAMICS INTERNATIONAL, 46, 523-530 (2020)	3.450	7	11.28
F. Gheorghiu, L. Padurariu, M. Airimioaei, L. Curecheriu, C. Ciomaga,	H. Zhao, P.P. Wu, L.F. Du, H.L. Du, Effect of the nanopore on ferroelectric domain structures and switching properties, COMPUTATIONAL MATERIALS SCIENCE, 148, 216-223 (2018)	2.644	8	7.86
	J.I. Roscow, Y. Zhang, M.J. Krasny, R.W.C. Lewis, J. Taylor, C.R. Bowen, Freeze cast porous barium titanate for enhanced piezoelectric	2.829	8	8.3225

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	Y. Zhang, J. Roscow, R. Lewis, H. Khanbareh, V.Y. Topolov, M.Y. Xie, C.R. Bowen, Understanding the effect of porosity on the polarisation-field response of ferroelectric materials, ACTA MATERIALIA, 154, 100-122 (2018)	7.293	8	19.4825
	K.A. Khan, M.A. Khan, 3-3 piezoelectric metamaterial with negative and zero Poisson's ratio for hydrophones applications, MATERIALS RESEARCH BULLETIN, 112, 194-204 (2019)	3.355	8	9.6375
	J. Schultheiss, J.I. Roscow, J. Koruza, Orienting anisometric pores in ferroelectrics: Piezoelectric property engineering through local electric field distributions, PHYSICAL REVIEW MATERIALS, 3, 084408 (2019)	2.926	8	8.565
	V.A. Lukacs, R. Stanculescu, L. Curecheriu, C.E. Ciomaga, N. Horchidan, C. Cioclea, L. Mioseriu, Structural and functional properties of BaTiO ₃ porous ceramics produced by using pollen as sacrificial template, CERAMICS INTERNATIONAL, 46, 523-530 (2020)	3.450	8	9.875
C. Padurariu, L. Padurariu, L. Curecheriu, C. Ciomaga, N. Horchidan, C. Galassi, L. Mitoseriu, Role of the pore interconnectivity on the dielectric, switching and tunability properties of PZTN ceramics, Ceram. Int. 43, 5767-5773 (2017)	H. Zhao, P.P. Wu, L.F. Du, H.L. Du, Effect of the nanopore on ferroelectric domain structures and switching properties, COMPUTATIONAL MATERIALS SCIENCE, COMPUTATIONAL MATERIALS SCIENCE, 148, 216-223 (2018)	2.644	7	8.98
	J.I. Roscow, Y. Zhang, M.J. Krasny, R.W.C. Lewis, J. Taylor, C.R. Bowen, Freeze cast porous barium titanate for enhanced piezoelectric energy harvesting, JOURNAL OF PHYSICS D-APPLIED PHYSICS, 51, 225301 (2018)	2.829	7	9.51
	Y. Zhang, J. Roscow, R. Lewis, H. Khanbareh, V.Y. Topolov, M.Y. Xie, C.R. Bowen, Understanding the effect of porosity on the polarisation-field response of ferroelectric materials, ACTA MATERIALIA, 154, 100-122 (2018)	7.293	7	22.26
	V.A. Lukacs, R. Stanculescu, L. Curecheriu, C.E. Ciomaga, N. Horchidan, C. Cioclea, L. Mioseriu, Structural and functional properties of BaTiO ₃ porous ceramics produced by using pollen as sacrificial template, CERAMICS INTERNATIONAL, 46, 523-530 (2020)	3.450	7	11.28
I. Turcan, V.A. Lukacs, L. Curecheriu, L. Padurariu, C.E. Ciomaga, M. Airimioaei, G. Stoian, N. Lupu, L. Mitoseriu, Microstructure and dielectric properties of Ag-BaTiO ₃ composite ceramics, JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 38, 5420-5429 (2018)	Z.B. Pan, S. Xing, H.T. Jiang, J.J. Liu, S.W. Huang, J.W. Zhai, Highly enhanced discharged energy density of polymer nanocomposites via a novel hybrid structure as fillers, JOURNAL OF MATERIALS CHEMISTRY A, 7, 15347-15355 (2019)	10.733	9	24.96

Punctaj total pentru aceasta sectiune: P12=2727,249

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
C. E. Ciomaga, M. Airimioaei, L. Padurariu, L. Curecheriu and L. Mitoseriu, Ferroelectric perovskite based magnetoelectric ceramic composites: synthesis, functional properties and modeling, ASIAN ADVANCED MATERIALS CONGRESS, 31 oct – 4 november, Singapore 2019	Străinătate	25
L. Padurariu, L. Curecheriu, C. Ciomaga, M. Airimioaei, I. Turcan, A. Lukacs & Liliana Mitoseriu Local field engineering for tailoring electrical properties in ferroelectric-metallic particles composites”, Electroceramics XVI (Symposium C Theory and Modelling), July 9-12, 2018, Hasselt, Belgium	Străinătate	25
L. Padurariu, L. Mitoseriu, Local field engineering for tailoring electrical properties in ferroelectric-based composites, ECerS 15th Conference & Exhibition of European Ceramic Society, July 9-13, 2017, Budapest, Hungary	Străinătate	25
L. Padurariu, 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
L. Padurariu, 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
L. Padurariu, 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	În țară	10

Advanced Materials, ROCAM, 7-10 July 2015, Bucharest		
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=170

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

Activitate	Locatie	Punctaj
polycom		
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 internationale (100 de puncte pentru fiecare premiu international)

- 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
- 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
- Premiu pentru cea mai bună prezentare orală la 9th Interantional Conference on Physics of Advanced Materials, 20-23 Septembrie 2012, Iasi, Romania
- 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
L. Padurariu, C. Enachescu, L. Mitoseriu, Modeling of theGrainSizeEffects in NanostructuredFerroelectricCeramics, lucrare prezentată la conferința AsianAdvancedMaterialsCongress, organizată în Singapore în perioada 31 Octombrie - 4 Noiembrie 2019. Informații legate de conferință sunt disponibile online la adresa: https://www.advancedmaterialscongress.org/nov19/pages/program	10
L. Padurariu, C. Enachescu, L. Mitoseriu, Modeling of theGrainSizeEffects in NanostructuredFerroelectricCeramics, lucrare prezentată la conferința Processes In IsotopesAndMolecules organizată în Cluj-Napoca, Romania în perioada 25-27 Septembrie 2019. Programul conferinței este disponibil online la adresa: http://pim.itim-cj.ro/pages/programme.html	10
N. Horchidan, L. Padurariu, C. E. Ciomaga, L. Curecheriu, M. Airimioaei, F. Tufescu and L. Mitoseriu, Room temperature phase superposition as origin of enhanced functional properties in BaTiO3 - based ceramics, ASIAN ADVANCED MATERIALS CONGRESS, 31 oct – 4 november, Singapore 2019 (poster presentation)	10
L. Curecheriu, M. T. Buscaglia, G. Canu, C. Ciomaga, L. Padurariu, V. Buscaglia, L. Mitoseriu, Scale-dependent properties in lead free piezoelectric ceramics, ASIAN ADVANCED MATERIALS CONGRESS, 31 oct – 4 november, Singapore 2019 (oral presantation)	10
L. Curecheriu, L. Padurariu, V. A. Lukacs, C. Ciomaga, G. Stoian, L. Mitoseriu, There is a critical size in BaTiO3 slightly doped ceramics? ASIAN ADVANCED MATERIALS CONGRESS, 31 oct – 4 november, Singapore 2019 (poster presentation)	10
C. E. Ciomaga, M. Airimioaei, A. Guzu, F. Gheorghiu, G. Stoian, M. Grigoras, M. Asandulesa, L. Padurariu and L. Mitoseriu, Comparative studyof the functional properties for mixed and trilayered BaTiO3-based magnetoelectric composites, Joint IEEE ISAF/EMF/ICE/IWPM/PFM meeting 2019, July 14-19, Lausanne, Switzerland 2019 (oral presentation)	10
L. Curecheriu, M. T. Buscaglia, G. Canu, V. Buscaglia, L. Padurariu, C. E. Ciomaga and L. Mitoseriu, Size-dependent properties in Ba0.85Ca0.15Ti0.90Zr0.10O3 -based ceramics, Joint IEEE ISAF/EMF/ICE/IWPM/PFM meeting 2019, July 14-19, Lausanne, Switzerland	10

2019 (oral presentation)	
L. Curecheriu, M. T. Buscaglia, G. Canu, V. Buscaglia, L. Padurariu, C. E. Ciomaga and L. Mitoseriu, Size-dependent properties in Ba _{0.85} Ca _{0.15} Ti _{0.90} Zr _{0.10} O ₃ -based ceramics, Joint IEEE ISAF/EMF/ICE/IWPM/PEF meeting 2019, July 14-19, Lausanne, Switzerland 2019 (oral presentation)	10
L. Padurariu, I. Turcan, V. A. Lukacs, A. Cernescu, L. Curecheriu, C. Ciomaga, G. Stoian N. Lupu and L. Mitoseriu, The role of composition on the dielectric and ferroelectric properties of Ag-BaTiO ₃ composites: experiment and modeling, Joint IEEE ISAF/EMF/ICE/IWPM/PEF meeting 2019, July 14-19, Lausanne, Switzerland 2019 (oral presentation)	10
Cristina Elena Ciomaga, Lavinia Curecheriu, Leontin Padurariu, Maria Teresa Buscaglia, Vincenzo Buscaglia, Understanding the role of grain size on the structural and dielectric properties of BZT-BCT systems, ICC7, Congresso Brasileiro de Ceramica, June 17-21, 2018, Foz do Iguacu, Brazil (poster)	10
Lavinia Petronela Curecheriu, Maria Teresa Buscaglia, Giovanna Canu, Cristina Elena Ciomaga, Leontin Padurariu, Vincenzo Buscaglia, Liliana Mitoseriu, Role of grain size on the structural and functional properties of (Ba,Ca)(Zr,Ti)O ₃ ceramics Electroceramics XVI - Hasselt, Belgium, 9-12th July 2018 (oral)	10
Lavinia Petronela Curecheriu, Maria Teresa Buscaglia, Giovanna Canu, Cristina Elena Ciomaga, Leontin Padurariu, Vincenzo Buscaglia, Liliana Mitoseriu Grain size effect on the functional properties of BZT-BCTceramics, CIEC 16 – Torino, Italy 9-11 Septembre 2018 (poster).	10
I. Turcan, V. A. Lukacs, L. Curecheriu, L. Padurariu, C. E. Ciomaga, L. Mitoseriu, Exploiting the critical grain size and silver inclusions for enhancing permittivity in BaTiO ₃ ceramics, International Conference CIEC 16, Torino, Italy, 9-11 September 2018 (oral presentation)	10
Leontin Padurariu, Cristina Ciomaga, Lavinia Curecheriu, Liliana Mitoseriu, Modeling of the tunability properties and switching properties in ferroelectric ceramics with different grain sizes, ICC7, Congresso Brasileiro de Ceramics, June 17-21, 2018, Foz do Iguacu, Brazil (oral)	10
<i>Effect of porosity on the dielectric and dc-tunability properties of BaTiO₃ ceramics</i> , L.P. Curecheriu, C. Padurariu, L. Padurariu, R. Stanculescu, C. Ciomaga and L. Mitoseriu, 11 th International Conference PROCESSES IN ISOTOPES AND MOLECULES, 27 - 29 September 2017, Cluj-Napoca, Romania (oral presentation)	10
<i>Dielectric properties of porous ferroelectric structures: modeling and experimental verification</i> , L. Curecheriu, L. Padurariu, C. Ciomaga, R. Stanculescu, C. Padurariu, M. Airimioaei, L. Mitoseriu, IEEE ROMSC 2017 14th edition, "Alexandru Ioan Cuza" University of Iasi, Romania, 26th of June 2017 Iasi, Romania (oral presentation)	10
<i>Effect of porosity on the dielectric, switching and DC-tunability properties of BaTiO₃ ceramics</i> , L.P. Curecheriu, C. Padurariu, L. Padurariu, R. Stanculescu, N. Horchidan, C. Ciomaga, L. Mitoseriu, ECeS 2017 15th Conference & Exhibition of European Ceramic Society July 9-13, 2017, Budapest, Hungary (oral presentation)	10
Chair al sectiunii "Electroceramics", ECeS 15th Conference & Exhibition of European Ceramic Society, July 9-13, 2017, Budapest	15
Chair of the section "Improper ferroelectricity and diluted magnetism", Electroceramics XV, Limoges, 27-29 June 2016	15
L. Padurariu, 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
L. Padurariu, 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, L. Padurariu, L. Mitoseriu, Exploiting porosity for design tunable materials, ISAF/ECAPD/PEF conference, 21-25 August 2016, Darmstadt, Germany (oral)	10
L. Padurariu, 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, L. Padurariu, 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
L. Padurariu, L. Mitoseriu, Modeling of cross-talk phenomena in ferroelectric ananocapacitor systems, Electroceramics XV, 27-29 June 2016, Limoges, France (poster)	10
L. Padurariu, 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, L. Padurariu, 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, L. Padurariu, 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, L. Padurariu, 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
L. Padurariu 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, L. Padurariu, 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, L. Padurariu, L. Mitoseriu, The influence of microstructure on functional properties of Ba(Sn _x Ti _{1-x})O ₃ ceramics, European Conference on Application of Polar Dielectrics 7-11 July 2014 - Vilnius, Lithuania (poster)	10
L. Padurariu and L. Mitoseriu, Tunable composites materials designed by local field engineering, Electroceramics XIV, 16-20 June 2014, Bucharest, Romania (oral)	10
L. Padurariu, 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

L.Padurariu, 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
L.Padurariu, 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, L.Padurariu, 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, L.Padurariu, 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
L.Padurariu, L.Curecheriu, V.Buscaglia, L.Mitoseriu, FEM Models for Describing Size Effects on the Dielectric Properties in Nanostructured Ferroelectric Ceramics, Closing Conference COST MP0904 - SIMUFER, CNR-IENI, 30th January-1st February 2014, Genoa, Italy (poster)	10
C.E.Ciomaga, L.P.Curecheriu, L.Padurariu, 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, L. Padurariu, 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
L.Padurariu, 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
L. Padurariu, 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, L. Padurariu, 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, L. Padurariu, 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
L. Padurariu, 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, L. Padurariu, 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, L. Padurariu, 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
L. Padurariu, 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
L.Padurariu, 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, L. Padurariu 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, L. Padurariu and L. Mitoseriu, Ferroelectric-relaxor crossover in Ba(Sn _x Ti _{1-x})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
L. Padurariu, 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, L. Padurariu, 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
L. Padurariu, 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, Leontin Padurariu, 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
L. Padurariu, 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 Finte 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 Interantional 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 Interantional 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 , Tayloring dc-tunability properties of ferroelectric ceramics by reduction grain size at nanoscale, ISAF-ECAPD 9-13 July 2012, Aveiro, Portugal (oral)	10
<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: Ba ₁₂ Fe ₂₈ Ti ₁₅ 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 ₂ O 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
L.P. Curecheriu, I.V. Ciuchi, A.M. Neagu, G. Apachitei, <u>L. Padurariu</u> , M.T. Buscaglia, G. Canu, C.Harnagea, L. Mitoseriu, V. Buscaglia' Searching for new multiferroics: Ba ₁₂ Fe ₂₈ Ti ₁₅ O ₈₄ intergrowth layered ferrite, Electroceramics XIII, 24-27 June, Twente, Holland (poster)	10
C. E. Ciomaga, L. Padurariu, C.S. Olariu, C. Galassi, L. Mitoseriu, Low field permittivity of ferroelectric-ferrite ceramic composites. Experiment and Modeling, 23 April 2012,Vilnius, Lithuania (poster)	10
<u>L. Padurariu</u> , M. Alexe and L. Mitoseriu, Simulation of Cross-Talk Phenomena in Ferroelectric Nanocapacitor Systems, The Third COST MP0904 Workshop, 23 April 2012,Vilnius, Lithuania (poster)	10
L. Curecheriu, <u>L. Padurariu</u> , L. Mitoseriu, M.T. Buscaglia, V. Buscaglia and P. Nanni, Grain size and interface effects in nanostructured ferroelectric ceramics, The Third COST MP0904 Workshop, 23 April 2012 Vilnius, Lithuania (poster)	10
<u>L. Padurariu</u> , L. Curecheriu, V. Buscaglia and L. Mitoseriu, Permittivity vs. Field dependence in nanostructured ferroelectric ceramics: the role of grain size, COST MP0904 Action Training School, 12-13 March 2012, Genova, Italy (poster)	10
<u>L. Padurariu</u> , L. Curecheriu, C. Enachescu and L. Mitoseriu, Ferroelectric-relaxor crossover of BaTiO ₃ -based solid solutions and grain size effect in BaTiO ₃ described by Monte Carlo simulations, 2 nd ERS Meeting of the COST MP0904 Action, 16-18 November 2011, Novi Sad, Serbia (oral)	10
<u>L. Padurariu</u> , C. Enachescu, L. Mitoseriu, Monte Carlo simulation for describing the ferroelectric-relaxor crossover and local polarisation in BaTiO ₃ - based solid solutions, IEEE-ROMSC, 16 October 2011, Iasi, Romania (poster)	10
<u>L. Padurariu</u> , C. Enachescu, L. Mitoseriu, Monte Carlo simulation for describing the ferroelectric-relaxor crossover and local polarisation in BaTiO ₃ - based solid solutions, Amorphous and Nanostructured Magnetic Materials, 5-7 September 2011, INCDFT, Iași (poster)	10
C.S. Olariu, <u>L. Padurariu</u> and L. Mitoseriu, Simulation of percolation process in ceramic composites, Amorphous and Nanostructured Magnetic Materials, 5-7 September 2011, INCDFT, Iași (poster)	10
<u>L. Padurariu</u> , C. Enachescu, L. Mitoseriu, Ferroelectric-Relaxor Crossover and Local Polarization Properties of BaTiO ₃ -based Solid Solutions Described by Monte Carlo Simulations, COST, 30 June-1 July 2011, Bordeaux, France (poster)	10
L. Padurariu, C. Ciomaga, L. Mitoseriu, Ferroelectric-relaxor crossover described by Monte Carlo simulations, Advances to the Applied Physics and Materials Science Congress, APAMS, 12-15 May 2011, Antalya, Turkey (poster)	10
<u>L. Padurariu</u> , C. Enachescu, L. Mitoseriu, Monte Carlo simulation for describing the ferroelectric-relaxor crossover, ERS Meeting of the COST MP0904 Action, 21-23 Martie 2011, Hasselt, Belgium (oral)	10
<u>L. Padurariu</u> , C. Ciomaga and L. Mitoseriu, Monte Carlo simulation for describing the ferroelectric-relaxor crossover , Syntheses and Methodologies in Inorganic Chemistry SAMIC 2010, 28.11.2010-2.12.2010, Bressanone, Italy (poster)	10
<u>L. Padurariu</u> , L. Mitoseriu, Monte Carlo simulations for describing dielectric relaxationand thickness effects in films, Joint WGs Workshop of theCOST MP0904 Action, Edinburgh, August, 12th, 2010 (poster)	10
<u>L. Padurariu</u> , L. Mitoseriu, Monte Carlo Simulations for Describing Dielectric Properties of Ferroelectric Relaxors, Joint MmdE- IEEE ROMSC Iași 2010 (poster)	10

Punctaj total pentru această secțiune: P19=840

Punctaj total cercetare: PC= $\sum_{i=1}^{19} P_i=5426.146$

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 studentesc "Dragomir Hurmuzescu" la Facultatea de Fizică (UAIC)

Punctaj total activitatea didactica: PD=15

Punctaj final: $PF=0.7*PC+0.3*PD=3803$