



## ANEXA 2

## STANDARDE MINIMALE PE DOMENII ALE UNIVERSITĂȚII

FUNCTII DIDACTICE	DOMENII DE CONCURS	
	ȘTIINȚE	
	FIZICĂ	• $P \geq 1$ și $I \geq 1$
LECTOR UNIVERSITAR		Coeficienți realizați $I=7.004$ și $P=18.391$

## Table de calcul pentru coeficienții I și P

Nume autori	Titlul articol	Nr. autori	Nr. autori echivalenți	AIS	I	P
Mirela Airimioaei, Maria Teresa Buscaglia, Ilarie Tredici, Umberto Anselmi-Tamburini, Cristina Elena Ciomaga, <u>Lavinia Curecheriu</u> , Andreja Bencan, Vincenzo Buscaglia, Liliana Mitoseriu	SrTiO <sub>3</sub> -BaTiO <sub>3</sub> nanocomposites with temperature independent permittivity and linear tunability fabricated using field-assisted sintering from chemically synthesized powders	9	7	1.104	0.158	
<u>Lavinia-Petronela Curecheriu</u> , Maria Teresa Buscaglia, Filippo Maglia, Cipriana Padurariu, Gabriela Ciobanu, Umberto Anselmi-Tamburini, Vincenzo Buscaglia, Liliana Mitoseriu	Tailoring the functional properties of PLZT-BaTiO <sub>3</sub> composite ceramics by core-shell approach	8	6.5	0.637	0.098	0.637
Cipriana Padurariu, Leontin Padurariu, <u>Lavinia Curecheriu</u> , Cristina Ciomaga, Nadejda Horchidan, Carmen Galassi,	Role of the pore interconnectivity on the dielectric, switching and tunability properties of PZT ceramics	7	6	0.465	0.078	0.465



Liliana Mitoseriu						
Oana Condurache, Ina Turcan, <u>Lavinia Curecheriu</u> , Cristina Ciomaga, Petronel Postolache, Gabriela Ciobanu, Liliana Mitoseriu	Towards novel functional properties by interface reaction in mixtures of BaTiO <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> composite ceramics	7	6	0.465	0.078	0.465
Felicia Gheorghiu, Leontin Padurariu, Mirea Airimioaei, <u>Lavinia Curecheriu</u> , Cristina Elena Ciomaga, Cipriana Padurariu, Carmen Galassi, Liliana Mitoseriu	Porosity dependent properties of Nb-doped Pb(Zr,Ti)O <sub>3</sub> ceramics	8	6.5	0.663	0.102	
<u>Lavinia Curecheriu</u> , Cristina Ciomaga, Valentina Musteata, Giovanna Canu, Vincenzo Buscaglia, Liliana Mitoseriu	Diffuse phase transition and high electric field properties of BaCe <sub>y</sub> Ti <sub>1-y</sub> O <sub>3</sub> relaxor ferroelectric ceramics	6	5.5	0.465	0.085	0.465
T. Teslaru, I. Topala, M. Dobromir, V. Pohoata, <u>L. Curecheriu</u> , N. Dumitrascu,	Polythiophene films obtained by polymerization under atmospheric pressure plasma conditions	6	5.5	0.479	0.087	
Leontin Padurariu, <u>Lavinia Curecheriu</u> , Liliana Mitoseriu	Nonlinear dielectric properties of paraelectric-dielectric composites described by a 3D Finite Element Method based on Landau-Devonshire theory	3	3	1.741	0.580	
A. Sakanas, R. Grigalaitis, J. Banys, <u>L. Curecheriu</u> , L. Mitoseriu, V. Buscaglia	Microstructural influence on the broadband dielectric properties of BaTiO <sub>3</sub> -Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> core-shell composites: Experiment and modeling	6	5.5	0.637	0.116	
Adelina Inaculescu, Catalina Vasilescu, Maria Crisan, Malina Raileanu, Bogdan Vasile, Mihai Calugaru, Dorel Crisan, Nicolae Dragan, <u>Lavinia Curecheriu</u> , Liliana Mitoseriu	Formation mechanism and characteristics of lanthanum-doped BaTiO <sub>3</sub> powders and ceramics prepared by the sol-gel process	10	7.5	0.741	0.099	
Felicia Gheorghiu, <u>Lavinia Curecheriu</u> , Isabelle Lisiecki, Patricia Beaunier, Simona Feraru, Mircea Palamaru, Valentina	Functional properties of Sm <sub>2</sub> NiMnO <sub>6</sub> multiferroic ceramics prepared by spark plasma sintering	9	7	0.558	0.080	



Musteata, Nicoleta Lupu, Liliana Mitoseriu,						
<u>Lavinia-Petronela Curecheriu</u> , Mirjana M Vijatovic Petrovic, Jelena D. Bobic, B.D. Stojanovic	Nonlinear properties of antimony-doped BaTiO <sub>3</sub> ceramics,	4	4	0.39	0.098	0.39
<u>Lavinia-Petronela Curecheriu</u> , Maria Teresa Buscaglia, Filippo Maglia, Umberto Anselmi-Tamburini, Vincenzo Buscaglia, Liliana Mitoseriu	Design tunable materials: ferroelectric-antiferroelectric composite with core-shell structure	6	5.5	1.125	0.205	1.125
Alexandra Neagu, <u>Lavinia Curecheriu</u> , Mirela Airimioaei, Ana Cazacu, Adrian Cernescu, Liliana Mitoseriu	Impedance spectroscopy characterization of relaxation mechanisms in gold-chitosan nanocomposites	6	5.5	0.875	0.159	0.875
Cristina Elena Ciomaga, Leontin Padurariu, <u>Lavinia Curecheriu</u> , Nicoleta Lupu, Isabelle Lisiecki, Marco Deluca, Sorin Tascu, Carmen Galassi, Liliana Mitoseriu	Using multi-walled carbon nanotubes in spark plasma sintered Pb(Zr <sub>0.47</sub> Ti <sub>0.53</sub> )O <sub>3</sub> ceramics for tailoring dielectric and tunability properties	9	7	0.682	0.097	0.682
<u>Lavinia Curecheriu</u> , Petronel Postolache, Maria Teresa Buscaglia, Vincenzo Buscaglia, Adelina Ianculescu, Liliana Mitoseriu	Novel magnetoelectric ceramic composites by control of the interface reactions in Fe <sub>2</sub> O <sub>3</sub> @BaTiO <sub>3</sub> core-shell structures	6	5.5	0.682	0.124	0.682
Alexandra Neagu, <u>Lavinia Curecheriu</u> , Ana Cazacu, Liliana Mitoseriu	Impedance analysis and tunability of BaTiO <sub>3</sub> -chitosan composites: towards active dielectrics for flexible electronics	4	4	0.774	0.194	0.774
Zina Violeta Mocanu, Mirela Airimioaei, Cristina Elena Ciomaga, <u>Lavinia Curecheriu</u> , Florin Tudorache, Sorin Tascu, Alexandra R. Iordan, Mircea N. Palamaru, Liliana Mitoseriu	Investigation of the functional properties of Mg <sub>x</sub> Ni <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> ceramics	9	7	0.592	0.085	
Mirela Airimioaei, Mircea N. Palamaru, Alexandra R. Iordan, Pascal Berthet, C. Decorse, <u>Lavinia Curecheriu</u> , Liliana Mitoseriu	Structural investigation and functional properties of Mg <sub>x</sub> Ni <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> ferrites	7	6	0.696	0.116	



Tiberiu Salaoru, Florica Matau, Sorin Tascu, <u>Lavinia Curecheriu</u> , Alexandru Stancu	Effect of thermal treatment on the magnetic properties of ceramic samples from eastern Romania clay deposits	5	5	0.209	0.042	
Ana Cazacu, <u>Lavinia Curecheriu</u> , Alexandra Neagu, Leontin Padurariu, Adrian Cernescu, Isabelle Lisiecki, Liliana Mitoseriu,	Tunable gold-chitosan, nanocomposites by local field engineering	7	6	1.217	0.203	1.217
<u>Lavinia Curecheriu</u> , Petronel Postolache, Vincenzo Buscaglia, Nadejda Horchidan, Marin Alexe, Liliana Mitoseriu	BaTiO <sub>3</sub> -ferrite composites with magnetocapacitance and hard/soft magnetic properties	6	5.5	0.288	0.052	0.288
Felicia Gheorghiu, <u>Lavinia Curecheriu</u> , Adelina Ianculescu, Mihai Calugaru, Liliana Mitoseriu	Tunable dielectric characteristics of Mn-doped BiFeO <sub>3</sub> multiferroic ceramics	5	5	1.172	0.234	
Bogdan Stefan Vasile, Ecaterina Andronescu, Cristina Ghitulica, Otilia Ruxandra Vasile, <u>Lavinia Curecheriu</u> , Rares Scurtu, Eugeniu Vasile, Roxana Trusca, Livia Pall, Virgil Aldica	Microstructure and electrical properties of zirconia and composite nanostructured ceramics sintered by different methods	10	7.5	0.439	0.059	
<u>Lavinia Petronela Curecheriu</u> , Marco Deluca, Zina Violeta Mocanu, Mihai Valentin Pop, Valentin Nica, Nadejda Horchidan, Maria Teresa Buscaglia, Vincenzo Buscaglia, Marlies Van Bael, An Hardy, Liliana Mitoseriu	Investigation of the ferroelectric-relaxor crossover in Ce-doped BaTiO <sub>3</sub> ceramics by impedance spectroscopy and Raman study	11	8	0.288	0.036	0.288
Marco Deluca, <u>Lavinia P. Curecheriu</u> , Alexandra Neagu, Geanina Apachitei, Maria Teresa Buscaglia, Giovanna Canu, Kenichi Oshita, Jung Gon Kim, Hiroshi Harima and Vincenzo Buscaglia	Raman spectroscopic study of layered quaternary ferrite Ba <sub>12</sub> Fe <sub>28</sub> Ti <sub>15</sub> O <sub>84</sub> ,	10	7.5	0.288	0.038	
<u>Lavinia Petronela Curecheriu</u> , Nadejda Horchidan, Steluta Popescu, Victor Ciupina	DC-tunability properties of substituted PZT ceramics investigated with multipolar models	4	4	0.053	0.013	0.053



Leontin Padurariu, <u>Lavinia Curecheriu</u> , Vincenzo Buscaglia, Liliana Mitoseriu	Field-dependent permittivity in nanostructured BaTiO <sub>3</sub> ceramics: Modeling and experimental verification	4	4	1.426	0.357	
Leontin Padurariu, <u>Lavinia Petronela Curecheriu</u> , Carmen Galassi, Liliana Mitoseriu	Tailoring non-linear dielectric properties by local field engineering in anisotropic porous ferroelectric structures	4	4	1.384	0.346	
<u>Lavinia Petronela Curecheriu</u> , Sorin-Bogdan Balmus, Maria Teresa Buscaglia, Vincenzo Buscaglia, Adelina Ianculescu, Liliana Mitoseriu	Grain-size dependent properties of dense nanocrystalline barium titanate ceramics	6	5.5	0.765	0.139	0.765
Marco Deluca, Laurentiu Stoleriu, <u>Lavinia Petronela Curecheriu</u> , Nadejda Horchidan, Adelina, Carmen Ianculescu, Carmen Galassi, Liliana Mitoseriu	High-field dielectric properties and Raman spectroscopic investigation of the ferroelectric-to-relaxor crossover in BaSn <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> ceramics	7	6	0.834	0.139	
Marco Deluca, Catalina A. Vasilescu, Adelina C. Ianculescu, Daniela C. Berger, Cristina E. Ciomaga, <u>Lavinia P. Curecheriu</u> , Laurentiu Stoleriu, Andreja Gajovic, Liliana Mitoseriu, Carmen Galassi	Investigation of the composition-dependent properties of BaTi <sub>1-x</sub> Zr <sub>x</sub> O <sub>3</sub> ceramics prepared by the modified Pechini method	10	7.5	0.689	0.092	
Delia Spiridon, <u>Lavinia Curecheriu</u> , Marius Dobromir, Nicoleta Dumitrascu	Synthesis of Poly(N-isopropylacrylamide) under atmospheric pressure plasma conditions	4	4	0.305	0.076	
<u>Lavinia Curecheriu</u> , Felicia Gheorghiu, Adelina Ianculescu, Liliana Mitoseriu	Non-linear dielectric properties of BiFeO <sub>3</sub> ceramics	4	4	1.384	0.346	1.384
<u>Lavinia P. Curecheriu</u> , Maria T. Buscaglia, Adelina C. Ianculescu, Raluca Frunza, Ioana Ciuchi, Alexandra Neagu, Gianina Apachitei, Alessio Bassano, Gionavanna Canu, Petronel Postolache, Liliana Mitoseriu, Vincenzo Buscaglia	Dielectric and magnetic properties of the Ba <sub>12</sub> Fe <sub>28</sub> Ti <sub>15</sub> O <sub>84</sub> layered ferrite	12	8.5	0.898	0.106	0.898
Adelina Ianculescu, Zina Violeta Mocanu, <u>Lavinia Curecheriu</u> , Leontin Padurariu, Liliana Mitoseriu, Roxana Trusca	Dielectric and tunability properties of La-doped BT ceramics,	6	5.5	0.507	0.092	0.507



Zina Violeta Mocanu, Gianina Apachitei, Leontin Padurariu, Florin Tudorache, <u>Lavinia P. Curecheriu</u> , Liliana Mitoseriu	Impedance spectroscopy method for investigation of the polycrystalline inhomogeneous ceramics,	6	5.5	0.264	0.048	0.264
<u>Lavinia P. Curecheriu</u> , Adelina C. Ianculescu, Nadejda Horchidan, Stefania Stoleriu, Florin Tudorache, Sorin Tascu, Liliana Mitoseriu	Temperature dependence of tunability of $\text{Ba}(\text{Sn}_x\text{Ti}_{1-x})\text{O}_3$ ceramics	7	6	0.834	0.139	0.834
Nadejda Horchidan, Adelina Ianculescu, <u>Lavinia Curecheriu</u> , Florin Tudorache, Valentina Musteata, Stefania Stoleriu, Nicolae Dragan, Dorel Crisan, Sorin Tascu, Liliana Mitoseriu	Preparation and characterization of barium titanate stannate solid solution	10	7.5	0.507	0.068	
<u>Lavinia Curecheriu</u> , Maria Teresa Buscaglia, Vincenzo Buscaglia, Zhe Zhao, Liliana Mitoseriu	Grain size effect on the nonlinear dielectric properties of barium titanate ceramics	5	5	1.399	0.280	1.399
Adelina Ianculescu, Maria M. Carnasciali, <u>Lavinia Curecheriu</u> , Liliana Mitoseriu	Raman investigation and functional characterisation of $(\text{Pb}_{0.8}\text{La}_{0.2})(\text{Mg}_{0.4}\text{Nb}_{0.6})\text{O}_3$ ceramics prepared by the columbite method,	4	4	0.469	0.117	0.469
Maria T. Buscaglia, Vincenzo Buscaglia, <u>Lavinia P. Curecheriu</u> , Petronel Postolache, Liliana Mitoseriu, Adelina Ianculescu, Bogdan Vasile, Zhao Zhe, Paolo Nanni	$\text{Fe}_2\text{O}_3@ \text{BaTiO}_3$ core-shell particles as reactive precursors for the preparation of multifunctional composites containing different magnetic phase	9	7	1.885	0.269	
<u>Lavinia P. Curecheriu</u> , Maria T. Buscaglia, Vincenzo Buscaglia, Liliana Mitoseriu, Petronel Postolache, Adelina Ianculescu, Paolo Nanni	Functional properties of $\text{BaTiO}_3$ - $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ magnetoelectric ceramics prepared from powders with core-shell structure	7	6	0.875	0.146	0.875
<u>Lavinia P. Curecheriu</u> , Adelina Ianculescu, Liliana Mitoseriu	Tunability properties in the paraelectric state of the $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics	3	3	0.702	0.234	0.702
<u>Lavinia P. Curecheriu</u> , Liliana Mitoseriu, Adelina Ianculescu	Nonlinear dielectric properties of $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ ceramics,	3	3	0.488	0.163	0.488



<u>Lavinia P. Curecheriu</u> , Liliana Mitoseriu, Adelina Ianculescu	Tunability properties of the $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ relaxors and theoretical description	3	3	0.488	0.163	0.488
<u>Lavinia P. Curecheriu</u> , Cristina E. Ciomaga, Liliana Mitoseriu	Temperature-dependent tunability in the paraelectric state of $\text{BaTiO}_3$ – based solid solutions	3	3	0.169	0.056	0.169
Felicia Prihor, Adelina Ianculescu, Liliana Mitoseriu, Petronel Postolache, <u>Lavinia Curecheriu</u> , Nicolae Dragan, Dorin Crisan	Functional properties of the $(1-x)\text{BiFeO}_3 - x\text{BaTiO}_3$	7	6	0.169	0.028	
<u>Lavinia P. Curecheriu</u> , Liliana Mitoseriu, Adelina Ianculescu, Ana Braileanu	Critical evolution of the local order parameters related to the nanopolar domains in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics	4	4	0.63	0.158	0.63
Liliana Mitoseriu, Adelina Ianculescu, Maria M. Carnasciali, Ana Braileanu, <u>Lavinia Curecheriu</u>	Properties of the $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ ceramics prepared by using two different Mg precursors	5	5	0.176	0.035	
Adelina Ianculescu, Dana Berger, Liliana Mitoseriu, <u>Lavinia P. Curecheriu</u> , Nicolae Dragan, Dorin Crisan	Properties of $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ ceramics prepared by the modified Pechini method	6	5.5	0.176	0.032	
<u>Lavinia P. Curecheriu</u> , Florin M. Tufescu, Adelina Ianculescu, Cristina E. Ciomaga, Liliana Mitoseriu, Alexandru Stancu	Tunability characteristics of $\text{BaTiO}_3$ - based ceramics: modeling and experimental study	6	5.5	0.113	0.021	0.113
Liliana Mitoseriu, Cristina E. Ciomaga, Ioan Dumitru, <u>Lavinia P. Curecheriu</u> , Felicia Prihor, Alexandra Guzu	Study of the frequency-dependence of the complex permittivity in $\text{Ba}(\text{Zr,Ti})\text{O}_3$ ceramics: evidences of the grain boundary phenomena	6	5.5	0.113	0.021	
Florin M. Tufescu, <u>Lavinia Curecheriu</u> , Adelina Ianculescu, Cristina Ciomaga, Liliana Mitoseriu	High-voltage tunability measurements of the $\text{BaZr}_x\text{Ti}_{1-x}\text{O}_3$ ferroelectric ceramics	5	5	0.113	0.023	
					<b>7.004</b>	<b>18.391</b>