

## Articole (selectie):

Nr	Titlul	Jurnal	Autori	FI	AIS
1	Electronic Synapses Enabled by an Epitaxial SrTiO <sub>3</sub> - $\delta$ /Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Ferroelectric Field-Effect Memristor Integrated on Silicon	ADV. FUNCT. MATER. 34, 2311767 (2024)	Nikitas Siannas, Christina Zacharaki, Polychronis Tsipas, Dong Jik Kim, Wassim Hamouda, Cosmin Istrate, Lucian Pintilie, Martin Schmidbauer, Catherine Dubourdieu, and Athanasios Dimoulas	19	3.987
2	Grain size-driven effect on the functional properties in Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> ceramics consolidated by spark plasma sintering	Journal of the European Ceramic Society 43, 3250–3265 (2023)	Roxana-Elena Patru, Catalina Andreea Stanciu, Elena Mirabela Soare, Vasile-Adrian Surdu, Roxana Doina Trusca, Adrian Ionut, Nicoara, Bogdan Stefan Vasile, Georgia Boni, Luminita Amarande, Nadejda Horchidan, Lavinia Petronela Curecheriu, Liliana Mitoseriu, Lucian Pintilie, Ioana Pintilie, Adelina-Carmen Ianculescu	5.7	0.852
3	From non-stoichiometric CTSe to single phase and stoichiometric CZTSe films by annealing under Sn+Se atmosphere	Ceramics International 49, 33692–33702 (2023)	M.Y. Zaki, F. Sava, I.D. Simandan, A.T. Buruiana, A.E. Bocirnea, I. Stavarache, A. Velea, A.C. Galca, L. Pintilie	5.2	0.590
4	BaTiO <sub>3</sub> nanocubes-Gelatin composites for piezoelectric harvesting: Modeling and experimental study	CERAMICS INTERNATIONAL,48, pp+25880-25893 (2022)	Ciomaga, CE; Horchidan, N; Padurariu, L; Stirbu, RS; Tiron, V; Tufescu, FM; Topala, I; Condurache, O; Botea, M; Pintilie, I; Pintilie, L; Rotaru, A; Caruntu, G; Mitoseriu, L	5.532	0.552
5	Memory Window Enhancement in Antiferroelectric RAM by Hf Doping in ZrO <sub>2</sub>	IEEE ELECTRON DEVICE LETTERS,43, pp+1447-1450 (2022)	Lorenzo, PD; Li, SR; Pintilie, L; Istrate, CM; Mikolajick, T; Schroeder, U	4.816	0.931
6	Ferroelectricity modulates polaronic coupling at multiferroic interfaces	COMMUNICATIONS PHYSICS,5,209 (2022)	Husanu, MA; Popescu, DG; Bisti, F; Hrib, LM; Filip, LD; Pasuk, I; Negrea, R; Istrate, MC; Lev, L; Schmitt, T; Pintilie, L; Mishchenko, A; Teodorescu, CM; Strocov, VN	6.497	2.484
7	Metastable ferroelectricity driven by depolarization fields in ultrathin Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub>	COMMUNICATIONS PHYSICS,5,178 (2022)	Siannas, N; Zacharaki, C; Tsipas, P; Chaitoglou, S; Begon-Lours, L; Istrate, C; Pintilie, L; Dimoulas, A	6.497	2.484
8	ZnS stacking order influence on the formation of Zn-poor and Zn-rich Cu <sub>2</sub> ZnSnS <sub>4</sub> phase	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS,33, pp+11989-12001 (2022)	Zaki, MY; El Khouja, O; Nouneh, K; Touhami, ME; Matei, E; Azmi, S; Rusu, MI; Grigorescu, CEA; Briche, S; Boutamart, M; Badica, P; Burdusel, M; Secu, M; Pintilie, L; Galca, AC	2.779	0.278
9	Negative Capacitance and Switching Dynamics Control Via Non-Ferroelectric Elements	ACS APPLIED ENERGY MATERIALS,5, pp+3307-3318 (2022)	Boni, AG; Patru, R; Filip, LD; Chirila, C; Pasuk, I; Pintilie, I; Pintilie, L	6.959	1.207
10	Increasing Permittivity and Mechanical Harvesting Response of PVDF-Based Flexible Composites by Using Ag Nanoparticles onto BaTiO <sub>3</sub> Nanofillers	NANOMATERIALS,12,9 34 (2022)	Horchidan, N; Ciomaga, CE; Curecheriu, LP; Stoian, G; Botea, M; Florea, M; Maraloiu, VA; Pintilie, L; Tufescu, FM; Tiron, V; Rotaru, A; Mitoseriu, L	5.719	0.738

11	Controlling polarization direction in epitaxial Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> films through Nb (n-type) and Fe (p-type) doping	SCIENTIFIC REPORTS,12,755 (2022)	Chirila, CF; Stancu, V; Boni, GA; Pasuk, I; Trupina, L; Filip, LD; Radu, C; Pintilie, I; Pintilie, L	4.997	1.208
12	Secondary phases and their influence on optical and electrical properties of electrodeposited Cu <sub>2</sub> FeSnS <sub>4</sub> films	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING,127,887 (2021)	El Khouja, O; Galca, AC; Zaki, MY; Talbi, A; Ahmoum, H; Nouneh, K; Touhami, ME; Taibi, M; Matei, E; Enculescu, M; Pintilie, L	2.983	0.328
13	Electro-active properties of nanostructured films of cytosine and guanine nucleobases	NANOTECHNOLOGY,32,415702 (2021)	Socol, M; Trupina, L; Galca, AC; Chirila, C; Stan, GE; Vlaicu, AM; Stanciu, AE; Boni, AG; Botea, M; Stanculescu, A; Pintilie, L; Borca, B	3.953	0.584
14	Tetragonal-Cubic Phase Transition and Low-Field Dielectric Properties of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Crystals	MATERIALS,14,4215 (2021)	Patru, RE; Khassaf, H; Pasuk, I; Botea, M; Trupina, L; Ganea, CP; Pintilie, L; Pintilie, I	3.748	0.541
15	Homogeneous versus Inhomogeneous Polarization Switching in PZT Thin Films: Impact of the Structural Quality and Correlation to the Negative Capacitance Effect	NANOMATERIALS,11,2124 (2021)	Pintilie, L; Boni, GA; Chirila, CF; Stancu, V; Trupina, L; Istrate, CM; Radu, C; Pintilie, I	5.719	0.738
16	Structural, functional properties and enhanced thermal stability of bulk graded (Ba,Sr) TiO <sub>3</sub> structures obtained by spark plasma sintering (vol 12, pg 2085, 2021)	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T,13, pp+1323-1323 (2021)	Botea, M; Pintilie, I; Surdu, VA; Stanciu, CA; Trusca, RD; Vasile, BS; Patru, R; Udrea, M; Ianculescu, AC; Pintilie, L	6.267	0.745
17	Accidental Impurities in Epitaxial Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> Thin Films Grown by Pulsed Laser Deposition and Their Impact on the Macroscopic Electric Properties	NANOMATERIALS,11,1177 (2021)	Boni, GA; Chirila, CF; Stancu, V; Amarande, L; Pasuk, I; Trupina, L; Istrate, CM; Radu, C; Tomulescu, A; Neatu, S; Pintilie, I; Pintilie, L	5.719	0.738
18	Structural Details of BaTiO <sub>3</sub> Nano-Powders Deduced from the Anisotropic XRD Peak Broadening	NANOMATERIALS,11,1121 (2021)	Pasuk, I; Neatu, F; Neatu, S; Florea, M; Istrate, CM; Pintilie, I; Pintilie, L	5.719	0.738
19	Structural, functional properties and enhanced thermal stability of bulk graded (Ba,Sr)TiO <sub>3</sub> structures obtained by spark plasma sintering	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T,12, pp+2085-2103 (2021)	Botea, M; Pintilie, I; Surdu, VA; Stanciu, CA; Trusca, RD; Vasile, BS; Patru, R; Ianculescu, AC; Pintilie, L	6.267	0.745
20	Impact of Iridium Oxide Electrodes on the Ferroelectric Phase of Thin Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Films	PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS,15,2100012 (2021)	Mittmann, T; Szyjka, T; Alex, H; Istrate, MC; Lomenzo, PD; Baumgarten, L; Muller, M; Jones, JL; Pintilie, L; Mikolajick, T; Schroeder, U	3.277	0.637
21	Negative capacitance in epitaxial ferroelectric capacitors evidenced by	MATERIALS TODAY COMMUNICATIONS,26,102076 (2021)	Boni, GA; Chirila, C; Filip, LD; Pintilie, I; Pintilie, L	3.662	0.500

	dynamic dielectric characterization				
22	Structural, morphological and optical properties of Cu-Fe-Sn-S thin films prepared by electrodeposition at fixed applied potential	THIN SOLID FILMS,721,138547 (2021)	El Khouja, O; Galca, AC; Nouneh, K; Zaki, MY; Touhami, ME; Taibi, M; Matei, E; Negrila, CC; Enculescu, M; Pintilie, L	2.358	0.326
23	Effect of strain and stoichiometry on the ferroelectric and pyroelectric properties of the epitaxial Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> films deposited on Si wafers	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS,266,115042 (2021)	Chirila, C; Boni, GA; Filip, LD; Husanu, M; Neatu, S; Istrate, CM; Le Rhun, G; Vilquin, B; Trupina, L; Pasuk, I; Botea, M; Pintilie, I; Pintilie, L	3.407	0.544
24	The Role of Interface Defect States in n- and p-Type Ge Metal-Ferroelectric-Semiconductor Structures with Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Ferroelectric	PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE,218,2000500 (2021)	Boni, GA; Istrate, CM; Zacharaki, C; Tsipas, P; Chaitoglou, S; Evangelou, EK; Dimoulas, A; Pintilie, I; Pintilie, L	2.170	0.360
25	Polarization Switching and Negative Capacitance in Epitaxial PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> Thin Films	PHYSICAL REVIEW APPLIED,14,014080 (2020)	Pintilie, L; Boni, GA; Chirila, C; Hrib, L; Trupina, L; Filip, LD; Pintilie, I	4.985	1.633
26	Influence of doping the inorganic cation with Eu or Sb on the properties of perovskite films	PHYSICA SCRIPTA,95,075707 (2020)	Stancu, V; Leonat, LN; Tomulescu, AG; Derbali, S; Pintilie, L; Besleaga, C; Galca, AC; Neatu, F; Neatu, T; Florea, M; Pintilie, I	2.487	0.520
27	Estimation of the pyroelectric coefficient for ceramic Pb(Zr,Ti)O <sub>3</sub> samples: Comparison of the results obtained by two easy to implement methods	INFRARED PHYSICS & TECHNOLOGY,106,103269 (2020)	Pintilie, L; Iuga, A; Stancu, V; Botea, M	2.638	0.449
28	(Ba,Sr)TiO <sub>3</sub> solid solutions sintered from sol-gel derived powders: An insight into the composition and temperature dependent dielectric behavior	CERAMICS INTERNATIONAL,46, pp+4180-4190 (2020)	Patru, RE; Ganea, CP; Stanciu, CA; Surdu, VA; Trusca, R; Ianculescu, AC; Pintilie, I; Pintilie, L	4.527	0.545
29	Resistance hysteresis correlated with synchrotron radiation surface studies in atomic sp(2) layers of carbon synthesized on ferroelectric (001) lead zirconate titanate in an ultrahigh vacuum	RSC ADVANCES,10, pp+1522-1534 (2020)	Apostol, NG; Lizzit, D; Lungu, GA; Lacovig, P; Chirila, CF; Pintilie, L; Lizzit, S; Teodorescu, CM	3.361	0.525
30	Designing functional ferroelectric interfaces from first-principles: dipoles and band bending at oxide heterojunctions	NEW JOURNAL OF PHYSICS,21,113005 (2019)	Dorin, R; Filip, LD; Pintilie, L; Butler, KT; Plugaru, N	3.539	1.438

31	Low value for the static background dielectric constant in epitaxial PZT thin films	SCIENTIFIC REPORTS,9,14698 (2019)	Boni, GA; Chirila, CF; Hrib, L; Negrea, R; Filip, LD; Pintilie, I; Pintilie, L	3.998	1.261
32	Reticulated Mesoporous TiO <sub>2</sub> Scaffold, Fabricated by Spray Coating, for Large-Area Perovskite Solar Cells	ENERGY TECHNOLOGY,8,19009 22 (2020)	Tomulescu, AG; Stancu, V; Besleaga, C; Enculescu, M; Nemnes, GA; Florea, M; Dumitru, V; Pintilie, L; Pintilie, I; Leonat, L	3.631	0.665
33	Memcomputing and Nondestructive Reading in Functional Ferroelectric Heterostructures	PHYSICAL REVIEW APPLIED,12,024053 (2019)	Boni, GA; Filip, LD; Chirila, C; Iuga, A; Pasuk, I; Hrib, L; Trupina, L; Pintilie, I; Pintilie, L	4.194	1.642
34	Dramatic impact of pressure and annealing temperature on the properties of sputtered ferroelectric HZO layers	APL MATERIALS,7,081109 (2019)	Bouaziz, J; Romeo, PR; Baboux, N; Negrea, R; Pintilie, L; Vilquin, B	3.819	1.199
35	Structural and optical properties of ZnO thin films grown by rapid atmospheric mist chemical vapor technique	OPTICAL AND QUANTUM ELECTRONICS,51,210 (2019)	Derbali, S; Nouneh, K; Galca, AC; Touhami, ME; Secu, M; Matei, E; Leonat, LN; Pintilie, L; El Harfaoui, N; Fahoume, M	1.842	0.223
36	Impact on Ferroelectricity and Band Alignment of Gradually Grown Au on BaTiO <sub>3</sub>	PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS,13,1900077 (2019)	Popescu, DG; Husanu, MA; Chirila, C; Pintilie, L; Teodorescu, CM	2.291	0.679
37	Polarization branches and optimization calculation strategy applied to ABO(3) ferroelectrics	MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING,27,04500 8 (2019)	Filip, LD; Plugaru, N; Pintilie, L	1.874	0.592
38	Unveiling the double-well energy landscape in a ferroelectric layer	NATURE,565, pp+464-+ (2019)	Hoffmann, M; Fengler, FPG; Herzig, M; Mittmann, T; Max, B; Schroeder, U; Negrea, R; Pintilie, L; Slesazeck, S; Mikolajick, T	42.779	21.917
39	Ferroelectric Field Effect Transistors Based on PZT and IGZO	IEEE JOURNAL OF THE ELECTRON DEVICES SOCIETY,7, pp+268-275 (2019)	Besleaga, C; Radu, R; Balescu, LM; Stancu, V; Costas, A; Dumitru, V; Stan, G; Pintilie, L	2.555	0.670
40	Room temperature ferromagnetism and its correlation to ferroelectricity of manganese embedded in lead zirco-titanate	THIN SOLID FILMS,669, pp+440-449 (2019)	Bucur, IC; Apostol, NG; Abramiuc, LE; Tanase, LC; Tache, CA; Lungu, GA; Costescu, RM; Chirila, CF; Trupina, L; Pintilie, L; Teodorescu, CM	2.030	0.329
41	Comparison between dielectric and pyroelectric properties of PZFNT and BST type ceramics	PROCESSING AND APPLICATION OF CERAMICS,13, pp+269-276 (2019)	Stancu, V; Amarande, L; Botea, M; Iuga, A; Leonat, LN; Tomulescu, AG; Cioangher, M; Balescu, LM; Pintilie, L	0.968	0.174
42	How measurement protocols influence the dynamic J-V characteristics of perovskite solar cells: Theory and experiment	SOLAR ENERGY,173, pp+976-983 (2018)	Nemnes, GA; Besleaga, C; Tomulescu, AG; Palici, A; Pintilie, L; Manolescu, A; Pintilie, I	4.674	0.785

43	Polarization Orientation in Lead Zirconate Titanate (001) Thin Films Driven by the Interface with the Substrate	PHYSICAL REVIEW APPLIED,10,034020 (2018)	Tanase, LC; Abramiuc, LE; Popescu, DG; Trandafir, AM; Apostol, NG; Bucur, IC; Hrib, L; Pintilie, L; Pasuk, I; Trupina, L; Teodorescu, CM	4.532	1.832
44	Triggering surface ferroelectric order in Pb(Zr, Ti)O-3(001) by deposition of platinum	APPLIED SURFACE SCIENCE,432, pp+27-33 (2018)	Bucur, IC; Tanase, LC; Abramiuc, LE; Lungu, GA; Chirila, C; Trupina, L; Apostol, NG; Costescu, RM; Negrea, RF; Pintilie, L; Teodorescu, CM	5.155	0.671
45	The Influence of the Relaxation Time on the Dynamic Hysteresis in Perovskite Solar Cells	MATHEMATICAL MODELING AND COMPUTATIONAL PHYSICS 2017 (MMCP 2017),173,03017 (2018)	Palici, A; Nemnes, GA; Besleaga, C; Pintilie, L; Anghel, DV; Pintilie, I; Manolescu, A	not available	not available
46	Multiple polarization states in symmetric ferroelectric heterostructures for multi-bit non-volatile memories	NANOSCALE,9, pp+19271-19278 (2017)	Boni, GA; Filip, LD; Chirila, C; Pasuk, I; Negrea, R; Pintilie, I; Pintilie, L	7.233	1.704
47	Steplike Switching in Symmetric PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> /CoFeO <sub>4</sub> /PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> Heterostructures for Multistate Ferroelectric Memory	PHYSICAL REVIEW APPLIED,8,034035 (2017)	Boni, AG; Chirila, C; Pasuk, I; Negrea, R; Pintilie, I; Pintilie, L	4.782	2.124
48	Low-energy electron diffraction from ferroelectric surfaces: Dead layers and surface dipoles in clean Pb(Zr, Ti)O-3(001)	PHYSICAL REVIEW B,96,115438 (2017)	Teodorescu, CM; Pintilie, L; Apostol, NG; Costescu, RM; Lungu, GA; Hrib, L; Trupina, L; Tanase, LC; Bucur, IC; Bocirnea, AE	3.813	1.142
49	Polarization landscape effects in soft X-ray-induced surface chemical decomposition of lead zirco-titanate, evidenced by photoelectron spectromicroscopy	NANOSCALE,9, pp+11055-11067 (2017)	Abramiuc, LE; Tanase, LC; Barinov, A; Apostol, NG; Chirila, C; Trupina, L; Pintilie, L; Teodorescu, CM	7.233	1.704
50	Magnetocapacitance in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O- <sub>3</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> multiferroic heterostructures	SCIENTIFIC REPORTS,7,6563 (2017)	Hrib, LM; Pintilie, L; Alexe, M	4.122	1.356
51	Normal and Inverted Hysteresis in Perovskite Solar Cells	JOURNAL OF PHYSICAL CHEMISTRY C,121, pp+11207-11214 (2017)	Nemnes, GA; Besleaga, C; Stancu, V; Dogaru, DE; Leonat, LN; Pintilie, L; Torfason, K; Ilkov, M; Manolescu, A; Pintilie, I	4.484	1.105
52	Atomistic Simulations of Methylammonium Lead Halide Layers on PbTiO <sub>3</sub> (001) Surfaces	JOURNAL OF PHYSICAL CHEMISTRY C,121, pp+9096-9109 (2017)	Plugaru, N; Nemnes, GA; Filip, L; Pintilie, I; Pintilie, L; Butler, KT; Manolescu, A	4.484	1.105
53	Iodine Migration and Degradation of Perovskite Solar Cells Enhanced by Metallic Electrodes	JOURNAL OF PHYSICAL CHEMISTRY LETTERS,7, pp+5168-5175 (2016)	Besleaga, C; Abramiuc, LE; Stancu, V; Tomulescu, AG; Sima, M; Trinca, L; Plugaru, N; Pintilie, L; Nemnes, GA; Iliescu, M; Svavarsson, HG; Manolescu, A; Pintilie, I	9.353	2.670

54	Ferroelectric triggering of carbon monoxide adsorption on lead zirconate (001) surfaces	SCIENTIFIC REPORTS,6,35301 (2016)	Tanase, LC; Apostol, NG; Abramiuc, LE; Tache, CA; Hrib, L; Trupina, L; Pintilie, L; Teodorescu, CM	4.259	1.484
55	Preface for ROCAM 2015	THIN SOLID FILMS,614, pp+1-1 (2016)	Pintilie, L	1.879	0.384
56	Characteristics of Ce <sup>3+</sup> -doped barium titanate nanoshell tubes prepared by template-mediated colloidal chemistry	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY,36, pp+1633-1642 (2016)	Ianculescu, AC; Vasilescu, CA; Trupina, L; Vasile, BS; Trusca, R; Cernea, M; Pintilie, L; Nicoara, A	3.454	0.701
57	Metal-ferroelectric-metal current-voltage characteristics: A charge flow balance through interfaces approach	EUROPEAN PHYSICAL JOURNAL B,89,44 (2016)	Filip, LD; Pintilie, L	1.436	0.449
58	Electrical properties of templateless electrodeposited ZnO nanowires	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING,42, pp+364-372 (2016)	Matei, E; Costas, A; Florica, C; Enculescu, M; Pintilie, I; Pintilie, L; Enculescu, I	2.359	0.398
59	Leakage current for thin film metal-ferroelectric-metal devices	2016 5TH INTERNATIONAL SYMPOSIUM ON NEXT-GENERATION ELECTRONICS (ISNE),, pp+- (2016)	Filip, LD; Pintilie, L; Tam, WS; Kok, CW	not available	not available
60	Electrode interface controlled electrical properties in epitaxial Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> films grown on Si substrates with SrTiO <sub>3</sub> buffer layer	THIN SOLID FILMS,593, pp+124-130 (2015)	Boni, AG; Chirila, C; Pasuk, I; Negrea, R; Trupina, L; Le Rhun, G; Vilquin, B; Pintilie, I; Pintilie, L	1.761	0.426
61	Polarization induced self-doping in epitaxial Pb(Zr <sub>0.20</sub> Ti <sub>0.80</sub> )O <sub>3</sub> thin films	SCIENTIFIC REPORTS,5,14974 (2015)	Pintilie, L; Ghica, C; Teodorescu, CM; Pintilie, I; Chirila, C; Pasuk, I; Trupina, L; Hrib, L; Boni, AG; Apostol, NG; Abramiuc, LE; Negrea, R; Stefan, M; Ghica, D	5.228	1.863
62	Simulation of the capacitance-voltage characteristic in the case of epitaxial ferroelectric films with Schottky contacts	THIN SOLID FILMS,592, pp+200-206 (2015)	Filip, LD; Pintilie, L; Stancu, V; Pintilie, I	1.761	0.426
63	Comparison between the ferroelectric/electric properties of the PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> films grown on Si (100) and on STO (100) substrates	JOURNAL OF MATERIALS SCIENCE,50, pp+3883-3894 (2015)	Chirila, C; Boni, AG; Pasuk, I; Negrea, R; Trupina, L; Le Rhun, G; Yin, S; Vilquin, B; Pintilie, I; Pintilie, L	2.302	0.566
64	Electrical properties of single CuO nanowires for device fabrication: Diodes and field effect transistors	APPLIED PHYSICS LETTERS,106,223501 (2015)	Florica, C; Costas, A; Boni, AG; Negrea, R; Ion, L; Preda, N; Pintilie, L; Enculescu, I	3.142	1.045
65	Microstructure and properties of epitaxial Sr <sub>2</sub> FeMoO <sub>6</sub> films containing SrMoO <sub>4</sub> precipitates	JOURNAL OF MATERIALS SCIENCE,50, pp+3131-3138 (2015)	Deniz, H; Preziosi, D; Alexe, M; Hesse, D; Eisenschmidt, C; Schmidt, G; Pintilie, L	2.302	0.566

66	Spectro-microscopic photoemission evidence of charge uncompensated areas in Pb(Zr,Ti)O <sub>3</sub> (001) layers	PHYSICAL CHEMISTRY CHEMICAL PHYSICS,17, pp+509-520 (2015)	Popescu, DG; Husanu, MA; Trupina, L; Hrib, L; Pintilie, L; Barinov, A; Lizzit, S; Lacovig, P; Teodorescu, CM	4.449	1.158
67	Intrinsic energy band alignment of functional oxides	PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS,8, pp+571-576 (2014)	Li, SY; Chen, F; Schafrank, R; Bayer, TJM; Rachut, K; Fuchs, A; Siol, S; Weidner, M; Hohmann, M; Pfeifer, V; Morasch, J; Ghinea, C; Arveux, E; Gunzler, R; Gassmann, J; Korber, C; Gassenbauer, Y; Sauberlich, F; Rao, GV; Payan, S; Maglione, M; Chirila, C; Pintilie, L; Jia, LC; Ellmer, K; Naderer, M; Reichmann, K; Bottger, U; Schmelzer, S; Frunza, RC; Ursic, H; Malic, B; Wu, WB; Erhart, P; Klein, A	2.142	0.742
68	Schottky barrier versus surface ferroelectric depolarization at Cu/Pb(Zr, Ti)O <sub>3</sub> interfaces	JOURNAL OF MATERIALS SCIENCE,49, pp+3337-3351 (2014)	Stoflea, LE; Apostol, NG; Chirila, C; Trupina, L; Negrea, R; Pintilie, L; Teodorescu, CM	2.371	0.592
69	Polarization-Control of the Potential Barrier at the Electrode Interfaces in Epitaxial Ferroelectric Thin Films	ACS APPLIED MATERIALS & INTERFACES,6, pp+2929-2939 (2014)	Pintilie, I; Teodorescu, CM; Ghica, C; Chirila, C; Boni, AG; Hrib, L; Pasuk, I; Negrea, R; Apostol, N; Pintilie, L	6.723	1.373
70	Band bending at free Pb(Zr,Ti)O <sub>3</sub> surfaces analyzed spectroscopy by X-ray photoelectron	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS,178, pp+1317-1322 (2013)	Apostol, NG; Stoflea, LE; Lungu, GA; Tache, CA; Popescu, DG; Pintilie, L; Teodorescu, CM	2.122	0.465
71	Band bending in Au/Pb(Zr,Ti)O <sub>3</sub> investigated by X-ray photoelectron spectroscopy: Dependence on the initial state of the film	THIN SOLID FILMS,545, pp+13-21 (2013)	Apostol, NG; Stoflea, LE; Lungu, GA; Tanase, LC; Chirila, C; Frunza, L; Pintilie, L; Teodorescu, CM	1.867	0.510
72	Influence of orbital contributions to the valence band alignment of Bi <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , BiFeO <sub>3</sub> , and Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub>	PHYSICAL REVIEW B,88,045428 (2013)	Li, SY; Morasch, J; Klein, A; Chirila, C; Pintilie, L; Jia, LC; Ellmer, K; Naderer, M; Reichmann, K; Groting, M; Albe, K	3.664	1.342
73	Charge transfer and band bending at Au/Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> interfaces investigated by photoelectron spectroscopy	APPLIED SURFACE SCIENCE,273, pp+415-425 (2013)	Apostol, NG; Stoflea, LE; Lungu, GA; Chirila, C; Trupina, L; Negrea, RF; Ghica, C; Pintilie, L; Teodorescu, CM	2.538	0.550
74	Structural, dielectric, and piezoelectric properties of fine-grained NBT-BT <sub>0.11</sub> ceramic derived from gel precursor	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY,32, pp+2389-2397 (2012)	Cernea, M; Galassi, C; Vasile, BS; Capiiani, C; Berbecaru, C; Pintilie, I; Pintilie, L	2.360	0.690
75	Charge Transport in Ferroelectric Thin Films	FERROELECTRICS - PHYSICAL EFFECTS,, pp+101-134 (2011)	Pintilie, L	not available	not available

76	Ferroelectric Schottky diode behavior from a SrRuO <sub>3</sub> -Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -Ta structure	PHYSICAL REVIEW B,82,085319 (2010)	Pintilie, L; Stancu, V; Trupina, L; Pintilie, I	3.774	1.385
77	The influence of the top-contact metal on the ferroelectric properties of epitaxial ferroelectric Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> thin films	JOURNAL OF APPLIED PHYSICS,104,114101 (2008)	Pintilie, L; Vrejoiu, I; Hesse, D; Alexe, M	2.201	0.945
78	Coexistence of ferroelectricity and antiferroelectricity in epitaxial PbZrO <sub>3</sub> films with different orientations	JOURNAL OF APPLIED PHYSICS,103,024101 (2008)	Pintilie, L; Boldyreva, K; Alexe, M; Hesse, D	2.201	0.945
79	Capacitance tuning in antiferroelectric-ferroelectric PbZrO <sub>3</sub> -Pb(Zr(0.8)Ti(0.2))O <sub>3</sub> epitaxial multilayers	NEW JOURNAL OF PHYSICS,10,013003 (2008)	Pintilie, L; Boldyreva, K; Alexe, M; Hesse, D	3.440	1.863
80	Ferroelectric/Antiferroelectric Pb(Zr <sub>0.8</sub> Ti <sub>0.2</sub> )O <sub>3</sub> /PbZrO <sub>3</sub> Epitaxial Multilayers: Growth and Thickness-Dependent Properties	FERROELECTRICS,370, PII 905070271 (2008)	Boldyreva, K; Pintilie, L; Lotnyk, A; Misirlioglu, IB; Alexe, M; Hesse, D	0.562	0.176
81	Thickness-driven antiferroelectric-to-ferroelectric phase transition of thin PbZrO <sub>3</sub> layers in epitaxial PbZrO <sub>3</sub> /PbZr <sub>0.8</sub> Ti <sub>0.2</sub> O <sub>3</sub> multilayers (vol 91, art no 122915, 2007)	APPLIED PHYSICS LETTERS,91,209901 (2007)	Boldyreva, K; Pintilie, L; Lotnyk, A; Misirlioglu, IB; Alexe, M; Hesse, D	3.596	1.491