CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

PERSONAL INFORMATION

Name, Surname: **Carmen GALASSI**

E-mail: [redacted]

Nationality: Italian

WORK EXPERIENCE

Dates (from – to)

2010-01-01- Research Director (hiips://orcid.org/0000-0002-7892-2836)
I level **CNR**. Scientific Area: Materials Science and Technology
Research projects coordination and dissemination: ceramic materials development, processing and characterization. Tutor of MSC and PhD students.

05/11/2018- 05/11/2024 Qualified as Full Professor of Materials Science and Technology in Italian Universities.

2016- Head of the Research Project ISTEC «Smart multifunctional ceramic materials : piezoelectrics, ferroelectrics, antiferroelectrics, multiferroics.

Out of 264 papers co-authored, 186 are published in international, refereed journals (SCOPUS). H index 34 (Google Scholar), 28 (SCOPUS).

Currently, Member of the REPRISE, Register of Expert Peer-Reviewers for Italian Scientific Evaluation (MIUR-Italian Ministry of Education, University and Research).

2019- Honorary Member of the Advisory Board of the Piezo Institute (hiips://piezoinstitute.univ-tours.fr/index)

2019- **Member of the Steering Committee of the Technical-Scientific Thematic Group: Innovative manufacturing processes (GTTS5) of the Italian Technology Cluster Intelligent Factories – CFI** (hiips://www.fabbricaintelligente.it/english/lista-gtts/gtts5/).

2018- Section editor for ELSEVIER: Encyclopedia of Materials: Technical Ceramics and Glasses (new edition, *work in progress*), section Electroceramics.

2016-2017 Associated Editor of the Journal Ceramics International (ELSEVIER).

2016 Appointed (by The National Agency for the Evaluation of the University and Research Systems (ANVUR)) Member of the Group of Experts for the Evaluation for the disciplinary research Area Industrial engineering and information technology (GEV9) for the years 2011-2014.

2015 Evaluator of a project within the Italian MISE Call for funding Sustainable growth (DM 15 /10/ 2014, Sustainable industry, and D.M. of 30.04.2015), on behalf of CNR.

2014- Evaluator for the Slovenian Research Agency for applications for co-financing of projects for 2014, 2015, 2016, 2018, 2019.

2014-2018 Member of the Steering Committee of the Technical-Scientific Thematic Group: Systems for the enhancement of people in factories (GTTS3) of the Italian Technology Cluster Intelligent Factories – CFI.

2014 Evaluator of two projects within the Italian MISE Call for funding Sustainable growth (DM 20.06.2013 and D.D. 07/25/2014) on behalf of CNR.

2013- 2017 CNR-ISTEC's Electrical Measurement Laboratory Head.

2012- Evaluator for the Italian Ministry of Economic Development) for National Projects

2011-2014 Member of the Steering Committee of the EU project SENERES

2010-2014 National representative in the MC of the COST Action *MP0904* SIMUFER: Single- and Multiphase Ferroics and Multiferroics with Restricted Geometries and Leader

Books and Articles from 2012, articles published in JCR journals
(full list on hiips://orcid.org/0000-0002-7892-2836)

2019

1. J. Yus,; Z. Gonzalez, A. J. Sanchez-Herencia, A. Sangiorgi, N. Sangiorgi, ; D. Gardini, A. Sanson, C. Galassi, A. Caballero, J. Morales, B. Ferrari, Semiconductor water-based inks: miniaturized NiO pseudocapacitor electrodes by inkjet printing, Journal of the European Ceramic Society 39(9), 2908-2914, 2019.
2. Cordero F., Buixaderas E. and Galassi C., Damage from coexistence of ferroelectric and antiferroelectric domains and clustering of O vacancies in PZT: an elastic and Raman study Materials 16(6),957 , 2019.
3. M. Cernea, B. S.Vasile, I.V.Ciuchi, V.A.Surdu, C.Bartha, A.luga, P.Galizia, C.Galassi Composite BNT-BT0.08/CoFe2O4 with core-shell nanostructure for piezoelectric and ferromagnetic applications Materials Science and Engineering: B, 240, (2019), Pp 7-15
4. Sangiorgi, Z. Gonzalez, A. Ferrandez, J.Yus, A.J. Sanchez-Herencia, C. Galassi, A. Sanson, and B. Ferrari, 3D Printing of Photocatalytic Filters using a Biopolymer to Immobilize TiO2 nanoparticles Journal of the Electrochemical Society, 166 (5) H3239-H3248 (2019) (*online* march 1, 2019
5. M. Dumitru-Grivei, V. Ion, R. Birjega, A. Moldovan, F. Craciun, M. Cernea, C. Galassi, M. Dinescu, Multiferroic (Nd,Fe)-doped PbTiO3 thin films obtained by pulsed laser deposition Applied Physics A (2019) 125:113 hiips://doi.org/10.1007/s00339-019-2403-5
6. F. Craciun, F. Cordero, M. Cernea, V. Fruth, I. Atkinson, N. Stanica, B. Vasile, R. Trusca, A. luga, P. Galizia, C. Galassi, Multiferroic (Nd,Fe)-doped PbTiO3 Ceramics with Coexistent Ferroelectricity and Magnetism at Room Temperature Ceramics International 45, 7, Part B, 2019, 9390-9396 Available online 14 /08/ 2018
7. P. Galizia, M. Algueró; N. Bernier; N. Gambacorti; E. Aza; A. Lappas; M.I Venet; C. Galassi Magnetoelectric dual-particulate composites with wasp-waisted magnetic response for broadband energy harvesting Journal of Alloys and Compounds , 783, 30, 2019, 237-245.

2018

1. P. Galizia, M. Anbinderis, R. Grigalaitis, J. Banys, G. Maizza, and C. Galassi "Magneto-dielectric characterization of titania-cobalt ferrite in situ ceramic composites" ***Processing and Application of Ceramics*** 12 [4] (2018) 350–356.
2. Cernea, M.; V., Bogdan; Surdu, V. A.; Trusca, R.; Bartha, C.; Craciun, F.; Galassi, C. Probing the dielectric, piezoelectric and magnetic behavior of CoFe2O4/BNT-BT0.08 composite thin film fabricated by sol-gel and spin-coating methods" ***Scientific Reports*** (2018) 8:17883 | DOI:10.1038/s41598-018-36232-3
3. Cernea M., S. V. Bogdan , V. A. Surdu, R. Trusca,C. Bartha, F. Craciun and C. Galassi Electric and magnetic properties of ferromagnetic/piezoelectric bilayered composite ***J Mater Sci*** (2018) 53, (20) :14160-14171, DOI 10.1007/s10853-018-2673-
4. F. Craciun, F. Cordero, B. S. VASILE, V. Fruth, M. Zaharescu, I. Atkinson, R. Trusca, L. DIAMANDESCU, L. C. Tanase, P. Galizia, M. Cernea and C. Galassi, Combined use of Mössbauer spectroscopy, XPS, HRTEM, dielectric and anelastic spectroscopy for estimating incipient phase separation in lead titanate-based multiferroics ***Physical Chemistry Chemical Physics***, 2018, 20, 14652 - 14663 (Phys. Chem. Chem. Phys, hiip://dx.doi.org/10.1039/C8CP01456F
5. M. Cernea, B. S. Vasile, V. A. Surdu, R. Trusca, M. Sima, F. Craciun, C. Galassi, Piezoelectric/ferromagnetic BNT-BT0.08/CoFe2O4 coaxial core–shell composite nanotubes for nanoelectronic devices, ***Journal of Alloys and Compounds*** 752 (2018) 381-388 10.1016/j.jallcom.2018.04.146
6. Cernea M, Vasile B, Ciuch I V, Surdu A, Bartha C, luga A, Galizia P, Galassi C, Synthesis and characterization of novel ferrite–piezoelectric multiferroic core–shell-type nanostructure ***Journal of Materials Science*** 53 (2018) 9650-9661
7. Cernea Marin, Bogdan Stefan Vasile; Vasile Adrian Surdu; Roxana Trusca; Floriana Craciun; Carmen Galassi, Synthesis and characterization of CoFe2O4/BNT-BT0.08 core–shell nanotubes by a template based sol-gel method, ***Ceramics International*** 44, 9, 15 June 2018, 10813-10819. hiips://doi.org/10.1016/j.ceramint.2018.03.123
8. I.V. Ciuchi,, C.C. Chung, C.M. Fancherd,, C. Capiani, J.L. Jones, L. Mitoseriu, C. Galassi, Field induced metastable ferroelectric phase in Pb0.97La0.03(Zr0.90Ti0.10)0.9925O3 ceramics, ***Journal of the European Ceramic Society*** 38, 4 (2018) 1479–1487 (online 06 November 2017) hiips://doi.org/10.1016/j.jeurceramsoc.2017.11.009

2017

1. Francesca Sorgini, Alberto Mazzoni, Luca Massari, Renato Caliò, Carmen Galassi, Sunil L. Kukreja, Edoardo Sinibaldi, Maria Chiara Carrozza, Calogero Maria Oddo Encapsulation of piezoelectric transducers for sensory augmentation and substitution with wearable haptic devices ***Micromachines*** (2017), 8, 270; doi:10.3390/mi8090270

2. Ioana Veronica Ciuchi, C. C. Chung, C. M. Fancher, J. Guerrier, J. S. Forrester, J. L. Jones, L. Mitoseriu, C. Galassi " Field-induced antiferroelectric to ferroelectric transitions in (Pb1 - xLax)(Zr0.90Ti0.10)1 - x/4O3 investigated by in situ X-ray diffraction" ***J Eur Ceram Soc*** 37, 15, (2017), 4631-4636

3. P. Galizia, M. Cernea, V. Mihalache, L. Diamandescu, G. Maizza, C. Galassi Easy batch-scale production of cobalt ferrite nanopowders by two-step milling: structural and magnetic characterization ***Materials and Design*** 130 (2017) 327–335

4. P. Galizia; C. E Ciomaga; L. Mitoseriu; C. Galassi PZT-cobalt ferrite particulate composites: densification and lead losses control by quite-fast sintering ***J Eur Ceram Soc*** 37 (2017) 161–168

5. R Khachaturyan, S Zhukov, J Schultheiß, C Galassi, C Reimuth, J Koruza, H von Seggern and Y A Genenko, Polarization-switching dynamics in bulk ferroelectrics with isometric and oriented anisometric pores ***J. Phys. D: Appl. Phys.*** 50 (2017) 045303 (14pp) doi:10.1088/1361-6463/aa519c

6. 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, 7 (2017) 5767-5773 DOI: 10.1016/j.ceramint.2017.01.123

7. 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" ***J Am Ceram Soc*** 100, 2 (2017), 647-658 DOI: 10.1111/jace.14587

2016

1. F. Cordero, F. Craciun, F. Trequattrini, P. Galizia, and C. Galassi, Elastic aging from coexistence and transformations of ferroelectric and antiferroelectric states in PZT, ***Journal of Applied Physics*** 120, 064104 (2016) DOI: hiip://dx.doi.org/10.1063/1.4960702

2. Craciun, Floriana; Cernea, Marin; Fruth, Victor; Zaharescu, Maria; Atkinson, Irina; Stanica, Nicolae; Tanase, Liviu; Diamandescu, Lucian; Iuga, Alin; Galassi, Carmen Novel Multiferroic (Pb1-3x/2Ndx)(Ti0.98-yFeyMn0.02)O3 Ceramics with Coexisting Ferroelectricity and Ferromagnetism at Ambient Temperature ***Materials and Design*** 110, 15 (2016), 693–704

3. F. Braghin, I. Mehdipour, N. Lecis, C. Galassi Periodic substructure for multi-frequency energy harvesting with single piezoelectric patch **Proc. SPIE 9799**, Active and Passive Smart Structures and Integrated Systems 2016, 97990O (2016); doi:10.1117/12.2219547; hiip://dx.doi.org/10.1117/12.2219547

4. Pietro Galizia, Davide Gardini, Simona Ortelli, Claudio Capiani, Maksimas Anbinderis, Robertas Grigalaitis, Giovanni Maizza, Carmen Galassi "Novel magnetodielectric cobalt ferrite – titania – silica ceramic composites for high frequencies applications" ***Ceramics International*** 42 (2016) 16650–16654.

5. Pietro Galizia, Carlo Baldisserri, Claudio Capiani, Carmen Galassi Multiple parallel twinning overgrowth in nanostructured dense cobalt ferrite ***Materials and Design*** 109 (2016) 19–26.

6. Cordero,F., Craciun,F., Trequattrini,F., Galassi,C .Piezoelectric softening in ferroelectrics: ferroelectric versus antiferroelectric PbZr1-xTixO3 ***Phys. Rev. B*** 93, 174111 (2016)

7. I.V. Ciuchi, L. Mitoseriu and C. Galassi Energy storage properties of PLZT ceramics with La compositions across FE/AFE phase boundary ***J. Am Ceram Soc*** 99 [7] 2382–2387 (2016).

8. N. Horchidan, C. E. Ciomaga, L. Padurariu, R. C Frunza, C. Capiani, C. Galassi, L. Mitoseriu ,A comparative study of hard/soft PZT-based ceramic composites ***Ceramics International*** 42, (7) (2016), 9125-9132 .

9. M. Gromada D. Gardini C. Galassi Processing and characterization of screen printing Ba0.5Sr0.5Co0.8Fe0.2O3-δ inks ***Bulletin of Materials Science*** 559-567(2016) DOI: 10.1007/s12034-016-1175-1

10. P.GALIZIA, C. BALDISSERRI, C. GALASSI, Microstructure development in novel titania-cobalt ferrite ceramic materials ***Ceramics International*** 42 (2016) 2634–2641 (online October 20, 2015)

11. M.CERNEA, F. N. RALUCA, I. V. CIUCHI; C. BALDISSERRI; R.A TRUSCA; C. GALASSI Dielectric characterization of BaxSr1-xFe12O19 (x=0.05-0.35) ceramics ***Ceramics International*** 42 (2016), pp. 1050-1056. DOI: 10.1016/j.ceramint.2015.09.029 (online 22/09/2015)

12. RE STANCULESCU, CE CIOMAGA, N HORCHIDAN, C GALASSI, FM 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 ***Ceramics International*** 42 (1) (2016), 527-536

13. M.CERNEA, P. GALIZIA, I. V. CIUCHI; G. ALDICA, V. MIHALACHE, L. DIAMANDESCU, C. GALASSI, $CoFe_2O_4$ magnetic ceramic derived from gel and densified by spark plasma sintering ***Journal of Alloys and Compounds*** 656 (2016) 854-862.

14. M. CERNEA, R. F. NEGREA, I. V. CIUCHI, C. BALDISSERRI; R. TRUSCA, C. GALASSI Dielectric characterization of $Ba_xSr_{1-x}Fe_{12}O_{19}$ (x=0.05-0.35) ceramics ***Ceramics International*** 42 (2016), pp. 1050-1056. DOI : 10.1016/j.ceramint.2015.09.029 *(online 21/09/2015)*

15. P. GALIZIA; I. V CIUCHI; D. GARDINI; C. BALDISSERRI; C. GALASSI Bilayer film based on composite $CoFe_2O_4/TiO_2$ and niobium-doped PZT by electrophoretic Deposition ***J. Eur. Ceram. Soc.*** 36, (2), 2016, 373–380 SI: Electrophoretic Deposit (Eds A. R. Boccaccini, B. Ferrari, J. Dickerson, C. Galassi Guest Co-Editors Special Issue: "EPD")

2015

1. M.CERNEA; B.VASILE,; I.-V. CIUCHI, ; A.IUGA ; E. ALEXANDRESCU; J.PINTEA; C.GALASSI, , "Synthesis, structural and electrical properties of BNT-BTCe@SiO2 core-shell heterostructure" ***Science of Advanced Materials*** 7, 2297-2305 (2015)
2. 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 (2015) 79–87
3. F. CRACIUN, F. CORDERO, I. V. CIUCHI, L. MITOSERIU, and C. GALASSI, Refining the phase diagram of $Pb_{1-x}La_x(Zr_{0.9}Ti_{0.1})_{1-x/4}O_3$ ceramics by structural, dielectric and anelastic spectroscopy investigations ***Journal of Applied Physics*** 117, 184103 (2015); doi: 10.1063/1.4921111
4. F. CORDERO, F. CRACIUN, F. TREQUATTRINI, C. GALASSI Separate kinetics of the polar and antiferrodistortive order parameters in the antiferroelectric transition of $PbZr_{1-x}Ti_xO_3$ and the influence of defects ***Archives of Metallurgy and Materials*** Vol. 60 2015 Issue 1 DOI: 10.1515/amm-2015-0063
5. L. PARDO, A.GARCÍA, K.BREBØL, E. MERCADELLI and C. GALASSI, Phase transitions in lead-free piezoelectric ceramics monitored by the resonance method, 43rd Annual Symposium of the Ultrasonic Industry Association, UIA Symposium 2014, ***Physics Procedia*** 63 (2015) 61 – 66. ELSEVIER ISSN: 1875-3892
6. I.V. CIUCHI, F. CRACIUN, L. MITOSERIU, C. GALASSI, Preparation and properties of La doped PZT 90/10 ceramics across the ferroelectric-antiferroelectric phase boundary ***Journal of Alloys and Compounds*** 646 (2015) 16–22 (hiip://dx.doi.org/10.1016/j.jallcom.2015.05.119)

2014

1. C. E. CIOMAGA, L. P. CURECHERIU, L. PADURARIU, N. LUPU, I. LISIECKI, S. TASCU, C. GALASSI, L. MITOSERIU Using multi-walled carbon nanotubes in spark plasma sintered Pb(Zr0.47Ti0.53)O3 ceramics for tailoring dielectric and tunability properties ***Journal of Applied Physics*** 116 , 164110 (2014) ; DOI: 10.1063/1.4900527 hiip://dx.doi.org/10.1063/1.4900527
2. F. CORDERO, F. CRACIUN, M. DINESCU, N. SCARISOREANU, C. GALASSI, W. SCHRANZ, V. SOPRUNYUKD Elastic response of (1 − x)Ba(Ti0:8Zr0:2)O3 − x(Ba0:7Ca0:3)TiO3 (x = 0:45 − 0:55) and the role of the intermediate orthorhombic phase in enhancing the piezoelectric coupling ***Applied Physics Letters*** 105, 232904 (2014)
3. L. PARDO, A. GARCÍA , K.BREBØL , E. MERCADELLI and C. GALASSI Characterization of nanostructured phases and peculiar phase transitions in BNBT lead-free piezoceramics ***Advances in Science and Technology*** 90 (2014) 12-18
4. L. E. FUENTES-COBAS, L. PARDO, M. E. MONTERO-CABRERA, J. R. PLAISIER, A. GARCÍA, K. BREBØL, E. MERCADELLI, AND C. GALASSI The 0.96(Bi0.5Na0.5)TiO3 – 0.04BaTiO3 crystal structure: A high-Q, high-counting statistics synchrotron diffraction analysis ***Crystal Research and Technology*** 49, 2–3, 190–194 (2014) / DOI 10.1002/crat.201300433
5. F. CORDERO, F. TREQUATTRINI, F. CRACIUN, C. GALASSI Effects of aging and annealing on the polar and antiferrodistortive components of the antiferroelectric transition in $PbZr_{1-x}Ti_xO_3$ ***Phys. Rev. B*** 89, 21, 214102 (2014)
6. F. CORDERO, F. CRACIUN , F. TREQUATTRINI & C. GALASSI , Effects of coupling between octahedral tilting and polar modes on the phase diagram of the ferroelectric perovskites $PbZr_{1-x}Ti_xO_3$ and $(Na_{1/2}Bi_{1/2})_{1-x}Ba_xTiO_3$, ***Phase Transitions***: Volume 87, Issue 3,(2014) 255-270

2013

1. C. S. OLARIU, L. PADURARIU, R. STANCULESCU, C. BALDISSERI, C. GALASSI, and L. MITOSERIU, Investigation of low field dielectric properties of anisotropic porous Pb(Zr,Ti)O3 ceramics: Experiment and modeling ***Journal of Applied Physics*** 114, 214101 (2013)
2. F. CORDERO, F. CRACIUN, F. TREQUATTRINI, C. GALASSI, P.A. THOMAS, D.S. KEEBLE, and A.M. GLAZER Splitting of the transition to the antiferroelectric state in $PbZr_{0.95}Ti_{0.05}O_3$ into polar and antiferrodistortive components ***Phys. Rev. B*** **88**, 094107 (2013)
3. F. CRACIUN and C. GALASSI Smearing of induced ferroelectric transition and easy imprinting of different polarization configurations in relaxor ferroelectric $(Na_{1/2}Bi_{1/2})_{1-x}Ba_xTiO_3$ ***Appl. Phys. Lett*** *102, 162902 (2013)*
4. M. ALDRIGO, A. COSTANZO, D. MASOTTI,C. BALDISSERRI, I. DUMITRU, AND C. GALASSI Numerical and experimental characterization of a button-shaped miniaturized UHF antenna on magneto-dielectric substrate *International Journal of Microwave and Wireless Technologies* ***(Int J Microw Wirel T)*** *2013, 5(3), 231–239*
5. F. CORDERO, F. TREQUATTRINI, F. CRACIUN and C. GALASSI Merging of the polar and tilt instability lines near the respective morphotropic phase boundaries of $PbZr_{1-x}Ti_xO_3$ ***Phys. Rev. B*** **87**, 094108 (2013)
6. C. E. CIOMAGA, A. M. NEAGU, M. V. POP, M. AIRIMIOAEI, S. TASCU, G. SCHILEO, C. GALASSI, and L. MITOSERIU Ferroelectric and dielectric properties of ferrite-ferroelectric ceramic 2 composites ***J. Appl. Phys.*** 113, Issue: 7 Article Number: 074103 DOI: 10.1063/1.4792494 (2013)
7. M. CERNEA, S.-G. SANDU, C. GALASSI, V. KUNCSER, Magnetic properties of $Ba_xSr_{1-x}Fe_{12}O_{19}$ (x=0.05-0.35) ferrites prepared by different methods ***Journal of Alloys and Compounds*** 561 (2013) 121–128

2012

1. F. CRACIUN, C. GALASSI, and R. BIRJEGA Electric-Field-Induced and Spontaneous Relaxor-Ferroelectric Phase Transitions in $(Na_{½} Bi_{½})_{1-x} Ba_xTiO_3$ ***Journal of Applied Physics*** J. Appl. Phys. 112, 124106 (2012)
2. C. E. CIOMAGA, C. S. OLARIU, L. PADURARIU, A.V. SANDU, C. GALASSI AND L. MITOSERIU, Low field permittivity of ferroelectric-ferrite ceramic composites. Experiment and *Modeling* ***Journal of Applied Physics***, 112, 9, 094103_1-7 (2012)
3. M. ALDRIGO, A. COSTANZO, D. MASOTTI, C. GALASSI Exploitation of a novel magneto-dielectric substrate for miniaturization of wearable UHF antennas, ***Materials Letters*** 87 (2012) 127–130
4. M. DELUCA, C. A. VASILESCU, A. C. IANCULESCU, D. C. BERGER, C. E. CIOMAGA, L. P. CURECHERIU, L. STOLERIU, A. GAJOVIC, L. MITOSERIU, C. GALASSI Investigation of the composition-dependent properties of $BaTi_{1-x}Zr_xO_3$ ceramics prepared by the modified Pechini method ***J. Eur. Ceram. Soc.*** 32 (2012) 3551–3566
5. 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)
6. M. DELUCA, L. STOLERIU, L. P. CURECHERIU, N. HORCHIDAN, A. C. IANCULESCU, C. GALASSI AND L. MITOSERIU, High-field dielectric properties and Raman spectroscopic investigation of the ferroelectric-to-relaxor crossover in $BaSn_xTi_{1-x}O_3$ ceramics ***Journal of Applied Physics*** 111, 084102 (2012) (online 20 April 2012)
7. C. CIOMAGA, M. AIRIMIOAEI; V. NICA; L. HRIB; O. CALTUN; A. IORDAN; C. GALASSI; L. MITOSERIU; M. PALAMARU Preparation and magnetoelectric properties of $NiFe_2O_4$-PZT composites obtained in-situ by gel- combustion method ***J. Eur. Ceram. Soc.*** 32, 3325–3337 (2012)
8. M. CERNEA, C. GALASSI, B. S. VASILE, C. CAPIANI, C. BERBECARU, PINTILIE, I., PINTILIE, L. Structural, dielectric, and piezoelectric properties of BNTBT0.11 ceramic derived from gel precursor ***J. Eur. Ceram. Soc.*** 32 (2012) 2389–2397
9. M. CERNEA, G. POLI, G. V. ALDICA, C. BERBECARU, B. S. VASILE, C. GALASSI, Preparation and properties of nanocrystalline BNT-BT_x piezoelectric ceramics by sol-gel and spark plasma sintering, ***Current Applied Physics*** 12 (2012) 1100-1105
10. M. CERNEA, F. FOCHI, G. V. ALDICA, B. S. VASILE, R. TRUSCA, C. GALASSI, "Spark plasma sintering temperature dependence of structural and *piezoelectric* properties of BNT-$BT_{0.08}$ nanostructured ceramics " ***J. Mater. Sci.*** (2012) 47:3669–3673
11. M. CERNEA, B. S. VASILE, , C. CAPIANI, , A. IONCEA, C. GALASSI Dielectric and piezoelectric behaviours of NBT-BT 0.05 processed by sol–gel method, ***J. Eur. Ceram Soc.*** 32 (2012) 133–139.
12. C. BALDISSERRI, D. GARDINI, C. GALASSI Sharp Silicon/Lead Zirconate Titanate Interfaces by Electrophoretic Deposition on Bare Silicon Wafers and Post-Deposition Sintering ***Sens.& Act. A. Physical*** 174 (2012) 123–132.

Book chapters

- D. GARDINI, C. BALDISSERRI, C. GALASSI The central role of interparticle forces in colloidal processing of ceramics *Chapter 6*, pag. 131-153, *Book title* Colloid and Interface Chemistry for Nanotechnology *Editors* P. Kralchevsky, R. Miller, F. Ravera PCIS (Progress in Colloid and Interface Science) 4, CRC Press Taylor& Francis group (**2013**) (ISBN 978-1-4665-6905-8
- N. D. SCARISOREANU, R. BIRJEGA, A. ANDREI, M. DINESCU, F. CRACIUN AND C. GALASSI, Phase Transitions, Dielectric and Ferroelectric Properties of Lead-Free NBT-BT Thin Films *Chapter 16* (DOI: 10.5772/52395). *Book title* Advances in Ferroelectrics InTech - Open Access 2012, *Edited by* Aimé Peláiz Barranco, ISBN 978-953-51-0885-6, Hard cover, 532 pages, Publisher: InTech, Chapters published November 19, **2012** under CC BY 3.0 license DOI: 10.5772/45744
- C. GALASSI Advances in Processing of Bulk Ferroelectric Materials, *Chapter 1* in "Multifunctional Polycrystalline Ferroelectric Materials: Processing and Properties". Springer Series in Materials Science, Vol. 140 Eds. L. Pardo and J. Ricote. Springer, Londres (UK) ISBN: 978-90-481-2874-7 1st Edition, **2011**, 800 p.
- E. Mercadelli, A. Sanson, C. Galassi "Porous Piezoelectric ceramics" in Piezoelectric ceramics Ed by Ernesto Suaste-Gomez capitolo 6, Pag. 111-128 SCIYO.COM ISBN 978-953-307-122-0, September **2010**

Faenza, May 2, 2019