CURRICULUM VITAE

EUROPEAN FORMAT

PERSONAL INFORMATION

Name, Surname	**Carmen GALASSI**
E-mail	carmen.galassi@polimi.it ; galassi.carmen@libero.it; carmen.galassi@istec.cnr.it
Date of birth	1957/07/21
Nationality	Italian
OrcID	https://orcid.org/0000-0002-7892-2836

WORK EXPERIENCE

Dates (from – to)

16.09.2019- Research fellow at Politecnico di Milano (Milan- Italy), Department of Mechanical Engineering (DMEC)

01.10.2019- Senior Research Associate at National Research Council of Italy (CNR) Institute of Science and Technology for Ceramics (ISTEC)

2010/01/01-2019/08/31 Research Director (I level CNR. Scientific Area ING-IND/22: Materials Science and Technology) at CNR-ISTEC

The main activity is related to research projects coordination and dissemination, with specific reference to ceramic materials development, processing and characterization.
H index 35 (Google Scholar), 30 (SCOPUS), 30 (WoS).

2018/11/05- 2024/11/05 Qualified as Full Professor of Materials Science and Technology in Italian Universities (ASN 09/D1 - SCIENZA E TECNOLOGIA DEI MATERIALI, I fascia).

2016-2019 Head of the Research Project ISTEC «Smart multifunctional ceramic materials : piezoelectrics, ferroelectrics, antiferroelectrics, multiferroics.

Currently, Member of the REPRISE, Register of Expert Peer-Reviewers for Italian Scientific Evaluation (MIUR-Italian Ministry of Education, University and Research) for the Sectors ERC / SSD: PE5_1 - PE5_6 - PE8_8 - PE3_1 - PE5_2 / ING-IND/22 - CHIM/03 (https://reprise.cineca.it/), since 2012/02/02.

2019- Honorary Member of the Advisory Board of the Piezo Institute (https://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 (https://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.

2017-2018 Scientific coordinator of the ISTEC Research Unit ISTEC in the Project E-Cabin, funded by FINCANTIERI; the ISTEC unit developed a energy harvesting device in collaboration with CNR-INSEAN.

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.

2014-2016 Coordinator of the Bilateral project in the frame of the agreement of the ROMANIAN ACADEMY and CNR. Title of the proposal: "Study and Development of Single-Phase Multiferroic Perovskite Ceramic and Thin Films for Multifunctional Devices".

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.

2012-2016 Scientific coordinator of the ISTEC Research Unit within the Flagship project RITMARE : Subproject 1: Tecnologie marittime per lo sviluppo e la realizzazione di un dimostratore navale, WP1:

Sicurezza A1. 3 – Monitoraggio a bordo dello stato delle strutture e del loro livello di degrado SP1, – WP1 – A1.3 – UO10 – Piezoelectric materials and structure monitoring.

2012- 2015 Scientific coordinator of the ISTEC Research Unit of the Project PI The Piezo Institute - European expertise centre for multifunctional and integrated piezoelectric devices FP7-NMP-2011-CSA-5 Coordination and support actions (supporting) Coordinated by CRANFIELD UNIVERSITY. 14 units were members of the project..

2012-2014 Proposer and scientific coordinator of the project ANTENNA «Compositi piezo-magnetici ingegnerizzati per antenne miniaturizzate indossabili » funded by the dal Military National research Plan (PNR-M) 2012-2014.

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

2011-2014 Member of the Steering Committee of the EU project SENERES Sustainable Energy Research and Development Centre Coordination and support actions (Support Action) Call 2011-2014, FP7-REGPOT Coordinated by A. Sławiński, Institute of Power Engineering (IEn) Warsaw.

2010-2014 National representative in the MC of the COST Action *MP0904* SIMUFER: Single- and Multiphase Ferroics and Multiferroics with Restricted Geometries and Leader of the Working group WG3: Ferroic-based composites.

2010 – 2012 Scientific coordinator of the ISTEC Research Unit of the Project ROBOMAN - Robot manipulator for the reduction of decomposed pelvic and femur fractures funded by Regione Piemonte – regional call Sistemi di Produzione 2008 (Co-funded by F.E.S.R. within POR 07-13).

2001-2009 S<u>enior Researcher</u> (CNR-ISTEC)

2005- Head of the Research Project ISTEC "Processes and Materials for Electromechanic Applications"

2009-2011 Scientific coordinator of the ISTEC Research Unit in the LaBiRinSi- Lane Bio Riciclate in Situ Project funded by the Emilia Romagna Region: Call of July 2008 DGR n. 1043/2008. Measure 3.1 A of the PRRIITT L.R. E-R 7/2002 Project n. 218. The project proponent was ERRETIESSE POWER s.r.l.; ISTEC was the research partner.

2008-2010 Scientific coordinator of the ISTEC Research Unit of the EUREKA PROJECT E! 4212 DIPIMAM; Other partners: Hidria Aet D.O.O. Large company, TOLMIN, Slovenia (Proponent / Coordinator) University of Ljubljana / Faculty of

Mechanical Engineering Slovenia (Partner), Jozef Stefan Institute / Computer Systems Department, (Partner)
Purpose of the project: Improve the quality of production of ceramic parts with powder injection molding (PIM) technology in HIDRIA AET, Tolmin.
2001-2017 Head of the Laboratory for the Electrical characterization of ISTEC
Reviewer of the Journals : Journal of the American Ceramic Society, Journal of the European Ceramic Society, Ceramics International etc..
2007-2008 Coordinator of the Research Project funded by Italian CNR (RSTL) "Study of the rheological and colloidal properties of ceramic disperse systems towards the optimization of ceramic products and processes"
2006- 2009 Scientific coordinator of the ISTEC Research Unit in the Collective Research Project ADOPTIC (Additive Optimization for improved ceramics) (EU FP VI)
2008 Expert VII FP: Member of Expert Evaluators Panel for FP7-NMP-2008-SMALL-2
2008- Expert for the Italian MIUR (Ministry for education, University and Research) for National Projects
2005-2012 Founder of Spin-off company IPECC srl (Italian Piezoelectric & Ceramic Company)
2001 - 2003 Scientific coordinator of the ISTEC Research Unit within the Italian Space Agency Program- Fundamental Research 2000; Financing ASI I / R / 099/01 and ASI I / R / 278/02. Project coordinator Prof. F. Davì, Institute of Science and Construction Technology of the Polytechnic University of Marche. Title: Ferroelectric micromotor with variable characteristic.

1984-2001 Researcher
Coordinator of the research group IRTEC-CNR (Institute of Technology Research for Ceramics) / ISTEC
1996 - 2004 Project Coordinator ISTEC "Materials and piezoelectric ceramic components for specific applications"
1998 - 2001 Coordinator of the Research Unit in the project aimed MSTA
1995-97 Coordinator of a network of 11 laboratories in the program Human Capital and Mobility - CHRX contract CT 94-0574.: "Application of fundamental principles of colloid and interface science and rheology to ceramic forming processes".
1988-99 Coordination of Project ISTEC "Colloidal and Rheological Properties of Dispersed Ceramic"
1989 -1993 Teaching of Ceramic Industrial Processes at the Higher Institute for Artistic Industries (ISIA) in Faenza
1984-1989 Teaching of Science and Technology of Materials and Ceramics at the same Institute
1982-1984 Teaching Technology of Ceramics at the Art Institute "G. Ballardini" Faenza 01/09/1981 - 30/09/1982 Head of Chemical Laboratory at the "Raffinerie Almagià" of Ravenna.

During the whole research career Carmen Galassi has tutored 14 theses (« vecchio ordinamento »), 6 theses (Triennali) and 5 PhD theses.

Name and address of employer

Sep 2019- Politecnico di Milano Department of Mechanical Engineering
Campus Bovisa Sud – via La Masa 1, 20156 Milano (ITALY)
(www.mecc.polimi.it/)

Apr 1984- Aug 2019 National Research Council of Italy (CNR)
Institute of Science and Technology for Ceramics (ISTEC)
Via Granarolo, 64, I-48018 Faenza (RA)) ITALY (www.istec.cnr.it)

Type of business or sector

Public Research body: fundamental and applied research.

Occupation or position held	Research fellow at POLIMI and research associate at CNR-ISTEC
Main activities and responsibilities	Planning and Coordination of Research Activity, dissemination and exploitation, editing of scientific texts, project's evaluation.

EDUCATION AND TRAINING

Name and type of organisation providing education and training	1976 -1981 Faculty of Industrial Chemistry Bologna University V.le Del Risorgimento 4, Bologna Website: http://www.fci.unibo.it/Chimica+Industriale/default.htm
Principal subjects occupational skills covered	All the main subjects in chemistry: General chemistry, analytical and quantitative chemistry, inorganic chemistry, organic chemistry, physical chemistry, industrial and applied chemistry, catalysis, chemical laboratory.
Title of qualification awarded	**Laurea** (5- year course, equivalent to Master Degree) in **Industrial Chemistry** taken "summa cum laude" University of Bologna (ITALY).

RESEARCH ACTIVITIES

Research sectors

R&D on piezoelectric ceramic materials, magnetic ceramic materials and relative composites, multifunctional materials from powder synthesis to the whole technological process including densification, electroding and poling; microstructural, morphological and functional characterization. The materials refer mainly to the PZT (Lead titanate zirconate solid solution) system with many compositional modifications, lead free system BNBT (bismuth niobium barium titanate), PMN (lead magnesium niobate) and Co, Ba, Sr ferrites for applications in mechatronics, domotics, antenna miniaturization, energy harvesting.

Ceramic processing: powder treatments, shaping (including additive manufacturing) and densification correlation of the processing parameters with the morphologico-microstructural properties of materials (alumina, zirconia, silicon nitride, hydroxyapatite, mullite, multicomponent oxides).

Chemico-physical characterization of dispersed ceramic systems, with reference to the colloidal properties and rheological characterization to develop basic science (dispersing behavior, adsorption of organic additives, solid-liquid interface reactions) and technological competencies to optimize the dispersions in relation to the different treatments and shaping techniques.

Organisational skills and competences

Consolidated experience in project and team management, conference organization, paper writing, spoken and written reporting, teaching, lecture preparation and presentation, data processing.

Technical skills and competences

Development and characterization of ceramic materials (advanced and traditional): Processing and prototyping of materials and components: synthesis and characterisation of the powders, shaping (Pressing, tape casting, extrusion, ink jet printing), densification of compositions designed to match requirements for specific applications; development of prototypes. Porous materials, functionally graded materials). Synthesis and characterization of nanopowders.

Powder treatments related to shaping techniques; colloid and interphase chemistry and rheology are the main domains of knowledge involved. Colloidal processing and rheological characterisation of powders in water, microstructure and morphology of green and sintered bodies.

Piezoelectric ceramics and piezoelectric properties of materials.

Actually the focus is on study and development of materials and components, piezoelectric (lead based and lead free), magnetic and related multifunctional

composites (multiferroics), from the synthesis of the powders to the whole technological process for the densification of the materials and the relative physico-chemical and functional characterization (powder synthesis with chemical methods, design of composite materials with piezoelectric and magnetic properties). Development of the electrophoretic deposition to produce thick films (for example PZT on silicon).

Computer skills and competences	Consolidated experience in the use of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™) Experience in the online literature survey and collecting.
Publications	Out of 264 papers co-authored, 184 are published in international, refereed journals (the list of published papers from 2014 to 2020 is attached below) .
Presentations	70 lectures, among which 20 invited talks.
Projects	The most important were listed above; several more were managed with private companies.
Memberships	She is member of the "'Ordine Interprovinciale dei Chimici e dei Fisici dell'Emilia-Romagna – Settore Chimica – Sezione A (membership n. A 1990) She is member of the Italian and European Ceramic Societies since 2008 ((ICerS member no. 1450).
Citations	The papers co-authored received more than 3000 citations (Scopus).

Books and Articles from 2014, articles published in JCR journals (full list on https://orcid.org/0000-0002-7892-2836)

2020

1) E. MERCADELLI, C. GALASSI How to make porous piezoelectrics? Review on processing strategies, ***Transactions on IEEE Ultrasonics, Ferroelectrics, and Frequency Control***, Special issue, 2020, (*Accepted*)

2) P. GALIZIA, C. BALDISSERRI, E. MERCADELLI, C. CAPIANI, C. GALASSI, M. ALGUERO A glance at processing-microstructure-property relationships for magnetoelectric particulate PZT-CFO composites ***Materials*** 2020, 13, 2592; (15 pp); DOI:10.3390/ma13112592

3) M. CERNEA, R. RADU, H. AMORIN, S. G. GRECULEASA, B. S. VASILE, V. A. SURDU, P. GANEA, R. TRUSCA, M. HATTAB and C. GALASSI, Lead-Free BNT–$BT_{0.08}$/$CoFe_2O_4$ Core–Shell Nanostructures with Potential Multifunctional Applications**,** ***Nanomaterials***, 10, 672, 2020 (19 pp)**;** DOI:10.3390/nano10040672

4) G. LEONARDI, F. PASSACANTILLI, C. GALASSI, AND D. DESSI Performance Testing of a Piezoelectrc Device for Extracting Energy from Vibrations. ***Lecture Notes in Electrical Engineering 604***. Zamboni, G. Petrone (eds.),ELECTRIMACS 2019, Springer Nature Switzerland AG 2020W, 419-431; DOI:10.1007/978-3-030-37161-6_32

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. F. CORDERO, E. BUIXADERAS AND C. GALASSI, 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.IUGA, P.GALIZIA, C.GALASSI Composite BNT-$BT_{0.08}$/$CoFe_2O_4$ with core-shell nanostructure for piezoelectric and ferromagnetic applications ***Materials Science and Engineering: B***, 240, (2019), 7-15
4. A. 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 TiO_2 nanoparticles ***Journal of the Electrochemical Society***, 166 (5) H3239-H3248 (2019)
5. M. DUMITRU-GRIVEI, V. ION, R. BIRJEGA, A. MOLDOVAN, F. CRACIUN, M. CERNEA, C. GALASSI, M. DINESCU, Multiferroic (Nd,Fe)-doped $PbTiO_3$ thin films obtained by pulsed laser deposition ***Applied Physics A*** (2019) 125:113; DOI:10.1007/s00339-019-2403-5
6. F. CRACIUN, F. CORDERO, M. CERNEA, V. FRUTH, I. ATKINSON, N. STANICA, B. VASILE, R. TRUSCA, A. IUGA, 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
7. P. GALIZIA, M. ALGUERO; N. BERNIER; N. GAMBACORTI; E. AZA; A. LAPPAS; M.L 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 $CoFe_2O_4$/BNT-$BT_{0.08}$ 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, DOI: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, IUGA 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. M. CERNEA , B. S. VASILE; V. A. SURDU; R. TRUSCA; F. CRACIUN; C. 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. DOI: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 DOI:10.1016/j.jeurceramsoc.2017.11.009

2017

1. F. SORGINI, A. MAZZONI, L. MASSARI, R. CALIO, C. GALASSI, S. L. KUKREJA, E. SINIBALDI, M. C. CARROZZA, C. M. ODDO Encapsulation of piezoelectric transducers for sensory augmentation and substitution with wearable haptic devices ***Micromachines*** (2017), 8, 270; DOI:10.3390/mi8090270
2. I.V. 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:10.1063/1.4960702
2. CRACIUN, F.; CERNEA, M.; FRUTH, V.; ZAHARESCU, M.; ATKINSON, I.; STANICA, N.; TANASE, L.; DIAMANDESCU, L.; IUGA, A.; GALASSI, C. 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
4. P. GALIZIA, D. GARDINI, S. ORTELLI, C. CAPIANI, M. ANBINDERIS, R. GRIGALAITIS, G. MAIZZA, C. GALASSI "Novel magnetodielectric cobalt ferrite – titania – silica ceramic composites for high frequencies applications" ***Ceramics International*** 42 (2016) 16650–16654.
5. P. GALIZIA, C. BALDISSERRI, C. CAPIANI, C. 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
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

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