Daniele Pergolesi – List of Publications

(August 2020 - **as corresponding author**)

2020

1. K. K. Ghuman, E. Gilardi, D. Pergolesi, J. A. Kilner, T. Lippert, *Microstructural and Electronic Properties of the YSZ/CeO_2 Interfacea Multiscale Modeling*, (2020) **J. Phys. Chem. C**, 124, 29, 15680–15687

2. S. Luo, A. Fluri, S. Zhang, X. Liu, M. Dobeli, G. F. Harrington, R. Tu, D. Pergolesi, T. Ishihara, T. Lippert, *Thickness-dependent microstructural properties of heteroepitaxial (00.1) $CuFeO_2$ thin films on (00.1) sapphire by pulsed laser deposition*, (2020) **J. Appl. Phys.** 127, 065301

3. T. C. Rossi, D. Grolimund, O. Cannelli, G. F. Mancini, C.a Bacellar, D. Kinschel, J. R. Rouxel, N. Ohannessian, D. Pergolesi, M. Chergui, *X-ray absorption linear dichroism at the Ti K-edge of rutile TiO_2 (001) single crystal*, (2020) **Journal of Synchrotron Radiation**, 27, 425–435

4. L. Kahle, X. Cheng, T. Binninger, S. D. Lacey, A. Marcolongo, F. Zipoli, M. El Kazzi, E. Gilardi, N. Marzari, **D. Pergolesi**, *Li_7TaO_6 a novel solid-state Li-ion conductor characterized by simulation and experiment*, (2020) **Solid State Ionics**, 347, 115226

5. E. W. Burns, **D. Pergolesi**, T. J. Schmidt, T. Lippert, V. Daramalla. *$TiNb_2O_7$: as a model wide-bandgap photoanode material for light-assisted solar water splitting*, (2020) **Chemistry - A European Journal**, 26, 7065 – 7073

6. C. Lawley, M. Nachtegaal, J. Stahn, V. Roddatis, M. Döbeli, T. J. Schmidt, **D. Pergolesi**, T. Lippert, Examining the surface evolution of $LaTiO_xN_y$ an oxynitride solar water splitting photocatalyst, (2020) **Nature Communications**, 11:1728

7. D. P. Linklater, F. Haydous, X. Cheng, D. Pergolesi, J. Hu, E. P. Ivanova, S. Juodkazis, T. Lippert, J. Juodkazyte, *Black-Si as a Photoelectrode*, (2020) **Nanomaterials**, 10, 873

8. L. Mazzei, D. Rukser, F. Biebl, B. Grimm-Lebsanft, D. Pergolesi, L. Börjesson, M. A. Rübhausen, J. Andreasson, M. Karlsson, *Phonon spectra of pure and acceptor doped $BaZrO_3$ investigated with visible and UV Raman spectroscopy*, (2020) **Journal of Physics: Condensed Matter**, 23, 405403

9. L. Wang, W. Si, Y. Tong, F. Hou, D. Pergolesi, J. Hou, T. Lippert, S. X. Dou, J. Liang, *Graphitic carbon nitride (g-C_3N_4)-based nanosized heteroarrays: Promising materials for photoelectrochemical water splitting*, (2020) **Carbon Energy**,1–28

10. A. Boucly, E. Fabbri, L. Artiglia, X. Cheng, D. Pergolesi, M. Ammann, T. J. Schmidt, *Surface segregation acts as surface engineering for the oxygen evolution reaction on perovskite oxides in alkaline media*, (2020) **Chemistry of Materials**, 32, 5256−5263

11. E. Gilardi, G. Materzanini, L. Khale, M. Döbeli, X. Cheng, N. Marziari, D. Pergolesi, A. Hintennach, T. Lippert, *$Li_{4-x}Ge_{1-x}P_xO_4$ a potential solid-state electrolyte for all-oxide microbatteries*, (2020) **ACS Appl. Energy Mater.**, just accepted

2019

12. F. Haydous, M. Döbeli, W. Si, F. Waag, F. Li, E. Pomjakushina, A. Wokaun, B. Gökce, **D. Pergolesi**, T. Lippert, *Solar Water Splitting Oxynitride Thin Films versus Particle-Based Photoanodes: A Comparative Study for Photoelectrochemical Solar Water Splitting*, (2019) **ACS Appl. Energy Mater.**, 2, 754−763

13. W. Si, F. Haydous, U. Babic, D. Pergolesi, T. Lippert, *Suppressed charge recombination in hematite photoanode via protonation and annealing*, (2019) **ACS Appl. Energy Mater.**, 2, 5438−5445

14. Y. Shi, A. Fluri, I. Garbayo, J.J. Schwiedrzik, J. Michler, D. Pergolesi, T. Lippert, J.L.M. Rupp, *Zigzag or Spiral-shaped Nanostructures Improve Mechanical Stability in Yttria-Stabilized Zirconia Membranes for Micro-Energy Conversion Devices*, (2019) **Nano Energy**, 59, 674-682

15. E. Gilardi, A. Fluri, T. Lippert, **D. Pergolesi**, *Real-time monitoring of stress evolution during thin film growth by in situ substrate curvature measurement*, (2019) **J. Appl. Phys.**, 125(8), 082513

16. F. Haydous, W. Si, V. A. Guzenko, F. Waag, E. Pomjakushina, M. El Kazzi, L. Severy, A. Wokaun, **D. Pergolesi**, T. Lippert, *Improved photoelectrochemical water Splitting of $CaNbO_2N$ photoanodes by CoPi photodeposition and surface passivation*, (2019) **J. Phys. Chem. C**, 123, 1059−1068

17. W. Si, Z. Pourmand Tehrani, F. Haydous, N. Marzari, I. E. Castelli, **D. Pergolesi**, T. Lippert, *Yttrium Tantalum Oxynitride Multiphases as Photoanodes for Water Oxidation*, (2019) **J. Phys. Chem. C**, 123, 43, 26211-2621

18. **E. Fabbri**, **D. Pergolesi**, **D. Ferri**, *Energy conversion processes with perovskite-type materials*, (2019) **Chimia**, 73, 913 – 921

19. T. C. Rossi, D. Grolimund, M. Nachtegaal, O. Cannelli, G. Mancini, C. Bacellar, D. Kinschel, J. Rouxel, N. Ohannessian, D. Pergolesi, T. Lippert, M. Chergui, *X-ray Absorption Linear Dichroism at the Ti K-edge of TiO_2 anatase single crystal*, (2019) **Phys. Rev. B**, 100, 245207

2018

20. A. Fluri, **D. Pergolesi**, A. Wokaun, T. Lippert, *Stress evolution in oxide epitaxy*. (2018) **Phys. Rev. B**, 97, 125412

21. **D. Pergolesi**, E. Gilardi, E. Fabbri, V. Roddatis, G. Harrington, T. Lippert, John A. Kilner, E. Traversa, *Interface effect on the ionic conductivity of doped ceria – yttria-stabilized zirconia heterostructure (2018)* **ACS Appl. Mater. Interfaces** 10, 16, 14160-14169

22. A. Fluri, C. W. Schneider, **D. Pergolesi**, *In situ Strain Measurement of Metal Oxide Thin Films*. To be published in 2017 in "Metal Oxide-based Thin Film Structures: Formation, Characterization and Application of Interface-based Phenomena", *Elsevier Science & Technology Books, Metal Oxides Series.*

23. *Photon-assisted synthesis and processing of materials in nano-microscale*, edited by D. Pergolesi, D. Grojo, E. Rebollar, M. Dinescu, **Appl. Surf. Sci.** Conference Proceedings Symposium X European Materials Research Society, Strasbourg June 2018

2017

24. A. Fluri, A. Marcolongo, V. Roddatis, A. Wokaun, **D. Pergolesi**, N. Marzari, T. Lippert, *Enhanced Proton Conductivity in Y doped $BaZrO_3$ via Strain Engineering*, (2017) **Advanced Science**, 4, 1700467

25. A. Fluri, E. Gilardi, M. Karlsson, V. Roddatis, M. Bettinelli, I. E. Castelli, T. Lippert, **D. Pergolesi**, *Anisotropic proton and oxygen ion conductivity in epitaxial $Ba_2In_2O_5$ thin films.* (2017) **J. Phys. Chem. C**, 121(40), 21797-21805

26. W. Si, D. Pergolesi, F. Haydous, A. Fluri, A. Wokaun, T. Lippert, *Investigating the behavior of various cocatalysts on $LaTaON_2$ photoanode for visible light water splitting*, (2017) **Phys. Chem. Chem. Phys.**, 19(1), 656-662

27. E. Gilardi, E. Fabbri, L. Bi, J.L.M. Rupp, T. Lippert, **D. Pergolesi**, E. Traversa, *Effect of dopant-host ionic radii mismatch on acceptor doped barium zirconate microstructure and proton conductivity*, (2017) **J. Phys. Chem. C**, 121, 9739−9747

28. M. Pichler, J. Szlachetko, I. E. Castelli, N. Marzari, M. Döbeli, S. Ninova, U. Aschauer, A. Wokaun, **D. Pergolesi**, T. Lippert, *Determination of conduction and valence band electronic structure of $LaTiO_XN_Y$ thin film*, (2017) **ChemSusChem**, 10, 2099-2106

29. M. Pichler, W. Si, F. Haydous, H. Téllez, J. Druce, E. Fabbri, M. El Kazzi, M. Döbeli, S. Ninova, U. Aschauer, A. Wokaun, **D. Pergolesi**, T. Lippert, *Oxynitride thin films as model systems for photocatalysis*, Invited Feature Article, (2017) **Advanced Functional Materials**, 27, 1605690

2016

30. A. Fluri, **D. Pergolesi**, V. Roddatis, A. Wokaun, T. Lippert, *In situ stress observation in oxide films and how tensile stress influences oxygen ion conduction*, (2016) **Nature Communications**, 7:10692

31. S. E. Temmel, E. Fabbri, D. Pergolesi, T. Lippert, T. J. Schmidt, *Investigating the Role of Strain toward the Oxygen Reduction Activity on Model Thin Film Pt Catalysts*, (2016) **ACS Catalysis**, 6, 7566−7576

32. S. E. Temmel, E. Fabbri, D. Pergolesi, T. Lippert, T. J. Schmidt, *Tuning the Surface Electrochemistry by Strained Epitaxial Pt Thin Film Model Electrodes Prepared by Pulsed Laser Deposition*, (2016) **Adv. Mater. Interfaces**, 1600222-32

33. L. Mazzei, M. Wolff, D. Pergolesi, J. A. Dura, L. Börjesson, P. Gutfreund, M. Bettinelli, T. Lippert, M. Karlsson, *Structure and Conductivity of Epitaxial Thin Films of In-Doped $BaZrO_3$- Based Proton Conductors*, (2016) **J. Phys. Chem. C**, 120, 28415−28422

34. M. Pichler, D. Pergolesi, S. Landsmann, V. Chawla, J. Michler, M. Döbeli, A. Wokaun, T. Lippert, *TiN- buffered substrates for photoelectrochemical measurements ofoxynitride thin films*, (2016) **Appl. Surf. Sci.**, 369, 67-75

2015

35. J. Chen, D. Stender, M. Pichler, M. Döbeli, D. Pergolesi, C. W. Schneider, A. Wokaun, T. Lippert, *Tracing the plasma interactions for pulsed reactive crossed-beam laser ablation*, (2015) **J. Appl. Phys.**, 118, 165306-6

36. F. Aguesse, V. Roddatis, J. Roqueta, P. García, D. Pergolesi, J. Santiso, J. A. Kilner, *Microstructure and ionic conductivity of LLTO thin films: influence of different substrates and excess lithium in the target*, (2015) **Solid State Ionics**, 272, 1-8

37. **D. Pergolesi**, V. Roddatis, E. Fabbri, T. Lippert, E. Traversa, J. A. Kilner, *Probing the bulk ionic conductivity by thin film hetero-epitaxial engineering.* (2015) **Sci. Technol. Adv. Mater.**, 16(1) 015001

38. N. H. Perry, D. Pergolesi, S. R. Bishop, H. L. Tuller, *Defect chemistry and surface oxygen exchange kinetics of La-doped Sr(Ti,Fe)$O_{3-\alpha}$ in oxygen-rich atmospheres*, (2015) **Solid State Ionics**, 273, 18-24

2014 – 2000

39. E. Fabbri, A. Magrasó, **D. Pergolesi**, *Low temperature solid oxide fuel cells based on proton conducting electrolytes*, (2014) **MRS Bulletin**, 39(09), 792-797 (invited)

40. J. Szlachetko, M. Pichler, D. Pergolesi, J. Sa, T. Lippert, *Determination of conduction and valence band electronic structure of $La_2Ti_2O_7$ thin film*, (2014) **RCS Advances**, 4, 11420–11422

41. N. H. Perry, D. Pergolesi, K. Sasaki, S. R. Bishop, H. L Tuller, *Influence of Donor Doping on Cathode Performance:(La, Sr)(Ti, Fe) $O_{3-\delta}$ Case Study, (2013)* **ECS Transactions** 57(1), 1719-1723

42. **D. Pergolesi**, M. Fronzi, E. Fabbri, A. Tebano, E. Traversa, *Growth mechanisms of ceria- and zirconia- based epitaxial thin films and hetero-structures grown by pulsed laser deposition*, (2013) **Mater. Renew. Sustain. Energy**, 2(6)

43. D. Pergolesi, E. Fabbri, S. Cook, V. Roddatis, E. Traversa, J. A. Kilner, *Tensile Lattice Distortion Does Not Affect Oxygen Transport in Yttria-Stabilized Zirconia-CeO_2 Heterointerfaces.* (2012) **ACS Nano**, 6(12), 10524-10534

44. A. Tebano, E. Fabbri, D. Pergolesi, G. Balestrino, E. Traversa, *Room Temperature Giant Persistent Photoconductivity in $SrTiO_3$/$LaAlO3$ Heterostructures.* (2012) **ACS Nano**, 6(2), 1278-1283

45. E. Fabbri, L. Bi, D. Pergolesi, E. Traversa, *Towards the next generation of solid oxide fuel cells operating below 600° C with chemically stable proton conducting electrolytes*, (2012) **Advanced Materials,** 24 (2), 195-208

46. J.L.M. Rupp, P. Reinhard, D. Pergolesi, T. Ryll, R. Tölke, E. Traversa, *Electric-field-induced current- voltage characteristics in electronic conducting perovskite thin films*, (2012) **Appl. Phys. Lett.**, (100) 1, 012101.

47. E. Fabbri, L. Bi, D. Pergolesi, E. Traversa, *High performance composite cathode with tailored mixed conductivity for intermediate temperature solid oxide fuel cells using proton conducting electrolytes*, (2011) **Energy and Environmental Science**, 4 (12), 4984-4993

48. E. Fabbri, L. Bi, H. Tanaka, D. Pergolesi, E. Traversa, *Chemically stable Pr and Y Co-doped barium zirconate electrolytes with high proton conductivity for intermediate-temperature solid oxide fuel cells*, (2011) **Advanced Functional Materials**, 21 (1), 158-166.

49. E. Fabbri, L. Bi, J.L.M. Rupp, D. Pergolesi, E. Traversa, *Electrode tailoring improves the intermediate temperature performance of solid oxide fuel cells based on a Y and Pr co-doped barium zirconate proton conducting electrolyte*, (2011) **RSC Advances**, 1 (7), 1183-1186.

50. E. Fabbri, I. Markus, D. Pergolesi, E. Traversa, *Tailoring mixed proton-electronic conductivity of $BaZrO_3$ by Y and Pr co-doping for cathode application in protonic SOFCs*, (2011) **Solid State Ionics,** 202 (1), 30-35.

51. E. Fabbri, D. Pergolesi, E. Traversa, "*Development of chemically-stable proton conducting BZY electrolytes for SOFC at WPI-MANA, NIMS"*, **Journal of fuel Cell Technology**, 10 (2011) 30-34.

52. D. Schaeffer, et al. *The MARE project: A new ^{187}Re neutrino mass experiment with sub eV sensitivity.* (2011) **Nuclear Physics B** - Proceedings Supplements 221, 394.

53. D. Pergolesi, A. Tebano, E. Fabbri, S. Licoccia, G. Balestrino, E. Traversa, *Pulsed laser deposition of superlettices based on ceria and zirconia*. (2011) **ECS Transaction**, 35 (1) 1125-1130.

54. E. Fabbri, I. Markus, L. Bi, D. Pergolesi, E. Traversa, *Exploring mixed protonic/electronic conducting oxides as cathode materials for intermediate temperature SOFCs based on proton conducting electrolytes.* (2011) **ECS Transaction** 35 (1) 2305-2311.

55. E. Fabbri, D. Pergolesi, E. Traversa, *Materials challenges toward proton-conducting oxide fuel cells: A critical review*, (2010) **Chemical Society Reviews**, 39 (11), 4355-4369.

56. D. Pergolesi, E. Fabbri, A. D'Epifanio, E. Di Bartolomeo, A. Tebano, S. Sanna, S. Licoccia, G. Balestrino, E. Traversa, *High proton conduction in grain-boundary-free yttrium-doped barium zirconate films grown by pulsed laser deposition*. (2010) **Nature Materials**, 9 (10), 846-852.

57. **D. Pergolesi**, E. Fabbri, E. Traversa, *Chemically stable anode-supported solid oxide fuel cells based on Y-doped barium zirconate thin films having improved performance*. (2010) **Electrochemistry Communications,** 12 (7), 977-980.

58. E. Fabbri, D. Pergolesi, E. Traversa, *Ionic conductivity in oxide heterostructures: The role of interfaces*, (2010) **Sci. Technol. Adv. Mater.**, 11 (5), 054503-054512

59. E. Fabbri, D. Pergolesi, E. Traversa, *Electrode materials: A challenge for the exploitation of protonic solid oxide fuel cells*. (2010) **Sci. Technol. Adv. Mater.**, 11 (4) 044301-044310

60. E. Fabbri, D. Pergolesi, S. Licoccia, E. Traversa, *Does the increase in Y-dopant concentration improves the proton conductivity of $BaZr_{1-x}Y_xO_{3-\delta}$ fuel cell electrolytes?* (2010) **Solid State Ionics**, 181 (21-22), 1043-1051.

61. J.S. Ahn, M.A. Camaratta, D. Pergolesi, K.T. Lee, H. Yoon, D.W. Jung, E. Traversa, E.D., Wachsman, *Development of high performance ceria/bismuth oxide bilayered electrolyte SOFCs for lower temperature operation*. (2010) **Journal of the Electrochemical Society**, 157 (3), B376-382.

62. E. Fabbri, D. Pergolesi, A. D'Epifanio, E. Di Bartolomeo, G. Balestrino, S. Licoccia, E. Traversa, *Improving the performance of high temperature protonic conductor (HTPC) electrolytes for solid oxide fuel cell (SOFC) applications*. (2010) **Key Engineering Materials**, 421-422, 336-339.

63. S. Sanna, V. Esposito, D. Pergolesi, A. Orsini, A. Tebano, S. Licoccia, G. Balestrino, E. Traversa, *Fabrication and electrochemical properties of epitaxial samarium-doped ceria films on SrTiO3-buffered MgO substrates*. (2009) **Advanced Functional Materials**, 19 (11), 1713-1719.

64. J.S. Ahn, D. Pergolesi, M.A. Camaratta, J. Yoon, B.W. Lee, K.T. Lee, D.W. Jung, E. Traversa, E.D. Wachsman, *High-performance bilayered electrolyte intermediate temperature solid oxide fuel cells*. (2009) **Electrochemistry Communications**, 11 (7), 1504-1507.

65. E. Fabbri, D. Pergolesi, S. Licoccia, E. Traversa, E., *Exploring highly yttrium doped barium zirconate proton conductor electrolytes for application in intermediate temperature solid oxide fuel cells (IT- SOFCs)*, (2009) **ECS Transactions**, 25 (2 PART 2), 1745-1752.

66. E. Fabbri, D. Pergolesi, A. D'Epifanio, E. Di Bartolomeo, G. Balestrino, S. Licoccia, E. Traversa, *Design and fabrication of a chemically-stable proton conductor bilayer electrolyte for intermediate temperature solid oxide fuel cells (IT-SOFCs)*. (2008) **Energy and Environmental Science**, 1 (3), 355- 359.

67. L Ferrari, F. Gatti, D. Pergolesi, M. Gomes, D. Bagliani, R. Valle, S. Dussoni, L. Piro, L. Colasanti, C. Macculi, C., Barbera, M., Perinati, E., *Study of microcalorimeters for astrophysics applications*. (2008) **Journal of Low Temperature Physics**, 151 (1-2 PART 1), 271-276.

68. **D. Pergolesi**, V. Esposito, A. Tebano, P.G. Medaglia, S. Sanna, S. Licoccia, G. Balestrino, E. Traversa, *Ceria-based thin film hetero-structure growth and characterization for SOFC applications*. (2007) **ECS Transactions**, 7 (1 PART 1), 891-898.

69. E. Andreotti, et al., *MARE, Microcalorimeter Arrays for a Rhenium Experiment: A detector overview*. (2007) **Nuclear Instruments and Methods in Physics Research A**, 572 (1), 208-210.

70. L. Ferrari, S. Dussoni, F. Gatti, D. Pergolesi, M. Gomes, R. Valle, L. Piro, L. Colasanti, M.F. Toniolo, G. Torrioli, P. Bastia, *Development of TES microcalorimeters for future X-ray missions*, (2006) **Proceedings of SPIE**, 6266 II, art. no.62662M.

71. D. Pergolesi, L. Gastaldo, F. Gatti, M. Ribeiro Gomes, P. Repetto, S. Dussoni, R. Valle, *MANU-2: A second generation experiment for calorimetric neutrino mass determination with superconducting Re*, (2006) **Nuclear Instruments and Methods in Physics Research A**, 559 (2), 349-351.

72. F. Gatti, L. Piro, D. Pergolesi, L. Colasanti, L. Gastaldo, M. Gomes, P. Repetto, *TES microcalorimeter development for future Italian X-ray astronomy missions*, (2006) **Nuclear Instruments and Methods in Physics Research A**, 559 (2), 605-607.

73. L. Gastaldo, G. Gallinaro, F. Gatti, D. Pergolesi, M. Gomes, P. Repetto, S. Dussoni, R. Valle, P. Manfrinetti, A. Chincarini, *Study of the δ-Al/Ag superconducting alloy for TES applications*, (2006) **Nuclear Instruments and Methods in Physics Research A**, 559 (2), 465-467.

74. A. Monfardini, et al., *The microcalorimeter arrays for a rhenium experiment (MARE): A next-generation calorimetric neutrino mass experiment*, (2006) **Nuclear Instruments and Methods in Physics Research A**, 559 (2), 346-348.

75. G. Gatti, G. Gallinaro, D. Pergolesi, L. Gastaldo, S. Dussoni, R.Valle, *A second generation experiment for direct neutrino mass measurement via ^{187}Re β-decay*, (2005) **Nuclear Physics B** - Proceedings Supplements, 143 (1-3 SPEC. ISS.), 541.

76. C. Maurizio, D. Pergolesi, F. Gatti, F. D'Acapito, M. Razeti, A. Balerna, S. Mobilio, *Application of a TES micro-calorimeter as high-energy resolution detector for hard X-rays at a synchrotron beam line*, (2004) **Nuclear Instruments and Methods in Physics Research A**, 520 (1-3), 610-612.

77. L. Piro, et al., *X-ray survey with microcalorimeters: From GRB in the far universe to diffuse emission in our Galaxy*, (2004) **Nuclear Instruments and Methods in Physics Research A**, 520 (1-3), 376-378.

78. L Gastaldo, P. Manfrinetti, F. Gatti, G. Gallinaro, D. Pergolesi, M. Gomes, M. Razeti, S. Dussoni, P. Repetto, R. Valle, *Superconducting absorber for ^{163}Ho electron capture decay measurement*, (2004) **Nuclear Instruments and Methods in Physics Research A**, 520 (1-3), 224-226.

79. **D. Pergolesi**, F. Gatti, L. Gastaldo, M. Gomes, S. Dussoni, R. Valle, P. Repetto, D. Marré, E. Bellingeri, *Development of iridium TES by pulsed laser deposition with a Nd:YAG laser* (2004) **Nuclear Instruments and Methods in Physics Research A**, 520 (1-3), 311-313.

80. P. Repetto, S. Dussoni, F. Gatti, D. Pergolesi, L. Gastaldo, R. Valle, M. Gomes, *Fabrication of field effect transistor based on carbon nanotubes*, (2004) **Nuclear Instruments and Methods in Physics Research A**, 520 (1-3), 599-601.

81. F. Gatti, D. Pergolesi, M. Razeti, F. d'Acapito, C. Maurizio, A. Balerna, S. Mobilio, (2003) *Using superconducting Transition Edge Sensor microcalorimeters as high-energy resolution detectors for hard X-rays*, **Syncrotron Radiation News**, 16(4), 46.

82. L. Colasanti, et al., *High resolution spectroscopy of the X-ray emission of Gamma Ray Bursts by IMBOSS on the ISS*, GAMMA-RAY BURST AND AFTERGLOW ASTRONOMY *Book Series:* **AIP Conf. Proc.** (2003) 605, 551-554.

83. D. Pergolesi, F. Gatti, M. Razeti, F. D'Acapito, S. Mobilio, F. Gonella, and C. Maurizio, *Comparison between BEFS and EXAFS analysis for microcrystalline study of rhenium metal, LOW TEMPERATURE DETECTORS Book Series:* **AIP Conf. Proc.** (2002) 605, pp. 367-370.

84. M. Razeti, F. Gatti, D. Pergolesi, *Development of rhenium microcalorimeter for neutrino mass measurements with sensitivity in the sub-eV range, LOW TEMPERATURE DETECTORS Book Series:* **AIP Conf. Proc.** (2002) 605, 457-460.

85. L. Piro, et al., *High resolution spectroscopy of the X-ray emission of GRBs by IMXS-BOSS on the ISS, LOW TEMPERATURE DETECTORS Book Series:* **AIP Conf. Proc.** (2002) 605, 551-554.

86. W. Seidel, et al., *The CRESST Dark Matter Search*, (2000) **Physics of Atomic Nuclei**, 63 (7), 1242- 1248.

87. M. Sisti, et al., *CRESST dark matter experiment: Status and perspectives* (2000) **Nuclear Instruments and Methods in Physics Research A**, 444 (1), 312-314.

88. M. Bravin, t al., *Simultaneous measurement of phonons and scintillation light for active background rejection in the CRESST experiment*. (2000) **Nuclear Instruments and Methods in Physics Research A**, 444 (1), 323-326.