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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; ADVANCES IN ELECTROCERAMICS; Pyroelectric Performances of Relaxor-Based Ferroelectric Single Crystals and their Applications in Infrared Detectors; ABSTRACT; INTRODUCTION; EXPERIMENTS AND RESULTS; (1) Growth and Properties of Single Crystals; (2) Physical Model and Performance Simulation of Devices; (3) Detector Design and Measurement; CONCLUSION; ACKNOWLEDGMENTS; FOOTNOTES; REFERENCES; Formation of Tough Foundation Layer for Electrical Plating on Insulator using Aerosol Deposition Method of Cu-Al ₂ O ₃ Mixed Powder; ABSTRACT; INTRODUCTION EXPERIMENTAL SETUPRESULTS AND DISCUSSIONS; CONCLUSION; REFERENCES; Formation and Electromagnetic Properties of 0.1 BTO/0. 9NZFO Ceramic Composite with High Density Prepared by Three-Step Sintering Method; ABSTRACT; INTRODUCTION; EXPERIMENTAL; RESULTS AND DISCUSSION; CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; MICROWAVE MATERIALS AND THEIR APPLICATIONS; Thin Glass Characterization in the Radio Frequency Range; ABSTRACT; INTRODUCTION; GLASS CHARACTERIZATION BY RESONATOR METHODS; By split cylinder resonator; By open resonator; GLASS

CHARACTERIZATION BY WAVEGUIDE METHODS; DISCUSSION OF RESULTS

CONCLUSIONREFERENCES; Formation of Silver Nano Particles in Percolative Ag-PbTiO₃ Composite Dielectric Thin Film; ABSTRACT; INTRODUCTION; EXPERIMENTAL; RESULTS; DISCUSSION; CONCLUSIONS; ACKNOWLEDGEMENT; REFERENCES; Software for Calculating Permittivity of Resonators: HakCol & ErCalc; ABSTRACT; INTRODUCTION; Resonators in free space; Parallel-plate dielectric-post method; Shielded resonator in dielectric-rod waveguide; CALCULATIONS; Shielded resonator in dielectric-rod waveguide (ErCalc); CONCLUSION; REFERENCES

III) Temperature coefficient of resonant frequency (TCf)SUMMARY; ACKNOWLEDGEMENTS; REFERENCES; OXIDE MATERIALS FOR NONVOLATILE MEMORY TECHNOLOGY AND APPLICATIONS; Stable Resistive Switching Characteristics of Al₂O₃ Layers Inserted in HfO₂ Based RRAM Devices; ABSTRACT; INTRODUCTION; EXPERIMENTS; RESULTS AND DISCUSSION; CONCLUSION; REFERENCES; Improvement of Resistive Switching Properties of Ti/ZrO₂/Pt with Embedded Germanium; ABSTRACT; INTRODUCTION; DEVICE FABRICATION; THE FORMING AND THE SET/RESET VOLTAGE COMPARISON; SWITCHING PERFORMANCE AND RELIABILITY TEST CURVE FITTING DURING SET/RESET PROCESS

Sommario/riassunto

Contains a collection of papers from the below symposia held during the 10th Pacific Rim Conference on Ceramic and Glass Technology (PacRim10), June 2-7,2013, in Coronado, California 2012: Advances in Electroceramics Microwave Materials and Their Applications Oxide Materials for Nonvolatile Memory Technology and Applications