

# ***Cristian PANTEA***

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Materials Physics & Applications, MPA-11  
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## ***EMPLOYMENT / EDUCATION***

- Aug 2007-present ***Research Scientist***, MPA-11,  
Materials Physics and Applications  
Los Alamos National Laboratory  
Los Alamos, NM 87545
- Dec 2004-Aug 2007 ***Postdoctoral Research Associate***  
MPA-11, MST-NHMFL, LANSCE-12  
Los Alamos National Laboratory  
Los Alamos, NM 87545
- Jan 2003-Dec 2004 ***Graduate Research Assistant***  
MST-NHMFL, LANSCE-12  
Los Alamos National Laboratory  
Los Alamos, NM 87545
- Jan 2000-Dec 2004 Texas Christian University  
Department of Physics and Astronomy  
Fort Worth, TX 76129  
***PhD - Chemical Physics***  
*Thesis: "Kinetics of diamond-silicon reaction under  
high pressure-high temperature conditions"*  
Supervisor: Dr. T. Waldek Zerda
- Aug 12-25, 2001 2<sup>nd</sup> National School on Neutron and X-ray Scattering  
Argonne National Laboratory, IL
- Apr 1996-Jan 2000 ***Graduate Research Assistant***, Electrochemical Sensors Department,  
Institute of Chemistry "Raluca Ripan",  
Fintinele St.30, 3400 Cluj-Napoca, Romania
- 1995-1996 "Babes-Bolyai" University, Department of Physics  
M. Kogalniceanu St.1, 3400 Cluj-Napoca, Romania  
***MSc - Physics of Oxide Materials***  
*Thesis: "Qualitative study of the structure of  $x\text{CuO} \cdot (1-x)[3\text{B}_2\text{O}_3 \cdot \text{K}_2\text{O}]$   
glasses"*
- 1990-1995 "Babes-Bolyai" University, Department of Physics  
M. Kogalniceanu St.1, 3400 Cluj-Napoca, Romania  
***BSc - Physics Engineering***  
*Thesis: "EPROM encrypter with access time determination"*

## ***RESEARCH INTERESTS***

- Ultrasonic pulse-echo methods, ultrasonic interferometry
- Non-linear acoustic methods
- Swept-Frequency Acoustic Interferometry (SFAI)
- Resonant Ultrasound Spectroscopy (RUS)
- High Pressure-High Temperature: cylinder-piston, toroidal cell, multi-anvil cell (DIA and T-cup), diamond anvil cell.
- Synchrotron x-ray scattering
- Neutron scattering
- X-ray diffraction: powder diffraction, single crystal diffraction.
- Raman spectroscopy and imaging, SEM, TEM.
- Programming, signal control and data processing software development (VisualBasic, LabView).

## ***PROFESSIONAL ACTIVITIES***

- ***Professional Membership:***
  - IEEE Ultrasonics, Ferroelectrics, and Frequency Control
  - Acoustical Society of America
  - American Physical Society
  - Neutron Scattering Society of America
- ***Referee for:***
  - Physical Review B
  - Physical Review Letters
  - Applied Physics Letters
  - Diamond and Related Materials
  - Journal of the Acoustical Society of America
  - and some others*
- ***co-Organizer and co-Chair for:***
  - Physical Acoustics: Acoustical Methods and Sensors for Challenging Environments
  - 167th Meeting of the Acoustical Society of America, Providence, RI, May 6-9 2014
- ***co-Organizer and co-Chair for:***
  - Physical Acoustics: Physical Acoustics of Extreme Environments, Condensed Matter, and More
  - 162nd Meeting of the Acoustical Society of America, San Diego, California, 31 Oct-4 Nov 2011
- ***co-Chair for:***
  - Physical Acoustics: Sound Speeds, Phonons, and Thermodynamics of Condensed Matter
  - 152nd Meeting (4<sup>th</sup> joint meeting of the Acoustical Society of America and the Acoustical Society of Japan), Honolulu, Hawaii, 28 Nov-2 Dec 2006
- ***citations:***
  - 1813 citations, h-index: 26 (Google Scholar, 18 Dec 2019)