

**Nikoloz Chikhradze, Professor**

SHORT PROFESSIONAL INFO



- Director of Mining Institute of Georgia; Full Professor of Georgian Technical University, Faculty of Informatics and Managing Systems, Department of Engineering Physics;
- PH.D; Member of Georgian Engineering Academy;
- Manager and Scientific Leader of 18 International Scientific Projects funded by NATO, CRDF (US Civilian Research and Development Foundation), ISTC (International Science and Technology Center), STCU (Science and Technology Center in Ukraine), INTAS and etc; National Contact Point in Nanotechnology of the EU Framework Programme for Research and Innovation (FP7 and HORIZON 2020); Organizer, Chair, Invited Speaker and Participant more than 37 International Scientific Congress, Symposium and Conference (Including: PM, Powder Metallurgy World Congress; TMS, The Minerals, Metals and Materials; MABS, Military Aspects Blast and Shocks; DAPS, Design and Analyses Protective Structures; SGEM; PRICM, Pacific Rim International Congress, IC4N and etc;
- Materials Science; Solid State Physics; Explosives and Blasting Technologies;
- Member of the Minerals, Metals & Materials Society (TMS, a member of the American Institute of Mining, Metallurgical and Petroleum Engineers); Member of ASM. Holder of State Stipend of Georgia; SCIENTIFIC ACHIEVEMENTS AND AWARDS, MEMBERSHIPS; Member of Scientific Board of 5 Scientific Periodic Journal;
- **Author 82 Scientific Paper and 3 Inventions; Holder of 5 Patent; MAJOR PUBLICATIONS (Selected):**
- Development and Performance of New Gadolinium and Boron Containing Radiation Absorbing Composite Systems; Journal of Materials, JOM, An official publication TMS, June 2013
- Investigation of Intermetallides, Obtained in Ti-Al-B System in Dynamic Conditions, EURO PM2009

- Design of Water Mist Generator for Attenuation of Shock Wave in Tunnels, Design and Analyses of Protective structures, DAPS, 2012
- Composite Materials Reinforced by Basalt and Carbon Hybrid Fibers, TMS 2013 Supplemental Proceeding, Copyright@2013
- Book: "COMPOSITES AND THEIR APPLICATION", Chapter 10: Properties of Basalt plastics and Composites Reinforced by Hybrid Fibers in Operating Conditions
- Bulk Nanostructured Materials Obtained By Shock waves Compaction of Ultrafine Titanium and Aluminum, Journal of Modern Physics, V. 5 (2012); World Scientific
- Explosive Fabrication of Intermetallics In TiAl System from Nano Al and Coarse Ti Powders, Published by the American Institute of Physics, 2012
- The Generation of Ultrahigh Temperatures and Pressures and the Prospects of Their Application, J. Georgian Engineering News
- Polymer Based Composite and Hybrid Materials for Wind Power Generation, Materials Science Forum, Vols. 654-656 (2010) pp. 2612-2615@ (2010) Trans Tech Publications. Switzerland
- Compaction of Tungsten Containing Ultra-Disperse Powder in Dynamic Conditions, Book: 9<sup>th</sup> International Multidisciplinary Scientific GeoConference, SGEM 2009
- Calculation of the stress Tensor under symmetric cylindrical shock wave loading, Book: "Powder Materials: Current research and industrial practice, 2001
- "Processing of Aluminum Nickelides by Hot Explosive Consolidation, International Journal of Self-Propagating High-Temperature Synthesis Volume 13, #1, 2004
- Hot Explosive Compaction of Aluminum-Nickelide Composites, Metallurgical and Materials Transactions A, Volume 35A, 2004
- Shock-Wave Compaction and Investigation of Fe-Ni-Al Powder Composition, "Physica Metallor I Metalovedenie", 2006
- Shock Wave Compaction of W-Cu Compositions, EURO PM2007 Proceedings, Vol. 3
- The Problems of Protecting People in Underground Structures From Terrorist Explosions, Book: Complexity and Security, NATO Science for Peace and Security Series, V.37, Chapter 15, 2008
- Formation of Ultrafine Grained Bulk Si and Si-Ge Alloys by Shock Wave Compaction Technology, PM 2010 World Congress – Nanotechnology, v.3, 2010
- Stabilization and Reinforcing of the Polyolefins, Book of 12<sup>th</sup> International Multidisciplinary Scientific GeoConference SGEM2012, v.4