

Ekaterine Sanaia

List of Publications:

1. R.Chedia, E.Sanaia, V. Gabunia, N. Kokiashvili. Preparation of Ultradispersed Crystallites of Modified Natural Clinoptilolite with the Use of Ultrasound and Its Application as a Catalyst in the Synthesis of Methyl Salicylate. American Journal of Nano Research and Applications 2017; 5(3-1): 26-32 doi: 10.11648/j.nano.s.2017050301.17
2. A.Guldashvili, Yu.Nardaya, Ts. Nebieridze, E.Sanaia, A. Sichinava, M. Kadaria. Mechanical Properties of Tungsten Implanted with Boron and Carbon Ions. Materials Science and Engineering: A&B Structural Materials: Properties, Microstructure and Processing, 2017. No. JMSE 20170307-1, 5 p
- 3.Obtaining of Graphene Structure Containing Ceramic Composites in High Temperature Vacuum Furnace Materials Science Forum ; ISSN: 1662-9752, vol. 900, pp.101-104. 2017, Trans Tech publications, Switzerland
4. E.Sanaia, G.Bokuchava,R.Chedia- Synthesis and Consolidation of Superconductor Magnesium Diboride, Proceedings of International Conference Advanced Materials and Technologies pp.31-36, 2015
- 5.E.Kutelia, G.Kvinikadze, E.Sanaia, T.Dzigrashvili- Efficiency of application of super-pure gallium (>7N+) obtained by membrane technology for production of high quality GaAs single crystals Proceedings of International Conference Advanced Materials and Technologies pp.52-55, 2015
- 6.N. Jalagonia, T. Kuchukhidze, V. Gabunia, G. Kvartskhava, E. Sanaia, F. Marquis, R. Chedia. Impregnation of Zero-valent Iron in Biomaterials for Remediation of Wastewater. Proceedings of 1st Intl. Symp. on Advanced Materials and Technologies for Sustainable Energy and the Environment(AMTSEE), 4-9 October, 2015.
- 7.G. Bokuchava, T. Kuchukhidze, N. Jalagonia, E. Sanaia, R. Chedia. "Obtaining of Different Types of Composite Materials by High Temperature Vacuum Furnace (OXY-GON)" 2th International Conference Modern Technologies and Methods of inorganic materials Science Proceedings, 90-96, 2015.
- 8.T. Kuchukhidze, N. Jalagonia, E. Sanaia, V. Gabunia, K.Sarajishvili, T.Korkia, R. Chedia. Development of Obtaining Methods of the α -Al₂O₃ Ultrafine Powder from the Aluminum Scrap. Transactions of Petre Melikishvili Institute of Physics and Organic Chemistry, 2015, 95-103.
- 9.G. Bokuchava, E.Sanaia, K.barbakadze, R.Chedia. Some Issues of Magnesium Diboride Bulk Samples' mObtaining Process. Euro PM2014 Proceedings, p.6, 2014
- 10.R.V. Chedia, T.V. Kuchukhidze, N.T. Jalagonia, T.N. Archuadze, E.E. Sanaia, V.A Kuchukhidze Simultaneous Synthesis and Consolidation of Superconductor Magnesium Diboride. Georgian Chemical Journal, 2014, 14 (1)
- 11.T.Kuchukhidze, A.Mikeladze, E.Sanaia, G.Bokuchava, G.Darsavelidze, R.Chedia Fabrication of bulk targets of MgB₂ with stoichiometric and nonstoichiometric contents. Journal of Materials Science and Engineering A 3 (11) (2013)
12. I. Kurashvili, E. Sanaia, G. Darsavelidze, G. Bokuchava, A. Sichinava, I. Tabatadze, V. Kuchukhidze. Physical-Mechanical Properties of Germanium Doped Monocrystalline Silicon Journal of Materials Science and Engineering A 3 (11) (2013)
- 13.E.Sanaia, I.Kurashvili, M.Darchiashvili, G.Darsavelidze "Inelastic Properties of YBaCuO Superconductor Ceramics" Journal of Materials Science and Engineering, vol.5, no.6, 2011
- 14.I.Kurashvili, E.Sanaia, G.Bokuchava,Ilia Baratashvili, G.Darsavelidze, "Influence of Arsenic on the Physical Mechanical characteristics of the Monocrystalline Si_{99.97}Ge:As Solid Solution" Bulletin of the Georgian Academy of Science,v. 4, N1, 2010
- 15.G.Darsavelidze, M.Darchiashvili, G.Chubinidze, I.Kurashvili, E.Sanaia, L.Gabrichidze, I.Tabatadze „Peculiarities of the Internal Friction Spectrum of Ceramic Metal Si_{0.8}Ge_{0.2}: P Alloys" Bulletin of the Georgian National Academy of Sciences, vol.4, no.1, 2010, pp.82-84
- 16.G.Archuadze, M.Darchiashvili, E.Sanaia, I. Baratashvili, G.Darsavelidze „Amplitude Dependent Anelasticity in Undoped

Polycrystalline Germanium" Bulletin of the Georgian National Academy of Sciences, vol.4, no.1, 2010

17.G.Darsavelidze, E.Sanaia, I.Kurashvili, G.Bokuchava „Amplitude Dependence of Internal Friction and Shear Modulus of Tin Doped Monocrystalline Silicon" Bulletin of the Georgian Academy of Science,v. 3, N2, 2009, pp.100-102

18.E.Sanaia, E.Kutelia, G.Darsavelidze „Physical-Mechanical Properties of ErBaCuO Superconductors Doped with Gold and Gallium" Journal of Physics: Conference Series 97 (2008) 012335
http://www.iop.org/EJ/article/1742-6596/97/1/012335/jpconf8_97_012335.pdf?request-id=88cecef1-bdb7-4ed0-bc88-29e007ac1e9f

19 I.Kurashvili, G.Bokuchava, E.Sanaia "Dislocation Nanoelasticity of Monocrystalline Si-Ge Alloy Doped by Arsenic" Problems of Metallurgy, Welding and Materials Science, 2007, N1, pp.21-27

20.G.Bokuchava, I.Kurashvili, E.Sanaia, G.Chubinidze "Physico-Mechanical Properties of Si_{0.85}Ge_{0.15}GaP Alloy" Bulletin of the Georgian Academy of Science,v. 175, N2 2007

21.E.Sanaia, E.Kutelia, G.Darsavelidze "Mechanical and Electro-Physical Properties of Gallium Doped ErBaCuO Superconductors with Reverse Superconductive", 2006 Applied Superconductivity Conference
<http://www.ascinc.org/Format.asp?PaperNumber=5ME01>

22. E.Sanaia, E.Kutelia "Structural Aspect of Degradation Properties of YBCO Superconductor Ceramics in Damp Atmosphere", Novels Materials, 2006, N1, pp.87-91

23. E.Sanaia, E.Kutelia, G.Darsavelidze "Amplitude Dependence of Internal Friction and Thermal Expansion of ErBCO Superconducting Ceramics", Bulletin of the Georgian Academy of Science 2005, 171, N1, pp.69-72
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24.G.Sh.Mtskeradze, E.Sanaia, J.T. Gachechiladze, M.R. Zibzibadze and N.I.Maisuradze "Some Aspects of Realization and Exploitation of Liquid Crystalline Optoelectronic Light Commutators", Georgian Engineering News, 2005, N3, pp. 28-30 <http://www.mmc.net.ge/gen/sum28.htm>

25. G.Sh.Mtskeradze, E.Sanaia, J.T. Gachechiladze, M.R. Zibzibadze and N.I.Maisuradze "Devices for Deposition of Uniform Tin Dioxide Films", Georgian Engineering News, 2005, N3, pp. 31-32 <http://www.mmc.net.ge/gen/sum28.htm>

26. J.Nikuradze, E. Sanaia, I. Kurashvili, "Physico-Mechanical Properties of Monocrystalline Si Doped by Boron" Transaction of Georgian Technical University, 2005 №2,456, pp.9-12

27.E. Sanaia, I. Kurashvili, T.Kuchukhidze, G. Darsavelidze, Dynamical mechanical properties of high temperature superconductor ceramics YBa₂Cu₃O_{7-d}. Georgian Chemical Journal, 13, № 70-72 ,2005

28. E.Kutelia, E.Sanaia, G.Darsavelidze "High-Temperature Internal Friction in Superconducting Ceramics ErBa₂Cu₃O_{7-x}" Bulletin of the Georgian Academy of Science, 2004, N1, 169, pp.46-49
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29.E.Kutelia, E.Sanaia, G.Darsavelidze. "Specific Features of the Structure of Free-Growing Nanoparticles of Superconducting Ceramics ErBaCuO", Georgian Engineering News, 2004, №2, pp.65-70 <http://www.mmc.net.ge/gen/sum22.htm>

30.E.Kutelia, E.Sanaia, G.Darsavelidze "Electronmicroscopic Study of the Structure and Phase Transformation YBCO Superconductor Ceramic" Georgian Engineering News, 2004, №4, pp.14-19 <http://www.mmc.net.ge/gen/sum24.htm>

31.E.Sanaia, E.Kutelia, G.Darsavelidze "Morphology and Structural Transformation of Free-Growing Nanoparticles of Superconducting Ceramics ErBCO", European Conference JOUNIOR EUROMAT 2004, September 6-9, Lausanne, Switzerland
<http://www.dgm.de/past/2004/junior-euromat/Program>

32.P.Kervalishvili, E.Sanaia, M.Tabutsadze "Boron-Based Temperatures Sensor", Georgian Engineering News, 2004, N2, pp.61-65. <http://www.mmc.net.ge/gen/inf17.htm>