- 1. Approximate construction of conformal mapping functions for simply connected domains. Proc. CC. Georgian Acad. Sci., 18 (1978), №1, 5-19. (co-author Э. Askerov). (in Russian)
- 2. On study of forces in seismic centre. Bull. Georgian Acad. Sci., 99 (1980),1, 81-84. (co-author M. Aleksidze). (in Russian)
  - 3. On one case of operation of forces in seismic centre. Bull. Georgian Acad. Sci., 100 (1980), Nº1, 85-88. (in Russian)
  - 4. On stability of definition of parameters of forces in seismic centre. Report Acad. Sci. of SSSR, 259 (1981), №3, 559-562 .(co-author M. Aleksidze) (in Russian)
  - 5. On stability of solution of some linear inverse problems of seismology. Bull. Georgian Acad. Sci., 106 (1982), Nº1, 57-60. (in Russian)
  - 6. On accuracy of solution of some direct and inverse problems of seismology. Bull. Georgian Acad.Sci., 108 (1982), №1, 65-68. (in Russian)
- 7. On realization of a scheme of approximate construction of conformally mapping functions for simply connected domains by PPP YPR2. Proc. CC. Georgian Acad. Sci., 23 (1983), Nº1, 129-142. (co-author Z Pandjakidze). (in Russian)
  - 8. Remark on solution of some direct and inverse problems of seismology in the case of operation of dipole concentrated forces (DCF). Bull. Georgian Acad. Sci., 19 (1985), №2, 289-292. (in Russian)
- 9. Numerical solution of the direct boundary problems of theory of elasticity for isotropic elastic bodies. Proc. ICM. Georgian Acad. Sci., 26 (1986), №1, 99-108. (co-author N. Koblishvili). (in Russian)
  - 10. On one matrix of fundamental solutions of equation of the dynamics theory of elasticity. Proc. ICM Georgian Acad. Sci., 26 (1986), Nº1, 55-64. (in Russian)
  - On one algorithm of numerical solution for some direct dynamic problems of theory of elasticity. Proc. ICM. Georgian Acad. Sci., 28 (1988), №1, 101-107. (co-author N. Koblishvili). (in Russian)
  - 12. Numerical solution of some problems of theoretical seismology by MFS. Bull. Armenian Acad. Sci., Sciences on Earth, 17 (1989), №6, 59-63. (co -author M. Mkoian). (in Russian)
- 13. On approximate solution of some direct problems of dynamics of theoretical seismology for half-space by MFS. Bull. Georgian Acad. Sci., 145 (1992), №3, 549-552. (co-author N.Koblishvili). (in Russian)
  - 14. On one approximate method of the conformal mapping. Proc. A. Razmadze Math. Inst. Vol, 120 (1999), 153-164.
    (co-authors: Z. Natsvlishvili, Z.Sanikidze.)

- 15. On conformal mapping of a unit disk onto finite domain. Proc. A. Razmadze Math. Inst. Vol, 123 (2000), 93-103.
  (co-authors : Z.Natsvlishvili, Z. Sanikidze).
- 16. On the method of fundamental solutions and some aspects of its application. Proc. A. Razmadze Math. Inst. Vol, 123 (2000), 41-51. (co-author L. Lazarashvili).
- 17. On some aspects of the solution of practical problems by the method of conformal mapping. Reports of Enlarged Session of the Seminar of I. Vekua Inst. Appl. Math. Tbilisi State Univ., Vol, 16 (2001), №3, 111-117.
- 18. On approximate solution of the Dirichlet Problem for a harmonic function in the case of infinite plane with a cut-type hole. *Transactions of the Int. Symp. on the Problems of Thin-walled Space Structures, Georgian Technical University, Tbilisi (2001), 137-142. (co-author* N. Koblishvili).
  - 19. On approximate solution of the Dirichlet Problem in the case of infinite plane with holes. Proc. A. Razmadze Math. Inst. Vol, 129 (2002), 87-98. (co-author N. Koblishvili).
  - 20. On one modified version of MFS for conformal mapping of infinite domain onto the unit disk. Proc. A. Razmadze Math. Inst. Vol, 129 (2002), 129-141
- 21. On solving of Dirichlet plane external problem for the Laplace equation by the modified version of MFS. J. Applied Mathematics and Informatics (AMI), Vol. 7, Nº2, 2002, 78-89). (co-author N. Koblishvili).
- 22. On reduction of the Dirichlet generalized boundary value problem to an ordinary problem for a harmonic function. *Proc. A.Razmadze Math. Inst. Vol, 132 (2003), 93-106. (co-authors:* Z. Tabagari, N. Koblishvili).
- 23. A method of probabilistic solution to the ordinary and generalized plane Dirichlet problem for the Laplace equation. Science and Computing, Proc. Sixth ISTC Scientific Advisory Committee Seminar, Vol. 2, Moscow (2003), 361-366. (co-authors: A. Sh. Chaduneli, Z. A. Tabagari).
- 24. A computer simulation of probabilistic solution to the Dirichlet plane boundary problem for the Laplace equation in case of an infinite plane with a hole. Bull. Georg. Acad. Sci. Vol. 171, №3, 2005, 437-440. (co-authors: A. Sh. Chaduneli, Z. A. Tabagari).
- 25. On solving the Dirichlet generalized boundary problem for a harmonic function by the method of probabilistic solution. Bull. Georg. Acad. Sci. Vol. 173, №1, 2006, 30-33. (co-authors: A.Sh. Chaduneli, Z. A. Tabagari).
- 26. On solving the Dirichlet boundary problem for the Poisson equation by the method of conformal mapping. Proc. A.Razmadze Math. Inst. Vol.141 (2006), 1-13. (co-authors: K. Amano, Z. Natsvlishvil).
- 27. On approximate solution of some direct dynamic problems of theoretical seismology. J.of Georgian Geophysical Society, Is. (A), Physics of Solid

Earth, v. 11, 2007, pp. 94-104. (co-authors: T. Chelidze, J. Kiria, N. Lekishvili).

- 28. On solving the interior three-dimensional Dirichlet problem for a harmonic function by the method of probabilistic solution. Bull. Georg.National Academy of Sci., vol. 176, # 1, 2008, 25-27. (co-authors: A. Chaduneli, Z. Tabagari).
- 29. On Solving the Dirichlet Generalized Problem for Harmonic Function by the Method of Fundamental Solution. Reports of the seminar of I. Vekua Institute of Applied Mathematics, v. 34, 2008, 24-32. (co-authors: N. Koblishvili, A. Karageorghis, Y. Smyrlis).
- 30. On Matrix of Fundamental Solutions of the Equation of Dynamic Elasticity Theory. Electrnic Scientific Journal: Computer Science and Telecommunications, 2009, 4(21), 200-213. (co-authors: Z. Sanikidze, N. Koblishvili).
- 31. On Approximate Solving of some Dynamic Problems of Elasticity Theory. Proc. A. Razmadze Math. Inst. Vol. 152 (2010), 59-71. (co-authors: Z. Sanikidze, N. Koblishvili).
- 32. On Solving the External three-Dimensional Dirichlet Problems for a Harmonic Function by the Probabilistic Method. Bull. Georg. Natl. Acad. of Sci., vol. 4, #3, (2010), 19-23. (co-authors: Z. Sanikidze, Z. Tabagari).
- A note on the univalence of approximate conformal mapping functions.
  Proc. A. Razmadze Math. Inst. 157 (2011), 1-10.
  (co-authors: K. Amano, G. Silagadze).
- 34. A mathod of conformal mapping for solving the generalized Dirichlet problem of Laplace's equation. Proc. A. Razmadze Math. Inst. 160 (2012), 71-89. (co-authors: M. Kublashvili, Z. Sanikidze)
  - *35.* One model of reduction of the Dirichlet generalized problem to ordinary problem for harmonic function. Several Problems of applied Mathematics and Mechanics. Nova Science Publishers; Mathematics Research Developments; Nova Science Publishers,New York, (2013), 111-123. (co-authors: Z. Sanikidze, N. Koblishvili, Z. Natsvlishvili).
- *36.* On solving the Dirichlet generalized problem for a harmonic function in the case of infinite plane with holes. Proc. A. Razmadze Math. Inst. 164 (2014), 71-82. (co-author N. Koblishvili).
  - 37. On solving the Dirichlet generalized problem for a harmonic function in the case of an infinit plane with a crack-type cut. Proc. A.Razmadze Math. Inst. vol. 168 (2015), 53-62. (co-authors: M. Kublashvili, Z. Sanikidze, N. Koblishvili).

- 38. Investigation and numerical solution of some 3D internal Dirichlet generalized harmonic problems in finite domains. Transactions of A. Razmadze Math. Inst. 171 (2017) 103-110. (co-authors: M. Kublashvili, Z. Sanikidze, N. Koblishvili).
  - 39. The method of probabilistic solution for 3D Dirichlet ordinary and generalized harmonic problems in finite domains bounded with one surface. Transactions of A.Razmadze Math. Inst. 172 (2018) 453-465. (co-authors: B. Mamporia, M.Kublashvili, N. Koblishvili).
  - 40. The method of probabilistic solution for determination of electric and stationary fields in conic and prismatic domains, Transactions of A. Razmadze Math. Inst. 174 (2020), 2, 235-246. (co-authors: M. Kublashvili, N. Koblishvili, A. Chakhvadze).
  - 41. On the Investigation of an Analytical Solution of a Certain Dirichlet Generalized Harmonic Problem. Sem. of I. Vekua Inst. Appl. Math., Rep., 47 (2021),81-86. (co-authors: M. Kublashvili, Z. Tabagari).
- 42. On numerical solving of the Dirichlet generalized harmonic problem for regular n-sided pyramidal domains by the probabilistic method. Transactions of A. Razmadze Math. Inst. 176 (2022) issue 1, 123-132. (co-authors: M. Kublashvili, Z. Tabagari and N. Koblishvili).
  - 43. On approximate solution of the Dirichlet harmonic problem for an infinitive plane with a cut-type hole. GESJ: Computer Science and Telecommunications, No. 1 (61) (2022), 7-12. (co-authors: Z. Tabagari and N. Koblishvili).
  - 44. Computer modeling of a probabilistic solution for the Dirichlet generalized harmonic problem in some finite axisymmetric bodies with a cylindrical hole. Bulletin of TICMI 26, 2 (2022), 37-52.

(co-authors: Z. Tabagari, Z. Sanikidze and E. Abramidze).

- 45. The numerical solution of the external Dirichlet generalized harmonic problem for a sphere by the method of probalistic solution. Mathematics, 11, (3) 539 (2023), Switzerland. <u>https://doi</u>. Org/10.3390/math11030539 (IF). (co-authors: Z. Tabagari, N. Koblishvili, T. Davitashvili, JM. Sanchez, F. Criado-Aldeanueva).
- 46. The method of probabilistic solution for the Dirichlet generalized harmonic problem in irregular pyramidal domains.
   Transactions of A. Razmadze Math. Inst. Vol. 177 (2023), Issue 3, 475-483

(**IF**) (co-authors: Z. Tabagari, M. Mirianashvili, N. Koblishvili, T. Davitashvili).