14 February, 2018

CURRICULUM VITAE

Prof. Merab Svanadze

PERSONAL INFORMATION

Name, Family Name	Merab Svanadze
Date of birth	11 July, 1955
Contact Information	Mobil: 5 77 553384, +995 5 77 553384, E-mail: svanadze@iliauni.edu.ge

EDUCATION & PROFESSIONAL TRAINING

• Dates (from – to)	22 March, 2004
• Name and type of organization	I. Javakhishvili Tbilisi State University
• Faculty/Training/Course	Solid Mechanics
• Type of qualification awarded	Professor, diploma № 000473
• Dates (from – to)	26 June, 1998
• Name and type of organization	I. Javakhishvili Tbilisi State University
• Faculty/Training/Course	Solid Mechanics
• Type of qualification awarded	Doctor of Physical and Mathematical Sciences (Doct. Habilitation), diploma № 000740
• Dates (from – to)	15 August, 1990
• Name and type of organization	I. Javakhishvili Tbilisi State University
• Faculty/Training/Course	Mathematical Physics
• Type of qualification awarded	Senior Research Scientist, diploma CH № 065481
• Dates (from – to)	5 December, 1984
• Name and type of organization	I. Javakhishvili Tbilisi State University
• Faculty/Training/Course	Mathematical Physics
• Type of qualification awarded	Candidate of Physical and Mathematical Sciences (Ph. D), Diploma ΦM № 022823
• Dates (from – to)	1972 - 1977
• Name and type of organization	I. Javakhishvili Tbilisi State University (Georgia)
• Faculty/Training/Course	Faculty of Mechanics and Mathematics
• Type of qualification awarded	Graduated with honours diploma in Mathematics
• Dates (from – to)	1962 - 1972
• Name and type of organization	Secondary School
• Type of qualification awarded	school-leaving certificate with gold medal

EMPLOYMENT

• Dates (from – to)	2006 - present
• Employer	Ilia State University (Tbilisi, Georgia)
• Rank/Position held	Full Professor of Institute for Fundamental and Interdisciplinary Mathematics Research
• Dates (from – to)	1996 - 2006
• Employer	I. Vekua Institute of Applied Mathematics of Tbilisi State University (Georgia)
• Rank/Position held	Head Research Scientist
• Dates (from – to)	1993 - 1995
• Employer	I. Javakhishvili Tbilisi State University
• Rank/Position held	Doctorant
• Dates (from – to)	1988 -1993
• Employer	I. Vekua Institute of Applied Mathematics of Tbilisi State University
• Rank/Position held	Senior Research Scientist
• Dates (from – to)	1986 -1988
• Employer	I. Vekua Institute of Applied Mathematics of Tbilisi State University
• Rank/Position held	Research Scientist
• Dates (from – to)	1981 -1986
• Employer	I. Vekua Institute of Applied Mathematics of Tbilisi State University
• Rank/Position held	Junior Research Scientist
• Dates (from – to)	1979 - 1981
• Employer	I. Vekua Institute of Applied Mathematics of Tbilisi State University
• Rank/Position held	Mathematician
• Dates (from – to)	1977 - 1979
• Employer	I. Vekua Institute of Applied Mathematics of Tbilisi State University
• Rank/Position held	Engineer – Mathematician – Programmer
• Dates (from – to)	1976 - 1977
• Employer	I. Vekua Institute of Applied Mathematics of Tbilisi State University
• Rank/Position held	Senior Assistant
• Dates (from – to)	2007 (January) – 2008 (January)
• Employer	I. Javakhishvili Tbilisi State University
• Rank/Position held	Head of Department of Education
• Dates (from – to)	1999 - 2004
• Employer	Faculty of Mechanics and Mathematics of I. Javakhishvili Tbilisi State University
• Rank/Position held	Professor
• Dates (from – to)	2000 - 2005
• Employer	University CAC (Caucasus Academic Centre), Tbilisi, Georgia
• Rank/Position held	Rector and Professor
• Dates (from – to)	1998 - 2000
• Employer	Tbilisi Independent University “Iberia”
• Rank/Position held	Prorector (Deputy Rector) and Professor
• Dates (from – to)	1988 - 1995
• Employer	Georgian Technical University
• Rank/Position held	Part-time Assistant

CONGRESSES & CONFERENCES

17 Congresses and 49 International conferences:

1. 12th National Congress on Theoretical and Applied Mechanics, 6-10 September, 2017, Sofia, Bulgaria
2. Int. Mech Engng. Congress & Exposition (2016), Phoenix, AZ, USA
3. 11th International Congress on Thermal Stresses, 2016, Salerno, Italy
4. 11th HSTAM International Congress on Mechanics, 2016, Athens, Greece
5. Int. Mech Engng. Congress & Exposition (2015), Houston, TX, USA
6. The 2015 AMMCS-CAIMS Congress (2015), Waterloo, Ontario, Canada
7. 17th US National Congress on Teoretical and Applied Mechanics (2014), Lansing, MI, USA
8. 10th Int. Congress on Thermal Stresses (2013), Nanjing, China
9. 12th National Congress on Theoretical and Applied Mechanics (2013), Varna, Bulgaria
10. 9th Int. Congress on Thermal Stresses (2011), Budapest, Hungary
11. 17th Congress of the European Society of Biomechanics (2010), Edinburgh, UK
12. 11th National Congress on Theoretical and Applied Mechanics (2009), Borovets, Bulgaria
13. 8th Int. Congress on Thermal Stresses (2009), Urbana-Champaign, Illinois, USA
14. 16th Congress of the European Society of Biomechanics (2008), Lucerne, Switzerland
15. 6th Int. Congress on Industrial and Applied Mathematics, ICIAM 07 (2007), Zurich, Switzerland
16. 5th World Congress in Biomechanics (2006), Munich, Germany
17. 5th Int. Congress on Thermal Stresses (2003), Blacksburg, Virginia, USA

1. Int. Conference on Engineering Vibration, 4-7 September 2017, Sofia, Bulgaria
2. *SIAM Annual Meeting (AN17*), 10-14 July, 2017, Pittsburgh, PA, USA
3. 5th Int. Conference on Material Modelling, 13-16 June, 2017, Rome, Italy
4. *GAMM2017*, *88th Annual Scientific Conference,* 6-10 March, 2017, Weimar, Germany
5. 40th Solids Mechanics International Conference (2016), Warsaw, Poland
6. SIAM Annual Meeting (AN16), 2016, Boston, Massachusetts, USA
7. AIMS Conference on Dynamical Systems, Differential Equations and Applications, 1-5 July, 2016, Orlando, USA
8. *87th* GAMM Annual Scientific Conference, 2016, Braunschweig, Germany
9. 9th EuroMech Solid Mechanics Conference (2015), Madrid, Spain
10. 7th Int. Conference on Porous Media (2015), Padova,Italy
11. Int. Conference: GAMM 2015 (2015), Lecce, Italy
12. 2nd International Conference on Continuous Media with Microstructure (2015), Łagów, Poland
13. 39th Solids Mechanics International Conference (2014), Zakopane, Poland
14. AIMS Conference on Dynamical Systems and Differential Equations (2014), Madrid, Spain
15. Int. Conference on Mathematical Methods and Models in Biosciences (2014), Sofia, Bulgaria
16. Int. Conference: GAMM 2014 (2014), Erlangen, Germany
17. SIAM Conference on Analysis of Partial Differential Equations (2013), Lake Buena Vista, Florida, USA
18. Int. Conference on Mathematical Methods and Models in Biosciences (2013), Sofia, Bulgaria
19. 7th M.I.T. Conference on Computational Fluid and Solid Mechanics, Focus: Multiphysics & Multiscale (2013), Cambridge, MA, USA
20. 4th Int. Conference: New Trends in Fluid and Solid Models (2013), Salerno, Italy
21. 38th Solid Mechanics Int. Conference (2012), Warsaw, Poland
22. Int. Conference on Mathematical Methods and Models in Biosciences (2012), Sofia, Bulgaria
23. 4th Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences (2012), Varna, Bulgaria

24. 4th Int. Conference on Porous Media (2012), West Lafayette, Indiana, USA
25. Mathematical Models and Analytical Problems for Special Materials, INdAM 2012 Workshop (2012), Roma, Italy
26. Int. Conference: GAMM 2012 (2012), Darmstadt, Germany
27. 7th Vienna International Conference on Mathematical Modelling (2012), Vienna, Austria
28. 2nd Int. Conference on Material Modelling (2011), Paris, France
29. 16th Int. Conference: Waves and Stability in Continuum Media (2011), Brindisi, Italy
30. Int. Conference: GAMM 2011 (2011), Graz, Austria
31. 37th Solid Mechanics Int. Conference (2010), Warsaw, Poland
32. Int. Conference: GAMM 2010 (2010), Karlsruhe, Germany
33. 7th EuroMech Solid Mechanics Conference (2009), Lisbon, Portugal
34. 2nd Int. Conference: New Trends in Fluid and Solid Models (2009), Salerno, Italy
35. Int. Conference: GAMM 2008 (2008), Bremen, Germany
36. Int. Conference: Modern Problems in Applied Mathematics, 2008, Tbilisi, Georgia
37. 14th Int. Conference: Waves and Stability in Continuum Media (2007), Baia Samuele, Ragusa, Italy
38. Int. Conference: GAMM 2006 (2006), Berlin, Germany
39. 13rd Int. Conference: Waves and Stability in Continuum Media (2005), Acireale, Italy
40. Int. Conference: GAMM 2005 (2005), Luxembourg
41. Int. Conference: GAMM 2004 (2004), Dresden, Germany
42. Int. Conference: GAMM 2003 (2003), Abano Terme-Padua, Italy
43. Advanced School at CISM (2003), Udine, Italy
44. Int. Conference: GAMM 2001 (2001), Zürich, Switzerland
45. Int. Conference: GAMM 98 (1998), Bremen, Germany
46. Int. Conference: Diffraction Theory (1996), Freudenstadt, Germany
47. Int. Conferences: Problems and Methods in Mathematical Physics (1993), Chemnitz, Germany
48. Int. Conference: Differential Equations (1989), Rosse, Bulgaria
49. Int. Conferences: Problems and Methods in Mathematical Physics (1988), Chemnitz, Germany

OTHER ACTIVITIES & MEMBERSHIP

Member of the Council of the Faculty of Natural Sciences and Engineering:
at Ilia State University (January 2015 – present)

Member of the Academic Council:
at Ilia State University (June 2009 – July 2010)

Member of the Representative Council:
at Ilia State University (2006 - June 2009, July 2010 – March 2012)

Member of the Scientific Councils:
at I.Vekua Institute of Applied Mathematics of Tbilisi State University (2000 - 2006)
of Doctoral Dissertation at Tbilisi State University (2000 - 2006)

Memberships in Professional International Societies:
American Mathematical Society (1999 – present)
New York Academy of Sciences (1995 – present)
ASME (American Society of Mechanical Engineers) (2015 - present) (#100813170)
GAMM (Gesellschaft für Angewandte Mathematik und Mechanik, International Society of Applied Mathematics and Mechanics) (1996 – present) (#3180)
European Mechanics Society (2009 – present) (#10023)
European Society of Biomechanics (2006 – present) (member of the Liaison Committee, 2006-2010)
SIAM (Society for Industrial and Applied Mathematics) (2006 – present) (# 001004902)
International Society of Porous Media (2012 – present)

Member of Editorial Board of the International Scientific Journals:
Le Matematiche, Journal of Pure and Applied Mathematics, Associate Editor (2009-2016)
Trends in Applied Sciences Research (New York, USA) (2007- 2010)
Seminar of I. Vekua Institute of Applied Mathematics, Reports (2009-present)
Editor of volumes 14, # 2; 16, #1-3 and 18, #1-2 of the Reports of Enlarged Sessions of the Seminar of I. Vekua Institute of Applied Mathematics

Member of Scientific Committee of the International Conferences:
Member of Program Committee of the Int. Conference on Mathematical Methods and Models in Biosciences, 14-19 June, 2015, Blagoevgrad, Bulgaria
Member of Program Committee of the Int. Conference on Mathematical Methods and Models in Biosciences, 22-27 June, 2014, Sofia, Bulgaria
Member of the International Scientific Committee and cochairman of the section *Solid Mechanics* of the International Conference *Modern Problems in Applied Mathematics*, 7-9 October, 2008, Tbilisi, Georgia
Chairman of Local Organizing Committee of ISAAC (International Society for Analysis, Applications and Computation) International Conference, 23-27 April, 2007, Tbilisi, Georgia

Keynote lectures:
4th Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences (2012), Varna, Bulgaria
Int. Conference: GAMM 2012 (2012), Darmstadt, Germany

Invited speaker:
4th Int. Conference: New Trends in Fluid and Solid Models (2013), Salerno, Italy

Chair of the technical sessions at:
12th National Congress on Theoretical and Applied Mechanics, 6-10 September, 2017, Sofia, Bulgaria
International Mechanical Engineering Congress & Exposition 2015 (2015 IMECE), Houston, TX, USA
2nd International Conference on Continuous Media with Microstructure (2015),

Łagów, Poland
12th National Congress on Theoretical and Applied Mechanics (2013),Varna, Bulgaria
Int. Conference on Mathematical Methods and Models in Biosciences (2014, 2013, 2012), Sofia, Bulgaria
Inter. Conference GAMM2012 (2012), Darmstadt, Germany (chair and invited speaker)
9th Int. Congress on Thermal Stresses (2011), Budapest, Hungary
2nd Int. Conference on Material Modelling (2011), Paris, France
11th National Congress on Theoretical and Applied Mechanics (2009), Borovets, Bulgaria
8th Int. Congress on Thermal Stresses (2009), Urbana-Champaign, Illinois, USA
5th Int. Congress: Thermal Stresses (2003), Blacksburg, Virginia, USA

Visited Professor:
University of Salerno, Italy (February 2014, April 2013, July 2012, March 2009, July 2005, February-March 2005, December 2004), (Prof. M.Ciarletta)
University of Catania, Italy (July 2012, July, February 2010, July, February 2009, June 2008, June, March 2005), (Prof. A. Scalia)
University of Napoli, Italy (March 2011, February 2008, July 2004), (Prof. L. Nappa and Prof. S. De Cicco)
Technical University of Catalunya, Barcelona, Spain (October 2006), (Prof. R. Quintanilla)
University of Essen, Germany (November 2000), (Prof., Dr. R. de Boer)
University Konstanz, Germany (October 2000), (Prof., Dr. R. Racke)

Reviewer of the International Journals:
1. Applied Mathematics Letters
2. Archives of Mechanics
3. Asian-European Journal of Mathematics
4. Computational & Applied Mathematics
5. Computers and Mathematics with Applications
6. European Journal of Mechanics, A/Solids
7. International Journal of Engineering Science
8. International Journal on Mathematical Methods and Models in Biosciences
9. International Journal of Mathematics and Mathematical Sciences
10. International Journal of Solids and Structure
11. Journal of Engineering Mathematics
12. Journal of the Australian Mathematical Society, Ser. B: Applied Mathematics (The ANZIAM Journal)
13. Journal of the Franklin Institute
14. Journal of Thermal Stresses
15. Journal of Vibration and Control
16. Mathematical Methods in the Applied Sciences
17. Mathematical Problems in Engineering
18. Mathematical Reviews
19. Mathematics and Mechanics of Solids
20. Mathematica Slovaca
21. Meccanica
22. Mechanics of Advanced Materials and Structures
23. Mechanics Research Communications
24. Multidiscipline Modeling in Materials and Structures
25. Numerical Methods for Partial Differential Equations
26. Structural Engineering and Mechanics, An International Journal
27. TamKang Journal of Science and Engineering
28. Zeitschrift für Angewandte Mathematik und Mechanik

Biography is included in the book:
Who's Who in the World, *2006* (23rd Edition, November, 2005, Marquis Who's Who LLC, USA)

ACADEMIC & RELATED AWARDS

Award of the European Society of Biomechanics (in recognition of contribution to the furtherment of Biomechanics in Georgia), 2006

RESEARCH

Research Fields:
Elasticity and thermoelasticity
Mechanics of Solids
Mechanics of Porous Media
Biomechanics
Micro- and Nanomechanics
Continuum Mechanics
Waves and Vibrations in Solids
Theory of Mixtures
Boundary Integral Equations
Mathematical Physics
Differential and Integral Equations

GRANTS RECEIVED

Grant of Shota Rustaveli National Science Foundation, Research Project (Grant # FR/18/5-102/14): Investigation of problems of the mathematical theories of multiporosity materials (May 2015 – May 2017)

Grant of Ilia State University: *Steady vibrations problems of the theory of elasticity for materials with a double-porosity structure* (January – December 2015)

Grant of Ilia State University: *Boundary value problems of the full coupled theory of thermoelasticity for double-porosity materials* (January – December 2014)

Travel Grant of Shota Rustaveli National Science Foundation (2013)

Grant of Ilia State University: *Investigation of boundary value problems of the theory of thermoelasticity for double-porosity materials* (January – December 2013)

Grant of Ilia State University: *Investigation of boundary value problems of the full coupled theory of elasticity for double-porosity materials* (January – December 2012)

Grant of Shota Rustaveli National Science Foundation (the Georgia National Science Foundation. Research Project (Grant # GNSF/ST08/3-388): *Investigation of the problems of the theories of elasticity and thermoelasticity for solids with microstructure* (March 2009 - February 2012)

Travel Grant of the Georgian National Science Foundation (2007)

Grant of Georgian National Science Foundation. Research Project (Grant # GNSF/ST06/3-033): *Investigation of the problems of the theory of elasticity and thermoelasticity for binary mixtures* (October 2006 –September 2009)

Grant of Ministry of Education and Science of Georgia. Research Project : Investigation of the boundary value and boundary-contact value problems of mathematical theory of elasticity (2005)

Grant of University Napoli (2004)

DAAD (Deutscher Akademischer Austauschdienst) Stipendium, RWTH Aachen, Germany (Prof., Dr. P. Hermann and Prof., Dr. H. Niemeyer) (1995)

LIST OF PUBLICATIONS & VIDEO LECTURES

175 publications (3 monographs, 1 text-book, 94 research papers and 77 conference abstracts) and 2 video lectures

Monographs:

1. Boundary-contact Value Problems of the Elasticity Theory, Tbilisi University Press, Tbilisi, 1980, 88 p. (with D.G.Natroshvili, A.J. Djagmaidze).
2. Basic Boundary and Boundary-contact Value Problems of Anisotropic Elastostatics, Tbilisi University Press, Tbilisi, 1981, 84 p. (with D.G. Natroshvili).
3. Some Problems of the Linear Theory of Elastic Mixtures, Tbilisi University Press, Tbilisi, 1986, 215 p. (with D.G.Natroshvili, A.J. Djagmaidze).

Text-book:

1. Elementary Mathematics in Banking, Ilia State University Publ., Tbilisi, 2010, 156 p (in Georgian).

Research papers:

1. Potential type integrals on infinite manifolds, *Bulletin Acad. Sci. of Georgia,* v. 93, No 2, pp. 305-308, 1979.
2. Some contact problems for piece-wise homogeneous bodies, *Proceed. Conference in the Theory of Elasticity,* Erevan, November 13-16, 1979, pp. 242-245 (with D. G. Natroshvili, A. J. Djagmaidze).
3. Asymptotic estimates of the potential type integrals on infinite manifolds, *Some Problems of the Theory Elasticity,* Tbilisi University Press, Tbilisi, pp.114-128, 1980.
4. Dynamical problems of coupled thermoelasticity for piece-wise homogeneous bodies, *Proceed. of I.Vekua Inst. of Applied Math.*, v. 10, pp. 99-190, 1981 (with D. G. Natroshvili).
5. Effective solution of some dynamical problems for anisotropic elastic bodies, *Bull. Acad. Sci. of Georgia,* v. 104, No 2, pp. 313-316, 1981 (with D. G. Natroshvili).
6. Dynamical problems of elasticity and thermoelasticity theory for piece-wise homogeneous bodies, *Thesis of Dissertation*, Tbilisi State University, 1984.
7. The existence theorems for the solutions of dynamical problems of the thermoelasticity theory for the piece-wise homogeneous isotropic bodies, *Proceed. of I.Vekua Inst. of Applied Math.*, v. 16, pp. 216-225, 1985.
8. Dynamical problems of elasticity theory of two-component mixtures, *Reports of Enlarged Sessions of the Seminar of I.Vekua Inst. of Applied Math.*, v. 2, No 2, pp. 99-102, 1986.
9. The fundamental matrix of the linearized equations of the theory of elastic mixtures, *Proceed. of I.Vekua Inst. of Applied Math.*, v. 23, pp. 133-148, 1988.
10. Potential methods in the problems of linear theory of elastic mixtures, *Teubner-Texte zur Mathematik,* Band 111, pp. 199-206, 1989 (with D. G. Natroshvili).
11. Representation of the general solution of the equation of static of linear theory of a two-component elastic mixtures, *Reports of Enlarged Sessions of the Seminar of I.Vekua Inst. of Applied Math.*, v. 4, No 2, pp. 155-158, 1989.
12. Solution of boundary value problems in the linear theory of a two-component elastic mixture, *Proceed. of I.Vekua Inst. of Applied Math.*, v. 39, pp. 218-226, 1990.
13. Fundamental solutions of equations of stable oscillation and pseudooscillation of a two-component elastic mixture, *Proceed. of I.Vekua Inst. of Applied Math.*, v. 39, pp. 227-240, 1990.
14. Solution of dynamical problems of linear theory of elastic mixture, *Reports of Enlarged Sessions of the Seminar of I.Vekua Inst. of Applied Math.*, v. 6, No 2, pp. 140-143, 1991.
15. The uniqueness of solutions of stable oscillation of linear theory of a two-component elastic mixture, *Bulletin Acad. Sci. of Georgia*, v. 145, No 1, pp. 51-54, 1992.
16. Uniqueness theorems of the solutions of interior stable oscillation problems of the linear theory of elastic mixture, *Proceed. of I.Vekua Inst. of Applied Math.*, v. 46, pp. 179-190, 1992.
17. The uniqueness of the solution of exterior boundary-value problems of stable oscillation of the linear theory of elastic mixture, *Proceed. of I.Vekua Inst. of Applied Math.*, v. 46, pp. 191-202, 1992.

18. Representation of the general solution of the equation of steady state oscillations of two-component elastic mixtures, *Prikladnaia Mechanika* (Eng. Tr.: *Inter. Applied Mech.*), v. 29, No 12, pp. 22-29, 1993.
19. The asymptotic distribution of eigenvalues and eigenfunctions of the oscillation problems of the linear theory of elastic mixtures, *Reports of Enlarged Sessions of the Seminar of I.Vekua Inst. of Applied Math.*, v. 8, No 2, pp. 151-154, 1993.
20. The fundamental solution of the equation of steady oscillations for a thermoelastic mixtures. *Prikladnaia Mechanika* (Eng. Tr.: *Inter. Applied Mech.*), v. 31, No 7, pp. 63-71 (558-566), 1995.
21. Asymptotic distribution of eigenfunctions and eigenvalues of the boundary value problems of linear theory of elastic mixtures, *Georgian Math. J.*, v. 3, No 2, pp. 177-200, 1996.
22. The fundamental solution of the oscillation equation of the thermoelasticity theory of mixture of two elastic solids, *J. Thermal Stresses,* v. 19, No 7, pp. 633-648, 1996.
23. Three-dimensional problems of mathematical theory of elastic mixtures, *Thesis of Dissertation*, Tbilisi State University, 1998.
24. On existence of eigenfrequencies in the theory of two-component elastic mixtures, *Quart. J. Mech. Appl. Math.*, v. 51, pl. 3, pp. 427-437, 1998.
25. Potential method in the linear theory of binary mixtures for thermoelastic solids, *J. Thermal Stresses*, v. 23, No 6, pp. 601-626, 2000 (with T. Burchuladze).
26. Boundary value problems of the theory of thermoelasticity with microtemperatures, *PAMM-Proceedings in Applied Mathematics and Mechanics*, v. 3, Issue 1, pp. 188-189, 2003.
27. Steady oscillation problems in the theory of thermoelasticity with microtemperatures, *Proceedings of the* 5*th International Congress on Thermal Stresses and Related Topics*, Blacksburg, VA, v. 2, pp. TA 911-914, 2003.
28. Fundamental solutions of the equations of the theory of thermoelasticity with microtemperatures, *J. Thermal Stresses*, v. 27, No 2, pp. 151-170, 2004.
29. Fundamental solutions in the theory of micromorphic elastic solids with microtemperatures, *J. Thermal Stresses*, v. 27, No 4, pp. 345-366, 2004.
30. Fundamental solution of the system of equations of steady oscillations in the theory of fluid-saturated porous media, *Transport in Porous Media*, v. 56, No 1, pp. 39-50, 2004 (with R. de Boer).
31. Fundamental solution of the system of equations of steady oscillations in the theory of microstretch elastic solids, *Int. J. Engng. Sci.*, v. 42, No 17-18, pp. 1897-1910, 2004.
32. Fundamental solution of the system of equations of steady oscillations in the theory of thermomicrostretch elastic solids, *Int. J. Engng. Sci.*, v. 43, No 5-6, pp. 417-431, 2005 (with S. De Cicco).
33. Fundamental solution in the theory of consolidation with double porosity, *Journal of the Mechanical Behavior of Materials,* v. 16, No 1-2, 123-130, 2005.
34. Steady oscillation problems in the theory of thermomicrostretch elastic solids, *Proceedings of the* 6*th International Congress on Thermal Stresses*. Vienna, Austria, May 26-29, 2005, Vol. 1, 189-192.
35. On the representations of solutions in the theory of fluid-saturated porous media, *Quart. J. Mech. Appl. Math.*, v. 58, No 4, pp. 551-562, 2005 (with R. de Boer).
36. Fundamental solution in the theory of micropolar thermoelasticity without energy dissipation, *J. Thermal Stresses*, v. 29, No 1, pp. 57-66, 2006 (with V. Tibullo and V. Zampoli).
37. Plane waves and vibrations in the elastic mixtures, *Proceedings "WASCOM 2005"* 13*th Inter. Conference on Waves and Stability in Continuous Media*, World Scientific, Singapore, pp. 524-529, 2006.
38. Boundary integral method in the theory of bone poroelasticity, *J. Biomechanics*, v. 39, Suppl. 1, p. S468, 2006.
39. On the representations of solutions in the theory of thermoelasticity with microtemperatures, *J. Thermal Stresses*, v. 29, No 9, pp. 849-864, 2006 (with A. Scalia).
40. Basic properties of the fundamental solution in the theory of micropolar thermoelasticity without energy dissipation, *Appl. Math., Informatics and Mech.* v.11, pp. 49-63, 2006 (with P. Giordano and V.Tibullo).

41. Fundamental solution in the theory of micropolar thermoelasticity for materials with voids, *J. Thermal Stresses*, v. 30, No 3, pp. 213-229, 2007 (with M. Ciarletta, A. Scalia).
42. Fundamental solution in the linear theory of thermoviscoelastic mixtures, *European J. Appl. Math.,* v. 18, No 3, pp. 323-335, 2007 (with G. Iovane).
43. On the representations of general solution in the theory of micropolar thermoelasticity without energy dissipation, *Ukrainian Math. J.*, v. 59, No 10, pp. 1560-1568, 2007 (with V. Zampoli, P. Giordano).
44. Potential method in the theory of thermoelasticity of binary mixtures, *Proceedings of the* 7th *International Congress on Thermal Stresses,* 4-7 June, 2007, Taipei, Taiwan, pp. 273- 276.
45. Boundary value problems in the theory of binary mixtures, *PAMM-Proceedings in Applied Mathematics and Mechanics*, v. 7, Issue 1, pp. 4060061- 4060062, 2007.
46. Plane waves and vibrations in the thermoelastic mixture, *Proceedings "WASCOM 2007" 14th International Conference on Waves and Stability in Continuous Media*, World Scientific, Singapore, pp. 554-559, 2008.
47. Plane waves and eigenfrequencies in the linear theory of binary mixtures of thermoelastic solids, *J. Elasticity,* v. 92, pp. 195 - 207, 2008.
48. Boundary value problems of the theory of bone poroelasticity, *J. Biomechanics*, v. 41, Suppl. 1, p. S339, 2008.
49. Boundary value problems in the two-temperature theory of thermoelasticity of binary mixtures, In: Z. Kotulski, P. Kowalczyk, W. Sosnowski (Eds.), *Selected Topics of Contemporary Solid Mechanics, Proceedings of the 36th Solids Mechanics International Conference*, September 9-12, 2008, Gdansk (Poland), pp. 244-245, 2008.
50. Boundary value problems in the theory of binary mixtures of thermoelastic solids, *PAMM-Proceedings in Applied Mathematics and Mechanics*, vol. 8, Issue 1, pp. 10469-10470, 2008.
51. Plane waves and vibrations in the micropolar thermoelastic materials with voids, *European J. Mech., A/ Solids, v*. 28, pp. 897-903, 2009 (with M. Ciarletta and L. Buonano).
52. Fundamental solution in the theory of viscoelastic mixtures, *Journal of Mechanics of Materials and Structures*, vol. 4, No 1, pp. 139 - 156, 2009 (with S. De Cicco).
53. Potential method in the linear theory of thermoelasticity with microtemperatures, *J. Thermal Stresses, v. 32, pp. 1024 - 1042, 2009* (with A. Scalia).
54. Boundary value problems in the theory of thermoelasticity of binary mixtures with different constituent temperatures, *Proceedings of the* 8th *International Congress on Thermal Stresses,* 1-4 June, 2009, Urbana, USA, v. II, pp. 475 - 478, 2009.
55. On the linear theory of thermoelasticity with microtemperatures, *Proceedings of the* 8th *International Congress on Thermal Stresses,* 1-4 June, 2009, Urbana, USA, v. II, pp. 465 - 468, 2009 (with A. Scalia).
56. Basic theorems in the equilibrium theory of thermoelasticity with microtemperatures, *J. Thermal Stresses*, vol. 33, 721-753, 2010 (with A. Scalia and R. Tracinà).
57. Dynamical problems of the theory of elasticity for solids with double porosity, *PAMM-Proceedings in Applied Mathematics and Mechanics*, vol. 10, Issue 1, pp. 309-310, 2010.
58. Representations of solutions in the theory of thermoelasticity with microtemperatures for microstretch solids, *J. Thermal Stresses*, vol. 34, No 2, pp. 161-178, 2011 (with R. Tracinà).
59. Plane waves in the theory of thermoelasticity with microtemperatures, 9th *International Congress on Thermal Stresses,* 5-9 June, 2011, Budapest, Hungary, CD of papers.
http://ts2011.mm.bme.hu/kivonatok/Merab%20Svanadze_TS2011_1295087678.pdf
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2. Potential method in mathematical physics (10 lectures).