Personal Data (CV)

Surname	Kokilashvili	**First Name**	Vakhtang
Address (work, home)	0177 Tbilisi, Tamarashvili 6 0186 Tbilisi, Nutsubidze str., 60/15	**Date and place of birth**	01.05.1938 Tbilisi
Citizenship	Georgia	**Telephone number(s)**	2397713 (Home), 599138411 (Mob)
E-mail	kokil@rmi.ge		

3. Education

Education	Institution	Learning Time
Secondary	Tbilisi Secondary School N 7	1948-1954
Higher	Faculty of Mechanics and Mathematics	1954-1959
Postgraduate study, doctoral candidacy	Postgraduate study, A. Razmadze Mathematical Institute of Georgian Academy of Sciences	1959-1962

4. Knowledge of Languages

Foreign languages	Level of language proficiency (fluent, intermediate, beginning with the help of a dictionary)
English	Free
Germany	with help of dictionary
Russian	Free

5. Scientific or Academic Degree and Rank

	Title of the thesis	Date of conferment
Ph.D. thesis	On the coefficients of Fourier trigonometric series, approximation of functions	1963
Doctoral thesis	Singular integrals weighted Lizorkin-Triebel spaces, imbedding theorems	1981
Academician Doctor		
Professor		1985
Corresponding Member (Academician) of the Georgian National Academy of Sciences		1997
Full Member (Academician) of the Georgian National Academy of Sciences		2013

6. Work Experience

Date	Institution	Position
1963-1966	A. Razmadze Mathematical Institute	Researcher
1966-1986	A. Razmadze Mathematical Institute	Senior Researcher
1986-2001	A. Razmadze Mathematical Institute	Leading Researcher
2001-up to now	A. Razmadze Mathematical Institute	Main Researcher
1990- up to now	A. Razmadze Mathematical Institute	Head of Department of Complex Analysis, then Mathematical Analysis
1989-2006	A. Razmadze Mathematical Institute	Vice Director
2006 up to now	I. Javakhishvili Tbilisi State Universiry,	Head of Mathematical Analysis Department
2014 up to now	A. Razmadze Mathematical Institute Georgian National Academy of Sciences	Academician-Secretary of Department of mathematic and physic

6.1 Teaching Activity

Date	Institution	Position
1966-1985	I. Javakhishvili Tbilisi State University	Docent
1985-2005	I. Javakhishvili Tbilisi State University	Professor
2009-2012	I. Javakhishvili Tbilisi State University	Invited Lecturer
2006-2009	Telavi I. Gogebashvili State University	Full Professor
1996-2006	Sukhumi Branch of I. Javakhishvili Tbilisi State University	Professor
1995-up to now	International Black Sea University	Full Professor

6.2 Work Abroad

Form of activity	Date	Place and Institution
Delivering a course of lectures at foreign higher education institutions	2009 2011	Algarve University (Faro, Portugal) Lisbon Technical University (Portugal)
Long-term academic mission to research institutions	1965, 1979, 1990 2002-2004 1986, 1989, 1991, 2001, 2003 1996 1993, 1997, 2001, 2003 1995-2005	Adam Mickiewicz Poznan University, Mathematical Institute of Polish Academy of Sciences (Poland) Algarve University (Faro, Portugal) Mathematical Institute of Czech Academy of Sciences (Prague) Radgers and Washington Universities (USA) Sassex and Cardiff Universities (UK) Friedrich Schiller University (Jena, Germany)
Other		

7. Sphere of Scientific Interests

Linear and Nonlinear Harmonic Analysis, Approximation Theory, Boundary Value problems for Analytic and Harmonic Functions

8.3 Textbooks, Additional Manuals, and other Methodological Literature and Training means

Years	
2009	Calcucus I, Lecture Notes
2009	Calcucus II, Lecture Notes
2010	Differential Equations, Lecture Notes

8.5 Participation in Scientific Symposiums, Conferences for the last ten years

Years	Title	Name of Event
2004	On a progress in the theory of integral operators in weighted Banach function spaces.	Abstracts of the International Conference “Function Spaces, Differential Operators and Nonlinear Analysis” - FSDONA 2004, Svratra, Czech republic
2006	Two-weighted inequalities for classical integral operators in variable Lebesgue spaces	Workshop on Integral Operator Theory, Osaka, Japan
2006	Boundary value problems in the frame of function spaces with non-standard growth	Partial Differential Equation Conf., Tokai Univ., Japan
2007	Two-weight estimates for differential and integral operators and applications	Two-weighted Inequalities for Differential and Integral Operators, Astana, Kazachstan
2007	Harmonic analysis operators in function spaces with nonstandard growth condition	6-th ISAAC Congress, Turkey
2007	Riemann-Hilbert problem in the class Cauchy type integrals with densities from variable exponent spaces	6-th ISAAC Congress, Turkey
2008	Two weighted inequalities in variable exponent Lebesgue spaces and applications, Invited Speaker	International Conference in Function Spaces and Applications, Frayburg, Germany
2008	For Fourier Operators, Invited Speaker	International Conference in Function Spaces & Diff. Operators and Nonlinear Analysis, Helsinki, Finland
2009	Two weight Inequalities for Integral Operators, Invited Speaker	International Conference Inequalities of Analysis and Homogenization Theory, Luleo University, Sweden
2009	Methods of Nonlinear Harmonic Analysis Operators in Boundary Value Problems of Analytic and Harmonic Functions, Plenary Speaker	ISAAC Congress 7, IMPERIAL COLLEGE, London, UK
2010	Weighted Problems for Integral Operators in Some Banach Function Spaces, Plenary Speaker	International School on Nonlinear Analysis, Function Spaces and Applications, Prague, Czech Republic
2010	Three lectures on: Weighted Problems for Harmonic Analysis Operators in Some Banach	Summer School "Harmonic Analysis and Applications", Lisbon, Portugal

	Function Spaces	
2011	Variable exponent Smirnov classes and BVP in non-standard Banach Function spaces (Plenary Speaker)	An International Conference ''Integral and Differential Operators and Their Applications'' (IDOTA), Aveiro, Portugal
2011	The Fourier operators in weighted grand Lebesgue spaces	Workshop in Harmonic Analysis and its Interaction with Operator Theory. Harmonic Analysis, Inequalities and Homogenization Theory and Applications, Sevilla, Spain
2011	The Riemann boundary value problem for analytic functions within the framework of the Grand Lebesgue Space (Plenary Speaker)	A Summer School and a Workshop '' New Function Spaces and PDE's and Harmonic Analysis'', Naples, Italy
2011	New trends in BVP of analytic and harmonic functions in the domains with non-smooth boundaries	8 th International Conference in Function Spaces, Differential Operators and Nonlinear Analysis (FSDONA 8), Germany, Tabaz/Turingia
2012	Harmonic Analysis operators and approximations problems in new function spaces	International Conference "Function Spaces X", Poznan, Poland
2012	Trace inequalities criteria in grand Lebesgue spaces	Memorial Conference in Honor of M. Krbec
2013	Approximation of functions in nonstandard Banach function spaces	9th International ISAAC Congress, Krakow, Poland
2013	Calderón-Zygmund type singular integrals in weighted grand Lebesgue spaces and applications	IV Annual Conference of the Georgian Mathematical Union, Batumi, Georgia

9. Organizational Work (Holding of Congresses and Conferences, Editorial Work)

Years	Name
2003	Internationa Conference Modern Aspects in Function Spaces, Differential Operators and Nonlinear Analysis, Tbilisi, Georgia
2005	International School and Workshop on Function Spaces, Integral Transforms and Applications in PDE, Tbilisi, Georgia
2008	Workshop "Variable Exponent Analysis and Related Topics", Tbilisi, Georgia
1989-up to now	Chief-Editor of Proceedings of A. Razmadze Mathematical Institute

11. International and Local Scientific grants

Years	Name
1998	EPRSC (UK) No Jr. 33 034/01
2007	NATO-TUBITEK 4 181
1997-1999	Grant of Georgian Academy of Sciences N 1.7
2000-2001	Grant of Georgian Academy of Sciences N 1.7
2002-2003	Grant of Georgian Academy of Sciences N 1.7.02
2004-2005	Grant of Georgian Academy of Sciences N 1.7.04
2006-2008	GNSF/ST06/3-010
2006-2008	INTAS Grant No: 06-1000017-8792
2005-2008	INTAS Grant No: 05-1000008-8157
2008-2010	GNSF/ST07/3-169
2010-2012	GNSF/ST09_23_3-100
2012-2015	Shota Rustaveli National Science Foundation Grant Contract N D-13/23)
2013-2016	Shota Rustaveli National Science Foundation Grant Contract N 31/47)

13. Other Activities

Date	Name	Years
Supervision of Theses and Masters work	1. Potential type integrals and maximal functions in weighted spaces	1986
	2. Fractional maximal functions and potentials in weighted spaces	1988
	3. Generalized maximal functions in	

	fractional integrals	1990
	4. Metric and approximate properties of Fourier series in weighted function spaces	1996
	5. Two-weighted problems for discrete operators	1998
	6. Two-weight inequalities for singular integrals defined on homogeneous groups	1998
	7. Boundedness and compactness criteria for potential type operators	2001
	8. Some problems of Fourier analysis and ergodic theory	2003
	9. Fourier multipliers and maximal functions	2005
	10. Fourier operators in Lebesgue spaces with nonstandard weights	2005
Ambassador of ICM2014 (Seoul, August 13-21, 2014, Corea)		2014

14. Awards and Prizes, Honorary Title

Date	Name of Awards, Prizes, Honorary Title
1985	Andrea Razmadze Prize of Georgian National Academy of Sciences

15. Family Status

Married, Wife, 2 children, 4 grandchildren

Publications

(i) monographs:

1. **V. Kokilashvili**, Maximal functions and singular integrals in weighted function spaces. (Russian) *Metsniereba, Tbilisi*, 1985, pp. 114.
2. **V. Kokilashvili** and M. Krbec, Weighted inequalities in Lorentz and Orlicz spaces. *World Scientific*, 1991.
3. I. Genebashvili, A. Gogatishvili, **V. Kokilashvili**, and M. Krbec, Weight Theory for Integral Transforms on Spaces of Homogeneous Type. *Pitman Monographs and Surveys in Pure and Applied Mathematics.* Addision Wesley Longman 1998, 234 pages.
4. G. Khuskivadze, **V. Kokilashvili** and V. Paatashvili, Boundary Value Problems for Analytic and Harmonic Functions in Domains width Non-Smooth Boundaries. Applications to Conformal Mappings. *Mem. Differential Equations Math. Phys.* **14 (**1998), 1-195.
5. D. E. Edmunds, **V. Kokilashvili**, and A. Meskhi, Bounded and compact integral operators. Mathematics and its Applications, 543. *Kluwer Academic Publishers, Dordrecht,* 2002.
6. **V. Kokilashvili,** A. Meskhi and L. E. Persson, Weighted Norm Inequalities for Integral Transforms with Product Kernels. *Nova Science Publishers*, *New-York*, USA, 2009.
7. **V. Kokilashvili** and V. Paatashvili, Boundary Value Problems for Analytic and Harmonic Functions in Nonstandard Banach Function Spaces. *Nova Science Publishers, New-York, USA*, 2012.
8. **V. Kokilashvili**, A. Meskhi, S. Samko, and H. Rafeiro, Integral operators in non-standard function spaces. Vol. I. Variable exponent Lebesgue and Amalgam spaces. *Birkhhäuser*, 2016, pp. 1-576.
9. **V. Kokilashvili**, A. Meskhi, S. Samko, and H. Rafeiro, Integral operators in non-standard function spaces. Vol. II. Variable exponent Hölder, Morrey-Campanato and Grand spaces. *Birkhhäuser*, 2016, pp. 577-1005.

(ii) papers:

1. Some remarks concerning Fourier coefficients and function classes. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **28** (1962), No. 1, 3-8.

2. On best approximation of functions and Fourier-Lebesgue coefficients. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **30** (1963), No. 3, 265-275.
3. On generalized lacunary Fourier series. (Georgian) *Soobshch. Akad. Nauk Gruzin. SSR* **31** (1963), No. 2, 257-262.
4. On converse theorem of constructive theory of functions in L_p spaces. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **29** (1964), 183-189.
5. On some function space and Fourier coefficients. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **35** (1964), No. 3, 523-530.
6. On estimate of best approximations and modulus of smoothness in Lebesgue spaces of periodic functions with transformed Fourier series. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **35** (1964), No. 1, 3-8.
7. Best approximations by trigonometric polynomials in Orlicz spaces and Fourier-Lebesgue coefficients. *Bull. Acad. Polon. Sci., Ser. Math.* **13** (1965), No. 5, 357-362.
8. Best approximation of functions by Walsh polynomials and Walsh-Fourier coefficients. *Bull. Acad. Polon. Sci., Ser. Math.* **13** (1965), No. 6, 405-410.
9. On some properties of conjugate functions of two variables. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **40** (1965), No. 2, 263-270.
10. On relation between Fourier-Lebesgue coefficients and modulus of continuity of functions of two variables. (Russian) *Trudy Tbiliss. Univ.* **110** (1965), 247-254.
11. The converse theorem of constructive theory of functions in Orlicz spaces. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **37** (1965), No. 2, 263-270.
12. On approximation of periodic functions by certain linear operators. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **43** (1966), No. 2, 257-260.
13. On approximation of functions. (Russian) *Abstracts of International Congress of Math., Section* 4, *Moscow*, (1966), 57.
14. On structure and constructive characteristics of certain class of periodic functions. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **43** (1966), No. 1, 3-8.
15. On proximate order of best approximations of analytic functions by generalized-lacunary series with respect to Faber polynomials. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **41** (1966), No. 3, 529-534.
16. On approximation of periodic functions in Orlicz spaces. *Bull. Acad. Polon. Sci., Ser. Math.* **14** (1966), 2, 305-310.
17. On mean approximation of analytic functions from E_p classes. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **47** (1967), No. 1, 3-6.
18. *On mean approximation of analytic functions from E_p classes. (Russian) *Dokl. Akad. Nauk SSSR* **117** (1967), No. 2, 261-264.
19. On approximation by Walsh-Fourier means. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **45** (1967), No. 2, 305-310.
20. On summability of Fourier series by ultraspherical polynomials and best approximations. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **58** (1967), No. 1, 3-6.
21. *On analytic functions of Smirnov-Orlicz classes. *Studia Math.* **31** (1968), 152-174.
22. On approximation of periodic functions. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **34**(1968), 51-81.
23. On approximation of analytic functions from E_p classes. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **34** (1968), 82-102.

24. *The direct theorem on mean approximations of analytic functions. (Russian) *Dokl. Akad. Nauk SSSR* **185** (1969), 749-752.
25. On multipliers and decomposition of series by polynomial solutions of elliptic type differential equations. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **56** (1969), No. 1, 25-28.
26. On mean approximation of regular solutions of elliptic type differential equations. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **56** (1969), No. 3, 529-532.
27. On boundedness of singular integral operators in L_p spaces with weight. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **64** (1971), No. 1, 17-20.
28. On boundedness of singular integral operators in weighted spaces. (Russian) *In: Proc. of Symposium on Continuum Mechanics and Related Problems of Analysis* (Tbilisi, 23-29. IX. 1971), vol. **1**, *Metsniereba, Tbilisi*, 1973, 125-141.
29. On conjugate functions. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **68** (1972), No. 3, 537-540.
30. On coefficients of power series and Fourier series. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **42** (1972), 78-86.
31. On multipliers and decomposition of trigonometric Fourier series. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **43** (1973), 87-110.
32. On boundary properties of functions of certain classes. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **43** (1973), 72-86.
33. On boundedness of singular operators with Cauchy kernels in weighted spaces. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **77** (1975), No. 3, 529-532.
34. On boundedness of some translation invariant operators. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR*, **47** (1975), 14-33.
35. *On multipliers of Fourier transforms. (Russian) *Dokl. Akad. Nauk SSSR* **220** (1975), No. 1, 19-22.
36. *On singular integrals and maximal operators with Cauchy kernel. (Russian) *Dokl. Akad. Nauk SSSR* **223** (1975), No. 3, 555-558.
37. *On boundary problem of linear conjugation with measurable coefficients. (Russian) *Dokl. Akad. Nauk SSSR* **224** (1975), No. 5, 1008-1011(with V. Paatashvili).
38. *On multipliers of Fourier transforms and imbedding theorems in some function spaces. (Russian) *Mat. Zametki* **20** (1976), No. 4, 605-610.
39. On singular integrals and multipliers of Fourier transforms. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **53** (1976), 38-61.
40. On boundary value problems of linear conjugation with measurable coefficients. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **55** (1977), 59-22 (with V. Paatashvili).
41. On maximal singular integral operator with Cauchy kernel. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **55** (1977), 38-58.
42. *Maximal inequalities and multipliers in weighted Lizorkin-Triebel spaces. (Russian) *Dokl. Akad. Nauk SSSR* **239** (1978), No. 1, 42-45 (English transl.: *Soviet Math. Dokl.* **19** (1978), 272-276).
43. On traces of functions with partial derivatives from Orlicz classes. *Comment. Math. Tomus spec. in hon. Ladislai Orlicz PWN, Polish Akad. Sci., Warcaw*, 1978, 183-189.

44. On weighted inequalities for singular integrals with Cauchy kernel on smooth contours. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **90** (1978), No. 3, 537-540.
45. Boundary value problems with measurable coefficients for one class of boundary curves. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **91** (1978), No. 1, 25-27 (with V. Paatashvili).
46. Bessel anisotropic potentials and imbedding theorems for limiting index. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **58** (1978), 134-149.
47. On Calderon type singular integrals. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **61** (1979), 5-14.
48. On some integral operators in weighted spaces. (Russian) In: *Shkoli po teorii oper. v funct. prostr. Izd. Novosibirs. univ., Novosibirsk*, 1979, 1-20.
49. On Hardy inequalities. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **96** (1979), No. 1, 39-40.
50. Maximal functions in weighted spaces. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **65** (1980), 110-121.
51. Weighted inequalities for maximal functions with respect to Vitali regular family. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **98** (1980), No. 3, 545-547.
52. Weighted inequalities for maximal functions with respect to Vitali regular family. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin.SSR* **66** (1980), 36-45.
53. On multiple Hilbert transforms and multipliers in weighted spaces. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **98** (1980), No. 2, 285-288.
54. *Discontinuous problem of linear conjugation and singular integral equations. (Russian) *Differentsial'nye Uravneniya* **16** (1980), No. 9, 1650-1659 (with V. Paatashvili). (English transl.: *Diff. Equat.* **16** (1980), No. 9, 1067-1075).
55. Bisingular integral operators in weighted spaces. (Russian) *Soobshch. Akad. Nauk Gruzin. SSR* **101** (1981), No. 2, 289-282.
56. Singular integral operators in weighted spaces. In: *Colloquia Math. Soc. J. Boyai* **35**, *Functions, Series, Operators. Budapesht*, 1980, 707-714.
57. On weighted Lizorkin-Triebel spaces. Singular integrals, multipliers, imbedding theorems. (Russian) *Trudy Mat. Inst. Steklov.* **161** (1983), 125-149. (English transl.: *Proc. Steklov Inst. Mat.* **3** (1984), 135-162.)
58. On singular and bisingular integral operators in weighted spaces. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **69** (1982), 51-79.
59. On traces for weighted anisotropic Lizorkin-Triebel spaces. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **73** (1983), 88-98.
60. Anisotropic maximal inequalities with weights. In: *Proc. Conf. Constr. Theory of functions'84, Sofia*, 1984, 473-478 (with J. Rakosnik).
61. On the boundedness of Riesz potentials and fractional maximal functions. In: *Proc. Conf. Constr. Theory of functions'84, Sofia*, 1984, 470-472.
62. *Weighted inequalities for Riesz potentials and fractional maximal functions in Orlicz spaces. *Soviet Math. Dokl.* **32** (1985), No. 1, 70-73 (with M. Krbec).
63. Weighted norm inequalities for anisotropic maximal functions. *Casopis pro pest. math.* **110** (1985), 384-393.
64. *Weighted norm inequalities for vector-valued anisotropic maximal functions. *Zeitshrift für Analysis und ihre Anwendungen*, Bd. **4** (1985), No. 6, 503-511 (with J. Rakosnik).

65. *Weighted inequalities for anisotropic potentials and maximal functions. (Russian) *Dokl. Akad. Nauk SSSR* **282** (1985), No. 6, 1304-1306 (English transl.: *Soviet Math. Dokl.* **31 (**1985), No. 1, 583-585) (with M. Gabidzashvili).
66. Weighted inequalities for some integrals transforms. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **76** (1985), 100-106.
67. Maximal functions and potential type integrals in weighted Lebesque and Lorentz spaces. (Russian) *Trudy Mat. Inst. Steklov* **172** (1985), 192-201. (English transl.: *Proc. Steklov Inst. Mat.* **172**(1987), No. 3).
68. On boundedness of anisotropic fractional maximal functions and potentials in weighted Orlicz spaces. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **82** (1986), 106-115.
69. *Weighted inequalities for maximal functions and fractional integral in Lorentz spaces. *Math. Nachr.* **133** (1987), 33-42.
70. Anisotropic maximal functions and potentials in weighted Lorentz spaces. (Russian) *Trudy Math. Inst. Steklov* **180** (1987), 136-138; *English transl.: Proc. Steklov Inst. Mat.* **3** (1989) , 159-161.
71. Weighted estimates for maximal functions and fractional integrals in Lorentz spaces. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk Gruzin. SSR* **86** (1987), 74-85. (English transl. in: *Integral Operators and Boundary Properties of functions. Fourier Series. Nova Science Publishers. Inc.*, 101-117).
72. Singular integral in weighted Orlicz classes. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze* **89** (1988), 42-50.
73. Singular integral in weighted Orlicz classes. (Russian) *Trudy Tbiliss. Mat. Inst. Razmadze Akad. Nauk. Gruzin. SSR* **89** (1988), 42-50.
74. Fractional integrals on spaces of homogeneous type. *Comment. Math. Univ. Carolinae* **30** (1989), No. 3, 511-523 (with A. Kufner).
75. Fractional integrals on curves. *Trudy Tbiliss. Mat. Inst. Razmadze* **95** (1989), 56-70.
76. *Potentials on thin sets. (Russian) *Dokl. Akad. Nauk SSSR* **301** (1989), No. 5, English transl.: *Soviet Math. Dokl.* **40** (1990), No. 2, 400-402.
77. Weighted estimates for classical integral operators. *In: Proceedings of the International Spring Scool: ``Nonlinear Analysis, Function Spaces and Applications IV", Roudnice nad Labem Czechoslovakia,* 1990, May 21-25, *Tcubner-Texte zur Mathematik, Teubner Verlag, Leipzig* , 1990, 86-103.
78. On a weight problem for integrals with positive kernels. *Bull. Georg. Acad. Sci.* **140** (1990), No. 3, 145-148.
79. *Weighted estimates for fractional integrals on curves. (Russian) *Dokl. Akad. Nauk SSSR* **310** (1990), No. 1, 14-17; English transl.: *Soviet Math. Dokl.* **41** (1990), 5-7 (with M. Gabidzashvili).
80. On a weight problem for integrals with positive kernels. *Bull. Georgian Acad. Sci.* **140** (1990), No. 3, 145-148.
81. A two weight weak type inequality for potential type operators. *Comment. Math. Univ. Carolinae* **32** (1991), No. 2, 251-263 (with J. Rakosnik).
82. Potentials on thin sets. (Russian) *In: ``Function Spaces and Appl. Diff. Equat.'' Izd. Univ. Druzbi Narodov, Moskva*, 1992, 25-47.
83. Two-weight inequalities for generalized potentials. *Trudy Mat. Inst. Steklov* **194** (1992), 89-96; English transl.: *Proc. Steklov Inst. Mat.* 1993, No. 4, 91-99 (with M. Gabidzashvili, I. Genebashvili).
84. Potentials on thin sets. (Russian) *In: ``Function Spaces and Appl. Diff. Equat.'' Izd. Univ. Druzbi Narodov, Moskva*, 1992, 25-47.
85. Solution of some weight problems. *In: ``Function Spaces, Differential Operators and Nonlinear Analysis''. Teubner-Texte zur Mathematik* **133** , 264-273, *Teubner-Verlag, Leipzig*, 1993.

86. Riesz potential in weighted Lorentz spaces. *In: Continuum Mechanics and Related Problems of Analysis. Proc. Int. Symp. Metsniereba Publishing House, Tbilisi* , 1993, 382-389.
87. Weighted norm inequalities for fractional maximal functions and integrals defined on homogeneous type spaces. *Proc. A. Razmadze Math. Inst.* **106**(1993), 63-76 (with J. Genebashvili).
88. *Two-weight estimates for multipliers, and imbedding theorems. (Russian) *Dokl. Akad. Nauk* **336** (1994), No. 4, 439-441; English transl.: *Russian Acad. Sci. Dokl. Math.* **49** (1994), No. 3, 515-519 (with P. I. Lizorkin).
89. *Two-weighted estimates for some integral transforms in Lebesgue spaces with maxed norm and imbedding theorems. *Georgian Math. J.* **1** (1994), No. 5, 495-503.
90. *Two-weight inequalities for singular integrals. *Canad. Bull. Math.* **38** (1995), No. 3, 295-303 (with D. E. Edmunds).
91. New aspects in weight theory. *In: Function Spaces, Differential Operators and Nonlinear Analysis. Prometeus Publishing House, Prague*, 1996, 51-70.
92. *Weighted inequalities for Hilbert transforms and multiplicators of Fourier series. *J. Inequalities and Applications* **1** (1997), No. 3, 239-252 (with A. Meskhi).
93. Two-weight inequalities for singular integrals defined on homogeneous groups. *Proc. Razmadze Math. Inst.* **112** (1997), 57-90 (with A. Meskhi).
94. *Two-weight inequalities for singular integrals on homogeneous groups. (Russian) *Dokl. Akad. Nauk* **354** (1997), No. 3, 301-303 (with A. Meskhi).
95. *On the Riemann-Hilbert problem in the domain with non-smooth boundary. *Georgian Math. J.* **4** (1997), No. 3, 279-302 (with V. Paatashvili).
96. Two-weighted inequalities for Hardy type operator on Lorentz spaces defined on homogeneous groups. *Proc. A. Razmadze Math. Inst.* **112** (1997), 138-140 (with and A. Meskhi).
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