

List of scientific works

TSERODZE SHOTA

(Surname, Name)

N ^o N ^o	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
1.	Patent USSR No. 293086 for the invention: "Folding reflector for a mirror antenna." Application No. 3190059, priority: 12/23/87.		State USSR Committee on Affairs inventions and discoveries.	4 p.	E. Medzmariashvili, T. Loladze, A. Savin, Y. Danilov, M. Zakson, L. Datashvili, Z. Gogava.
2.	Patent USSR No. 298726 for the invention: "Folding reflector frame" application No. 3192005, priority: 02.11.88.		State USSR Committee on Affairs inventions and discoveries.	5 p.	E. Medzmariashvili
3.	Paten USSR No. 1802661 for the invention: "Folding reflector frame." Application No. 3192005, priority: 02/11/88.		State USSR Committee on Affairs inventions and discoveries.	3 p.	E. Medzmariashvili
4.	"Large-sized high-precision deployable antennas" - comprehensive study on the justification and search for rational ways to create large-sized structures and their elements.	Printed	SKB at GPI, Tbilisi, 1988, (inv. No. 106)	20 p.	E. Medzmariashvili
5.	"Advanced Developments of Large Deployable Reflectors."	Printed	Collection of scientific works of SKB No. 1, "Transformable structures", Tbilisi, 1988.	266 p.	E. Medzmariashvili L. Datashvili, Z. Gogava

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co-author
1	2	3	4	5	6
6.	Transformable structures	Printed	Book. Ministry of Public Education of the GSSR. Collection of Proceedings No. 1. SKB. Tbilisi 1988	283 p.	Under general editorship
7	“Framework for a mirror antenna reflector” - comprehensive study on the justification and search for rational ways to create large-sized structures and their elements.	Printed	SKB at GPI, Tbilisi, 1989, (inv. No. 128)	18 p.	E. Medzmariashvili
8.	Patent USSR No. 1807824 for the invention: “Folding parabolic reflector” application No. 4524536, priority: 12/22/89		State USSR Committee on Affairs inventions and discoveries.	4 p.	E. Medzmariashvili
9.	Patent USSR No. 1809724 for the invention: “Folding parabolic reflector” application No. 4526572, priority: 12.28.89.		State USSR Committee on Affairs inventions and discoveries.	5 p.	Z. Gogava

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	Printed or handwrit ten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
10.	“Folding reflector frame” - comprehensive study on the justification and search for rational ways to create large-sized structures and their elements.	Printed	SKB at the State Polytechnic Institute, Tbilisi, 1990, (inv. No. 75)	23 p.	E. Medzmariashvili
11.	“Large space structures of radio telescopes with adjustable surfaces.”	Printed	Scientific and technical conference “Large space structures”, Sevastopol, USSR, 1990.		L. Datashvili, Z. Gogava
12.	Paten SSR No. 1797152 for the invention: “folding reflector” application No. 4876004, priority: 10.17.90.		State USSR Committee on Affairs inventions and discoveries.	4 p.	E. Medzmariashvili
13.	Paten USSR No. 1787368 for the invention: “Design of protection against hail” priority: 07/09/90		State USSR Committee on Affairs inventions and discoveries.	3 p.	Z. Gogava

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
14.	Patent USSR No. 1809935 for the invention: "Folding reflector frame", priority: 07/08/93.		State USSR Committee on Affairs inventions and discoveries.	5 p.	E. Medzmariashvili, Z. Gogava
15.	Patent document #602 for the invention "Expandable reflector" priority 09.08.93		National Intellectual Property Center of Georgia "SAKPATENTI"	4 p.	E. Medzmariashvili, M. Djanikashvili, T. Chalaure, M. Nikoladze and others
16.	„Engineering Constructions of Concentrators, Power Transmitting & Receiving Antennas & Solar Batteries Large Squares for Space Electric Station”	Printed	"Fourth European Space Power Conference" Poitiers, France. 4-8 Sept. 95.	8 p.	E. Medzmariashvili, L. Datashvili, G. Bedukadze.
17.	Patent deed p2160 for the invention "Deployable reflector" valid 16.06.98		National Intellectual Property Center of Georgia "SAKPATENTI"	5 p.	E. Medzmariashvili, L. Datashvili, M. Djanikashvili, N. Tsighnadze, and others
18.	Determination of the critical relationship between the tensile forces of the radial petals and ropes in a deployable two-zone reflector.	Printed	"Problems of applied mechanics", No. 1. Tbilisi, 2000.	4 p.	-

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
19.	Determination of the parameters of the approximating paraboloid of the offset antenna using the least squares method.	Printed	“Problems of Applied Mechanics”, No. 3(4). Tbilisi, 2001.	3 p.	-
20.	Geometry and analytical study of the surface of an offset reflector	Printed	“Problems of Applied Mechanics”, No. 4(5). Tbilisi, 2001.	6 p.	E. Medzmariashvili, K. Chkhikvadze, A. Sarchimelia, L. Datashvili
21.	Theoretical assessment of the upper limit of the standard deviation (RMS) of the reflecting surface of the offset reflector for a grid with different cell sizes and assignment of points on the antenna surface for further experimental verification of the standard deviation.	Printed	“Problems of Applied Mechanics”, No. 4(5). Tbilisi, 2001.	4 p.	E. Medzmariashvili, M. Djanikashvili, K. Chkhikvadze, A. Sarchimelia,
22.	Development and modeling analysis of the boom structure of a large deployable reflector	Handwritten	Scientific Research Report №2001/011/LDR the orderer – “Alenia Aerospazio”, performer “Energia EGS” and Institute of Space Constructions of Georgia , Tbilisi 2001.	12 p.	L. Datashvili, A. Sarchimelia

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

N ^o N ^o	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
23.	Determination of the parameters of the approximating paraboloid of the offset antenna using the least squares method	Handwritten	Research report. Institute of Space Constructions of Georgia. No. 2001/04 LDR. Tbilisi 2001	8 p.	-
24.	Determination of the standard deviation of the mesh surface relative to the theoretically specified and "BEST FIT" paraboloids of the offset antenna	Handwritten	Research report. Institute of Space Constructions of Georgia. No. 2001/05 LDR. Tbilisi 2001	23 p.	-
25.	Determination of the RMS of the offset antenna mesh surface relative to a theoretical paraboloid.	Printed	"Problems of Applied Mechanics" No. 2(7). Tbilisi, 2002.	3 p.	-
26.	A technique for manufacturing a reflective surface and its attachment to a large-sized space reflector.	Printed	"Problems of Applied Mechanics" No. 2(7). Tbilisi, 2002.	4 p.	-
27.	Determination of the standard deviation of the RMS of the offset antenna mesh surface relative to the approximating ("best fit") paraboloid.	Printed	"Problems of Applied Mechanics", No. 2(7). Tbilisi, 2002.	3 p.	-

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

N ^o N ^o	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
28.	Calculation of the stress-strain state of the radial rib of a large space reflector using the finite element method.	Printed	“Problems of Applied Mechanics”, No. 3(8), Tbilisi, 2002.	3 p.	-
29.	New super-lightweight bent-rod membrane structures with adjustable shaping structures.”	Printed	“Problems of Applied Mechanics” No. 3(8), Tbilisi, 2002.	4 p.	-
30.	The design of a large-sized space reflector obtained by the synthesis of ring and ribbed-umbrella systems.	6 Printed	“Problems of Applied Mechanics”, No. 3(8). Tbilisi, 2002.	3 p.	E. Medzmariashvili
31.	A method for increasing the rigidity of an inflatable structure and an inflatable structure followed by increasing rigidity #16458, 18.02.2002		National Intellectual Property Center of Georgia “SAKPATENTI”	12 p.	L. Datashvili, E. Medzmariashvili, H. Baier, N. Tsighnadze,
32.	Special general course of engineering and construction art	Printed	Under the general editorship of the Elguja Medzmariashvili, Tbilisi 2005.	838 p.	A group of authors

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
33.	Some peculiarities of the creation of deployable ring-shaped space antenna reflectors using flexible rods and ropes	Printed	28th ESA Antenna Workshop ESTEC, Noordwijk, The Netherlands, 2005.	11 p.	E. Medzmariashvili, V. Gogilashvili, A. Sarchimelia, K. Chkhikvadze, N. Siradze, G. Bedukadze.
34.	Collapsible bridge Patent P4814, Valid from 2005. 12. 16- ღაბ		National Intellectual Property Center of Georgia “SAKPATENTI”	18 p.	E. Medzmariashvili, G. Bedukadze, N. Tsignadze, and others
35.	A NEW DESIGN VARIANT OF THE LARGE DEPLOYABLE SPACE REFLECTOR	Printed	Earth & Space 2006 League City/Houston, Texas, USA, 2006.	8 p.	E. Medzmariashvili, N. Tsignadze, M. Sanikidze, L. Datashvili, A. Sarchimelia, K. Chkhikvadze, N. Siradze, G. Bedukadze.
36.	A new design of the cell of pressure chambers with improved temperature field for synthesis of diamonds	Printed	Georgian Technical University. GFID, GEN, №2, 2006.	7 p.	N. Loladze, Y. Dzidzishvili And other.
37.	Deployable space offset reflector.	Printed	30th ESA antenna workshop on Antennas for Earth Observation, Science, Telecommunication and Navigation Space Missions. May 27th to 30th, 2008. Netherlands.	5 p.	E. Medzmariashvili, N. Tsignadze, L. Datashvili, G. Medzmariashvili.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
38.	New space reflex structure	Printed	International scientific journal "Problems of mechanics" Tbilisi, №1(30)/2008 p. 24-30, (Eng.).	7 p.	E. Medzmariashvili, N. Siradze, A. Sarchimelia, And other.
39.	Structure and kinematics of reflector's transformed mechanical systems	Printed	International scientific journal "Problems of mechanics" Tbilisi, №3(32)/2008 p. 23-33, (Eng.).	11 p.	E. Medzmariashvili, V. Gogilashvili, And other.
40.	Fundamentals of mathematical analysis of the reflective surface of offset parabolic antennas.	Printed	Approved by the Executive Council of the Committee of the International Federation for the Promotion of Sciences of Machines (IFTToMM) of Georgia. Tbilisi 2009.	81 p.	-
41.	Large deployable space reflectors' logic of design	Printed	5th ESA Workshop on Millimetre Wave Technology and Applications and 31 st ESA Antenna Workshop. May 18th to 20th, 2009. The Netherlands.	6 p.	E. Medzmariashvili, N. Tsignadze, V. Medzmariashvili.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
42.	Large Deployable Reflector Configuration for Spacebased Applications in Telecommunications, Science and Remote Sensing	Printed	Proceedings of International Scientific Conference "Advanced Lightweight Structures and Reflector Antennas". October 2009. Tbilisi Georgia, p. 75-82.	8 p.	Van 't Klooster, C.G.M. E. Medzmariashvili, N. Tsignadze And other.
43.	New Types of High-Precision Deployable Space Reflectors	Printed	Proceedings of International Scientific Conference "Advanced Lightweight Structures And Reflector Antennas". 14-16 October 2009. Tbilisi Georgia, p. 111-116.	6 p.	E. Medzmariashvili, N. Tsignadze And other.
44.	Structure and Kinematical Synthesis of Transformed Systems Mechanisms.	Printed	Proceedings of International Scientific Conference "Advanced Lightweight Structures And Reflector Antennas" 14-16 October 2009. Tbilisi Georgia, p. 117-126.	10 p.	V. Gogilashvili, E. Medzmariashvili, M. Sanikidze, N. Tsignadze.
45.	Best Fit Paraboloid's Parameters Definition by Method of Least Squares	Printed	Proceedings of International Scientific Conference "Advanced Lightweight Structures And Reflector Antennas". 14-16 October 2009. Tbilisi Georgia, p. 309-317.	9 p.	-

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
46.	Structure and kinematics of mechanical systems of large-scale deployable antenna	Printed	Scientific and technical journal of construction №2(13), 2009	10 p.	E. Medzmariashvili, N. Tsignadze, N. Siradze And others.
47.	New variant of the deployable ring-shaped space antenna reflector	Printed	IOS Press, "Space Communications", An International Journal, Impact Factor: 0.08, №1 (22), pp. 41-48. 2009.	8 p.	E. Medzmariashvili, V. Gogilashvili and oth.
48.	Spatial double Conical ring-shaped reflector concepts for space based application	Printed	Proceedings of InterNational Scientific Conference "32 ESA antenna workshop". 5-8 October 2010. The Netherlands.	10 p.	Van't Klooster, J. Chapodze, And others.
49.	Structural analysis of the Spatially transformable System mechanisms.	Printed	International scientific journal "Problems of mechanics" Tbilisi, №2(39)/2010	8 p.	V. Gogilashvili, E. Medzmariashvili, L. Filipenko And other.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
50.	Structure and kinematical analysis of transformable force ring	Printed	International scientific journal "Problems of mechanics" Tbilisi, №4(41)/2010	10 p.	V. Gogilashvili, E. Medzmariashvili, E. Logachev And other.
51.	Spatial double Conical ring-shaped reflector for space application	Printed	Proceedings of InterNational Scientific Conference "Challenging for Space Antenna Systems". 18-21 October 2011. The Netherlands.	9 p.	E. Medzmariashvili, J. Santiago-Prowald, Van't Klooster, E. Logacheva.
52.	12 Meter deployable reflector antenna	Printed	Proceedings of InterNational Scientific Conference "Challenging for Space Antenna Systems". 18-21 October 2011. The Netherlands.	11 p.	E. medzmariashvili, O. Tusishvili, N. Tsignadze And others.
53.	Structur of space reflector force ring	Printed	International scientific journal "Problems of mechanics" Tbilisi, №2(43)/2011	10 p.	E. Medzmariashvili, M. Nikoladze, E. Logachev, And other.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
54.	Construction of transformable biconical power ring	Printed	Collection of scientific works. International scientific conference dedicated to the memory of Academician T. Loladze. Tbilisi October 24-27. 2011	11 p.	J. Santiago-Prowald, I. Gobejishvili, G. Tabagari, And others.
55.	Mechanical supporting ring structure	Printed	Proceedings of InterNational Scientific Conference "Workshop on large deployable antennas". 2-3 October 2012. The Netherlands.	6 p.	E. Medzmariashvili, J. Santiago-Prowald, Van't Klooster, And others.
56.	Design of reflector with double pantograph and flexible center	Printed	Proceedings of InterNational Scientific Conference "Workshop on large deployable antennas". 2-3 October 2012. The Netherlands.	7 p.	E. Medzmariashvili, J. Santiago-Prowald, Van't Klooster, H. Baier.
57.	The structure of conical reflector with v-fold bar's deployable ring	Printed	Proceedings of InterNational Scientific Conference "Workshop on large deployable antennas". 2-3 October 2012. The Netherlands.	10 p.	E. Medzmariashvili, N. Tsignadze, O. Tusishvili, J. Santiago-Prowald, H. Baier, L. Scialino, C. Mangelot

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
58.	Conical reflector deployable ring structure with v-fold bars	Printed	International scientific journal "Problems of mechanics" Tbilisi,, №4(49)/2012	10 p.	E. Medzmariashvili, N. Tsignadze, J. Santiago-Prowald And other.
59.	Mechanical Supporting Ring Structure	Printed	CEAS Space Journal of European Aerospace Societies. CEAS Space Journal: Volume 5, Issue 3 (2013), Page 185-194. http://link.springer.com/a rticle/10.1007/s12567- 013-0035-8	10 p.	E. Medzmariashvili, O. Tusishvili, N. Tsignadze, J. Santiago Prowald, C.G.M. van 't Klooster, N. Medzmariashvili
60.	On structural analysis and synthesis of transformable systems with regular elements	Printed	International scientific journal of IFToMM "Problems of Mechanics", ISSN 1512- 0740. Tbilisi, 2013, № 4(53), pp. 68-75.	8 p.	V. Gogilashvili, M. Sanikidze, O. Tusishvili, M. Nikoladze, L. Filipenko, A. Tsiklauri.
61	Diagrams stiffness characteristics in cross- section of deployable pantograph systems in transformation process	Printed	International scientific journal of IFToMM "Problems of Mechanics", ISSN 1512- 0740. Tbilisi, 2013, №4 (53), pp. 93-98.	6 p.	N. Tsignadze, O. Tusishvili, M. Nikoladze, A. Chaphodze, N. Medzmariashvili, A. Gudushauri.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
62.	New design of a transformable mechanical cone system with v-folding rods	Printed	Proceedings of International Scientific Conference “Advanced lightweight structures and reflector antennas”, October 1-3, 2014, Tbilisi.	7 p.	J. Santiago Prowald, V. Gogilashvili, K. Chkhikvadze, N. Tsignadze, A. Chapodze, M. Nikoladze.
63.	New property of a closed-chain system with V-folding rods	Printed	International scientific journal of IFToMM “Problems of Mechanics”, ISSN 1512-0740. Tbilisi, 2015, № 2(59), pp. 13-19.	7 p.	V. Gogilashvili, M. Nikoladze, N. Tsignadze, T. Chalauri.
64.	Analysis of new design of a transformable mechanical conical system with V-folding rods	Printed	International scientific journal of IFToMM “Problems of Mechanics”, ISSN 1512-0740. Tbilisi, 2015, №2 (59), pp. 31–36.	6 p.	M. Nikoladze, K. Chkhikvadze, T. Chalauri.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
65	Analysis of critical and system transformation resistance forces in straight deployable spatial element from longitudinal stability condition". International scientific journal of IFToMM	Printed	International scientific journal of IFToMM "Problems of Mechanics", ISSN 1512-0740. Tbilisi, 2015, № 3(60), pp. 12-17.	6 p.	M. Nikoladze, E. medzmariashvili, N. Tsignadze, M. Sanikidze, A. Chapodze, A. Gudushauri
66.	Theoretical investigation of transformable space reflector mechanical system	Printed	VI annual Meeting of the Georgian Mechanical Union. Tbilisi, 29.09 - 04.10 2015.	9 p.	M. Nikoladze
67.	Definition of interdependencies of forces acting on transformable pantograph ring for different variants of kinematical schemes of deployment (Part 1).	Printed	International scientific journal of IFToMM "Problems of Mechanics", ISSN 1512-0740. Tbilisi, 2015, № 4(61), pp. 32-37.	6 p.	E. medzmariashvili, A. Sarchimelia, N. Tsignadze, M. Nikoladze, T. Chalauri.
68.	The influence of some physical and mechanical properties of the diamond composite materials on the efficiency of the diamond processing	Printed	Engineering news of Georgia, #3, 2015, pp. 55-58.	4 p.	Z. Avalishvili, M. Tserodze, I. Dzidzishvili, N. Loladze.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
69.	Mechanical support ring structure		US9153860(B2) 2015-10-06 European patent has also been issued	35 p.	J. Santiago-provald, E. Medzmariashvili, N. Tsignadze
70.	On deployable reflector antennas for a c-band companion satellite for sentinel1	Printed	Proceedings of 37th ESA Antenna Workshop “Workshop on Large Deployable Antennas”. 15 - 17 November 2016. ESTEC, Noordwijk, The Netherlands.	8 p.	C.G.M. van ‘t Klooster
71	Transformable reflector structure with V-folding rods	Printed	CEAS Space Journal of European Aerospace Societies: CEAS Space Journal: Volume 8, Number 4 (2016), Page 291-301. http://link.springer.com/article/10.1007/s12567-016-0125-5	11 p.	J. Santiago Prowald, V. Gogilashvili, K. Chkhikvadze.
72.	A mechanical support frame for space reflector and method of deployment of the same	Printed	Workshop on Large Deployable Antennas”. 15 - 17 November 2016. ESTEC, Noordwijk, The Netherlands.	8 p.	J. Santiago Prowald; E. Medzmariashvili; M. Nikoladze.

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

№ №	Title of scientific works	Printed or handwritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
73.	New approach for improvement of space reflector's mechanical support frame accuracy	Printed	Proceedings of 38th ESA Antenna Workshop "Innovative Antenna Systems and Technologies for Future Space Missions" 3 - 6 October 2017 ESTEC, Noordwijk, The Netherlands	9 p.	M. Nikoladze, M. Muchaidze, J. Santiago Prowald, van't Klooster C.G.M.
74.	Structural features of mechanical support frame for improvement of space reflector's accuracy	Printed	International scientific journal of IFToMM "Problems of Mechanics", Tbilisi 2017, № 3(68). pp. 49-58.	12 p.	E. Medzmariashvili, M. Nikoladze, A. Chaphodze, M. Muchaidze, Z. Saakian
75.	New design variant of the mechanical ring structure for large deployable space reflector	Printed	Proceedings of the 3rd International Conference " <i>Advanced Lightweight Structures and Reflector Antennas</i> ", 19 – 21 September 2018, Hotel Courtyard Marriott, Tbilisi, Georgia	8 p.	C.G.M. van 't Klooster, E. Medzmariashvili, M. Muchaidze, K. Chkhikvadze, M. Nikoladze

The author of works

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	printed or handwri tten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
76.	Space reflector mechanical support ring and its deployment method		National Intellectual Property Center of Georgia „SAKPATENTI“ Patent № P 6801 2018-02-05	29 p.	J. Santiago-provald, L. Scialino, E. Medzmariashvili, N. Tsignadze, M. Nikoladze
77.	On annular, spherical and toroidal reflector antennas	Printed	Proceedings of the 3rd International Conference <i>"Advanced Lightweight Structures and Reflector Antennas"</i> , 19 – 21 September 2018, Hotel Courtyard Marriott, Tbilisi, Georgia	10 p.	C.G.M. van 't Klooster, E. Medzmariashvili
78.	New Schemes of Folding Power Structures and Parameters of Space Reflectors Developed in Georgia	Printed	Proceedings of the 3rd International Conference <i>"Advanced Lightweight Structures and Reflector Antennas"</i> , 19 – 21 September 2018, Hotel Courtyard Marriott, Tbilisi, Georgia	7 p.	E. Medzmariashvili, N. Tsignadze, N. Chikhradze, L. Japaridze, K. Chkhikvadze, R. Tkeshelashvili,
79.	New foldable mechanical supporting ring structure for space antennas	Printed	International scientific journal of IFToMM “Problems of Mechanics”, Tbilisi 2018, № 4(73). pp. 49-54.	6 p.	E. Medzmariashvili, N. Tsignadze, A. Chapodze, M. Muchaidze
80.	Novel design of deployable mesh reflector antenna for mini satellites	Printed	40 th ESA Antenna Workshop on Antenna Developments for “Terrestrial and Small-Space Platforms”. 08 - 10 October, 2019. ESTEC, Noordwijk, The Netherlands. https://atpi.eventsair.com/QuickEventWebsitePortal/40th-esa-antenna-workshop/antenna	9 p.	O. Sushko, E. Medzmariashvili, L. Filipenko, A. Tsiklauri, G. Medzmariashvili, M. Nikoladze, D. Vasylenko, O. Shpylka, S. Khoroshylov, S. Martyniuk, V. Vasyliov

List of inventions and patents

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

№ №	Title of scientific works	printed or handw ritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
81.	Analysis of New foldable mechanical supporting ring for space antennas	Printed	International scientific journal of IFToMM “Problems of Mechanics”, Tbilisi 2018, № 4(73). pp. 55-62.	8 p.	E. Medzmariashvili, K. Chkhikvadze, N. Tsignadze, M. Muchaidze
82.	Latest modification of the deployable space reflector structure with V-folding bars	Printed	CEAS Space Journal of European Aerospace Societies: CEAS Space Journal: Original Paper. 2020 pp 163-169 https://link.springer.com/article/10.1007/s12567-019-00281-9	7 p.	J. Santiao Prowald K. Chkhikvadze M. Nikoladze M. Muchaidze
83.	Modified design of the deployable mesh reflector antenna for mini satellites	Printed	CEAS Space Journal of European Aerospace Societies: CEAS Space Journal: Original Paper. 13.01.2021 https://link.springer.com/article/10.1007/s12567-020-00346-0	9 p.	O. Sushko, E. Medzmariashvili, L. Filipenko, A. Tsiklauri,

List of inventions and patents

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

N ^o N ^o	Title of scientific works	printed or handw ritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
84.	New design modifications of the supporting ring for a large deployable space reflector	Printed	CEAS Space Journal of European Aerospace Societies: CEAS Space Journal: Original Paper. 13 , 27.08.2021 pp 175-182 https://link.springer.com/article/10.1007/s12567-020-00332-6	8 p.	E. edzmariashvili, C. G. M.van't Klooster, K. Chkhikvadze, M. Muchaidze, M. Nikoladze, A. Chapodze, I. Sigua & M. Sanikidze
85.	Design and Analysis of Light-Weight Deployable Mesh Reflector Antenna for Small Multibeam SAR Satellite	Printed	EUSAR 2021; 13th European Conference on Synthetic Aperture Radar; 29 March-1 April 2021 online. Date Added to IEEE Explore: 02 July 2021 ISBN:978-3-8007-5457-1 https://ieeexplore.ieee.org/abstract/document/9472579	8 p.	O. Sushko E. Medzmariashvili D. Vasylenko O. Shpylka S. Khoroshylov S. Martyniuk V. Vasyliiev
86.	Design, design features, assembly and bench tests of the deployable space reflector	Printed	Proceedings of the 41st ESA Antenna Workshop on Large deployable Antennas 25-28 September 2023 at ESA-ESTEC I Noordwijk, The Netherlands.	7 p.	E. Medzmariashvili, O. Sushko, S. Khoroshylov, S. Martyniuk, M. Janikashvili, M. Nikoladze, G. Bedukadze

List of inventions and patents

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)

List of scientific works

TSERODZE SHOTA

(Surname, Name)

N ^o N ^o	Title of scientific works	printed or handw ritten	Publishing house, journal (issue, year) or copyright certificate number	The number of printed sheets or pages	Last name of the co- author
1	2	3	4	5	6
87.	dynamics modeling and analysis of the deployable reflector antenna for SAR mini-satellites	Printed	Proceedings of the 41st ESA Antenna Workshop on Large deployable Antennas 25-28 September 2023 at ESA-ESTEC I Noordwijk, The Netherlands.	6 p.	S. Khoroshylov, V. Shamakhanov, V. Beitsun, E. Medzmariashvili, A. Sushko, S. Martyniuk.
88.	Design, structural features, assembly and bench tests of the deployable space reflector	Printed	Submitted for publication in a top-rated journal: CEAS Space Journal of European Aerospace Societies	8 p.	E. Medzmariashvili, O. Sushko, S. Khoroshylov, S. Martyniuk, M. Janikashvili, M. Nikoladze, G. Bedukadze

List of inventions and patents

(Shota Tserodze)

Head of the Department of Civil and Industrial
Construction Technologies and Building Materials

(Nino mskhilaZe)