

# Georgian Technical University

## Faculty of Civil Engineering

### Scientific works list of Manon Kodua

2012-2025

N <sup>o</sup>	Autors	Publication title	Source title	Year
1.	Sh. Gagoshidze, I. Kalaria, A.Gogoladze, Ts. Giorgadze, M.Kodua	On channel processes in the downstream of the Rioni river watershed	Scientific-Technical Journal „Hydroengineering“ № 1-2(13-14). 64-73	2012
2.	Sh. Gagoshidze, A. Gogoladze, M.Kodua	About the action of longitudinal waves on bank slopes of the soil channels	Scientific-Technical Journal „Hydroengineering“ # 1-2(15-16). 57-61	2013
3.	A.Sakvarelidze, N. Gudushauri, M. Kodua	Influence of Deformation Velocity on Strength of Concrete at Different Ages and Deformation Characteristics at Tension	Scientific-Technical Journal „Hydroengineering“ # 1-2(15-16). 66-69	2013
4.	Sh. Gagoshidze, A. Gogoladze, D. Razmarze M.Kodua	On The Measures To Protect The Coastal Strip At The Resort Anaklia	Proceeding of The 3 <sup>rd</sup> International Scitific-Tecnicl Conferece „The Modern Problems of Enviromental Protection, Architectureand construction" p.p.49-53	2013
5.	Gagoshidze sh Kodua M.	Hydraulic calculation method for sea bottom spillway sewers	<u>Electronic journal EOL</u> Energyonline №2(8), 2014	2014
6.	A. Sakvarelidze, N.Gudushauri, M.Kodua	nfluence of Deformation velocity on strength and Deformation Characteristecs of Self -Compacting concrete at Tension	Scientific-Technical Journal “Building” #1(32);#1(32), 125-126	2014
7.	T. Gvelesiani Z. Tsikhelashvili G. Berdzenashvili Kh. Iremashvili	On research aspects of a new-type floating wave damping hydro-technical complex for protection of coastal line and open ports from storm waves	Proceeding of The 4 <sup>rd</sup> International Scitific-Tecnicl Conferece „The Modern Problems of Enviromental Protection, Architectureand construction"	2014
8.	Gagoshidze sh Kodua M.	Hydraulic calculation method for sea bottom spillway sewers	Proceeding of The 4 <sup>rd</sup> International Scitific-Tecnicl Conferece „The Modern Problems of	2014

			Enviromental Protection, Architectureand construction"	
9.	Gagoshidze Sh., Kodua M.	Transformation of Long Waves in the Seaside Estuary	Collection of scientific works of the State Engineering University of Armenia "BULLETIN" No. 1(17) №1(17). 44-50	2014
10.	Chichaghua P., Kalabegishvili M., Kodua M.	Analysis of Dam of Enguri Hpp Thermal Regime of Operational Period	Works of Georgian Technical University 2 2 (496), 96-106 <a href="http://publishhouse.gtu.ge/ge/index/2">http://publishhouse.gtu.ge/ge/index/2</a>	2015
11.	Saghinadze I. Kadaria I. Kodua M.	Basic Data of Wind and Wave Regimes Poti Black Sea Region	Proceeding of The 5 <sup>th</sup> International Scitific-Tecnical Conferece „TheModern Problems of Enviromental Protection, Architectureand construction". 244-248	2015
12.	Kodua M.	Calculation of Long Waves in the Equators of River Estuary	Scientific-Technical Journal „Hydroengineering “#1-2(21-22). 69-78	2016
13.	Gagoshidz Sh. Rurua L. Kodua M.	Measures of Restoring the Washed-Out City Poti Coast	Proceeding of the 6rd International Scitific-Tecnical Conferece,„TheModern Problems of Enviromental Protection, Architectureand construction" . 11-15	2016
14.	GagoshidzeSh., Kodua M., SaghinadzeI., Kadaria I	RIVER HYDRO CONSTRUCTION AND GEOMORPHOLOGICAL PROCESSES OF THE BLACK SEA COAST OF GEORGIA	<b>Monograph</b> Technical University, UDC 627.221.2. 192 p.	2017
15.	GagoshidzeSh., Kodua M., Saghinadze I., Rizhamnadze I	About the Distribution Along the Shore Waves of Marine and River Channels	scientific tech. Journal „Energy“ № 2(82 ). 75-81	2017
16.	Gagoshidze Sh. Kodua M. Giorgadze Ts.	Hydrotechnical construction in the Chorokhi River basin and geomorphological processes in the Black Sea region of Adjara	The 7rd International Scitific-Technical Conferece “The Modern Problems of Enviromental Protection, Architecture and construction"	2017
17.	Narimanidze N., Burchuladze T., OdiladzeM., Kodua M.	Analysis of theproblems of ensuring the reliability of information in theforming information society	Proceeding Archil Eliashvili Instituteof Control Systems of The Georgian Technical University№21, 178-180	2017

Author of Works

M. kodua

18.	Gagoshidze Sh., Kodua M. Mosavlidze I.	chapter4.10. To the calculation of the invasion of halocline in the mouths of rivers and in deep sea outlet <a href="https://sites.google.com/view/eitgtu/home">https://sites.google.com/view/eitgtu/home</a>	ECOLOGY ENVIRONMENT Volume I. EUROPEAN INNOVATIVE TECHNOLOGIES OF WATER SUPPLY AND WATER SUPPLY IN THE CONDITIONS OF THE SOUTH CAUCASUS. 479-494	2019
19.	Gagoshidze Sh., Kadaria, I. Saghinadze I., Kodua M., Mosavlidze I.	Causes of Destruction Of The Downstream Pool of the Rioni Water Dividing Dam and the Ways of its Rehabilitation	Hydroengineering, #1-2(27-28), ISSN 1512-410X 57-66	2019
20.	Saghinadze I, Kodua M.	A Mathematical Model of Sediment Transport of the Poti Coastal Zone	International Journal of Engineering Research and Technology. ISSN 0974-3154, Volume 12, Number 12, © International Research Publication House. <a href="http://www.irphouse.com">http://www.irphouse.com</a> 3041-3046	2019
21.	Saghinadze I. Kodua M. Pkhakadze M.	Numerical Computation of Wave Motions for Poti Coastal Zone	Bulletin of The Georgian National Academy of Sciences Moambe. ISSN - 0132 – 1447 V.14, n.3 . 88-93	2020
22.	Gagoshidze Sh, Kadaria I, Kodua M, Kakhadze G.	To Calculate the Scouring of Rock Foundations of a Block Structure By Water Flows falling from High Dams	Hydroengineering, N1-2 (29-30), 5-13 2021	2021
23.	Gagoshidze Sh., Kadaria I., Kodua M	On the expected impact of hydropower construction on the Chorokhi River on the stability of the Black Sea coast of Adjara.	From a series of monographs “Ecology of the environment” Vol. II European innovative technologies in Environmental engineering Georgian Technical University. 104-113	2022
24.	Mestvirishvili Sh. Kodua M. Benashvili M.	Some things about hail	Proceedings International Conference of Young Scientists "Modern Problems of Earth Sciences" Tbilisi. . 169-172	2022
25.	Gagoshidze Sh., Kodua M.	On the Stability of Water Movement in Free-Flow Conduits of Circular Cross Section	BULLETIN OF HIGH TECHNOLOGY N3(22), 2022 51-61	2022
26.	Saghinadze I. Kodua M. Pkhakadze M	The Impact of the new Mole of the Port of Poti on the Coastline on Lythodynamic Processes	Works of GTU <a href="http://www.shromebi.gtu.ge">www.shromebi.gtu.ge</a> 9 №4 (526), 98-106	2022

27.	Saghinadze I. Gagoshidze Sh., Kodua M.	A finite element method in the study of nearshore wave processes	BULLETIN OF HIGH TECHNOLOGY N4(23), 67-73	2022
28.	Shalva Gagoshidze, Elizbar Khatiashvili , Ivane Saghinadze , Manoni Kodua , Giorgi Kadaria	Environmental and Hydro-Engineering Problems on Georgia's Black Sea Coast and the Ways of their Solution	HYDROENGINEERING N1-2 (31-32), 2022 ISSN 1512-410X. 7-25	2022
29.	Ivane Saghinadze , Manoni Kodua, Manana Pkhakadze	New Approach of Hydraulic Engineering Measures to Protect the Black Sea Poti Coastline from Erosion	BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES, vol. 17, no. 2, 21-27	2023
30.	Shota Mestvirishvili, Manon Kodua, Mamuka Benashvili	Effect of Bordeaux Mixture on the Origin of Hail	Journal of the Georgian Geophysical Society, e-ISSN: 2667-9973, p-ISSN: 1512-1127 Physics of Solid Earth, Atmosphere, Ocean and Space Plasma, v. 26(1), 63-66	2023
31.	Gagoshidze Sh. N., Tokmajyan V.H., Kodua M.A Gabayan G.S.	To the Calculation Of Bank Protection Measures for Channels Slopes Exposed to Alongshore Waves	Bulletin of High Technology4 (28), 11-19	2023
32.	Mestvirishvili Sh., Kodua M., Chaghiashvili G.	RESEARCH OF GAS INFLOW ON THE BLACK SEA SHELF NEAR BATUMI AREA	International Scientific Conference "Geophysical Processes in the Earth and its Envelopes" Proceedings, I ISBN 978-9941-36-147-0 pp.81-85	2023
33.	Mestvirishvili Sh., Benashvili M., Kodua M., Kikabidze K., Iashvili N.	IMPACT OF THE BORDEAUX CUPPER ON THE ENVIRONMENT OF THE VINERY REGION	International Scientific Conference "Geophysical Processes in the Earth and its Envelopes" Proceedings, I ISBN 978-9941-36-147-0 pp.265-267	2023
34.	Ivane Saghinadze Manoni Kodua Manana Pkhakadze	The Influence of the New Breakwater of Poti Port on Litho-dynamics of the Coastline	International Journal of Engineering Trends and Technology Volume 72 Issue 5, 227-231, May 2024. ISSN: 2231-5381 / <a href="https://doi.org/10.14445/22315381/IJETT-V72I5P123">https://doi.org/10.14445/22315381/IJETT-V72I5P123</a> © 2024 Seventh Sense Research Group®	2024
35.	Manoni Kodua Mari Tebidze	Account of Breakwater Concrete Blocks on the Tetrapod Example	Works of GTU www.shromebi.gtu.ge №2 (532), 244-255	2024

36.	Ivane Saghinadze Manoni Kodua Manana Pkhakadze	Computational analysis of Wave Motions near the estuaries along the Rioni River	Proceedings of 11 <sup>th</sup> International Scientific-Technical Conference „The Modern Problems of Environmental Protection, Architecture and construction" pp.188-193	2024
37.	Robert Diakonidze, Manoni Kodua, Anzor Kupatadze	Evaluation of the solid sediment transported by the rivers of Georgia in the Black Sea and measures to protect the coast from wave impact	Works of GTU www.shromebi.gtu.ge (N1(535)), 228-234	2025
38.	Vladimir Starodubtsev, Manoni Kodua, Maryna Ladyka, Vyacheslav Bogdanets	Impact of River Flow Regulation on Deltas in the Black Sea Basin	Georgian Geographical Journal, 2025, 5(1), 15-30 DOI: <a href="https://doi.org/10.52340/ggj">https://doi.org/10.52340/ggj</a> E-ISSN: 2667-9701	2025
39.	<b>V. Starodubtsev,</b> <b>M. Kodua</b> <b>M. Tebidze</b> <b>A. Gogoladze</b>	The Condition of River Deltas on the Southeastern Coast of the Black Sea	Proceedings of 12 <sup>th</sup> International Scientific-Technical Conference „The Modern Problems of Environmental Protection, Architecture and construction" pp.171-180	2025
40.	Robert Diakonidze, Levani Tsulukidze, Manoni Kodua, Anzor Kupatadze	Sea Wave Breaker Innovative Structure	BULLETIN OF THE NATIONAL ACADEMY OF SCIENCES OF GEORGIA, vol. 19(193), no. 4, 2025	2025

## Participation in scientific events

	Scientific event name	Title of the presentation	Event venue and data
1	The 3rd International Scientific-Technical Conference "The Modern Problems of Environmental Protection, Architecture and construction"	On the Measures To Protect The Coastal Strip At The Resort Anaklia	Borjomi, Georgia 2013 29 July- 4 August
2	The 4th International Scientific-Technical Conference "The Modern Problems of Environmental Protection, Architecture and construction"	On research aspects of a new-type floating wave damping hydro-technical complex for protection of coastal line and open ports from storm waves	Tbilisi, Georgia Georgian Technical University 2014, 27-30 September
3	The 4th International Scientific-Technical Conference "The Modern Problems of Environmental Protection, Architecture and construction"	Hydraulic calculation method for sea bottom spillway sewers	Tbilisi, Georgia Georgian Technical University 2014, 27-30 September
4	2- nd Steering Committee meeting, Integrated Coastal Monitoring of Environmental Problems in Sea Region and the Ways of their Solution (ICME)	The geomorphological processes in the coastal zone of Poti and the Ways of their solution	Trabzon, Turkey 2014, 25-29 November
5	The 5th International Scientific-Technical Conference, "The Modern Problems of Environmental Protection, Architecture and construction"	BASIC DATA OF WIND AND WAVE REGIMES POTI BLACK SEA REGION	Tbilisi, Georgia Georgian Technical University 2015, 14-15 July
6	3- nd Steering Committee meeting, Integrated Coastal Monitoring of Environmental Problems in Sea Region and the Ways of their Solution (ICME)	The Main Results of Compilation of Basic Data of Seawater Pollution and Sediment Migration in the Poti Port Region of Georgia and Development of Appropriate Mathematical Models for their Calculation	Yerevan, Armenia 2015, 20-21 oct.
7	European Geosciences Union General Assembly 2016	Applied Analytical Methods for Solving Some Problems of Wave Propagation in the Coastal Areas	Vienna, Austria 2016, 17-22 Apr.
8	European Geosciences Union General Assembly 2016	Hydro-engineering and environmental problems in Poti Black Sea region and ways of their solution	Vienna, Austria 2016, 17-22 Apr.
9	The 6th International Scientific - Technical Conference, "The Modern Problems of Environmental Protection, Architecture and construction"	MEASURES OF RESTORING THE WASHED-OUT COAST OF THE CITY OF POTI	Tbilisi, Georgia Georgian Technical University 2016 22-25 September
10	European Geosciences Union General Assembly 2017	To the restoration of the washed-out sea coast of the city Poti	Vienna, Austria 2017, 23-28 Apr

Author of Works

M. kodua

11	The 7rd International Scientific - Technical Conferee „The Modern Problems of Environmental Protection, Architecture and construction"	Hydrotechnical construction in the Chorokhi River basin and geomorphological processes in the Black Sea region of Adjara	Tbilisi, Georgia Georgian Technical University 2017 , 22-25 August
12	6th International Conference on Estuaries and Coasts	Numerical Computation of Wave Motions in Poti Coastal Zone of Black Sea <a href="http://lusac.unicaen.fr/colloque-icec-2018/">http://lusac.unicaen.fr/colloque-icec-2018/</a>	Caen, France 2018 20-23 august
13	Dedicated to Professor KartsivadzeII International Symposium "Earthquake Resistanceand Engineering Seismology"	For thecapital rehabilitation of the ruined downstream dam of the Rioni River watershed	Tbilisi, Georgian Technical University 2019 , 16-17 January
14	International scientific-practical seminar "European innovative water supplyand waste waterdisposal technologies in theSouth Caucasus".	To the calculation of halocline invasion in the mouths of rivers and in deep sea outfalls	Tbilisi, Georgian Technical University 2019 , 26-29 March
15	European Innovative Technologies in the Construction and Environmental Engineering	On the expected impact of hydropower construction on the Chorokhi River on the stability of the Black Sea coast of Adjara.	Tbilisi, Georgian Technical University July 28- 31, 2021
16	International Conference of Young Scientists "Modern Problems of Earth Sciences" , Tbilisi, Georgia, November 21-22, 2022	Some things about hail	Tbilisi, Ivane Javakhishvili Tbilisistate University 21-22 November, 2022
17	Contribution to the Theory of Undular Bores.A Journey around the Korteweg-de Vries Equation	IAHR Water Monographs Webinar 1	International Association for Hydro-Environment Engineering and Research November 25, 2022
18	2nd International Conference DESIGN AND MANAGEMENT OF PORT, COASTAL AND OFFSHORE WORKS	Protection of the Poti Coastal Zone From Erosion Using Submerged Breakwaters	Thessaloniki, Greec Aristotle University 23-27 May, 2023
19	2ndInternational Conference"Problems of Engineering Sciences"	The Impact of The Breakwater Under Construction At The Rioni River Northern Channel's Estuary Area on Sediments Along-Bank Movement	Batumi, Shota Rustaveli State University 2-8 September, 2023

20	International Scientific Conference "Geophysical Processes in the Earth and its Envelopes" Tbilisi, Georgia, November 16-17, 2023	Research of Gas Inflow on the Black Sea Shelf Near Batumi Area	Tbilisi, Georgia, November 16-17, 2023
21	International Scientific Conference "Geophysical Processes in the Earth and its Envelopes" Tbilisi, Georgia, November 16-17, 2023	Impact of the Bordeaux Copper on the Environment of the Vinery Region	Tbilisi, Georgia, November 16-17, 2023
22	European Geosciences Union General Assembly 2024	Reasons of changes sediment movement near the Rioni river estuary	Vienna, Austria 2024, 14-19 Apr.
23	11 <sup>th</sup> International Scientific-Technical Conference „The Modern Problems of Environmental Protection, Architecture and construction"	Computational analysis of Wave Motions near the estuaries along the Rioni River	Tbilisi, Georgia Georgian Technical University Water management Institute. 12-16 July, 2024
24	The international conference <b>"From Theory to Applied Geography - GSG100"</b>	Changes in River Deltas of the Black Sea Basin Due to Flow Regulation and Economic Activity	Tbilisi, TSU, Vakhushti Bagrationi Institute of Geography November 06-07, 2024
25	4th Scientific Practical Seminar „European Innovative Technologies in the Construction and Environmental Engineering“	Innovative method of gas extraction from the Black Sea shelf	Tbilisi, Georgian Technical University May 14-15, 2025
26	XII International Scientific and Technical Conference “Modern Problems of Water Management, Environmental Protection, Architecture, and Construction”.	The Condition of River Deltas on the Southeastern Coast of the Black Sea	Tbilisi, Georgian Technical University July, 14-16 2025
27	The 25th International Multi-Conference Reliability and Statistics in Transportation and Communication	The Importance of Landscape Dynamics for the Sustainable Development of a Port City: Poti as a Case Study	Institute of Transport and Telecommunications Riga, Latvia October 16-18, 2025,
28	International Scientific Conference "Study and sustainable use of natural ecosystems in the context of modern climate change",	Environmental Assessment of River Deltas in the Southeastern Black Sea Coastal Zone	Institute of Hydrometeorology Tbilisi, Georgia, December 11, 2025