

CURRICULUM VITAE

Prof. Dr. GÖKMEN TAYFUR

Dept. of Civil Engineering, Izmir Institute of Technology

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<https://civil.iyte.edu.tr/wp-content/uploads/sites/87/2019/10/TayfurCV.pdf>

https://scholar.google.com.tr/scholar?hl=tr&as_sdt=0%2C5&q=gokmen+tayfur&oq=gokmen+

RESEARCH INTEREST

Mathematical modeling; surface and subsurface flows; rainfall-runoff induced erosion; sediment transport; solute transport; chemical transport in surface and subsurface flows; application of artificial intelligence methods (ANN, Fuzzy Logic, GA) in water resources engineering problems; river morphology; dam break flows.

EDUCATION

Ph.D *Water Resources Engineering*, Dept. Civil & Environmental Engineering, University of California, Davis, USA, 1993.

M.Sc *Water Resources Engineering*, Dept. Civil & Environmental Engineering, University of California, Davis, USA, 1990.

M.Sc *Hydraulic Engineering*, Civil Engineering Faculty, Istanbul Technical University, Istanbul, Turkey, 1987 (all but thesis).

B.Sc *Civil Engineering*, Civil Engineering Faculty, Istanbul Technical University, Istanbul, Turkey, 1985.

ACADEMIC EXPERIENCE

Professor

8/2004-present Dept. Civil Engineering, Izmir Institute of Technology, Urla, Izmir, Turkey.

Visiting Professor

4/14—4/28, 2013 IRPI-CNR (IRPI-National Research Council), Perugia, Italy.

1/24—2/8, 2010 IRPI-CNR (IRPI-National Research Council), Perugia, Italy.

7/2007—6/2008 NCCHE, University of Mississippi, Oxford, MS, USA.

9/24—10/12, 2006 IRPI-CNR (IRPI-National Research Council), Perugia, Italy.

9/2004—8/2005 Dept. Civil & Environmental Engineering, Louisiana State University, Baton Rouge, LA, USA.

Associate Professor

12/98-7/2004 Dept. Civil Engineering, Izmir Institute of Technology, Urla, Izmir, Turkey.

Assistant Professor

9/95-11/98. Dept. Civil Engineering, Izmir Institute of Technology, Urla, Izmir, Turkey

Lecturer

4/95-7/95 Dept. Civil & Environmental Engineering, University of California, Davis, CA, USA. Taught “*Hydrologic Time Series Analysis*” graduate course.

Postdoctoral Researcher

3/95-8/95 *Dept. Civil & Environmental Engineering, University of California, Davis, CA, USA.*
Analyzed time series trends of hydrologic variables.

8/93-3/95 *Dept. Land, Air & Water Resources, University of California, Davis, CA, USA.* Worked
on the transport of salt and chemicals in saturated and unsaturated zone.

COURSES TAUGHT

CE 532 Groundwater Hydrology and Pollutant Transport

CE 505 Open Channel Hydraulics

CE 504 Advanced Watershed Hydrology

CE 534 Non-Point Source Pollution

CE 571 Artificial Intelligence Methods in Engineering

CE 501 Advanced Analytical Methods in Engineering

CE 502 Advanced Numerical Methods in Engineering

ECI 276 Hydrologic Time Series Analysis

IN 251 Fluid Mechanics

CIVE305 Hydromechanics

CE301 Numerical methods in engineering

CE272 Fluid Mechanics

CE471 Water Resources Engineering

COURSES DEVELOPED

CE 571 Artificial Intelligence Methods in Engineering

CE 534 Non-Point Source Pollution

M.Sc. THESIS GUIDED

10. Numerical investigation of flood induced seepage under levees, Aykut Semerci, M.Sc. Thesis,
IYTE, 2019.

9. 'GIS_based numerical modeling of dam break flooding—Case Study: Urkmez Dam, Sumeyra Gul,
M.Sc. Thesis, IYTE, 2019.

8. 'Drought and trend analysis in three different basins in Moritania.' Ely Yacoub, M.Sc thesis. 2016. Izmir
Institute of Technology.

7. 'Numerical solution of advection-diffusion equation by the fourth order finite difference method.' **Asan
Ali Akbar Fatah Bajellan** M.Sc. Thesis, IYTE, 2015.

6. 'Investigating transferability of sediment transport from laboratory to field scale', Yashar Karimi,
M.Sc. Thesis, Dept. Civil Engineering, Ege University, 2011.

5. "Numerical modeling of unsteady and non equilibrium sediment transport in rivers", Asli Bor, M.Sc
Thesis, Dept. Civil Engineering, Izmir Institute of Technology, 2008.

4. 'ANNs for predicting seepage path in the body of an earth-filled dam'.
Deniz Özsayın, M.Sc Thesis, Dept. Civil Engineering, Izmir Institute of Technology, 2006.

3. 'Boron and Selenium transport in saturated and unsaturated zones'.
Emin Yureklitürk, M.Sc Thesis, Division of Environmental Engineering,
Izmir Institute of Technology, 2002.

2. 'Assessment of groundwater quality in Torbali region'.
Tuğba Kirer, M.Sc Thesis, Division of Environmental Engineering,
Izmir Institute of Technology, 2002.

1. 'Artificial neural networks model for air quality in the region of Izmir'.
Savas Birgili, M.Sc Thesis, Division of Environmental Engineering,

Izmir Institute of Technology, 2002.

PhD Thesis Guided

4. 'Simulating artificial recharge in Kucuk Menderes River Basin in Turkey using HYDRUS_3D model', Yavuz Sahin. (in progress)
3. 'Predicting erosion loss and sedimentation in Kabul River Basin in Afganistan using SWAT model', IYTE (In progress). Ahmad Ansari. (in progress)
2. 'Trend and drought analysis for whole Afganistan, possible implications on the transboundary rivers.' IYTE, (In progress), Ehsanullah, Hayat. (in progress)
1. "Total suspended sediment load prediction for Gediz River by artificial intelligence and empirical methods." Civil Engineering Department, Dokuz Eylul Universitesi, Izmir, Turkiye. Asli, Ulke. 2010.

RESEARECH PROJECTS

12. 'Toprak Dolgu Barajlarda Borulanmanın ve Borulanma Nedeniyle Oluşan Gediklerin Gelişmesinin ve Hidrolik Davranışlarının Deneysel ve Sayısal Araştırılması' Tubitak Projesi, 2019-2022 (Arastirmaci), (devam ediyor).
11. 'Experimental and numerical investigating of sediment transport as a result of earthen dam break and application to real dams at GIS environment', 119M959 TUBITAK (Turkish Science and Research Council). *Principal Investigator. (2020-2023).*
10. 'Physical and numerical investigation of dam break flood waves—Application to real dams in GIS environment' 2010—2014. 110M240 TUBITAK (Turkish Science and Research Council). *Principal Investigator.*
9. "Investigating surface water and groundwater potential of campus of Izmir Institute of Technology". Izmir Institute of Technology Research Fund, Project No: 2007MUHYL01, (Principal Investigator). 2010, completed.
8. "Experimental and theoretical investigation of unstaedy and non-equilibrium sediment transport in open channels—application of the results to Tahtali basin creeks." TUBITAK project No. 106M274, 2010 completed.
7. 'Investigation of groundwater quality in the region of Torbalı'. Izmir Institute of Technolgy Research Fund. (*Principle Investigator*), Izmir, Turkey, 2003. (Project No: 2001MUHYL12).
6. 'Investigation of creek protection bends in Tahtali Watershed'. Grand Mayoral Department Research Fund, Izmir, Turkey, 2000.
5. 'Investigation of water resources protection regulations in Turkey with respect to science, technic, and law'. Grand Mayoral Department Research Fund, Izmir, Turkey, 2000.
4. 'Evaluation of erosion potential of bare and vegetated cut/fill slopes of decomposed granite at Buckhorn Summit'. California Department of Transportation Research Fund, CA, USA, 1994.
3. 'Best management practices assessment model for agricultural non point source pollution'. State Water Resources Control Board, California Research Fund, CA, USA, 1994.
4. 'Erosion control of decomposed granite at Buckhorn Summit'. California Department of Transportation Research Fund, CA, USA, 1992.
1. 'Simulation of random rill network geometry on agricultural plots'. University of Kentucky Research Fund, KY, USA, 1990.

Editor

2021- Editor, **Water Resources Management** (*Springer, in SCI list*)

2016- Editor, Water Resources (Su Kaynaklari), Su Vakfi

Associate Editor

2011— Associate Editor, *Journal of Hydrology* (Elsevier, in SCI list)

2016 December, Guest Editor, Water Resources Management

2008— Associate Editor, *Journal of Water Quality, Exposure and Health* (*Springer, in SCI list*)

2013—2015 Associate Editor, *Turkish Journal of Engineering and Environment* (Tubitak)

2008—Associate Editor, *J. Air, Soil and Water Research* (Libertas Academica)

KEYNOTE PAPERS

4. IX. National Hydrology Congress, 4-6 October, 2017, Diyarbakır, Turkey. Presented a keynote paper on ‘Genetic algorithm and its applications in hydrology’.
3. Florisa Melone Memorial Conference, October 2013, Perugia, Italy. Presented a keynote paper on ‘ANN and GA applications in hydrology.’
2. International Conference on *Water and Environment*, WE-2003, Bhopal, India. 15-18 December-2003. Presented a Keynote Paper on “*Sediment Transport*”.
1. International Conference on Integrated Technologies for Environmental Monitoring and Information Production, NATO-ARW, Marmaris, Turkey, September 2001. Presented a Keynote Paper on “*Upscaling surface flow equations depending upon data availability at different scales*”.

INVITED SPEAKER

9. **Tayfur, G.** 2019. ‘Modelling approaches to sediment transport’, 2nd International Conference of Environment: Survival and Sustainability Conference 7th to 11th October 2019 Nicosia, Northern Cyprus, Cyprus
8. **Tayfur, G.** 2018. ‘Overview of Dams in the Middle East throughout History and Dam Failures in the Last Century in the World’, 5th International Symposium on Dam Safety. 27 October- 1 November, 2018. Istanbul, Turkey.
7. **Tayfur, G.** ‘Fuzzy logic and genetic algorithm and their applications in water resources engineering.’ Workshop, 20 November, 2016. İTÜ North Cyprus, Gazimagusa, Cyprus.
- 6 **Tayfur, G.** ‘Modelling water stress effect on soil salinity’, NATO-ARW, Sept 1-4, 2010, Cesme, Izmir, Turkey.
- 5 **Tayfur, G.** “Kineamtic wave theory for modeling transient sediment waves in alluvial channels.” Presented at a NCCHE-NSL joint seminar on August 17, 2007.
- 4 **Tayfur, G.** “Introduction to ANNs and GAs and their applications to predict flow rates in river sections”. Presented in NCCHE-NSL joint seminar in April 04, 2008.
- 3 **“Predicting and Forecasting Flow Discharge at Sites Receiving Significant Lateral Inflow by ANN”** at IRPI-CNR (IRPI-National Research Council), Perugia, Italy, Sept. 30, 2006.
- 2 **“Fuzzy Logic Algorithm and Its Application to Predict Dispersion Coefficient in Natural Rivers”** at IRPI-CNR (IRPI-National Research Council), Perugia, Italy, Oct. 3, 2006.
- 1 **“Genetic Algorithm and Its Application to Flow Prediction”** at IRPI-CNR (IRPI- National Research Council), Perugia, Italy, Oct. 7, 2006.

MANAGERIAL POSITIONS

2020-	Chairman, Civil Engineering Department
2008-2017	Chairman, Civil Engineering Department
2013-2016	Member of Engineering Faculty Management Committee
2010-	Head of the University Ethical Committee
2008-2010	Vice Dean of the Engineering Faculty
2008-2010	Member of University Senate
2005-2007	Chairman, Dept. Civil Engineering, Izmir Institute of Technology
2007-2008	Member of University Management Committee
2006-2007	Member of Engineering Faculty Management Committee
2000-2004	Chairman, Dept. Civil Engineering, Izmir Institute of Technology
1996-1998	Chairman, Dept. Civil Engineering, Izmir Institute of Technology
1995-1998	Member of Engineering Faculty Management Committee

Awards

2015, İYTE, Izmir Institute of Technology, Faculty member who published the most SCI journal papers.

2013, İYTE, Izmir Institute of Technology, Faculty member who published the most SCI journal papers.

2012, İYTE, Izmir Institute of Technology, Faculty member who published the first international book.

Scholarship for the Graduate Studies in the USA by the Education Ministry of Turkey, 1988- 1990.

Referee

Among many, the followings

Journal of Hydraulic Engineering, ASCE
Journal of Irrigation and Drainage Engineering, ASCE
Hydrological Sciences Journal, IAHS
Journal of Hydrologic Engineering, ASCE
Journal of Contaminant Hydrology
Hydrological Processes
Water Research
Journal of Hydrology
Environmental Modelling and Software
Advances in Engineering Software
Journal of Engineering and Environment, TUBITAK
International Journal for Numerical Methods in Fluids
Mathematical and Computer Modelling
Environmental Fluid Mechanics
Journal of Engineering and Management
Water Management
Environmental Monitoring and Assessment
Journal of Environmental Management
International Journal of Sediment Research
Journal of Earth System Science
Natural Hazards

Referee for Project

Environmental Protection Agency (EPA), USA
Austrian National Science Foundation
Turkish Science Foundation (TUBITAK)

Committee Member for Conference Organization

IWA-PPFW 2017, 2nd IWA Regional Symposium on Water, Wastewater and Environment, 22-24
RiverFlow 2008, Izmir, Turkey.
EWRA 2015, Istanbul, Turkey.
March 2017, Cesme, Izmir, Turkey.

Scientific Committe Member for Conferences

- Ulusal Su Muhendisligi Smpozyumu, Eylul 2003, Izmir
- Ulusal Su Muhendisligi Sempozyumu, Eylul 2005, Izmir
- Ulusal Su Muhendisligi Sempozyumu, Eylul 2007, Izmir
- Ulusal Su Muhendisligi Sempozyumu, 2009, Istanbul
- Ulusal Su Muhendisligi Sempozyumu, 2011, Istanbul
- VI Hidroloji Kongresi, 2010, Denizli
- VII Hidroloji Kongresi, 2013, Isparta
- Florisa Melone Memorial Conference, October 2013, Perugia, Italy
- IV. Ulusal Baraj Guvenligi Sempozyumu, 9-11 October, 2014, Elazig, Turkey
- XI. International Congress on Advances in Civil Engineering, 21-25 October, 2014, Istanbul, Turkey.
- EWRA2015 9th World Congress of EWRA, Istanbul 10-13 June, 2015.
- VIII Hidroloji Kongresi, 2015, Urfa
- IV. Ulusal Taşkın Sempozyumu, 2016, Rize.
- 4. İnşaat Mühendisliği Eğitimi Sempozyuu, 2017, İzmir
- IX.Hidroloji Kongresi, 4-6 October, 2017, Diyarbakir, Turkey.
- Akıllı Şehirlerde Su Yönetimi, International Conference, 2-4 Kasım 2017, İzmir, Turkey
- International Water & Envoriment Congress, 22-24 March 2018, Bursa, Turkey.
- 5th International Semposium on Dam Safety, October 27-31, 2018, İstanbul, Turkey.
- 5th International Symposium on Dam Safety. 27 October- 1 November, 2018. Istanbul, Turkey.
- 2nd International Conference of Environment: Survival and Sustainability Conference 7th to 11th October 2019, Nicosia, Northern Cyprus, Cyprus

Books

Tayfur, G. Soft Computing in Water Resources Engineering: Artificial neural network, fuzzy logic and genetic algorithm. *WIT Press*, Sauthampton, United Kingdom, 2012.

Tayfur, G. and Sen, Z. Groundwater Hydrology and Hydraulics, Su Vakfi Publications, Istanbul, Turkey, 2018.

Book Chapters

9. Tayfur, G. and Singh, V.P. 2017. Artificial neural networks. In: Handbook of Applied Hydrology, Ed. Vijay P. Singh, McGraw Hill, Second Edition, 11-3, 11-6.
8. Tayfur, G. 2015. Population based evolutionary search optimization methods in hydrology. In Advances in watershed hydrology, eds. T. Moramarco, Barbetta, L. Brocca. Water Resources Publications, LLC, ISBN-10: 188720185-8, Chapter 11, 193-216.
- 7 **Tayfur**, G. 2010. ‘Numerical Modeling of Transport Processes at Hillslope Scale Accounting for Local Physical Features.’ In ‘Modeling hydrological effects of microtopographic features’, by Wang, X. (editor), Nova Publishers, **ISBN**: 978-1-61668-902-5.
- 6 Helvacı C., **Tayfur**, G., Baba A, ve Sener M 2009. ‘Natural resources and environmental problems in Turkey.’ In Environment and Resources, Eds Helvacı, Baba ve Tayfur, Izmir, Turkey. Pages: 39-47.
- 5 **Tayfur**, G. 2008, “Soft computing approaches in hydrology”, in V.P. Singh, Hydrology and Hydraulics, Water Resources Publications, LLC, ISBN 978-188720152-0, Chapter 3, pp 153-160.
- 4 **Tayfur**, G. 2003. ‘Modelling sediment transport’. In *Watershed Hydrology*, (eds) V.P.Singh and R.N. Yadava, Allied Publishers, pp. 353-375.

- 3 **Tayfur, G.** 2003. ‘Upscaling surface flow equations depending upon data availability at different scales’. In *Integrated Technologies for Environmental Monitoring and Information Production*, (eds) N.B. Harmancioglu et al. Nato Science Series, IV. Earth and Environmental Sciences-Vol 23. pp: 289-300.
- 2 **Tayfur, G.** and Singh, V.P. 2003. ‘Intelligence methods to predict discharge from event based rainfall-runoff’. In *Advances in Hydrology* (eds) V.P.Singh and R.N. Yadava, Allied Publishers, pp. 353-375.
- 1 **Tayfur, G.** and Singh, V.J. 2003. ‘Artificial intelligence models to predict longitudinal dispersion coefficient in natural streams’. In *Environmental Pollution* (eds) V.P.Singh and R.N. Yadava, Allied Publishers, pp. 353-375.

Book Editor

4. IWA-PPFW 2017 2nd IWA Regional Symposium on Water, Wastewater and Environment, The Past, Present and Future of World’s Water Resources, **22-24 March 2017**, Cesme, Izmir, Turkey, Proceedings Book. Editors: Alper Baba, Orhan Gunduz, Gokmen Tayfur
3. Climate Change and Its Effects on Water Resources. Nato Science for Peace and Security Series C: Environmental Security, Vol.3. Editors: Baba, A., Tayfur, G., Gunduz, O., Howard, KWF, Friedel, MJ and Chaubel, A. 2011, 318 p, ISBN: 978-94-007-1142-6
2. “Environment and Resources” Editors: Baba, A., Helvacı, C. ve Tayfur, G. Izmir, Turkey
1. Proceedings of the International Conference on Fluvial Hydraulics, Riverflow2008, Volume 2, Editors: Altınakar, MS, Kokpınar, MA, Gogus, M, **Tayfur, G.**, Kumcu, S.Y., Yildirim, N.

CITATIONS (as of June 05, 2022; Web of Science)

h-index: 26

Sum of Times Cited: 1944

SCI MAKALE YAYINLAR

92. Numerical, and Soft Modelling Approaches for Non-Cohesive Sediment Transport
Tayfur, G
Mar 2021 | Jan 2021 (Early Access) | ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL 8 (1), pp.37-58
91. Identification of groundwater potential zones in Kabul River Basin, Afghanistan
Tani, H and Tayfur, G
Nov 2021 | GROUNDWATER FOR SUSTAINABLE DEVELOPMENT 15
90. Reverse Flood Routing in Rivers Using Linear and Nonlinear Muskingum Models
Badfar, M; Barati, R; (...); Tayfur, G
Jun 1 2021 | JOURNAL OF HYDROLOGIC ENGINEERING 26 (6)
89. Discrepancy precipitation index for monitoring meteorological drought
By: Tayfur, Gokmen
JOURNAL OF HYDROLOGY Volume: 597 Article Number: 126174 Published: JUN 2021

88. Spatial and temporal of variation of meteorological drought and precipitation trend analysis over whole Mauritania By: Yacoub, Ely; Tayfur, Gokmen JOURNAL OF AFRICAN EARTH SCIENCES Volume: 163 Article Number: 103761 Published: MAR 2020
87. Estimation groundwater total recharge and discharge using GIS-integrated water level fluctuation method: a case study from the Alasehir alluvial aquifer Western Anatolia, Turkey By: Simsek, Celalettin; Demirkesen, Ali Can; Baba, Alper; et al. ARABIAN JOURNAL OF GEOSCIENCES Volume: 13 Issue: 3 Article Number: 143 Published: FEB 3 2020
86. Soil erosion model tested on experimental data of a laboratory flume with a pre-existing rill By: Aksoy, Hafzullah; Gedikli, Abdullah; Yilmaz, Murat; et al. JOURNAL OF HYDROLOGY Volume: 581 Article Number: 124391 Published: FEB 2020
85. Prediction of rainfall runoff-induced sediment load from bare land surfaces by generalized regression neural network and empirical model By: Tayfur, Gokmen; Aksoy, Hafzullah; Eris, Ebru WATER AND ENVIRONMENT JOURNAL Volume: 34 Issue: 1 Pages: 66-76 Published: FEB 2020
84. Data pre-post processing methods in AI-based modeling of seepage through earthen dams By: Sharghi, Elnaz; Nourani, Vahid; Behfar, Nazanin; et al. MEASUREMENT Volume: 147 Article Number: UNSP 106820 Published: DEC 2019
83. Generalized Regression Neural Network and Empirical Models to Predict the Strength of Gypsum Pastes Containing Fly Ash and Blast Furnace Slag By: Erdem, Tahir Kemal; Cengiz, Okan; Tayfur, Goekmen ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING
82. Groundwater recharge estimation using HYDRUS 1D model in Alasehir sub-basin of Gediz Basin in Turkey By: Tonkul, Serhat; Baba, Alper; Simsek, Celalettin; et al. ENVIRONMENTAL MONITORING AND ASSESSMENT Volume: 191 Issue: 10 Article Number: 610 Published: OCT 2019
81. Trend analysis of temperature and precipitation in Trarza region of Mauritania By: Yacoub, Ely; Tayfur, Gokmen JOURNAL OF WATER AND CLIMATE CHANGE Volume: 10 Issue: 3 Pages: 484-493 Published: SEP 2019
80. Two dimensional bed deformation model in turbulent streams By: Gharehbaghi, Amin; Kaya, Birol; Tayfur, Gokmen AUSTRALIAN JOURNAL OF CIVIL ENGINEERING Volume: 17 Issue: 2 Pages: 73-84 Published: JUL 3 2019
79. Predicting flood plain inundation for natural channels having no upstream gauged stations By: Kaya, C. Melisa; Tayfur, Gokmen; Gungor, Oguz JOURNAL OF WATER AND CLIMATE CHANGE Volume: 10 Issue: 2 Pages: 360-372 Published: JUN 2019
78. Flood Hydrograph Prediction Using Machine Learning Methods By: Tayfur, Gokmen; Singh, Vijay P.; Moramarco, Tommaso; et al. WATER Volume: 10 Issue: 8 Article Number: 968 Published: AUG 2018
77. Numerical Modeling of Two Dimensional Flood Wave Propagation in Residential Areas After the Dambreak By: Elci, Sebnem; Tayfur, Gokmen; Haltas, Ismail; et al. TEKNİK DERGI Volume: 28 Issue: 3 Pages: 7955-7975 Published: JUL 2017
76. Modern Optimization Methods in Water Resources Planning, Engineering and Management

- By: **Tayfur, Gokmen**
 WATER RESOURCES MANAGEMENT Volume: 31 Issue: 10 Pages: 3205-3233 Published: AUG 2017
75. Empirical Sediment Transport Models Based on Indoor Rainfall Simulator and Erosion Flume Experimental Data
 By: Aksoy, Hafzullah; Eris, Ebru; **Tayfur, Gokmen**
 LAND DEGRADATION & DEVELOPMENT Volume: 28 Issue: 4 Pages: 1320-1328 Published: MAY 2017
74. Evaluation of a physically based quasi-linear and a conceptually based nonlinear Muskingum methods
 By: Perumal, Muthiah; **Tayfur, Gokmen**; Rao, C. Madhusudana; et al.
 JOURNAL OF HYDROLOGY Volume: 546 Pages: 437-449 Published: MAR 2017
73. Investigating a Suitable Empirical Model and Performing Regional Analysis for the Suspended Sediment Load Prediction in Major Rivers of the Aegean Region, Turkey
 By: Ulke, Asli; **Tayfur, Gokmen**; Ozkul, Sevinc
 WATER RESOURCES MANAGEMENT Volume: 31 Issue: 3 Pages: 739-764 Published: FEB 2017
72. Analysis and Assessment of Hydrochemical Characteristics of Maragheh-Bonab Plain Aquifer, Northwest of Iran
 By: Fijani, Elham; Moghaddam, Asghar Asghari; Tsai, Frank T. -C.; et al.
 WATER RESOURCES MANAGEMENT Volume: 31 Issue: 3 Pages: 765-780 Published: FEB 2017
71. Evaluation and Assessment of Meteorological Drought by Different Methods in Trarza Region, Mauritania
 By: Yacoub, Ely; **Tayfur, Gokmen**
 WATER RESOURCES MANAGEMENT Volume: 31 Issue: 3 Pages: 825-845 Published: FEB 2017
70. Numerical Simulation of Flood Wave Propagation in Two-Dimensions in Densely Populated Urban Areas due to Dam Break
 By: Haltas, Ismail; Elci, Sebnem; **Tayfur, Gokmen**
 WATER RESOURCES MANAGEMENT Volume: 30 Issue: 15 Pages: 5699-5721 Published: DEC 2016
69. Rainfall-Runoff Model Considering Microtopography Simulated in a Laboratory Erosion Flume
 By: Aksoy, Hafzullah; Gedikli, Abdullah; Unal, N. Erdem; et al.
 WATER RESOURCES MANAGEMENT Volume: 30 Issue: 15 Pages: 5609-5624 Published: DEC 2016
68. Editorial: Water Resources Management in a Changing World: Challenges and Opportunities
 By: **Tayfur, Gokmen**; Onoz, Bihret; Cancelliere, Antonino; et al.
 WATER RESOURCES MANAGEMENT Volume: 30 Issue: 15 Pages: 5553-5557 Published: DEC 2016
67. Two-dimensional numerical modeling of flood wave propagation in an urban area due to Urkmez dam-break, Izmir, Turkey
 By: Haltas, Ismail; Tayfur, Gokmen; Elci, Sebnem
 NATURAL HAZARDS Volume: 81 Issue: 3 Pages: 2103-2119 Published: APR 2016
66. Reverse Flood Routing in Natural Channels using Genetic Algorithm
 By: Zucco, G.; **Tayfur, G.**; Moramarco, T.
 WATER RESOURCES MANAGEMENT Volume: 29 Issue: 12 Pages: 4241-4267 Published: SEP 2015

65. Fuzzy Logic for Rainfall-Runoff Modelling Considering Soil Moisture
By: **Tayfur, Gokmen**; Brocca, Luca
WATER RESOURCES MANAGEMENT Volume: 29 Issue: 10 Pages: 3519-3533 Published: AUG 2015
64. Katsanou, K.; Lambrakis, N.; **Tayfur, G.**; Baba, A. 2015. 'Describing the Karst Evolution by the Exploitation of Hydrologic Time-Series Data.' WATER RESOURCES MANAGEMENT Volume: 29 Issue: 9 Pages: 3131-3147 Published: JUL 2015
63. Yerdelen, C.; Mertsoy, M.; **Tayfur, G.** 2015. 'Investigation of Manning Coefficient Caused by Rigid Body Plants.' TEKNİK DERGI Volume: 26 Issue: 2 Pages: 7055-7076 Published: APR 2015
62. **Tayfur, Gokmen**; Bektas, Birkan; Duvarci, Yavuz. 2014. 'SIGNIFICANCE OF RENT ATTRIBUTES IN PREDICTION OF EARTHQUAKE DAMAGE IN ADAPAZARI, TURKEY .' NEURAL NETWORK WORLD Volume: 24 Issue: 6 Pages: 637-653 Published: 2014
61. Guney, M. S.; **Tayfur, G.**; Bombar, G.; et al. 2014. 'Distorted Physical Model to Study Sudden Partial Dam Break Flows in an Urban Area JOURNAL OF HYDRAULIC ENGINEERING Volume: 140 Issue: 11 Article Number: 05014006 Published: NOV 2014
60. Pulat, Hasan Firat; **Tayfur, Gokmen**; Yukselen-Aksoy, Yeliz. 2014. 'Developing cation exchange capacity and soil index properties relationships using a neuro-fuzzy approach.' BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT Volume: 73 Issue: 4 Pages: 1141-1149 Published: NOV 2014
59. **Tayfur, Gokmen**; Erdem, Tahir Kemal; Kirca, Onder. 2014. 'Strength Prediction of High-Strength Concrete by Fuzzy Logic and Artificial Neural Networks', JOURNAL OF MATERIALS IN CIVIL ENGINEERING Volume: 26 Issue: 11 Article Number: 04014079 Published: NOV 2014
58. **Tayfur, Gokmen**; He, Zhiguo; Ran, Qihua, 2014. 'Finite volume method solution of pollutant transport in catchment sheet flow ' HYDROLOGY RESEARCH Volume: 45 Issue: 2 Pages: 182-189.
57. **Tayfur, Gokmen**; Karimi, Yashar, 2014. 'Use of principal component analysis in conjunction with soft computing methods for investigating total sediment load transferability from laboratory to field scale' HYDROLOGY RESEARCH Volume: 45 Issue: 4-5 Pages: 540-550.
56. **Tayfur, Gokmen**; Nadiri, Ata A.; Moghaddam, Asghar A. 2014. 'Supervised Intelligent Committee Machine Method for Hydraulic Conductivity Estimation' WATER RESOURCES MANAGEMENT Volume: 28 Issue: 4 Pages: 1173-1184.
55. **Tayfur, Gokmen**; Zucco, Graziano; Brocca, Luca; Moramarco, Tommaso. 2014. 'Coupling soil moisture and precipitation observations for predicting hourly runoff at small catchment scale' JOURNAL OF HYDROLOGY Volume: 510 Pages: 363-371.
54. Bayram, Adem; Kankal, Murat; **Tayfur, Gokmen**; Onsoz, Hızir. 2014. 'Prediction of suspended sediment concentration from water quality variables ' NEURAL COMPUTING & APPLICATIONS Volume: 24 Issue: 5 Pages: 1079-1087.
53. **Tayfur, G.**; Karimi, Y.; Singh, V.P. 2013. 'Principle Component Analysis in Conjunction with Data Driven Methods for Sediment Load Prediction .' WATER RESOURCES MANAGEMENT Volume: 27 Issue: 7 Pages: 2541-2554.
52. **Tayfur, G.**; Egeli, I. 2013. 'Railway embankment design based on neural networks'

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