**Olcay ÜNVER, Ph.D.**

Professor of Practice, Environmental and Resource Management Program

Peralta Hall 335Q, Polytechnic School, Fulton Schools of Engineering

Arizona State University, Mesa, Arizona 85212

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**HIGHER EDUCATION**

Ph.D. in Civil Engineering, 09/1981 to 08/1987

Major subjects: Water resources planning and management, simulation and optimal management of river systems

University of Texas, Austin, Texas, U.S.A.

M.Sc. in Civil Engineering, 09/1979 to 05/1981

Major subjects: Water resources engineering and hydrology, urban water supply and drainage

Middle East Technical University, Ankara, Turkey

B.S. in Civil Engineering, 09/1973 to 02/1979

Major subjects: Hydrology, hydraulics, water resources

Middle East Technical University, Ankara, Turkey

**POSITIONS HELD**

**Professor of Practice, Arizona State University**, Fall 2020 to date

Fulton Schools of Engineering, The Polytechnic School, Environmental and Resource Management Program

* Teaches upper level and graduate level courses “Water and Food Security”, “International Environmental Management”, “International Environmental Law and Policy”, “Soils & Groundwater Contamination”, “Water Law and Policy”.
* Supervises, guides, and mentors students.
* Collaborates with various groups in research and outreach.

**Adjunct Industry Fellow, Griffith University, Australia,** December 2020 to date

Australian Rivers Institute

* Collaborates and networks with colleagues on topics of common interest.

**Senior Water Advisor,** April 2019 to October 2020 and May 2021 to date

**Food and Agriculture Organization of the United Nations (FAO), Rome, Italy**

* Strategic advice and review for the flagship report *State of Land and Water Resources in Food and Agriculture, 2021.*
* *Advice for Project “Improved Water Governance in Azerbaijan”.*
* Guidance on strategic issues regarding water and sustainable development; climate change and natural resource management; water efficiency and agricultural productivity; water and tenure, migration, nutrition and sustainable intensification.

**Senior International Advisor and Task Force Co-chair***, October 2021 to date*

Intergovernmental Hydrological Programme (IHP), UNESCO, Paris, France

* Review of the Strategic Plan 2022-2029, for the 9th Phase of IHP, identifying water-related priorities and related outputs.
* Development of the IHP Operational Implementation Plan for the 2022-2029 period.
* Facilitating stakeholder consultations and finalize the plan and the key performance indicators at output level.
* Co-chairing the UNESCO-Water Future Task Force on Science-Policy Interlinkages for “Science for SDG6: A pathway to accelerate the implementation of SDGs”.

**Vice Chair, UN-Water** August 2018 to October 2020

(UN-Water is the United Nations inter-agency coordination mechanism for all freshwater related matters, including sanitation)

* Led Joint Steering Group, which is responsible for all operational matters of UN-Water, work and budget planning, and implementation of the decisions.
* Oversaw UN-Water Technical Advisory Unit and preparations for decisions of strategic importance; guided the incorporation of regional, sub-regional and country perspectives in the work of UN-Water; and liaised with the stakeholders and resource partners and represented the Chair in UN and other platforms.

**Deputy Director, Land and Water Division,** 13 September 2013-28 February 2019

**Food and Agriculture Organization of the United Nations (FAO), Rome, Italy**

* Led a multi sectoral team of water, land, soil, and biodiversity professionals; managed a diverse portfolio of programmes and projects in water and land resources; and coordinated various technical units and entities; served as a member of FAO SDG team.
* Conducted the biennial work planning, annual implementation program, and reporting of the Division according to the strategic objectives of FAO, aligned with the Sustainable Development Goals; coordinated the climate change related water, land, soil, and ecosystem work and reviewed the adaptation and mitigation outcomes.
* Planned, coordinated and monitored capacity development programs, courses, and webinars.
* Led the multi-stakeholder partnership WASAG (Global Framework on Water Scarcity in a Changing Climate), and the FAO Water Platform.
* Supervised over 40 professionals and covered an annual budget of USD 5.5 million and an extrabudgetary portfolio of over USD 25 million.
* Represented FAO in global forums, international platforms, boards and committees.

**Coordinator, the United Nations World Water Assessment Programme (WWAP); and Director, UNESCO Programme Office for Global Water Assessment, Paris, France,** May 2007-June 2009 **and Perugia, Italy,** June 2009-September 2013

* Transformed project-based assessment work into an established program with in-house capability and led the United Nations World Water Assessment Programme, establishing strong partnerships and coordination with UN agencies, non-UN institutions and stakeholders.
* Led the preparation of the United Nations World Water Development Reports (WWDR) and produced WWDR 3 (2009), WWDR 4 (2012) and WWDR 5 (2014).
* Supervised and guided the transboundary water cooperation program of UNESCO and helped advance the mutual understanding, cooperation and solidarity between countries and stakeholders in transboundary basins, through joint activities and capacity support.
* Established an intersectoral dialogue series of publications providing further breadth to WWDR in food, energy, environment and health; a specialization series providing in-depth knowledge in water resources, water services and hydrology; and developed the World Water Futures Programme (now implemented by IIASA).
* Served on the Task Group that developed the draft texts for SDG 6 and provided assistance to the UN Technical Support Team (TST) in finalizing SDG 6.
* Supervised all relevant administrative and managerial activities and some 40 professionals.
* Managed an annual budget of USD 4 million, and an extrabudgetary portfolio of USD 800,000.

**Visiting Distinguished Professor of Water Resources,** August 2004 to May 2007

**Kent State University, Ohio, United States of America**

* Developed and implemented international projects and research, which included establishing and leading ETIC, Euphrates-Tigris Initiative for Cooperation, covering Iraq, Syria, Turkey and Iran; a capacity building programme for Iraqi water sector; collaborative capacity building of water managers from Iran, Iraq, Syria, and Turkey; and a series of dialogue events between officials, professionals, academics, and business people from these countries.
* Established and coordinated a core, lead group of academics from the Euphrates-Tigris riparian countries; raised and managed the equivalent of USD 400,000 from UNESCO, US Department of State and Bahcesehir University of Turkey.

**Senior Advisor,** July 2003 to August 2004

**Prime Minister's Office, State Planning Organization, Ankara, Turkey**

* Provided advice on matters regarding water resources, sustainable development, and international water and cooperation issues.

**President,** May 1991 to July 2003

**Southeastern Anatolia Project (GAP) Regional Development Administration, Ankara, Turkey**

* Transformed an infrastructure project consisting of dams, power plants, and irrigation systems into a socioeconomic development program, which entailed planning, coordination and monitoring of activities in agriculture, energy, transport-telecom, industry, health, education, and urban-rural infrastructure, and business development with a sustainability focus.
* Led the development authority of 400+ staff members, managed USD 10+ million direct annual budget allocation, raised and managed over USD 70 million and planned the allocation of USD 100-500 million worth of investments annually.
* Raised over USD 70 million from the European Union, Switzerland, U.S.A., Japan, Canada, and France; UNDP, UNICEF and various international organizations; and foundations and charities such as Packard Humanities Institute, Rotary International, and National Science Foundation. Led the development of the sustainable development definition and norms for GAP, established its multi-sector program and managed its implementation. Initiated special projects to improve the status of women, to support youth employment, for the sustainable use of natural resources and entrepreneurship development. Initiated cooperative programs with counterpart organizations from countries such as Syria, Egypt, Macedonia, Afghanistan, Israel, U.S.A., Italy, and France. Received awards and mention nationally and internationally; featured in the Time Magazine and New York Times.

**Regional Director,** November 1989 to May 1991

**Southeastern Anatolia Project (GAP) Regional Development Administration, Sanliurfa, Turkey**

* As the founding Regional Director of the Administration, established the monitoring and evaluation scheme for natural resource development projects, indicators for investments and economic development; set up partnerships with local and regional public entities, municipalities, and NGOs.
* Supervised the social and economic development efforts as well as water resources programs; provided public policy support to the Government.
* Managed 20+ employees.

**Water Resources Specialist,** August 1988 to November 1989

**Prime Minister's Office, State Planning Organization, Sanliurfa, Turkey**

* Established a monitoring an evaluation system for water resources development and supervised the water resources, irrigation, energy and environment components of the GAP Master Plan Study.
* Managed a team of 5 specialists.

**Water Resources Engineer,** June 1986 to June 1988

**Lower Colorado River Authority, Austin, Texas, United States of America**

Developed simulation and optimization models and their respective computer programs for the management of the Lower Colorado River, which entailed the operations of six dams, five hydropower plants, irrigation water for 100,000 acres, environmental flows, cooling water for a nuclear power plant and water supply. Also developed rainfall-runoff models for the river basin; linked the models; and installed, tested and calibrated the computer programs; assisted in real-time flood operations, and prepared post-flood report of benefits of computer-aided flood management.

**Research Assistant and Research Associate,** January 1984 to May 1986

**The University of Texas at Austin**

River and reservoir modelling, water resources management, rainfall-runoff modelling.

**Project Engineer,** September 1979 to May 1980

**Metropolitan Municipality of Ankara, Turkey**

Urban sewerage; modelling and calibration of rainwater drainage and wastewater collection networks.

**EDITORIAL TASKS**

Specialty Chief Editor

Water-Smart Food Production (Frontiers in Sustainable Food Systems), 2020 to date

Editorial Boards

* Water Security Journal, Elsevier, 2017 to date
* Frontiers in Sustainable Food Systems (Water-Smart Food Production specialty section), 2020 to date
* Future of Food: Journal on Food, Agriculture and Society, University of Kassel, Germany, 2017 to date
* International Journal of Water Resources Development, Carfax, 1998 to 2004
* Hydro Review Worldwide, PenWell, 1997 to 2002

Guest Editor

* Water, MDPI, 2021 to date
* Resources, MDPI, 2019
* International Journal of Water Resources Development, Carfax, Vol 13, 1997

**FELLOWSHIPS, SCHOLARSHIPS, RECOGNITIONS**

* Fellow, International Water Resources Association, Illinois, U.S., elected in 2000
* Science Fellow/Scholar, North Atlantic Treaty Organization (NATO), 1981-1984
* Honor Fellow, Turkish Scientific & Technical Research Council, 1981-1987
* Member, PRIMA Scientific Evaluation Committee, Horizon 2020, European Union, 2020-2022
* Member, RemTech Europe Scientific Committee, Ferrara, Italy, 2021 to date
* Recipient of World Water Council Special Service Award, 2003.
* Recipient of IWRA Millennium Award, 2000.
* Evaluation Committee Member, EXPO 2020, Dubai, Best Practices Award, 2019-2020
* Jury Member, Stockholm Water Prize, SIWI, 2010-2015
* Jury Member, Water for Life Best Practices Award, UN-Water, 2011-2013
* Jury Member, World Irrigation and Drainage Prize, ICID, 2016-2019
* International Scientific Committee Chair, IWRA XII World Water Congress, New Delhi, India, 2005
* External Evaluator, SUNY-YOK Dual Degree Program, U.S. Department of State, 2004
* European Visionary, featured by the Time Magazine in the 1998-1999 Special Winter Issue on Europe (“Visions of Europe”) as one of the 19 European visionaries.

 <https://www.academia.edu/2411651/Time_Magazine_piece_December_1998>

* Featured in New York Times’ May 29, 1997 issue.

<https://www.academia.edu/2411587/New_York_Times_article_by_Stephen_Kinzer_May_29_1997>

**PROFESSIONAL/SCIENTIFIC GROUPS, PROGRAMS AND SOCIETIES**

Clean Energy Technologies Institute

International Advisory Board Member, 2022 to date

Yildiz Technical University, Istanbul, Turkey

Water Security Coalition

Member, 2021 to date

Convened/hosted by Wilson Center, Washington, D.C.

Human Right 2 Water

Board Member, 2022 to date (member since 2020)

Geneva, Switzerland

Water Policy Group

Member, 2019 to date

<http://waterpolicygroup.com>

Hosted by Univesity of New South Wales, Sydney, Australia

G20 2020: Realizing Opportunities of the 21st Century For All

Observer, Agriculture and Water Ministers Track. 2020. Riyadh, Saudi Arabia.

Speaker and observer, Water Deputies Track. July-September 2020. Riyadh, Saudi Arabia.

Sustainable Agriculture and Food Systems Structured Doctoral Program

Advisory Board Member, 2018 to date

Agricultural University of Georgia and Kassel University (Germany) joint program

Mediterranean Universities Union (UNIMED)

Observer in Food and Water Sub-Network, 2018-2019

Founded in 1991, UNIMED is an association of 112 Universities from 23 countries. Water for food is a priority area and the theme for one of its seven sub-networks.

Action Platform for Source-to-Sea Management (S2S)

Steering Committee Member, 2017-2019

Hosted and supported by the Stockholm International Water Institute, S2S is a multi-stakeholder initiative to connect freshwater, coastal and marine communities in collaborative projects and promote best practices in the management of land, water, coastal and marine linkages.

Water Joint Programming Initiative (JPI) of European Commission

Advisory Board Member, 2016-2019

Water JPI is one of the ten JPIs developed by the EC as a means to advance the formation and realization of the “European Research Area” in responding to the ‘Grand Challenges’. Water JPI is composed of 22 member and 3 observer countries and the European Commission.

CGIAR Water, Land and Ecosystems Program (WLE)

Steering Committee Member, 2014-2019

Led by International Water Management Institute, and partnered by 11 CGIAR institutes and FAO, WLE is a global research-for-development program working through partnerships to provide sustainable solutions for people and societies.

FAO Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests (VGGT)

Steering Committee Member, 2013-2019

VGGT supports countries to achieve food security for all and the progressive realization of the right to adequate food in the context of national food security.

World Water Council

Member, Board of Governors, 1995-2005 and 2015-2019

Treasurer, elected by Board of Governors, 2000-2003

Chairman, Finance Committee, elected by Board of Governors, 1998-2000

Euphrates-Tigris Initiative for Cooperation (ETIC)

Founder and Coordinator, 2005-2007

ETIC is a riparian initiative of scholars from Iraq, Syria, and Turkey with a mission to mobilize collective expertise, catalyze processes and develop appropriate partnerships to encourage regional cooperation and development to improve the quality of life in the Euphrates-Tigris Region.

Kalpasar Development Project, Government of Gujarat, India

Expert Advisory Committee Member, 2003-2006

Provided expert policy advice as to the social and environmental aspects of development.

International Water Resources Association

Vice President for the Europe and Middle East Region, elected by General Assembly, 2004-2006

Secretary General, elected by General Assembly, 2001-2003

International Hydropower Association

Council Member, elected by General Assembly, 1997-2000

Club of Tokyo, Japan, 2000-2004

Member

Black Sea Economic Cooperation Foundation of the U.S., Washington, D.C.

Member of Agribusiness Council, 1997-2002

12th World Water Congress, International Water Resources Association

Chair, International Steering Committee, Delhi, India, November 2005.

**ACADEMIC ADVISING**

* Currently advises 4 M.S. students, and is committee member for a doctoral student at Arizona State University.
* Doctoral committee member at University of Kassel, Germany. Urban water security, urban water management. 2020.
* Doctoral committee member at Aalto University, Finland. Water scarcity, food supply, food loss and waste. 2019.
* Doctoral committee member at University of Madrid, Spain. Water implications of actual dietary trends in Spain vs Mediterranean Diet. 2018.
* M.S. committee member at University of Kassel, Germany. Water productivity of irrigated and rainfed rice in Southeast Asian countries. 2018.
* Honorary senior advisor to Joint Structured Doctoral Program on Sustainable Agricultural and Food Systems, University of Kassel, Germany and Agricultural University of Georgia, Tbilisi, Georgia. 2018 to date.

**Olcay Unver, Ph.D.**

**PUBLICATIONS**

**AUTHORED/EDITED BOOKS AND JOURNALS**

*Sustainable Development and Water Security,* Sustainability Matters Series,Agenda Publishing Ltd., Newcastle Upon Tyne, United Kingdom. Scheduled to be published late 2023/early 2024. (with Melvyn Kay).

*The Elgar Companion to Water Security and Sustainable Development*, Elgar Companions to the Sustainable Development Goals series, Edward Elgar Publishing Inc., Northampton, MA, United States. Scheduled to be published in 2024. (with Anik Bhaduri and Sayed Iftekhar).

*Asia-Pacific Water Policy Report: Listening to National Water Leaders,* Water Policy Group, 2021. University of New South Wales Sydney publication. 6 June 2022. (with A Slatyer et al.).

*Africa Water Policy Report,* Water Policy Group, 2022. University of New South Wales Sydney publication. 22 March 2022. (with A Slatyer et al.).

*Global Water Policy Report 2021: Listening to National Water Leaders,* Water Policy Group, 2021. University of New South Wales Sydney publication. 29 November 2021. (with A Slatyer et al.).

*Water Cooperation: Views on Progress and Way Forward*, United Nations University, 2015, (with Z Adeel, S Aslov, J Maestu).

*Water for Regional Development*, Oxford University Press, ISBN 0 19 565794, 2004, (with A Biswas, C Tortajada).

Chief Editor, *Water Development and Poverty Reduction*, Kluwer Academic Publishers, ISBN 1-4020-7431-X, 2003.

Chief Editor, *Water Resources Management: Cross Cutting Issues*, Middle East Technical University Press, Ankara, Turkey, ISBN 975-7064-57-2, 2002.

Guest Editor, Special Issue: Water Resources Development in a Holistic Socioeconomic Context: The Turkish Experience, *International Journal of Water Resources Development,* Carfax Publishing Co., Vol 13, No 4, 1997.

Guest Editor, Special Issue: Coping with Water Scarcity in Agriculture, *Resources*, MDPI, ISSN 2079-9276, October 2019.

**BOOK CHAPTERS**

Concept design and process facilitation for *“State of Land and Water Resources for Food and Agriculture 2021 (SOLAW 21) Main Report”;* lead author of *“Chapter 5. Responses and Action Areas” and “Chapter 6. Conclusions and Recommendations”.* Food and Agriculture Organization of the United Nations. <https://doi.org/10.4060/cb9910en> , Rome, Italy. 2022.

Concept design and process facilitation for *“State of Land and Water Resources for Food and Agriculture 2021 (SOLAW 21) Synthesis Report”* and lead author of *“Chapter 4. Responses to Risks and Actions”.* Food and Agriculture Organization of the United Nations. <https://doi.org/10.4060/cb7654en> , Rome, Italy. 2021.

Drivers, Pressures and Stressors: The Societal Framework of Water Resources Management, (with L Salame et al), in *“Handbook of Water Resources Management: Discourses, Concepts and Examples”,* eds. J J Bogarde et al, Springer, ISBN 978-3-030-60145-4, <https://doi.org/10.1007/978-3-030-60147-8> , Switzerland, 2021.

Global Assessment Report on Disaster Risk Reduction (GAR) Special Report on Drought 2021. *Lead author.* United Nations Office for Disaster Risk Reduction. ISBN: 9789212320274, <https://www.undrr.org/publication/gar-special-report-drought-2021> , Geneva. June 2021.

Drought Management in the Euphrates-Tigris Basin (with A. Kibaroglu, D. Yildiz, and H. Ozguler), in: “*GAR Special Report on Drought 2021”,* United Nations Office for Disaster Risk Reduction. <https://www.preventionweb.net/publication/euphrates-tigris-case-study> , Geneva. June 2021.

Endangered Food Security (with E. Mansur and M. Kay), in: “*Sustainability of Engineered Rivers in Arid Lands: Challenge and Response*”, eds. J. Schmandt & A. Kibaroglu. Cambridge: Cambridge University Press. 2021.

Land and water governance, poverty, and sustainability (with E Mansur), in “*Sustainable Food and Agriculture: An Integrated Approach,” e*ds. C Campanhola and S Pandey, Elsevier, ISBN: 978-0-12-812134-4, January 2019.

Water scarcity and challenges for smallholder agriculture (with M Giordano and J Barron), in “*Sustainable Food and Agriculture: An Integrated Approach*,” eds. C Campanhola and S Pandey, Elsevier, ISBN: 978-0-12-812134-4, January 2019.

Water and rural poverty (with P Mejias-Moreno et al), in “World Water Development Report 2019: leaving no one behind,” UNESCO Publishing, March 2019.

Setting the scene (with J Mateo-Sagasta, SM Zadeh, M De Souza, H Turral, J Burke), in “*More people, more food, worse water?: a global review of water pollution from agriculture*,” eds. Mateo-Sagasta, J., Zadeh, S. M., Turral, H., Rome, Italy: FAO; Colombo, Sri Lanka: International Water Management Institute (IWMI). CGIAR Research Program on Water, Land and Ecosystems (WLE), pp.3-13, 2018.

Nature-based solutions for managing water availability (with A Alfarra, T Turton et al), in *“World Water Development Report 2018: nature-based solutions for water,*” UNESCO Publishing, pp.37-50, 2018.

Agriculture (with SM Zadeh et al), in *“World Water Development Report 2017: wastewater, the untapped resource,*” UNESCO Publishing, pp.70-77, 2017.

Water and jobs in the agriculture-food sector (with MA Even et al), in “*World Water Development Report 2016: water and jobs*,” UNESCO Publishing, pp.38-44, 2016.

Foreword to "*Key Concepts in Water Resource Management: A Review and Critical Evaluation”* by J Lautze, Routledge, 2014.

Foreword to *“Toward a sustainable water future: visions for 2050”*, eds. W M Grayman, D P Loucks, L Saito, American Society of Civil Engineers, 2012.

Preface to “*The United Nations World Water Development Report 4: Managing Water under Uncertainty and Risk*,” UNESCO Publishing, 2012.

Agriculture and Water Elements from The UN World Water Development Report, in *Water and Agriculture Implications for Development and Growth*, eds. Briscoe et al., Center for Strategic and International Studies, Washington, D.C., USA, 2009. [https://csis-website-prod.s3.amazonaws.com/s3fs-public/legacy\_files/files/publication/091104\_Peterson\_Water&Agri\_WEB.pdf](https://csis-website-prod.s3.amazonaws.com/s3fs-public/legacy_files/files/publication/091104_Peterson_Water%26Agri_WEB.pdf)

The way forward, in “*The United Nations World Water Development Report 3: Water in a Changing World,”* UNESCO Publishing, 2009 (with A Bullock, W Cosgrove, F Attia, G Galloway, J Moss, U Shamir, and A Wright).

Preface to “*The United Nations World Water Development Report 3: Water in a Changing World,”* UNESCO Publishing, 2009, (with W Cosgrove).

Options from beyond the water box in “*The United Nations World Water Development Report 3: Water in a Changing World,”* UNESCO Publishing, 2009, (with R Cosgrove, J Talafré, R Connor, W Cosgrove, and G de Gooijer).

Getting out of the box – linking water to decisions for sustainable development in “*The United Nations World Water Development Report 3: Water in a Changing World,”* UNESCO Publishing, 2009, (with A Bullock, W Cosgrove, W Hoek, J Winpenny, G Galloway, and B Heij).

Water-Based Sustainable Integrated Regional Development, in *“Water Resources Sustainability*”, ed. L W Mays, McGraw-Hill, ISBN 0071462309, 2007.

Participative water-based regional development in the South-Eastern Anatolia Project (GAP): a pioneering model, in “*Water as a focus for regional development*”, eds. O Unver, A Biswas, C Tortajada, Oxford University Press, 154-189, 2004 (with R Gupta).

**PAPERS IN PEER-REVIEWED JOURNALS**

Stakeholder Engagement and Perceptions on Water Governance and Water Management in Azerbaijan. Water. In review. Submitted on 20 April 2023. (with Colby Howell and Aaron Cortado).

Escalating Climate Crisis Reveals Need for New Paradigm for Water, commentary, IISD SDG Knowledge Hub, 11 January 2023. <https://sdg.iisd.org/commentary/guest-articles/escalating-climate-crisis-reveals-need-for-new-paradigm-for-water/> (with Hassan Aboelnga and Johannes Cullmann).

Barriers in Participative Water Governance: A Critical Analysis of Community Development Approaches. *Water*. 22 January 2022. <https://doi.org/10.3390/w14050762> (with S Withanachchi et al.).

Development for water, food and nutrition in a competitive environment — How NGOs and CSOs are reshaping traditional farmer irrigation advisory services. [Irrigation and Drainage](https://www.x-mol.com/paper/journal/27739?r_detail=1255940962665783296), 17 April 2020. DOI: [10.1002/ird.2444](https://www.x-mol.com/paperRedirect/1255940962665783296) (with M Kay; K Chavva; AA Amali; E Pek; M Salman)

Can the implementation of the Water-Energy-Food Nexus support economic growth in the Mediterranean region? The current status and the way forward. *Frontiers Environ. Sci.,* 02 July 2019, <https://doi.org/10.3389/fenvs.2019.00084> *(w*ith G Bidoglio et al.).

A comparison of the Mediterranean Diet and Current Food Consumption patterns in Spain from a nutritional and water perspective. *Science of the Total Environment*, [Volume 664](https://www.sciencedirect.com/science/journal/00489697/664/supp/C), 10 May 2019, 1020-1029 (with A Blas, A Garrido, and B Willaarts).

Alternative pathways to food security and nutrition: water predicaments and human behavior, Water Policy, IWA Publishing, 20 (5), 871-884, 2018, (with J Lundqvist).

Food Security by Optimal Use of Water: Synthesis of the 6th and 7th World Water Forums and Developments since then, Irrigation and Drainage, Wiley, Vol. 67, Issue 3, 327-344, 2018, (with P Steduto, B Schultz, S Ota, D Vallee, S Kulkarni and M D Johns Garcia).

Key and Smart Actions to Alleviate Hunger and Poverty through Irrigation and Drainage, Irrigation and Drainage, Wiley, 2018, Vol. 67, Issue 1, 60–71, 2018, (with R Wahaj, E Lorenzon, K Mohammadi, J R Osias, F Reinders, S Wani, J Chuchra, P Lee and I M Sangjun).

A thirst for food resilience: Integrating UNFCCC and SDG policies for food and agriculture, *Global Water Forum*, 16 Nov 2017, (with J Matthews, M White, S Bahije et al).

Editorial: Food security with equity through social and technological innovations, Future of Food Journal, Vol. 5, No. 2, 2017, University of Kassel, Germany.

Sustainable intensification of agriculture for human prosperity and global sustainability, *Ambio,* Vol. 46 (1), 4-17, 2017, (with J Rockström, J Williams, G Daily et al).

Nutrition-sensitive agriculture-what does it mean and which impact can it have in addressing actual malnutrition problems, *Annals of Nutrition and Metabolism 2017*, KL-144/3391, Karger Medical and Scientific Publishers, 2017 (with R Charrondiere, M Rahmanian, G Hemrich, J Toppe, G Muir, S Dahdouh, R Rolle, A Mottet, B Scherf).

Water-use efficiency and productivity improvements towards a sustainable pathway for meeting future water demand, *Water Security*, Elsevier, Vol. 1, 21-27, 2017, (with A Bhaduri, J Hoogeveen).

Water and Agriculture for Sustainable Development, Water Monographies, WM3-2015. pp 12-19. Publisher-Oficina de Naciones Unidas de apoyo al Decenio «El agua, fuente de vida» 2005-2015/Programa de ONU-Agua para la Promoción y la Comunicación en el marco del Decenio • WCCE - World Council of Civil Engineers • Fundación Aquae. 2015. <https://www.un.org/waterforlifedecade/pdf/wm-iii-eng.pdf>

Integrated Water Management Approaches for Sustainable Food Production, Irrigation and Drainage, Wiley, Vol. 63, Issue 2, 221-231, 2014, (with C D Fraiture, A Fayrap, R Ragab).

Policymakers’ reflections on water governance issues, Ecology and Society 18 (1), 2013, (with J Gupta, A Akhmouch, W Cosgrove, Z Hurwitz, J Maestu).

Global governance of water: a practitioner's perspective, *Global Governance*, Vol. 14 (4), 409-417, 2008.

Agricultural water use in Turkey, *Water International*, Vol. 29 (2), 257-264, 2004, (with B Cakmak, T Akuzum).

[Water pricing: Issues and options in Turkey](https://scholar.google.com/scholar?oi=bibs&cluster=5826749008595393675&btnI=1&hl=en), *International Journal of Water Resources Development,* 2003/6/1, Vol. 19, Issue 2, 311-330, 2003, (with R Gupta).

Evaluation du prix de l'eau en Turquie avec une reference speciale au projet du Sud Est de l'Anatolie, *Houille Blanche*, 92-98, 2003, (with R Gupta).

Southeastern Anatolia Development Project, Institute of Electrical and Electronics Engineers (IEEE) *Power Engineering Review*, U.S.A., Vol.22, No.3, 2002.

Institutionalizing the Sustainable Development Approach: Co-ordination across Traditional Boundaries, International Journal of Water Resources Development, Carfax Publishing Co., Vol. 17, No. 4, 511–520, 2001.

An Institutional Framework for Facilitating Cooperation in the Euphrates-Tigris River Basin,

International Negotiation, Kluwer Law International, Vol. 5, 311-330, 2000, (with A Kibaroglu).

Southeastern Anatolia Project (GAP), International Journal of Water Resources Development, Carfax Publishing Co., Vol 13, No 4, 453-483, 1997.

Editorial, International Journal of Water Resources Development, Carfax Publishing Co., Vol. 13, No. 2, 1997.

Southeastern Anatolia Integrated Development Project (GAP), Turkey: An Overview of Issues of Sustainability, International Journal of Water Resources Development, Carfax Publishing Co., Vol. 13, No. 2, 187-207, 1997.

Improvement of Canal Regulation Techniques in the Southeastern Anatolia Project (GAP) of Turkey, *Water International*, Vol 18, No 3, 1993, (with B Voron).

Improvement of Field Water Distribution and Irrigation Techniques in the Southeastern Anatolia Project (GAP) of Turkey, *Water International*, International Water Resources Association, Vol 1, No 3, 1993, (with B Voron).

A Self-Correction Technique for Real-Time Simulation of Regulated Rivers, *Water Resources Development,* Butterworth-Heinemann Ltd., London, Vol 8, No 4, 248-256, 1992.

Model for Real-Time Optimal Flood Control Operation of Reservoir Systems, *Water Resources Management*, Kluwer Academic Publishers, Volume 4, Issue 1, 21-46, 1990, (with L W Mays).

Real-Time Flood Management Model for Highland Lakes, *Journal of Water Resources Planning and Management*, A.S.C.E., Vol 113, No 5, 1987.

Optimal Determination of Loss Rate Functions and Unit Hydrographs, with L W Mays, Water Resources Research, Vol. 20, No. 2, 23-214, 1984, (with L W Mays and K Lansey).

**SELECTED REPORTS, PRESENTATIONS, SPEECHES, OPINION PIECES**

Keynote speaker. 2023 World Energy Strategies Congress and Exhibition. Yildiz Technical University. Istanbul. 20-23 August 2023. <https://wesce.org/keynote-speakers/>

Panelist. Sustainable Management of Land and Water: Making Ecosystems and Communities more Resilient to Drought and Floods, UNCCD side event for International Conference on Climate Risk, Vulnerability and Resilience Building. UNESCO Headquarters, Paris. 19 April 2023.

Speaker. Reforms, stakeholder engagement, and innovation in water sector to accelerate SDG achievement through transformative actions in Azerbaijan. Government of Azerbaijan, FAO, and IOM side event for UN 2023 Water Conference. UN Headquarters, New York. 24 March 2023.

Speaker. Climate Change, Wetlands and Women: Actions Towards Creating Resilient Communities and Ecosystems. Women for Water et. al. side event for UN 2023 Water Conference. UN Headquarters, New York and online. 21 March 2023.

Speaker. Focus on National Leadership for Inclusive Water Governance: Call for Renewed Water Action and Commitments, Government of South Africa and UN-Water side event for UN 2023 Water Conference. UN Headquarters, New York, 23 March 2023.

Opinion piece: “The UN Water Conference - Time to Govern Water as a Global Commons” (with Ines Dombrowsky and Annabelle Houdret). The Current Column. German Institute of Development and Sustainability (IDOS). Bonn, Germany. 20 March 2023.

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A global-scale look at trends in land and water resources governance. Speech at University of Arizona Udall Center for Studies in Public Policy. Tucson, Arizona. 27 February 2023.

Keynote speaker. Pathways to zero hunger, water and sanitation for all, and energy security\* (\*can we have our cake and eat it, too?). G-STIC Conference: Accelerating technological solutions for the SDGs. Rio de Janeiro, Brazil.13-15 February 2023. <https://www.gstic.org/rio/programme/13-february/?inrio=22703>

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Panel speaker on groundwater governance. UN-Water Summit on Groundwater. UNESCO. Paris. 7 December 2022. <https://groundwater-summit.org/sessions/governance/>

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Inaugural speech. Global Food and Water (In)security. Earth Care, Paradise Valley United Methodist Church, Arizona. 7 November 2022. <https://pvumc.org/earthcare/resources/> and <https://youtu.be/6MywlA9cmoU>

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