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Degrees

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| B.Sc. (1986) | Biology, National Autonomous University of Mexico, Mexico. |
| M.Sc. (1994) | Agricultural Sciences, College of Postgraduate Studies, Mexico, and Kagawa University, Faculty of Agriculture, Japan. |
| M.Sc. (1999) | Water Resources Management, Engineering Department, Royal Institute of Technology (KTH), Stockholm, Sweden. |
| M.Sc. (2007) | Law and Public Policy, Faculty of Law, University of Zaragoza, Spain. |
| Ph.D. (2001) | Double Doctorate. Doctor of Philosophy and Doctor of Technology, Water Resources Management, Engineering Department, Royal Institute of Technology (KTH), Stockholm, Sweden. |

Professional Experience

Over 25 years of experience on water, environment and natural resources management, agricultural development and capacity building. Working at present on impacts of global changes on water resources, environment, food and energy.

Advisor for several international and national organisations and development agencies, governments and development banks such as UNDP, UNEP, FAO, Canada International Development Research Center (IDRC), World Bank, Asian Development Bank, International Institute for Applied Systems Analysis (IIASA), Inter-American Development Bank, Japan Bank for International Cooperation (JBIC), Inter-American Institute for Cooperation of Agriculture (IICA), InWEnt Capacity Building International (now GIZ); as well as for national and state governments in Spain (Aragon), Germany (Berlin), Brazil, Cameroon, Democratic Republic of Congo, Egypt, Gujarat (India), Mexico, Sri Lanka and Turkey. Competencies also extend to collaborations with the Ford and Rockefeller Foundations; Sasakawa Peace Foundation and Nippon Foundation, Japan; Majlis El-Hassan Foundation, Jordan; Singapore International Water Week; Stockholm International Water Institute, Stockholm; and multinational corporations like Nestle.

Senior Research Fellow, Institute of Water Policy, Lee Kuan Yew School of Public Policy, National University of Singapore from 2014

Conducting and directing research on complexity of water, environment and natural resources policy and management as well as on the inter-linkages of water, environment, food and energy securities. Co-teaching the course on water policy and governance and supervising graduate students from the Master degrees of Public Policy, Public Administration, Public Management and Environmental Management.

President, Third World Centre for Water Management, Atizapán, Mexico 2012-2014

Presiding over this think tank for knowledge generation, synthesis, application and dissemination in the areas of development, especially water, food, energy and environment-related policies

Vice-President, Third World Centre for Water Management, Atizapán, Mexico 1999-2011

Working on water and food, energy and environment-related policies. Responsible for developing, conducting, managing and coordinating its research and knowledge generation, synthesis and dissemination programmes with international

teams of researchers, and ensuring the overall integration, coherence and overall impacts of the several programmes at the national, regional and international levels. Organisation of a very extensive series of national and international activities (workshops, seminars and conferences) which objective has been to promote innovative thinking, interdisciplinary and multi-sectoral research and candid exchange of ideas, discussions, views and experiences from different sectors, disciplines and geographical areas. Supervised graduate research.

Visiting Professor, Lee Kuan Yew School of Public Policy, University of Singapore, Singapore **2009-2011**
 Conducted and directed research projects on public policies on natural-resource strategic policy-making. Co-teaching the course on water policy and governance and supervised graduate students from the Master degrees of Public Policy, Public Administration and Public Management.

Research Director, International Centre for Water and Environment (CIAMA), Zaragoza, Spain **2006-2011**
 Responsible for its programme development and implementation; preparation of policy dialogues on environment and social issues; carrying out networking activities with national and regional organisations to encourage research and training capacities in developed and developing countries; supervising graduate research.

Research Fellow on water and environment public policy, University of Zaragoza, Zaragoza, Spain **2006-2007**

Research Fellow on water resources policy and management, Interdisciplinary Research Centre on Environment and Development, National Polytechnic Institute, Mexico **1998-1999**
 Research and academic work that included supervising graduate research.

Water Specialist, National Water Commission of Mexico, Mexico **1994-1997**
 Worked on environmental and social assessments of water and irrigation development projects; the evaluation of impacts of water and irrigation projects; and the sustainability analysis of water development projects.

Research Scientist, National Institute for Forestry and Agricultural Research, Mexico **1987-1989**
 Focused on impacts of agriculture on the environment.

Editorship: books series and journals

Book series

Water Resources Management book series, Oxford University Press, from 2001
 Water Resources Development and Management book series, Springer, from 2005
 Guest editor, Routledge special Issues series on Water Policy and Governance, from 2013
 Editor, Sustainable Development series, Springer, from 2013
 Editor, Water Science and Technology series, Springer, from 2013
 Member of the Series Advisory Board, Springer Briefs in Earth Sciences, Geography & Earth System Sciences, from 2010

Journals

Editor-in-Chief, *International Journal of Water Resources Development*, from 2012
 Editor, *International Journal of Water Resources Development*, 1999-2011
 Associate Editor, *Water International*, from 2010
 Member of the Editorial Board, *Frontiers in Environmental Science*, 2015-2017
 Member of the Editorial Board, *International Journal of Water Governance*, from 2015

Member of the Editorial Board, *Urban, Planning and Transport Research Journal*, from 2013

Member of the Editorial Board, *IWRA (India) Journal*, from 2011

Member of the Editorial Board, *Journal of Natural Resources Policy Research*, from 2009

Member of the Editorial Board, *Water International*, 1998-2006

Professional recognitions and awards

- Winner of the Crystal Drop Award, International Water Resources Association.
- 2016 and 2017 Research Excellence Awards, Lee Kuan Yew School of Public Policy, National University of Singapore.
- Member of the International Selection Committee, Millennium Technology Prize of One million Euro, Technology Academy Finland.
- Member of the OECD Initiative on Water Governance.
- Biography appears in Science and Engineering Who's Who, and Marquis International Who's Who.
- Honorary member of the International Water Resources Association.

Memberships in Professional Associations

- President, International Water Resources Association (IWRA), 2007-2009.
- Member, International Public Policy Association, 2017 – at present.
- Member, International Studies Association (ISA), 2016-2017.
- Vice-President, IWRA, 2004-2006.
- Director, IWRA, 2001-2003.
- Chair, IWRA, Mexican National Committee, 1999-2003.
- Vice-Chair, Committee on International Waters, IWRA, 1994-2000.
- Vice-Chair, Committee on International Cooperation, International Association for Impact Assessment (IAIA), 1995-1997.

Languages

Bilingual in Spanish and English; Professional working proficiency in French; limited working proficiency in Japanese

Publications

Papers in refereed international journals

- Tortajada, C. (2020). Contributions of Recycled Wastewater to Drinking Water and Sanitation SDGs. *npj Clean Water*, 3, 22. DOI: 10.1038/s41545-020-0069-3
- Lupascu, M., Varkkey, H., and Tortajada, C. (2020). Is Flooding Considered a Threat in the Degraded Tropical Peatlands? *Science of the Total Environment*, 723, 137988. DOI: 10.1016/j.scitotenv.2020.137988
- Wang, Y., Wu, X., and Tortajada, C. (2020). Innovative and Transformative Water Policy and Management in China. *International Journal of Water Resources Development*, 36(4), 1–8. DOI: 10.1080/07900627.2020.1716694

- Sánchez, R., Rodríguez, L., and Tortajada, C. (2020). Effective Transboundary Aquifer Areas: An Approach for Transboundary Groundwater Management. *Journal of the American Water Resources Association*. Paper No. JAWRA-19-0053-P.R1.
- López-Ruiz, S., Tortajada, C., and González-Gómez, F. (2020). Is the Human Right to Water Sufficiently Protected in Spain? Affordability and Governance Concerns. *Utilities Policy*, 63, 101003. DOI: <https://doi.org/10.1016/j.jup.2019.101003>
- Tortajada, C., and van Rensburg, P. (2020). Drink More Recycled Wastewater. *Nature*, 577, 26–28. DOI: 10.1038/d41586-019-03913-6
- Hartley, K., Tortajada, C., and Biswas, A. K. (2019). A Formal Model Concerning Policy Strategies to Build Public Acceptance of Potable Water Reuse. *Journal of Environmental Management*, 250, 109505. DOI: 10.1016/j.jenvman.2019.109505
- Tortajada, C., and Ong, C. P. P. (2019). Editors' Panel Session. *International Journal of Water Resources Development*, 35(5), 907–909. DOI:10.1080/07900627.2019.1638102.
- Biswas, A. K., and Tortajada, C. (2019). Water Crisis and Water Wars: Myths and Realities. *International Journal of Water Resources Development*. 35(5), 727–731. DOI:10.1080/07900627.2019.1636502.
- Tortajada, C., and Biswas, A. K. (2019). Objective Case Studies of Successful Urban Water Management. *International Journal of Water Resources Development*, 35(4), 547–550. DOI:10.1080/07900627.2019.1613766.
- Saklani, U., and Tortajada, C. (2019). India's Development Cooperation in Bhutan's Hydropower Sector: Trends, Concerns, and Public Perception. *Water Alternatives*, 12(2), 734–759.
- van Buuren, A., van Meerkerk, I., and Tortajada, C. (2019). Understanding Emergent Participation Practices in Water Governance. *International Journal of Water Resources Development*, 35(3), 367–382. DOI: 10.1080/07900627.2019.1585764.
- Tortajada, C., and van Rensburg, P. Reused Water: A Reliable Source of Safe Water to Mitigate Water Scarcity. *Nature Comments*. Accepted for publication.
- Tortajada, C., and Nambiar, S. (2019). Communications on Technological Innovations: Potable Water Reuse. *Water*, 11(2), 251. <https://doi.org/10.3390/w11020251>.
- Tortajada, C., González-Gómez, F.J., Biswas, A.K., and Buurman, J. (2019). Water Demand Management Strategies for Water-scarce Cities: The Case of Spain. *Sustainable Cities and Society*, 45, 649–656. <https://doi.org/10.1016/j.scs.2018.11.044>
- Wang, Y., Wan, T., and Tortajada, C. (2018). Water Demand Framework and Water Development: The Case of China. *Water*, 10(12), 1860. <https://doi.org/10.3390/w10121860>
- Tortajada, C., and Biswas, Asit K. (2018). Achieving Universal Access to Clean Water and Sanitation in an Era of Water Scarcity: Strengthening Contributions from Academia. *Current Opinion in Environmental Sustainability*, 34, 21–25. <https://doi.org/10.1016/j.cosust.2018.08.001>
- Hartley, K., Tortajada, C., and Biswas, A.K (2018) Political Dynamics and Water Supply in Hong Kong. *Environmental Development*, 27, 107–117. <https://doi.org/10.1016/j.envdev.2018.06.003>
- Horne, J., Tortajada, C., and Harrington, L. (2018) Achieving the Sustainable Development Goals: Improving Water Services in Cities Affected by Extreme Weather Events. *International Journal of Water Resources Development*, 34(4), 475–489. <https://doi.org/10.1080/07900627.2018.1464902>
- Sanchez, R., Rodriguez, L., and Tortajada, C. (2018). Transboundary Aquifers between Chihuahua, Coahuila, Nuevo Leon and Tamaulipas, Mexico, and Texas, USA: Identification and Categorization. *Journal of Hydrology: Regional Studies*, 20, 74–102. <https://doi.org/10.1016/j.ejrh.2018.04.004>
- Stavenhagen, M., Buurman, J., and Tortajada, C. (2018). Saving Water in Cities: Assessing Policies for Residential Water Demand Management in Four Cities in Europe. *Cities*, 79, 187–195. <https://doi.org/10.1016/j.cities.2018.03.008>

- Tortajada, C., and Saklani, U. (2018). Hydropower-based Collaboration in South Asia: The Case of India and Bhutan. *Energy Policy*, 117, 316–325. <https://doi.org/10.1016/j.enpol.2018.02.046>
- Sanchez, R., Rodriguez, L., and Tortajada, C. (2018). The Transboundariness Approach and Prioritization of Transboundary Aquifers between Mexico and Texas. *Ambio*, 47(7), 760–770. <https://doi.org/10.1007/s13280-018-1015-1>
- Tortajada, C., Kastner, M. J., Buurman, J., and Biswas, A. K. (2017). The California Drought: Coping Responses and Resilience Building. *Environmental Science & Policy*, 78, 97–113.
- Hartley, K., Tortajada, C., and Biswas, A.K. (2017). Confronting Global Security in an Era of Water Instabilities. *Foreign Policy Journal*. Available at: <http://www.foreignpolicyjournal.com/2017/02/03/confronting-global-security-in-an-era-of-water-instabilities/>
- Tortajada, C. (2016). Policy Dimensions of Development and Financing of Water Infrastructure: The Cases of China and India. *Environmental Science and Policy*, 64, 177–187. <http://dx.doi.org/10.1016/j.envsci.2016.07.001>
- Tortajada, C. (2016). Nongovernmental Organizations and Influence on Global Public Policy. *Asia and the Pacific Policy Studies*, 3(2), 266-274. DOI: 10.1002/app5.134
- García-Rubio, M. A., Tortajada, C., and González-Gómez, F. (2016). Privatizing Water Utilities and User Perception about Tap Water Quality: Evidence from Spanish Urban Water Services. *Water Resources Management*, 30(1), 315-329.
- Hering, J. G., Sedlak, D. L., Tortajada, C., Biswas, A. K., Niwagaba, C., and Breu, T. (2015). Local perspectives on water. *Science*, 349(6247), 479-480.
- Muller, M., Biswas, A. K., Martin-Hurtado, R., and Tortajada, C. (2015). Built Infrastructure is Essential. *Science*, 349(6248), 585-586.
- Wegerich, K., Warner, J., and Tortajada, C. (2014). The Dark Side of Governance. An Introduction to the Special Issue. *International Journal of Water Governance*, 2, 1-6.
- Wegerich, K., Warner, J., Tortajada, C. (2014). Water Sector Governance: A Return Ticket to Anarchy. *International Journal of Water Governance*, 2, 7-20.
- Tortajada, C., and Joshi, Y. K. (2014). Water Quality Management in Singapore: The Role of Institutions, Laws and Regulations. *Hydrological Sciences Journal*, 59(9), 1763-1774.
- Tortajada, C. (2014). Dams: An Essential Component of Development. *Journal of Hydrologic Engineering*, DOI: 10.1061/(ASCE)HE.1943-5584.0000919
- Tortajada, C. (2014). Water Infrastructure as an Essential Element for Human Development. *International Journal of Water Resources Development*, 30(1), 1-13.
- Tortajada, C., and Joshi, Y. K. (2013). Water Resources Management and Governance as Part of an Overall Framework for Growth and Development: The Case of Singapore. *International Journal of Water Governance*, 1(3/4), 285-306.
- Tortajada, C., and Joshi, Y. K. (2013). Water Demand Management in Singapore: Involving the Public. *Water Resources Management*, 27, 2729-2746. DOI 10.1007/s11269-013-0312-5
- Joshi, Y. K., Tortajada, C., and Biswas, A. K. (2012). Cleaning of the Singapore River and Kallang Basin in Singapore: Human and Environmental Dimensions. *AMBIO*, 41(7), 777-781. DOI 10.1007/s13280-012-0279-0
- Joshi, Y. K., Tortajada, C., and Biswas, A. K. (2012). Cleaning of the Singapore River and Kallang Basin in Singapore: Economic, Social and Environmental Dimensions. *International Journal of Water Resources Development*, 28(4), 647-658.
- Söderbaum, P., and Tortajada, C. (2011). Perspectives for Water Management within the Context of Sustainable Development. *Water International*, 36(7), 812-827.
- Tortajada, C., and Pobre, K. (2011). Singapore and Malaysia Water Relationship: An Analysis of the Media Perspectives. *Hydrological Sciences Journal*, 56(4), 597-614.

- Biswas, A. K., and Tortajada, C. (2011). Water Quality Management: An Introductory Framework. *International Journal of Water Resources Development*, 27(1), 5-11.
- Biswas, A. K., and Tortajada, C. (2010). Future Water Governance: Problems and Perspectives. *International Journal of Water Resources Development*, 26(2), 129-139.
- Biswas, A. K., and Tortajada, C. (2010). Water Supply of Phnom Penh: Example of Good Governance. *International Journal of Water Resources Development*, 26(2), 157-172.
- Tortajada, C. (2010). Water Governance: Some Critical Issues. *International Journal of Water Resources Development*, 26(2), 297-307.
- Tortajada, C. (2010). Water Governance: A Research Agenda. *International Journal of Water Resources Development*, 26(2), 309-316.
- Tortajada, C. (2008). Challenges and Realities of Water Management of Megacities: The Case of Mexico City Metropolitan Area. *Journal of International Affairs*, 61(2), 147-166.
- Tortajada, C., and Contreras, N. (2007). Institutions for River Basin Development in Mexico: 1947-1986. *Water International*, 32(1), 91-104.
- Tortajada, C. (2006). Water Management in Singapore. *International Journal of Water Resources Development*, 22(2), 227-240.
- Biswas, A. K., Jayatilaka, R., and Tortajada, C. (2005). Social Perceptions of the Impacts of Colombo Water Supply Projects. *Ambio*, 34(8), 639-644.
- Lundqvist, J., Tortajada, C., Varis, O., and Biswas, A. K. (2005). Water Management in Megacities. *Ambio*, 34(3), 267-268.
- Tortajada, C. (2003). Professional Women and Water Management: The Case of Morocco. *Water International*, 28(4), 532-539.
- Tortajada, C., and Castelan, E. (2003). Water Management for a Megacity: Analysis of Mexico City Metropolitan Area. *Ambio*, 32(2), 124-129.
- Tortajada, C. (2001). Capacity Building for the Water Sector in Mexico: An Analysis of Recent Efforts. *Water International*, 26(4), 490-498.
- Tortajada, C. (2001). Institutions for Integrated River Basin Management In Latin America. *International Journal of Water Resources Development*, 17(3), 289-301.
- Biswas, A. K., and Tortajada, C. (2001). Development and Large Dams: A Global Perspective. *International Journal of Water Resources Development*, 17(1), 9-21.
- Tortajada, C. (2000). Evaluation of Actual Impacts of the Ataturk Dam. *International Journal of Water Resources Development*, 16(4), 453-464.
- Tortajada, C. (2000). Environmental Impact Assessment of Water Projects. *International Journal of Water Resources Development*, 16(1), 73-78.
- Tortajada, C. (1999). Legal and Regulatory Regime for Water Management in Mexico and its Possible Use in Other Latin American Countries. *Water International*, 24(4), 316-322.
- Tortajada, C. (1998). Contribution of Women to the Planning and Management of Water Resources in Latin America. *International Journal of Water Resources Development*, 14(4), 451-459.
- Tortajada, C. (1998). Water Supply and Wastewater Management in Mexico: An Analysis of the Environmental Policies. *International Journal of Water Resources Development*, 14(3), 327-337.
- Tortajada, C. (1997). Environmental Management of Water Resources in Mexico. *Water International*, 22(3), 172-178.
- Biswas, A. K., and Tortajada, C. (1997). An Innovative Approach to Sustainable Regional Development. *Ecodecision*, 24, 61-63.
- Biswas, A. K., and Tortajada, C. (1996). Cameroon's National Environmental Management Plan. *Ecodecision*, 19, 9-10.

- Biswas, A. K., and Tortajada, C. (1996). Environmental Impacts of the Rwandan Refugees on Zaire. *Ambio*, 25(6), 403-408.
- Biswas, A. K., and Tortajada, C. (1996). Environmental Impacts of Refugees: A Case Study. *Impact Assessment*, 14(1), 21-40.
- Biswas, A. K., and Tortajada, C. (1995). Irrigation, Environment and Development. *Ecodecision*, 18, 33-35.
- Biswas, A. K., and Tortajada, C. (1995). Environmental Management in Cameroon: A Participatory Approach. *The Courier*, 153, 85-86.
- Biswas, A. K., and Tortajada, C. (1995). Environmental Impacts of a Human Disaster. *Development and Cooperation*, 2, 18-19.
- Biswas, A. K., and Tortajada, C. (1995). Rwandan Refugees and the Environment in Zaire. *Ecodecision*, 16, 73-75.

Book chapters

- Tortajada, C., and Koh, R. Integrated Management of Water Resources in Singapore. In: Robert C. Ferrier, and Alan Jenkins (Eds.) *Handbook of Catchment Management*. 2nd Edition. Chichester, UK: John Wiley & Sons.
- Sanchez, R., Rodriguez, L., and Tortajada, C., Effective Transboundary Aquifer Areas (ETAAs): An Alternative Method for Transboundary Groundwater Management. In: José Luis Castro-Ruiz, Alfonso Andrés Cortez-Lara and Vicente Sánchez-Munguia (Eds.), *Contemporary Visions for Cooperation and Management of Water Resources in the Border between Mexico and United States*. Mexico: Colegio de la Frontera Norte.
- Biswas, A. K., and Tortajada, C. (2018). Safe Water for the Developing World: Rhetoric and Reality. In: A. S. C. Teo (Ed.), *Univer-Cities: Strategic Dilemmas of Medical Origins and Selected Modalities—Water, Quantum Leap & New Models* (pp. 129–149). Singapore: World Scientific.
- Tortajada, C., Fernandez, V. (2018). Towards Global Water Security: A Departure from the Status Quo? In: World Water Council (Eds.), *Global Water Security* (pp. 1–19). Singapore: Springer.
- Tortajada, C., Wong, C. (2018). Quest for Water Security in Singapore. In: World Water Council (Eds.), *Global Water Security* (pp. 85–115). Singapore: Springer.
- Tortajada, C., and Biswas, A.K. (2018). Assessing Global Water Megatrends. In: C. Tortajada, A.K. Biswas, and P. Rohner (Eds.), *Assessing Global Water Megatrends* (pp. 1–26). Singapore: Springer.
- Tortajada, C., Saklani, U. and Biswas, A.K. (2018). Water Scarcity and Regional Security in India. In: D. Reed (Ed.), *Water, Security and U.S. Foreign Policy* (pp. 237–252). London: Routledge.
- Biswas, A.K., and Tortajada, C. (2018). Managing Indonesian Haze: Complexities and Challenges. In E. Quah and T.S. Tan (Eds.), *Pollution across Borders: Transboundary Fire, Smoke and Haze in Southeast Asia* (pp. 1–18). Singapore: World Scientific.
- Biswas, A.K., and Tortajada, C. (2017). India's Water Future. In V.D. Reddy, K.V. Rao and K.R. Krishna (Eds.), *Insights on Global Challenges and Opportunities for the Century Ahead* (pp. 169–175). Hyderabad: Osmania University.
- Tortajada, C. (2017). Long-Distance Water Transfers. In V. Singh (Ed.), *Handbook of Applied Hydrology* (pp. 142-1-142.7). New York: McGraw Hill.
- Tortajada, C. (2016). Water, Governance and Infrastructure for Enhancing Climate Resilience. In C. Tortajada (Ed.), *Increasing Resilience to Climate Variability and Change: The Roles of Infrastructure and Governance in the Context of Adaptation* (pp. 1-13). Singapore: Springer.
- Biswas, A.K. and Tortajada, C. (2016). Water Security, Climate Change and Sustainable Development. An Introduction. In A.K. Biswas and C. Tortajada (Eds.), *Water Security, Climate Change and Sustainable Development* (pp. 1-5). Singapore: Springer.
- Tortajada, C., Hongzhou, Z., 2016. Food Policy in Singapore. Reference Module in Food Sciences. Elsevier, pp. 1–7. doi: <http://dx.doi.org/10.1016/B978-0-08-100596-5.21083-4>

- Tortajada, C., and Keulertz, M. (2016). Future Global Water, Food and Energy Needs. In H.G. Brauch, U.O. Spring, J. Grin and J. Scheffran (Eds.), *Handbook on Sustainable Transition and Sustainable Peace* (pp. 657-674). Berlin: Springer.
- Tortajada, C. (2015). Mexico City. In N. Ackermann, M. Daichendt, M. Eisi, M. Fest, H. Krause, K. Peuker, M. Rast, F. Sarti and W. White (Eds.), *World of Water* (pp. 191-195). European Space Agency and Globe View GmbH, Frascati.
- Tortajada, C., and Yip, V. (2015). Urban Water Management in Singapore. In *Insight into Asian Water* (pp. 23-41). Daejeon: Kwater and World Water Council.
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- Altinbilek, D., and Tortajada, C. (2012). The Atatürk Dam in the Context of the Southeastern Anatolia (GAP) Project. In: C. Tortajada, D. Altinbilek and A. K. Biswas (Eds.), *Impacts of Large Dams: A Global Assessment* (pp. 175-205). Berlin: Springer.
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- Biswas, A. K., and Tortajada, C. (2009). Changing Global Water Management Landscape. In: A. K. Biswas, C. Tortajada and R. Izquierdo (Eds.), *Water Management in 2020 and Beyond* (pp. 1-34). Berlin: Springer.
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