

Publications

Victor R. Shinde

BOOKS

Title: Water Security and Climate Change: Adaptation for Sustainable and Resilient Development (available in May 2024).

Editors: Mukand Babel, Andreas Haarstrick, Lars Ribbe, **Victor R. Shinde** and Nobert Dichtl

Publisher: Springer Nature

Title: Managing Urban Rivers: From Planning to Practice

Editors: **Victor R. Shinde**, Rajiv Ranjan Mishra, Uday Bhonde and Hitesh Vaidya

Publisher: Elsevier

Title: Water Security in Asia: Opportunities and Challenges in Context of Climate Change (2021).

Editors: Mukand Babel, Andreas Haarstrick, Lars Ribbe, **Victor R. Shinde** and Nobert Dichtl

Publisher: Springer Nature

BOOK CHAPTERS

Victor R. Shinde and Lovlesh Sharma (2021). Conservation, Protection and Management of Urban Groundwater through City Master Plans: A Case of Indian Cities in UNESCO and UNESCO i-WSSM. 2021. The Role of Sound Groundwater Resources Management and Governance to Achieve Water Security (Series III). Global Water Security Issues (GWSI) Series – No.3, UNESCO Publishing, Paris.

Victor R. Shinde and Lovlesh Sharma (2021). Water Infrastructure for Poverty Reduction in *Water, Climate Change and Sustainability*, Pandey et al. (eds) AGU Wiley Book Series, John Wiley and Sons, USA.

Nguyen Mai Dang, Vu Thanh Tu, Mukand Babel, **Victor R. Shinde**, and Devesh Sharma (2021). Water security assessment for the Red River Basin, Vietnam in *Towards Water Secure Societies: Coping with Water Security and Quality Challenges*, Ribbe et al. (eds), Springer International Publishing, Switzerland.

Shinde V.R. (2018). Water-Energy-Food nexus: Tools and models in practice in *Water-Energy-Food Nexus: Theories and Practices*, Salam et al. (eds), AGU Wiley Book Series, John Wiley and Sons, USA. ISBN: 978-1-119-24313-7

Babel M. S., Anusart, K., **Shinde, V.** and S. Shrestha (2014). Water and Energy Nexus: A Case of Bangkok Water Supply System in *Five year EXCEED: Sustainable Water Management in Developing Countries*. Müfit Bahadır & Andreas Haarstrick (eds.). ISBN: 978-3-00-046519-2, pp 173-186.

Babel M.S., Agarwal A. and **Shinde V.R.** (2014). Climate change impacts on water resources and selected water use sectors in *Climate Change and Water Resources*, Shrestha et al. (eds), CRC Press, Taylor & Francis, UK.

POLICY DOCUMENTS

Shinde V.R., Wong, T., Kulkarni, H., Dickens, C., Tortajada, C., Bassi, N., Pandey, V.P., Jain, A., Shaw, R., Anshuman, and Misha, R.R (2023). Ensuring Water Security. White paper of the Urban20 engagement group under G20. https://www.u20india.org/Content/WhitePaper/EWS_White%20Paper.pdf

Nikita Madan, **Victor R. Shinde**, Uday Bhonde, Rahul Sachedeva, Banibrata Choudhury, Jyoti Verma, and Shivani Saxena (2021). Strategic guidelines for making river-sensitive Master plans. <https://niua.org/intranet/sites/default/files/1330.pdf>

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Victor R. Shinde, Uday Bhonde, Rahul Sachdeva, Nikita Madan, Banibrata Choudhury, Jyoti Verma, and Shivani Saxena (2020). Urban River Management Plan: Elements and Guidance Note https://pi.niua.org/sites/default/files/498_0.pdf

Victor R. Shinde, Uday Bhonde, Rahul Sachdeva, Nikita Madan and Banibrata Choudhury (2020). Policy brief on the future of river management: Exploring how the COVID-19 crisis can help shape river management strategies of the future. https://pi.niua.org/sites/default/files/497_0.pdf

NEWSPAPER/MAGAZINE ARTICLES

IWRM: Panacea of Urban Water Ills (https://drive.google.com/file/d/1t7-6id9NBbuQmj3myb6cFF6Ctlcqu_sN/view)

Groundwater: A valuable invisible resources. (<https://www.hindustantimes.com/opinion/groundwater-a-valuable-invisible-resource-101647853384145.html>)

Indian cities need river-sensitive Master Plans (<https://www.hindustantimes.com/opinion/indian-cities-need-river-sensitive-master-plans-101624021105180.html>)

Making cities river-sensitive (<https://indianexpress.com/article/opinion/making-cities-river-sensitive-6723687/>)

PEER-REVIEWED ARTICLES

Babel, M. S., Chapagain, K., and **Shinde, V. R.** (2023). How to measure urban water security? An introduction to the Water Security Assessment Tool (WATSAT). *APN Science Bulletin*, 13(1), 60–75. doi:10.30852/sb.2023.2166.

Victor R. Shinde, G. Asok Kumar, Dheeraj Joshi and Nikita Madan (2022). Healthy urban rivers as a panacea to pandemic-related stress: How to manage urban rivers? *Asian Development Bank Institute Working Paper* No 1349.

Mukand S. Babel, Kaushal Chapagain, **Victor R. Shinde**, Somkiat Prajamwong, and Somkiat Apipattanavis (2022). A disaggregated assessment of national water security: An application to the river basins in Thailand. *Journal of Environmental Management*, Vol 321, 115974. Publisher: Elsevier, Impact Factor: 8.5.

Shinde V.R., Mishra R.R., Vaidya, H. and Bhonde, U. (2022). State of knowledge and research needs for urban river management in India. *Urban India*, Vol 41: 1–12. Publisher: NIUA, ISSN 0970-9045.

Baghel, T., Babel, M.S., Shreshta, S., Salin, K.R., Viridis, S.G. and **Shinde, V.R.** (2022). A generalized methodology for ranking climate models based on climate indices for sector-specific studies: An application to the Mekong sub-basin. *Science of the Total Environment*, 829:154551

Chapagain, K., Aboelnga, H.T., Babel, M.S., Ribbe, L., **Shinde V.R.**, Sharma, D. and Dang, N.M (2022). Urban water security: A comparative assessment and policy analysis of five cities in diverse developing countries of Asia. *Environmental Development*, Volume 43, 100713. Publisher Elsevier, Impact Factor: 3.326.

Mukand Babel, Ashish Shrestha, Kanchanapun Anusart, and **Victor R. Shinde** (2021). Evaluating the potential for conserving water and energy in the water supply system of Bangkok. *Sustainable Cities and Society*. Vol 69: 102857. <https://doi.org/10.1016/j.scs.2021.102857>. Publisher Elsevier, Impact Factor: 7.58.

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- Mukand Babel, **Victor R. Shinde**, Devesh Sharma, and Nguyen Mai Dang (2020). Measuring water security: A vital step for climate change adaptation. *Environmental Research*, 185, <https://doi.org/10.1016/j.envres.2020.109400>. Publisher Elsevier. Impact Factor: 5.026
- Babel, M. S., Oo, E., **Shinde, V. R.**, Kamalamma, A. and A. Haarstrick (2019). Comparative study of water and energy use in selected automobile manufacturing industries. *Journal of Cleaner Production*. <https://doi.org/10.1016/j.jclepro.2019.118970>. Publisher: Elsevier. Impact Factor: 7.05
- Babel, M. and **Shinde, V.** (2018). A framework for water security assessment at basin scale. *APN Science Bulletin*, 8(1). doi:10.30852/sb.2018.342. Publisher APN. Impact Factor: NA.
- Yonas T. Assefa, Mukand S. Babel, Janez Sušnik and **Victor R. Shinde** (2019). Development of a Generic Domestic Water Security Index, and Its Application in Addis Ababa, Ethiopia. *Water*, 11(1), 37; <https://doi.org/10.3390/w11010037>. Publisher MPDI. Impact Factor: 2.721
- Shrestha S., Parajuli K., Babel M.S., Dhakal S. and **Shinde V.R.** (2015). Water-energy-carbon nexus: A case study of Bangkok. *Water Science and Technology*, 15(5): 889-897. Doi:10.2166/ws.2015.046 Publisher: IWA. Impact Factor: 1.212
- Babel M.S., Badgajar G. and **Shinde V.R.** (2015). Using the Mutual Information technique to select explanatory variables selection in Artificial Neural Networks for rainfall forecasting. *Meteorological Applications*, 22(3): 610-616. Doi: 10.1002/met.1495. Publisher: Springer. Impact Factor: 1.318.
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- Shinde V.R.**, Hirayama N., Mugita A. and Itoh S. (2013). Revising the existing performance indicator system for small water utilities in Japan. *Urban Water Journal*. 10(6): 377 – 393. Publisher: Taylor and Francis. Impact Factor: 1.478
- Babel M. S., and **Shinde, V. R.** (2011). Identifying Prominent Explanatory Variables for Water Demand Prediction Using Artificial Neural Networks: A Case Study of Bangkok. *Water Resource Management*, Vol 25, 1653-1676. Publisher: Springer. Impact Factor: 2.437
- Shinde V.R.**, Hirayama N., Mugita A. and Itoh S. (2010). Estimating key performance indicators to evaluate scenario models to ensure sustainable water supply in Japan. *Environmental and Sanitary Engineering Research*, 24(3): 47-50. Journal Code: L0092A; Publisher: Env and San Group, Kyoto Univ, Japan.

CONFERENCE PAPERS

- Shinde V.R.**, Babel M.S. and Acharya S. (2017). Evaluating citizen support for water security enhancement. Presentation made at the 2017 Water Security and Climate Change Conference. September 18-21, 2017. Cologne, Germany.
- Koh R., **Shinde V.R.**, Babel M.S, and Mendoza G (2017). Using Climate Risk Informed Decision Analysis for Water Management in Bangkok, Thailand. Presentation at the 2017 American Water Resources Association 2017 Summer Specialty Conference on “Climate Change Solutions: Collaborative Science, Policy and Planning for Sustainable Water Management”. June 25-28, 2017, Tysons, Virginia, USA.
- Onkomsrit A., Babel M.S., **Shinde V.R.** and Pandey V.P. (2016). Assessing water security at district level: A case of Bangkok. In Proceedings of the Water Security and Climate Change: Challenges and Opportunities in Asia, Nov 29-Dec 1, 2016 Bangkok, Thailand.

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- Mukand S. Babel, Anyamanee Onsomkri and **Victor R. Shinde** (2016). Framework for Water Security Assessment at City Scale. In Proceedings of the 7th International Conference on Water Resources and Environment Research (ICWRER2016), June 5-9, 2016, Kyoto, Japan.
- Victor R. Shinde**, Nagahisa Hirayama and Sadahiko Itoh (2015). Raw water quality implications on energy use under climate change: A scenario-based approach for Kobe water utility, Japan. In Proceedings of the International Expert Workshop: Towards Urban Water Security in Southeast Asia: Managing Risk of Extreme Events, Nov 19-20, 2015, Phnom Penh, Cambodia.
- Victor R. Shinde**, Nagahisa Hirayama and Sadahiko Itoh (2015). Balancing consumers' satisfaction with water quality and reducing energy use: a case study in Japan. In Proceedings of the Regional Forum for Climate Change – Low Carbon and Climate Resilient Societies: Bridging Science, Policy and Practice, July 1-3 2015, Bangkok, Thailand.
- Shinde V.R.**, Hirayama N. and Itoh S (2013). Development of an evaluation model for consumers' satisfaction of water supply service. In proceedings of Water and Society: 2nd International Conference on Water and Society. September 4-6, 2013, New Forest UK.
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- Shinde V.R.** and Babel M.S (2009). Urban water demand forecasting using Artificial Neural Networks. A Case study of Bangkok. In Proceedings of the World City Water Forum (WCWF), August 18-21, 2009, Incheon, South Korea.

OTHER PUBLICATIONS

- Victor R. Shinde**, Rahul Sachdeva, Guy Broucke, and Neha Midha (2020). **White paper** on "A qualitative framework to evaluate the extent of integrated urban water management in Indian cities" https://www.niua.org/sites/default/files/NIUA-UNESCO_White%20Paper.pdf
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- Victor R. Shinde**, Mukand Babel and Suttharom, Prangpisut (2018). **Technical manual** on "Framework for river health assessment in Thailand". <https://wle.cgiar.org/manual-framework-river-health-assessment-thailand>
- Mukand S. Babel, **Victor R. Shinde**, Voravate Chonsalin, and Anyamaee Onsomkrit (2017). **Review report** on "Status of the implementation of water peak bodies and integrated water resources management among ASEAN member countries". Submitted to the ASEAN Secretariat, through the National Water Resources Board, Philippines.
- Mukand S. Babel, **Victor R. Shinde**, and Voravate Chonsalin (2017). **Report** on "Implementing integrated water resources management in ASEAN: Opportunities for sharing information on key issues". Submitted to the ASEAN Secretariat, through the National Water Resources Board, Philippines.

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Oleg Shipin, **Victor R. Shinde**, and Jakkapon Phanthuwongpakdee (2016). **White paper** on “Assessing the ecological health of Lower Songkhram River Basin (LSRB) and adjacent wetland areas, North East Thailand”.

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