

# CV

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## Educational and professional background

- **Managing Director and Professor** of *Ludwig-Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering (LuFI)*, Leibniz Universität Hannover (LUH), since 03/2007 (full W3-Professor)
- **Managing Director Coastal Research Centre (FZK)** as Central Joint Research Institution of the Leibniz Universität Hannover (LUH) and Technical Universität Braunschweig (TUBS), since 07/2021
- **Project Director and Senior Academic Advisor** to the Director of the Institute for Environment and Human Security (UNU-EHS), Bonn, United Nations University (UNU), Tokyo, 03/2007-02/2010
- **Head of Section** for Coastal Hazards and Risks, Institute for Environment and Human Security (UNU-EHS), Bonn, United Nations University (UNU), Tokyo, 07/2005-02/2007
- **Postdoctoral Researcher**, Berg. Univ. Wuppertal (BUW), Germany, 07/1999-06/2005 with award of Habilitation degree, Berg. Univ. Wuppertal (BUW), Germany, Final degree: PD Dr.-Ing. habil., in 05/2005
- **Research Associate** and Phd student, Bergische Universität Wuppertal (BUW), Germany, 12/95-06/99 with PhD degree, Berg. Univ. Wuppertal (BUW), Germany, Final degree: Dr.-Ing., in 07/1999
- Studies of **Civil and Env. Engineering**, **Berg. Univ. Wuppertal (BUW)**, Final degree: Dipl.-Ing., 10/1991-11/1995
- **Abitur**, Remscheid, Germany in 06/1991

## Current appointments in professional associations and academic bodies & councils

- Appointed **Member of the Executive Board of ForWind** – Center for Wind Energy Research
- Elected **Member of the Executive Board** of *German Marine Research Consortium (KDM)*
- Elected **Member of the Zukunftsforum Ozean** of *German Marine Research Consortium (KDM)*
- Appointed **Member of Scientific Board** of *Fed. Waterways Engineering and Research Institute (BAW)*,
- Appointed **Member of Braunschweigische Wissenschaftliche Gesellschaft (BWG)**,
- Elected **Member of the Executive Board** *German Port Technology Association (HTG)*
- Member of **Editorial Board** of *Frontiers in Marine Science* (Frontiers), Section: Coastal Ocean Processes
- Member of **Editorial Board** of *Journal of Marine Science and Engineering* (JMSE), Section: Coastal Engineering
- Appointed Member of Executive Boards of the *Victor-Rizkallah Stiftung* and *Dr-Friedrich-Lehner Stiftung*, Leibniz Universitätsgesellschaft Hannover, Germany; Rotary Club Hannover (RC Hannover)

## Past appointments in professional associations and academic bodies & councils

- **Dean of the Faculty for Civil Engineering and Geodetic Sciences**, Leibniz Universität Hannover, Germany, term: 04/2013-09/2015
- **Deputy Dean of the Faculty for Civil Engineering and Geodetic Sciences**, Leibniz Universität Hannover, Germany, 1<sup>st</sup> term 04/2011-03/2013 and 2<sup>nd</sup> term 10/2015-09/2017
- Appointed member of the **Academic Senate** of the Leibniz Universität Hannover, terms: 10/2011-09/2013
- Appointed **Member Scientific Board** of *Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research* (HZG), Germany, Helmholtz Association of German Research Centers (HGF), 1<sup>st</sup> term 09/2009-08/2013 and 2<sup>nd</sup> term 09/2013-08/2017
- Head of **Scientific Board** of *German Committee on Disaster Reduction* (DKKV), Bonn, 04/2011-03/2013

## Fields of research and professional expertise

- Hydraulic engineering, effects of river training and sand mining activities in estuaries and deltas
- Flood Risk and integrated coastal zone management under SLR and cascading effects
- Coastal dynamics, erosion processes and coastal engineering; transport processes of marine litter (MP)
- Marine renewable energies, port and harbor design, marine environmental impacts and projections

## Teaching experiences (teaching activity & examination responsibility listed in *Modulhandbücher* FBG, 2019)

- Projekte des Bauingenieurwesens (BSc Bauingenieurwesen, 4SWS, SoSe)
- Wasserbau und Küsteningenieurwesen (BSc Bauingenieurwesen, 4SWS, WiSe)
- Wasserbau und Verkehrswasserbau (MSc Bauingenieurwesen, 4SWS, WiSe)
- Küsten- und Ästuaringenieurwesen (MSc Bauingenieurwesen, 4SWS, SoSe) sowie Grundlagen der Wellentheorie und Seegangsanalyse (MSc Windenergie-Ingenieurwesen, 2SWS, SoSe)
- See- und Hafenbau (MSc Bauingenieurwesen, 4SWS, SoSe)
- Environmental Hydraulics (MSc Water Res. and Env. Mngt., 2SWS, SoSe, jointly with Prof. Insa Neuweiler)
- Hydropower Engineering (MSc Water Res. and Env. Mngt., 2SWS, WiSe, jointly with Prof. Achmus)
- Environmental and Coastal Management (MSc Water Res. and Env. Mngt., 4SWS, WiSe)



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## Schlurmann, Torsten

① Gottfried Wilhelm Leibniz Universität Hannover, Hannover, Germany

1,680

Citations by 1,337 documents

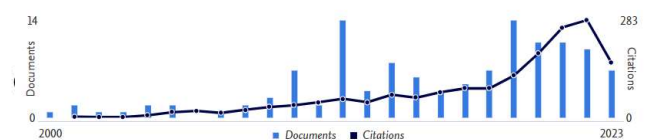
125

Documents

20

*h*-index [View \*h\*-graph](#)

Document & citation trends



SCOPUS author profile: T. Schlurmann (Jul 25<sup>th</sup>, 2023)

2023

- Goral K.D., Guler H.G., Larsen B.E., Carstensen S., Christensen E.D., Kerpen N.B., **Schlurmann T.**, Fuhrman D.R., 2023. Settling velocity of microplastic particles having regular and irregular shapes. *Environmental Research*, 228, art. no. 115783, <https://doi.org/10.1016/j.envres.2023.115783>
- Goral K.D., Guler H.G., Larsen B.E., Carstensen S., Christensen E.D., Kerpen N.B., **Schlurmann T.**, Fuhrman D.R., 2023. Shields Diagram and the Incipient Motion of Microplastic Particles. *Environmental Science and Technology*, 57 (25), pp. 9362 - 9375, <https://doi.org/10.1021/acs.est.3c02027>
- Scheiber L., Hoballah Jalloul M., Jordan C., Visscher J., Nguyen H.Q., **Schlurmann T.**, 2023. The potential of open-access data for flood estimations: uncovering inundation hotspots in Ho Chi Minh City, Vietnam, through a normalized flood severity index. *Natural Hazards and Earth System Sciences*, 23 (6), pp. 2313 - 2332, <https://doi.org/10.5194/nhess-23-2313-2023>
- Scheiber L., David C.G., Hoballah Jalloul M., Visscher J., Nguyen H.Q., Leitold R., Revilla Diez J., **Schlurmann T.**, 2023. Low-regret climate change adaptation in coastal megacities - evaluating large-scale flood protection and small-scale rainwater detention measures for Ho Chi Minh City, Vietnam. *Natural Hazards and Earth System Sciences*, 23 (6), pp. 2333 - 2347, <https://doi.org/10.5194/nhess-23-2333-2023>
- Tiede J., Jordan C., Moghimi A., **Schlurmann T.**, 2023. Long-term shoreline changes at large spatial scales at the Baltic Sea: Remote-sensing based assessment and potential drivers. *Frontiers in Marine Science*, 10, art. no. 1207524, <https://doi.org/10.3389/fmars.2023.1207524>
- Kempa, D., Karrasch, L., **Schlurmann, T.**, Prominski, M., Lojek, O., Schulte-Güstenberg, E., Visscher, J., Zielinski, O., and N. Goseberg, 2023. Design and Insights Gained in a Real-World Laboratory for the Implementation of New Coastal Protection Strategies. *Sustainability* 15, no. 5: 4623. <https://doi.org/10.3390/su15054623>
- Larsen B.E., Al-Obaidi M.A.A., Guler H.G., Carstensen S., Goral K.D., Christensen E.D., Kerpen N.B., **Schlurmann T.**, Fuhrman D.R., 2023. Experimental investigation on the nearshore transport of buoyant microplastic particles. *Marine Pollution Bulletin*, 187, art. no. 114610, <https://doi.org/10.1016/j.marpolbul.2023.114610>

2022

- De Souza E Silva M.G., Kerpen N.B., Rosman P.C.C., Neves C.F., **Schlurmann T.**, 2022. Directional Infragravity Waves Induced by Bichromatic and Bidirectional Waves: Theoretical Approach and Experimental Affirmation. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 148 (5), art. no. 04022012, [https://DOI:10.1061/\(ASCE\)WW.1943-5460.0000711](https://DOI:10.1061/(ASCE)WW.1943-5460.0000711)
- Guler H.G., Larsen B.E., Quintana O., Goral K.D., Carstensen S., Christensen E.D., Kerpen N.B., **Schlurmann T.**, Fuhrman D.R., 2022. Experimental study of non-buoyant microplastic transport beneath breaking irregular waves on a live sediment bed. *Marine Pollution Bulletin*, 181, art. 113902, <https://DOI:10.1016/j.marpolbul.2022.113902>
- Villanueva R., Paul M., **Schlurmann T.**, 2022. Anchor Forces on Coir-Based Artificial Seagrass Mats: Dependence on Wave Dynamics and Their Potential Use in Seagrass Restoration. *Frontiers in Marine Science*, 9, art. no. 802343, <https://DOI:10.3389/fmars.2022.802343>
- Villanueva R., Thom M., Visscher J., Paul M., **Schlurmann T.**, 2022. Wake length of an artificial seagrass meadow: a study of shelter and its feasibility for restoration. *Journal of Ecohydraulics*, 7 (1), pp. 77 - 91, <https://DOI:10.1080/24705357.2021.1938256>
- Taphorn M., Villanueva R., Paul M., Visscher J., **Schlurmann T.**, 2022. Flow field and wake structure characteristics imposed by single seagrass blade surrogates. *Journal of Ecohydraulics*, 7 (1), pp. 58 - 70, <https://DOI:10.1080/24705357.2021.1938253>

- Hitzegrad, J., Brohmann, L., Pfenning, L., Hoffmann, T., Rubel, M., Eilrich, A., Milbradt, P., Paul, M., Welzel, M., Kloft, H., **Schlurmann, T.**, Aberle, J., Wehrmann, A., Goseberg, N., 2022. Oyster reef surfaces in the central Wadden Sea: a comprehensive statistical description. *Frontiers in Marine Science*, 09 March 2022 <https://doi.org/10.3389/fmars.2022.808018>
- Saincher, S., Sriram, V., Agarwal, S., **Schlurmann, T.**, 2022. Experimental investigation of hydrodynamic loading induced by regular, steep non-breaking and breaking focused waves on a fixed and moving cylinder. *European Journal of Mechanics, B/Fluids*, 93, pp. 42-64. <https://DOI:10.1016/j.euromechflu.2021.12.009>
- Elsayed, S.M., Gijsman, R., **Schlurmann, T.**, Goseberg, N., 2022. Non-hydrostatic Numerical Modeling of Fixed and Mobile Barred Beaches: Limitations of Depth-Averaged Wave Resolving Models around Sandbars. *Journal of Waterway, Port, Coastal and Ocean Engineering*, 148 (1), art. no. 04021045, [https://doi.org/10.1061/\(ASCE\)WW.1943-5460.0000685](https://doi.org/10.1061/(ASCE)WW.1943-5460.0000685)
- Schoonees, T., Kerpen, N.B., **Schlurmann, T.**, 2022. Full-scale experimental study on wave reflection and run-up at stepped revetments. *Coastal Engineering*, 172, art. no. 104045. <https://doi.org/10.1016/j.coastaleng.2021.104045>

## 2021

- David, G., Hennig, A., Ratter, B.M.W., Roeber, V., **Schlurmann, T.**, 2021. Considering socio-political framings when analyzing coastal climate change effects can prevent maldevelopment on small islands. *Nature Communications*, 12, 5882. Springer Nature. <https://doi.org/10.1038/s41467-021-26082-5>
- von Storch, H., Fennel, K., Jensen, J., Lewis, K.A., Ratter, B., **Schlurmann, T.**, Wahl, T. and W. Zhang. Climate and Coast: Overview and Introduction, *Climate Science*, Oxford Research Encyclopedias (ORE) <https://doi.org/10.1093/acrefore/9780190228620.013.816>
- Lojek, O., Goseberg, N., **Schlurmann, T.**, 2021. Projected Hydro-Morphodynamic Impacts of Planned Layout Changes for a Coastal Harbor, *Journal of Waterway, Port, Coastal, and Ocean Engineering*, ASCE, Vol. 147 (6), Nov 2021 <https://ascelibrary.org/doi/full/10.1061/%28ASCE%29WW.1943-5460.0000666>
- Jordan, C., Visscher, J., **Schlurmann, T.**, 2021. Projected responses of tidal dynamics in the North Sea to sea-level rise and morphological changes in the Wadden Sea. *Frontiers in Marine Science* 8:685758 <https://10.3389/fmars.2021.685758>
- Schoonees, T., Kerpen, N.B., **Schlurmann, T.**, 2021. Full-scale experimental study on wave overtopping at stepped revetments. *Coastal Engineering*, 167, art. no. 103887, <https://DOI:10.1016/j.coastaleng.2021.103887>
- David, C.G., Kohl, N., Casella, E., Rovere, A., Ballesteros, P., **Schlurmann, T.**, 2021. Structure-from-Motion on shallow reefs and beaches: potential and limitations of consumer-grade drones to reconstruct topography and bathymetry. *Coral Reefs*, 40 (3), pp. 835-851. <https://DOI:10.1007/s00338-021-02088-9>
- Staudt, F.; Gijsman, R.; Ganal, C.; Mielck, F.; Wolbring, J.; Hass, H.C.; Goseberg, N.; Schüttrumpf, H.; **Schlurmann, T.** and S. Schimmels, 2021. The sustainability of beach nourishments: a review of nourishment and environmental monitoring practice. *Journal of Coastal Conservation*, Springer, Vol. 25, 34 <https://doi.org/10.1007/s11852-021-00801-y>
- Gijsman, R., Ruessink, B.G., Visscher, J., **Schlurmann, T.**, 2021. Observations on decadal sandbar behaviour along a large-scale curved shoreline. *Earth Surface Processes and Landforms*, 46 (2), pp. 490-503. <https://DOI:10.1002/esp.5041>
- Scheiber, L., Lojek, O., Götschenberg, A., Visscher, J., **Schlurmann, T.**, 2021. Robust methods for the decomposition and interpretation of compound dunes applied to a complex hydromorphological setting. *Earth Surface Processes and Landforms*, 46 (2), pp. 478-489. <https://DOI:10.1002/esp.5040>
- Sriram, V., Agarwal, S., **Schlurmann, T.**, 2021. Laboratory Study on Steep Wave Interactions with Fixed and Moving Cylinder. *International Journal of Offshore and Polar Engineering*, Vol. 31, No. 1, March 2021, pp. 19–26;

<https://doi.org/10.17736/ijope.2021.jc808>

- Agarwal, S., Saincher, S., Sriram, V., Yan, S., Xie, Z., **Schlurmann, T.**, Ma, Q., Yang, X., Wan, D., Gong, Y., Li, Y., Li, Y., Lu, J., Sun, Y., Liu, Y., Zou, B., Chen, S., Lu, J., Lin, J., Hong, S.H., Ha, Y.-J., Kim, K.-H., Cho, S.-K., Park, D.-M., Sithik, A., Bouscasse, B., Ducrozet, G., Ferrant, P., 2021. A Comparative Study on the Nonlinear Interaction Between a Focusing Wave and Cylinder Using State-of-the-art Solvers: Part B. *International Journal of Offshore and Polar Engineering*, Vol. 31, No. 1, March 2021, pp. 11–18; <https://doi.org/10.17736/ijope.2021.jc832>
- Sriram, V., Agarwal, S., Yan, S., Xie, Z., Saincher, S., **Schlurmann, T.**, Ma, Q., Stoesser, T., Zhuang, Y., Han, B., Zhao, W., Yang, X., Li, Z., Wan, D., Zhang, Y., Teng, B., Ning, D., Zhang, N., Zheng, Y., Xu, G., Gong, Y., Li, Y., Liao, K., Duan, W., Han, R., Asnim, W., Sulaiman, Z., Zhou, Z., Qin, J., Li, Y., Song, Z., Lou, X., Lu, L., Yuan, C., Ma, Y., Ai, C., Dong, G., Sun, H., Wang, Q., Zhai, Z.-T., Shao, Y.-L., Lin, Z., Qian, L., Bai, W., Mam, Z., Higuera, P., Buldakov, E., Stagonas, D., Martelo Lopez, S., Christou, A., Lin, P., Li, Y., Lu, J., Hong, S.H., Ha, Y.-J., Kim, K.-H., Cho, S.-K., Park, D.-M., Laskowski, W., Eskilsson, C., Ricchiuto, M., Engsig-Karup, A. P., Cheng, L., Zheng, J., Gu, H., Li, G., 2021. A Comparative Study on the Nonlinear Interaction Between a Focusing Wave and Cylinder Using State-of-the-art Solvers: Part A. *International Journal of Offshore and Polar Engineering*, Vol. 31, No. 1, March 2021, pp. 1–10; <https://doi.org/10.17736/ijope.2021.jc820>

## 2020

- Kerpen, N.B., **Schlurmann, T.**, Schendel, A., Gundlach, J., Marquard, D., Hüpgen, M., 2020. Wave-Induced Distribution of Microplastic in the Surf Zone. *Frontiers in Marine Science*, 7, art. no. 590565, <https://DOI:10.3389/fmars.2020.590565>
- David, C.G., **Schlurmann, T.**, 2020. Hydrodynamic Drivers and Morphological Responses on Small Coral Islands—The Thoindu Spit on Fuvahmulah in the Maldives, *Frontiers in Marine Science*, 7, art. no. 538675 <https://DOI:10.3389/fmars.2020.538675>
- Kuenzer, C., Heimhuber, V., Day, J., Varis, O., Renaud, F., Gaohuan, L., Tuan, V.Q., **Schlurmann, T.**, Glamore, W., 2020. Profiling resilience and adaptation in mega deltas: A comparative assessment of the Mekong, Yellow, Yangtze, and Rhine deltas. *Ocean and Coastal Management*, 198, art. no. 105362, <https://DOI:10.1016/j.ocecoaman.2020.105362>
- Jordan, C., Visscher, J., Dung, N.V., Apel, H., **Schlurmann, T.**, 2020. Impacts of human activity and global changes on future morphodynamics within the tien river, vietnamese mekong delta. *WATER (Switzerland)*, 12 (8), art. no. 2204, <https://doi:10.3390/w12082204>
- Schendel, A., Welzel, M., **Schlurmann, T.**, Hsu, T.W., 2020. Scour around a monopile induced by directionally spread irregular waves in combination with oblique currents. *Coastal Engineering*, 161, art. no. 103751, <https://doi:10.1016/j.coastaleng.2020.103751>
- Welzel, M., Schendel, A., Goseberg, N., Hildebrandt, A., **Schlurmann, T.**, 2020. Influence of Structural Elements on the Spatial Sediment Displacement around a Jacket-Type Offshore Foundation. *WATER - Section Water Erosion and Sediment Transport*, 12 (6), <https://doi.org/10.3390/w12061651>
- Kerpen, N.B., Daemrich, K.-F., Lojek, O., **Schlurmann, T.**, 2020. Effect of variations in water level and wave steepness on the robustness of wave overtopping estimation. *Journal of Marine Science and Engineering*, 8 (1), art. no. 63, <https://DOI:10.3390/JMSE8020063>
- Lojek, O., Tiede, J., Visscher, J., Cossu, R., **Schlurmann, T.**, 2020. Spatiotemporal Investigation of Event-Driven Sedimentation in a Tidally Influenced Shipyard by Air and Waterborne Observations. *Journal of Waterway, Port, Coastal and Ocean Engineering*, 146 (4), (ASCE) art. no. 05020001, [https://doi:10.1061/\(ASCE\)WW.1943-5460.0000572](https://doi:10.1061/(ASCE)WW.1943-5460.0000572)
- Aghaei, A., Schimmels, S., **Schlurmann, T.** and A. Hildebrandt, 2020. Numerical modeling of pure/aerated water entry of elastic plates, investigation of the effect of aeration and hydroelasticity on impact loading and structural response. *Ocean Engineering*, 201, art. no. 107098, <https://doi:10.1016/j.oceaneng.2020.107098>



## 2019

- Schendel, A., Welzel, M., Hildebrandt, A., **Schlurmann, T.** and T.W. Hsu, 2019. Role and Impact of Hydrograph Shape on Tidal Current-Induced Scour in Physical-Modelling Environments. *Water* (Switzerland), MDPI, 11, 2636; <https://doi:10.3390/w11122636>
- Jordan, C., Tiede, J., Lojek, O., Visscher, J., Apel, H., Nguyen, H.Q., Quang, C.N.X., **Schlurmann, T.**, 2019. Sand mining in the Mekong Delta revisited - current scales of local sediment deficits. *Scientific Reports*, 9 (1), art. no. 17823, NATURE-Springer, <https://DOI:10.1038/s41598-019-53804-z>
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- Gijsman, R., Visscher, J., **Schlurmann, T.**, 2019. The lifetime of shoreface nourishments in fields with nearshore sandbar migration. *Coastal Engineering*, Elsevier, Vol. 152. Oct. 2019, <https://doi.org/10.1016/j.coastaleng.2019.203521>
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## 2018

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## 2017

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