

# CV

**Univ.-Prof. Dr.-Ing. habil. Torsten SCHLURMANN**

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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 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 2007
- **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, 2007-10
- **Head of Section** for Coastal Hazards and Risks, Institute for Environment and Human Security (UNU-EHS), Bonn, United Nations University (UNU), Tokyo, 2005-07
- **Postdoctoral Researcher**, Berg. Univ. Wuppertal (BUW), Germany, 1999-05 with award of Habilitation degree, Berg. Univ. Wuppertal (BUW), Germany, Final degree: PD Dr.-Ing. habil., in 2005
- **Research Associate** and Phd student, Bergische Universität Wuppertal (BUW), Germany, 1995-99 with PhD degree, Berg. Univ. Wuppertal (BUW), Germany, Final degree: Dr.-Ing., in 1999
- Studies of **Civil and Env. Engineering**, **Berg. Univ. Wuppertal (BUW)**, Final degree: Dipl.-Ing., 1991-95
- **Abitur**, Remscheid, Germany in 1991

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

- Member of the Executive Board of the **Deutsche Allianz Meeresforschung (DAM)**
- Member of the Executive Board of **ForWind – Center for Wind Energy Research**
- Member of International Scientific Advisory Board of **Leibniz Centre for Tropical Marine Research (ZMT)**
- Member of Scientific Advisory Board of **Fed. Waterways Engineering and Research Institute (BAW)**
- Member of the **DFG-Sonderforschungsbereich Offshore Megastrukturen (SFB1463)**
- Member of **Braunschweigische Wissenschaftliche Gesellschaft (BWG)**
- Editorial Board of **Frontiers in Marine Science** (Frontiers), Section: Coastal Ocean Processes
- 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

- **Deputy Chair** of the Executive Board of the **German Marine Research Consortium (KDM)**, 2023-26
- **Member of the *Zukunftsforum Ozean*** of the *German Marine Research Consortium (KDM)*, 1<sup>st</sup> term 2021-22 and 2<sup>nd</sup> term 2023-24
- **Member of the Executive Board of the Hafentechnische Gesellschaft (HTG):**  
*Gesamtvorstand (2009-2023)* and *Vorstand (2019-2023)*
- **Dean of the Faculty for Civil Engineering and Geodetic Sciences**, Leibniz Universität Hannover, Germany, term: 2013-15
- **Deputy Dean of the Faculty for Civil Engineering and Geodetic Sciences**, Leibniz Universität Hannover, Germany, 1<sup>st</sup> term 2011-13 and 2<sup>nd</sup> term 2015-17
- Member of the **Academic Senate of the Leibniz Universität Hannover**, term: 2011-13 and elected deputy member, 1<sup>st</sup> term: 2013-15 and 2<sup>nd</sup> term 2015-17
- **Member Scientific Board of Helmholtz-Zentrum Hereon** for Materials and Coastal Research Helmholtz Association of German Research Centers (HGF), 1<sup>st</sup> term 2009-13 and 2<sup>nd</sup> term 2013-17

## 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 sea level rise and cascading effects
- Coastal dynamics, erosion processes and coastal engineering; transport processes of marine litter (MP)
- Ecosystem-based coastal protection; living revetments in estuaries and navigational waterways
- Marine renewable energies, port and harbor design, marine environmental impacts and projections

## Publication output Torsten Schlurmann (SCOPUS Author ID: 6603653887, Apr. 24<sup>th</sup>, 2026)

### Schlurmann, Torsten

Gottfried Wilhelm Leibniz Universität Hannover, Hannover, Germany • Scopus ID: 6603653887

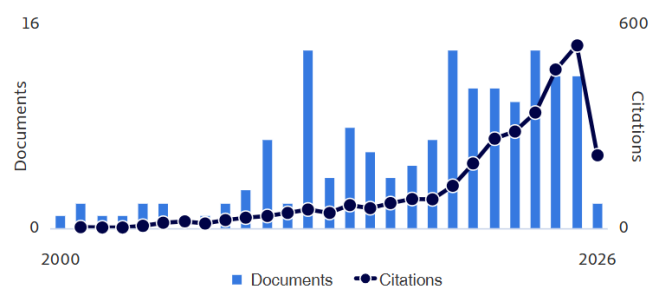
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3,100 Citations by 2,446 documents  
158 Documents  
28 h-index

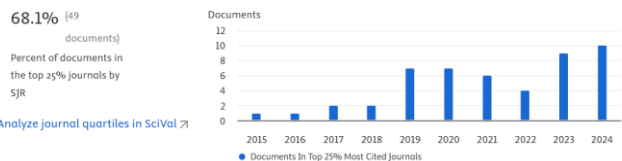
#### Sustainable Development Goals

Goal 1: No poverty	1 document
Goal 2: Zero hunger	2 documents
Goal 4: Quality education	2 documents
Goal 6: Clean water and sanitation	7 documents
Goal 7: Affordable and clean energy	33 documents
Goal 8: Decent work and economic growth	2 documents
Goal 9: Industry, innovation and infrastructure	5 documents
Goal 11: Sustainable cities and communities	12 documents
Goal 12: Responsible consumption and production	1 document
Goal 13: Climate action	14 documents
Goal 14: Life below water	35 documents
Goal 15: Life on land	4 documents
Goal 16: Peace, justice and strong institutions	2 documents
Goal 17: Partnership for the goals	3 documents

#### Document & citation trends



#### Documents in top 25% journals by SJR



#### Collaboration

43.6%  
International collaboration  
Percent of documents co-authored with researchers in other countries/regions

## Publications (Apr. 24<sup>th</sup> 2026)

### 2026

- Schönebeck J.-M., Bunzel D., Paul M., **Schlurmann T.**, 2026. Plant trait diversity buffers soil moisture dynamics on coastal dikes during drought periods. *PLOS ONE*, 21, art. no. e0345552, <https://doi.org/10.1371/journal.pone.0345552>
- Hoballah Jalloul M., Satari R., Schendel A., Welzel M., Kerpen N.B., Visscher J., Neuweiler I., **Schlurmann T.**, 2026. The influence of the pile Reynolds number on monopile scour prediction across experimental length scales under combined wave-current loading. *Coastal Engineering*, 206, art. no. 104951, <https://doi.org/10.1016/j.coastaleng.2026.104951>

### 2025

- Garcia K., Jordan C., Melling G., Schendel A., Welzel M., **Schlurmann T.**, 2025. Scour variability across offshore wind farms (OWFs): identifying site-specific scour drivers as a step towards assessing potential impacts on the marine environment. *Wind Energy Science*, 10 (10), pp. 2189 - 2216, <https://doi.org/10.5194/wes-10-2189-2025>
- Hoffmann T.K., Pfennings K., Hitzegrad J., Paul M., Wehrmann A., Goseberg N., **Schlurmann T.**, 2025. Sediment accumulation by coastal biogenic structures sustains intertidal flats facing sea level rise in the German Wadden sea. *Scientific Reports*, 15 (1), art. no. 18518, NATURE-Springer, <https://doi.org/10.1038/s41598-025-03326-8>
- Horn S., Buck B.H., Amann R., Boteler B., Gee K., Goseberg N., Halbach M., Heins A., Heubel K., Kannen A., Kraft D., Lemmen C., Peters K., Schendel A., **Schlurmann T.**, Schrum C., Schupp P.J., Stelzenmüller V., Sidorenko V., Wilhelmssen U., Wiltshire K.H., 2025. Towards a strategy for offshore installations to enhance the environmental status of coastal seas: Multi-use concepts for ecosystem restoration. *Marine Policy*, 182, art. no. 106893. <https://doi.org/10.1016/j.marpol.2025.106893>
- Hoballah Jalloul M., Satari R., Welzel M., Schendel A., Kerpen N.B., Wynants M., Neuweiler I., **Schlurmann T.**, 2025. Wave-current induced scour around complex offshore structures: Towards a refined analysis of local scour at jacket piles, *Ocean Engineering*, 338, art. no. 121983, <https://doi.org/10.1016/j.oceaneng.2025.121983>
- Meyer J., Windt C., Schweiger C., Krautwald C., Welzel M., Hildebrandt A., **Schlurmann T.**, Goseberg N., 2025. An experimental benchmark study on shape effects of structures under forced vertical oscillation: Flow fields, wave radiation, and hydrodynamic coefficients, *Applied Ocean Research*, 159, art. no. 104585, <https://doi.org/10.1016/j.apor.2025.104585>
- Tiede, J., Lovell, J.-L., Jordan, C., Moghimi, A., **Schlurmann, T.**, 2025. Assessment of sand nourishment dynamics under repeated storm impact supported by machine learning-based analysis of UAV data. *Frontiers in Marine Science*, Volume 12 – 2025, <https://doi.org/10.3389/fmars.2025.1537066>
- Hitzegrad J., Rentsch L., Hoffmann T.K., Paul M., Windt C., **Schlurmann T.**, Goseberg N., 2025. Wave-induced hydrodynamics of biogenic structures in the central Wadden Sea: Implications of the transformation from mussel beds to oyster reefs for wave attenuation, *Coastal Engineering*, 200, art. no. 104763, <https://doi.org/10.1016/j.coastaleng.2025.104763>
- Herbst M., Kerpen N.B., Schoonees T., **Schlurmann T.**, 2025. Full-scale experimental study on wave impacts at stepped revetments. *Coastal Engineering*, 198, art. no. 104705, <https://doi.org/10.1016/j.coastaleng.2025.104705>
- Tiede J., Cossu R., Visscher J., Grinham A., **Schlurmann T.**, 2025. Turbulence and mixing variability in a microtidal estuary subject to mixed semidiurnal tidal cycles. *Frontiers in Marine Science*, 12, art. no. 1447316, <https://doi.org/10.3389/fmars.2025.1447316>
- Michalzik J., Paul M., **Schlurmann T.**, 2025. Response of grass covers for dikes to coastal stressors

during establishment phase. *Ecological Engineering*, 212, art. no. 107488, <https://doi.org/10.1016/j.ecoleng.2024.107488>

- Kamperdicks L., Lattuada M., O Corcora T., **Schlurmann T.**, Paul M., 2025. Enhancing seagrass restoration success: Detecting and quantifying mechanisms of wave-induced dislodgement. *Science of the Total Environment*, 959, art. no. 178055, <https://doi.org/10.1016/j.scitotenv.2024.178055>

## 2024

- Scheiber L., Sairam N., Hoballah Jalloul M., Rafiezadeh Shahi K., Jordan C., Visscher J., Zadeh T.E., Oostwegel L.J.N., Schorlemmer D., Son N.T., Nguyen Quan H., **Schlurmann T.**, Garschagen M., Kreibich H., 2024. Effective Adaptation Options to Alleviate Nuisance Flooding in Coastal Megacities—Learning From Ho Chi Minh City, Vietnam. *Earth's Future*, 12 (11), art. no. e2024EF004766, <https://doi.org/10.1029/2024EF004766>
- Meyer J., Windt C., Hildebrandt A., **Schlurmann T.**, 2024. Mechanically coupled wave farms: On the accuracy of a mid-fidelity hydrodynamic model under consideration of varying calibration approaches. *Ocean Engineering*, 305, art. no. 117874, <https://doi.org/10.1016/j.oceaneng.2024.117874>
- Tiede J., Jordan C., Siewert M., Sommermeier K., **Schlurmann T.**, 2024. Evolution of beach profiles at the German Baltic Sea during and after large-scale beach nourishment: bar formation and sand redistribution. *Frontiers in Marine Science*, 11, art. no. 1473237, <https://doi.org/10.3389/fmars.2024.1473237>
- Kerpen, N.B., Larsen, B.E., **Schlurmann, T.**, Paul, M., Guler, H.G., Goral, K.D., Carstensen, S., Damgaard Christensen, E., Fuhrman, D.F., 2024. Microplastic retention in marine vegetation canopies under breaking irregular waves. *Science of The Total Environment*, Vol. 912, art. no. 169280, <https://doi.org/10.1016/j.scitotenv.2023.169280>
- Moghimi, A., Welzel, M., Turgay, C., **Schlurmann, T.**, 2024. A Comparative Performance Analysis of Popular Deep Learning Models and Segment Anything Model (SAM) for River Water Segmentation in Close-Range Remote Sensing Imagery. *IEEE Access*, Vol. 12, art. no. 52067. <https://10.1109/ACCESS.2024.3385425>
- Welzel, M., Schendel, A., Satari, R., Neuweiler, I., **Schlurmann, T.**, 2024. Spatio-temporal analysis of scour around complex offshore foundations under clear water and live bed conditions, *Ocean Engineering*, Vol. 298, art. no. 117042, <https://doi.org/10.1016/j.oceaneng.2024.117042>
- Gundlach J., Herbst M., Alex A.S., Zorndt A., Jordan C., Visscher J., **Schlurmann T.**, 2024. Simulating the near-field dynamic plume behavior of disposed fine sediments. *Frontiers in Marine Science*, 11, art. no. 1416521, <https://doi.org/10.3389/fmars.2024.1416521>
- Saathoff, J.E., Goldau, N., Achmus, M., Schendel, A., Welzel, M., **Schlurmann, T.**, 2024. Influence of scour and scour protection on the stiffness of monopile foundations in sand. *Applied Ocean Research*, Vol. 144, art. no. 103920, <https://doi.org/10.1016/j.apor.2024.103920>
- Wynants, M., Schendel, A., Welzel, M., Kerpen, N. B., **Schlurmann, T.**, 2024. Current-distorted wave diffraction patterns in the near-field of a monopile in coastal seas. *Ocean Engineering*, 302, art. no. 117432, <https://doi.org/10.1016/j.oceaneng.2024.117432>
- Satari R., Sarma B., Schendel A., Welzel M., Krishna R., **Schlurmann T.**, Neuweiler I., 2024. Hydrodynamics around a jacket-type foundation structure in steady current: A combined experimental and numerical study. *Ocean Engineering*, 304, art. no. 117832, <https://doi.10.1016/j.oceaneng.2024.117832>

## 2023

- Villanueva R., Paul M., Schlurmann T., 2023. Wave dynamics alteration by discontinuous flexible mats of artificial seagrass can support seagrass restoration efforts. *Scientific Reports*, 13 (1), art. no. 19418,

- 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>
- Hoffmann T.K., Pfennings K., Hitzegrad J., Brohmann L., Welzel M., Paul M., Goseberg N., Wehrmann A., **Schlurmann T.**, 2023. Low-cost UAV monitoring: insights into seasonal volumetric changes of an oyster reef in the German Wadden Sea. *Frontiers in Marine Science*, 10, 1245926, <https://doi.org/10.3389/fmars.2023.1245926>
- 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>
- Wynants M., Schendel A., Welzel M., **Schlurmann T.**, 2023. Sensitivity of the Current and Wave Field to Blockage by Offshore Jacket Structure. *Proc. of the Intern. Off. and Pol. Eng. Conf. (ISOPE)*, pp. 912 – 919
- 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>
- Satari R., Welzel M., Schendel A., Neuweiler I., **Schlurmann T.**, 2023. Spatio-temporal analysis of scour around jacket-type offshore foundations under clear water and live bed conditions. *Proc. of the Coastal Engineering Conference (ICCE)*, (37), <https://doi.org/10.9753/icce.v37.sediment.52>
- Souza e Silva M.G., Guimarães R., Kerpen N., Rosman P.C., Neves C.F., **Schlurmann T.**, 2023. Orbital velocities due to bichromatic-birectional waves. *Proc. of the Coastal Engineering Conference*, (37), <https://doi.org/10.9753/icce.v37.papers.59>
- Tiede J., Jordan C., **Schlurmann T.**, 2023. Satellite-derived shoreline dynamics at the German Baltic Sea. *Proc. of the Coastal Engineering Conference (ICCE)*, (37), <https://doi.org/10.9753/icce.v37.sediment.78>

- 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., Gijssman, 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

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- 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.; Gijssman, 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>
- Gijssman, 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>
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