

Publication List of Ilmas Bayati - Updated November 2025

1. I. Bayati, L. Efthimiou "Digitalizing Floating Wind", World Forum Offshore Wind (WFO), [October 2025](#)
2. P. Watissee, J. Gregor, T. Vanheeghe, C. Cartensen, I. Bayati, "Tow-to-port operations for offshore floating wind farms: numerical modelling informed by real-world insights", Journal of Physics: Conference Series 2024, [doi:10.1088/1742-6596/3131/1/012049](#)
3. Ludot, Azélice & Snedker, Thor & Kolios, Athanasios & Bayati, Ilmas. (2025). Data-Driven Surrogate Models for Real-Time Fatigue Monitoring of Chain Mooring Lines in Floating Wind Turbines. [10.5194/wes-2024-162](#).
4. Hall M., Lozon E., Devoy McAuliff F., Baudino Besson M., Bayati I., et al. The International Energy Agency (IEA) Wind Task 49 Reference Floating Wind Array Design Basis. [NREL/TP-5000-89709](#)
5. Lange, Johannes & Snedker, Thor & Collu, Maurizio & Bayati, Ilmas. (2024). A dynamic simulation-based methodology for systematic assessment of workability on floating wind turbines. Journal of Physics: Conference Series. 2875. 012021. [10.1088/1742-6596/2875/1/012021](#).
6. Pérez Moreno, Carlos & Lange, Johannes & Snedker, Thor & Bayati, Ilmas. (2024). Multi-body dynamic assessment of vessel-floater accessibility for floating wind. Journal of Physics: Conference Series. 2875. 012034. [10.1088/1742-6596/2875/1/012034](#).
7. Pérez Moreno, Carlos & Lange, Johannes & Snedker, Thor & Bayati, Ilmas. (2024). A dynamic-simulation based workability and accessibility combined method for systematic analysis of floating wind operations. Journal of Physics: Conference Series. 2767. 062008. [10.1088/1742-6596/2767/6/062008](#).
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9. I. Bayati, L. Efthimiou. Onsite Major Component Replacement Technologies for Floating Offshore Wind: the Status of the Industry, World Forum Offshore Wind White Paper. [Feb., 2023](#)
10. Joanna Martin, Carlos Pérez Moreno, Thor Heine Snedker, Katherine Dykes and Ilmas Bayati. Techno-economical Layout and Turbine Type Optimization for Floating Offshore Wind Farms: A ScotWind Portfolio Study. [2023 J. Phys.: Conf. Ser. 2626 012054](#)
11. Gueydon, S, Bayati, I, Bosman, R, van Kampen, W, & de Ridder, E. "Wind Turbine Load Monitoring During Model-Test in a Wave Basin." Proceedings of the ASME 2023 42nd International Conference on Ocean, Offshore and Arctic Engineering. Volume 8: Ocean Renewable Energy. Melbourne, Australia. June 11-16, 2023. [V008T09A040. ASME](#).
12. I. Bayati, L. Efthimiou. Challenges and Opportunities of Major Maintenance for Floating Offshore, World Forum Offshore Wind (WFO), [White Paper, Dec, 2021](#).
13. Gueydon, Sébastien & Bayati, Ilmas & Ridder, Erik-Jan. (2021). OC6 semisubmersible response to waves in offset positions caused by constant thrust loads. Journal of Physics: Conference Series. 2018. 012020. [10.1088/1742-6596/2018/1/012020](#).
14. Fontanella, Alessandro & Bayati, Ilmas & Mikkelsen, Robert & Belloli, Marco & Zasso, Alberto. (2021). UNAFLOW: a holistic experiment about the aerodynamics of floating wind turbines under imposed surge motion. Wind Energy Science, 2021. [10.5194/wes-2021-12](#).
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26. S. Muggiasca, I. Bayati, S. Giappino, L. Rosa, and M. Belloli. Wind-induced response of light and slender arched structures in twin arrangement: Wind tunnel tests and full-scale monitoring. *Engineering Structures*, [190:262-275, 2019](#).
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