

**Proceedings of ASME 2024  
43rd International Conference on  
Ocean, Offshore and  
Arctic Engineering**

**(OMAE2024)**

**Volume 7**

**June 9-14 2024  
Singapore, Singapore**

**Conference Sponsor  
Ocean, Offshore and Arctic  
Engineering Division**

**Part 1 of 2**

**THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS**

© 2024, The American Society of Mechanical Engineers, 150 Clove Road, Little Falls, NJ 07424, USA  
([www.asme.org](http://www.asme.org))

All rights reserved. "ASME" and the above ASME symbols are registered trademarks of the American Society of Mechanical Engineers. No part of this document may be copied, modified, distributed, published, displayed, or otherwise reproduced in any form or by any means, electronic, digital, or mechanical, now known or hereafter invented, without the express written permission of ASME. No works derived from this document or any content therein may be created without the express written permission of ASME. Using this document or any content therein to train, create, or improve any artificial intelligence and/or machine learning platform, system, application, model, or algorithm is strictly prohibited.

INFORMATION CONTAINED IN THIS WORK HAS BEEN OBTAINED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS FROM SOURCES BELIEVED TO BE RELIABLE. HOWEVER, NEITHER ASME NOR ITS AUTHORS OR EDITORS GUARANTEE THE ACCURACY OR COMPLETENESS OF ANY INFORMATION PUBLISHED IN THIS WORK. NEITHER ASME NOR ITS AUTHORS AND EDITORS SHALL BE RESPONSIBLE FOR ANY ERRORS, OMISSIONS, OR DAMAGES ARISING OUT OF THE USE OF THIS INFORMATION. THE WORK IS PUBLISHED WITH THE UNDERSTANDING THAT ASME AND ITS AUTHORS AND EDITORS ARE SUPPLYING INFORMATION BUT ARE NOT ATTEMPTING TO RENDER ENGINEERING OR OTHER PROFESSIONAL SERVICES. IF SUCH ENGINEERING OR PROFESSIONAL SERVICES ARE REQUIRED, THE ASSISTANCE OF AN APPROPRIATE PROFESSIONAL SHOULD BE SOUGHT.

ASME shall not be responsible for statements or opinions advanced in papers or . . . printed in its publications (B7.1.3). Statement from the Bylaws.

For authorization to photocopy material for internal or personal use under those circumstances not falling within the fair use provisions of the Copyright Act, contact the Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, tel: 978-750-8400, [www.copyright.com](http://www.copyright.com).

Requests for special permission or bulk reproduction should be addressed to the ASME Publishing Department, or submitted online at: <https://www.asme.org/publications-submissions/journals/information-for-authors/journal-guidelines/rights-and-permissions>

ISBN: 978-0-7918-8785-1

# TABLE OF CONTENTS

## PART 1

Estimating the Most Likely Extreme Nacelle Acceleration of a Floating Offshore Wind Turbine From Physical Model Tank Testing .....	1
<i>Ailsa McMillan, Alasdair McDonald, Ajit C. Pillai, Zhiming Yuan, Thomas Davey</i>	
A Progressive Screening Approach for Mooring Configuration Selection: A Case Study of the Arven Offshore Wind Farm .....	9
<i>Jonathan Glasspool, Longbin Tao, Vengatesan Venugopal, Ajit C. Pillai</i>	
The Influence of Current Profile on On-Bottom Stability of Subsea Cable .....	21
<i>Mingxuan Hao, Vegard Longva, Naiquan Ye, Guomin Ji, Svein Saevik</i>	
Development and Tuning of a Linear Model Predictive Controller for Floating Offshore Wind Turbines to Tackle Platform Pitch Instability and Load Alleviation .....	28
<i>Carlos Perez Moreno</i>	
Toward Efficient Infrastructure Development and Project Planning for Floating Offshore Wind Energy .....	38
<i>Shintaro Sobashima, Ryota Wada, Lance Manuel</i>	
A Toolbox for Towing Dynamics Predictions for Floating Offshore Wind Turbines: Validation and Parametric Study .....	48
<i>Samuel Davis, Amrit Verma, Anthony Viselli, Christopher Allen</i>	
A Flexible Support System for Large Wind Turbines.....	60
<i>Wangwen Zhao</i>	
Influence of Bag Shapes on the Hydrodynamics of Subsea Filter Unit in Power Cable Protection .....	73
<i>Feifei Tong, Terry Griffiths, Scott Draper, Hongwei An, Liang Cheng</i>	
Analysis of the Dynamic Responses of a Barge-Type Platform With Multiple Wind Turbines .....	81
<i>Vighneshwar S. A., Nilanjan Saha, Suresh Rajendran</i>	
Optimal Mooring Pattern for a Semi-Submersible FOWT in a Typhoon Environment .....	90
<i>Glib Ivanov, Yongyan Wu, DongHui Chen, Zhao-Yu Lai, Jui-Chen Chen, Nikolai Gladkov, Kai-Tung Ma</i>	
Dynamic Responses of the Tower and Blades on a Spar-Type Floating Wind Turbine Under Freak Waves .....	102
<i>Yan Li, Haoran Li, Yiwen Cui, Ouming Su, Guoyan Li, Yougang Tang</i>	
Validation of a Mooring System With Clump Weights for a Spar Floating Wind Turbine Model Using OpenFAST .....	107
<i>Tomas Lopez-Olocco, Leo M. Gonzalez Gutierrez, Krish Thiagarajan</i>	
Analysis of Installation Time for Floating Offshore Wind Farms .....	118
<i>Tomohiro Hasumi, Takeshi Yokoi, Ken Haneda, Toshiki Chujo, Toshifumi Fujiwara</i>	
Numerical Study on Design Optimization of Tension Leg Platform for FOWT Based on Surrogate Model and Multi-Objective Evolutionary Algorithm .....	128
<i>Hyo-Jin Park, Zhenhao Song, Bo Woo Nam, Yoon-Jin Ha, Kyong-Hwan Kim</i>	

Numerical Investigation of Vortex-Induced Motions of a Scaled OC4 Floating Offshore Wind Turbine .....	135
<i>Yuxin Yang, Yuanchuan Liu, Liang Li</i>	
Mooring Anchor Radius and Spread-Angle Optimization for a 2 MW Semi-Submersible Floating Wind Turbine in Taiwan Strait.....	145
<i>Zhao-Yu Lai, Glib Ivanov, Jui-Chen Chen, DongHui Chen, Kai-Tung Ma</i>	
Relative Motion Prediction for Integrated Floating Offshore Wind Turbine Installation Scheme Based on Data-Driven .....	154
<i>Can Ma, Taiyu Zhang, Zongyuan Yang, Yang An, Xiang Yuan Zheng, Zhengru Ren</i>	
Study on Weather Vane Effect of a Single-Point Mooring Floating Offshore Wind Turbine .....	164
<i>Jiahao Chen, Yifan Gao, Kai Wang</i>	
Engineering the Best Storm in a Teacup - Bespoke Metocean Criteria Improve STABLEpipe Outcomes for Offshore Wind Array and Export Cables .....	174
<i>Isla Oliver, Jack Thwaites, Benjamin Williams, Fabrizio Pistani, Nicholas McGrath, Terry Griffiths, Folkert Brand</i>	
Comparative Analysis of Non-Welded Wrapped Composite Joints Versus Welded Joints Under Multi-Axial Load Conditions in Offshore Wind Turbine Supporting Structures: A Fatigue Performance Evaluation .....	183
<i>Mathieu Koetsier, Vasileios Mylonopoulos, Mees Wolters, Marko Pavlovic</i>	
NextFloat: Light Is Beautiful, Use of Lattice Structure in Floating Wind.....	193
<i>Marc Cahay, Lucy Milde</i>	
Investigation Into Sloshing-Induced Fatigue of Inter-Array Cables Inside a Fixed Offshore Wind Turbine Monopile Foundation.....	203
<i>Mohd Atif Siddiqui, Henan Li, Knut-Aril Farnes, Steinar Midtveit</i>	
Fatigue Assessment and Resonance Effects in an Inter Array Cable due to Global Dynamic Deflections in a Bottom Fixed Monopile Wind Turbine Foundation .....	215
<i>Henan Li, Carsten Arnholm, Mohd Atif Siddiqui, Knut-Aril Farnes, Steinar Midtveit, Louise Ankerstjerne Rolland, Knut Nordheim</i>	
Numerical Simulation of a Semi-Taut Moored Floating Offshore Wind Turbine Under a Mooring Line Failure in Shallow Waters .....	226
<i>Hung-Jie Tang, Di-Rong Li, Ray-Yeng Yang, Tai-Wen Hsu</i>	
An Experimental Study on Effects of Aerodynamic Damping of a 5MW Semi-Submersible Floating Vertical Axis Wind Turbine .....	235
<i>Yingying Jiang, Zhengshun Cheng, Peng Chen, Lei Liu, Lijun Yang, Longfei Xiao</i>	
A Comparison of Optimization Methods Applied to Surrogate-Based Optimization in Wind Farm Yaw Control.....	243
<i>Yu Tu, Kai Zhang, Yaoran Chen, Zhaolong Han, Yong Cao, Dai Zhou</i>	
A Modular Steel Gravity Foundation (MSGF) for TLP Floating Offshore Wind Turbine (FOWT) Tendon .....	251
<i>Rathinam Periyaiah, Edward Huang, Zhaoxiang Tang, Mustafa Erten, Moe Tavassoli</i>	
An Intelligent Failure Data Analysis Framework for Failure Data Management of Wind Turbines .....	260
<i>He Li, Carlos Guedes Soares, Yi Ding</i>	

Development and Validation of Real-Time Hybrid Model Testing Framework for Aerodynamic Simulation of Floating Wind Turbines .....	268
<i>Tiancheng Yao, Weikai Cai, Yipin Wang, Yongsheng Zhao, Jin Wang</i>	
Combination of Potential Theory and Morison-Like Viscous Drag Terms in the Hydrodynamic Model of a 12 MW Semi-Submersible Floating Wind Turbine.....	276
<i>Carlos Eduardo Silva de Souza, Nuno Fonseca, Petter Andreas Berthelsen</i>	
Mooring Optimization of Floating Offshore Wind Turbines Using Genetic Algorithm.....	286
<i>Lucas do Vale Machado, Milad Shadman, Mojtaba Maali Amiri, Segeen Farid Estefen</i>	
Hydrodynamic Characteristics of Heave Plates in Shallow Water Using Forced Oscillation .....	295
<i>Haoran Li, Jinhai Zheng, Jisheng Zhang, Mi-An Xue, Chen Yang</i>	
Diagnostic Digital Twin for Anomaly Detection in Floating Offshore Wind Energy.....	303
<i>Florian Stadtmann, Adil Rasheed</i>	
Study on the Synthetic Fiber Rope Mooring for Floating Offshore Wind Turbines Depending on the Water Depth and Materials of Ropes.....	313
<i>Toshiki Chujo, Ken Kamizawa, Haruki Yoshimoto</i>	
Simplified Fatigue Load Cases Assessment in Tension Leg Platform Floating Offshore Wind Structural Analysis .....	320
<i>Xun Meng, Zhaoyue Wang, Qing Lu, Robert Rawlinson-Smith, Deborah Greaves, Wenping Wang, Qiang Fu</i>	
On the Design, Hydrodynamic Modelling and Response Analysis of a New Concept FOWT Platform.....	330
<i>Touhidul Islam, Vengatesan Venugopal</i>	
Vortex Induced Vibrations of a Lazy Wave Dynamic Power Cable Under Various Currents and Propagation Directions: Analysis of Strain.....	339
<i>Rameeza Moideen, Vengatesan Venugopal, John Chaplin</i>	
Numerical Modelling of Novel Floating Offshore Wind Turbine Concept .....	349
<i>Oisin Conway, Aengus Connolly, Sean Leen</i>	
An Effective Method for Evaluating the Failure of Wind Turbine Blade Under Various Conditions .....	361
<i>Fangyuan Sheng, Xu Liang, Baoxuan Wang, Haiyan Liao</i>	
The Effect of Directional Spreading on Extreme Sea State Response for Floating Wind Turbines .....	368
<i>Aref Moalemi, Mathilde H. Wagner, Sithik Aliyar, Amin Ghadirian, Bjarne Jensen, Henrik Bredmose</i>	
Effects of Vertical Distance on Performance and Wake Characteristics of Two Offshore Wind Turbines With Various Lateral Distances .....	377
<i>Haolong Li, Yuanchuan Liu, Shuang Chang</i>	
Enhancing Offshore Wind Farm Met-Ocean Data Accessibility: A Machine Learning Approach With Satellite-Derived Wave Measurements in the Celtic Sea.....	384
<i>Sophie Whistler, Ian G. C. Ashton, Ajit C. Pillai, Graham D. Quartly</i>	
An Upgraded Direct Forcing Immersed Boundary Method With Integrated Mooring Algorithm for Floating Offshore Wind Turbines .....	391
<i>Ahmet Soydan, Widar Weizhi Wang, Hans Bihs</i>	

Analysis of Static, Dynamic, Global, and Local Load Effects for Ultimate Limit State Assessment of Semi-Submersible Hulls of Floating Wind Turbines.....	401
<i>Shuaishuai Wang, Torgeir Moan, Shan Gao, Wei Li, Zhen Gao</i>	
Numerical Investigation of Vortex-Induced Motions (VIM) on a Semi-Submersible Floating Offshore Wind Turbine.....	412
<i>Decao Yin, Elizabeth Passano, Petter Andreas Berthelsen</i>	
Estimation and Experimental Validation of Extreme Waves and Loads on a Large Monopile .....	422
<i>Csaba Pakozdi, Hagbart S. Alsos, Senthuran Ravinthrakumar, Synne Nyboe, Louise Ankerstjerne Rolland, Knut Nordheim</i>	
Exploring the Technical Boundaries in Upscaling Floating Offshore Wind Turbines.....	433
<i>Marek Jan Janocha, Chern Fong Lee, Xueliang Wen, Muk Chen Ong, Lars Raunholt, Orjan Helgaland Larsen, Svein Soyland</i>	
Validation of Local Structural Loads Computed by OpenFAST Against Measurements From the FOCAL Experimental Campaign .....	445
<i>Lucas Carmo, Roger Bergua, Lu Wang, Amy Robertson</i>	
Optimizing Aluminum Alloys for Dynamic Cables in Floating Wind Energy Transmission .....	459
<i>Audun Johanson, Luigi Viespoli</i>	
Efficient Design of Floating Offshore Wind Turbines.....	465
<i>Anil Sablok, Bonjun Koo, Thiago Miliante</i>	
Harnessing Uncertainty: a Generalized Polynomial Chaos Approach to Mooring Load Analysis in Offshore Floating Wind Turbines.....	474
<i>Ashkan Rafiee, Nitin Repalle</i>	
Dynamic Simulation Procedure of Mooring System for a Floating Offshore Wind Turbine Platform .....	483
<i>Jun-Hui Huang, Shun-Han Yang</i>	

## PART 2

On the Potential Impact of Climate Change on Design of Offshore Wind Turbines .....	494
<i>Hadi Amlashi</i>	
Computational Modelling of Repetitive Raindrop Impact and Resulting Fatigue Damage in Wind Turbine Blades.....	502
<i>Nikesh Kuthe, Suhail Ahmad, Puneet Mahajan, Leon Mishnaevsky Jr</i>	
Model Test of a Semi-Submersible Floating Wind Turbine: Hydrodynamic Motions and Internal Loads .....	510
<i>Yucong Jiang, Xiang Yuan Zheng, Shuaishuai Wang, Mengyang Zhao, Sheng Zhang, Torgeir Moan, Zhen Gao, Wei Li</i>	
Influence of Wave Spreading on Offshore Wind Turbine Design: a Monopile Supported DTU 10-MW Turbine Case Study .....	520
<i>Gerard V. Ryan, Ross A. McAdam, Thomas A. A. Adcock</i>	
Nylon Ropes for Mooring of Floating Offshore Wind Turbines: The NYMOOR Project .....	530
<i>Nuno Fonseca, Heidi Moe Fore, Stian Hoegh Sorum, Rune Gaarder, Bernt Johan Leira, Rui Pedro Faria, Michael Kent</i>	

Static and Fatigue Analysis of Wind Turbine Towers Made in Composite Materials .....	539
<i>Jean-Christophe Petiteau, Stephane Paboeuf, Abdulelah Al-Ghuwaidi</i>	
Vibration and Fatigue Mitigation of a 5 MW Barge-Type Floating Offshore Wind Turbine Under Misaligned Wind and Wave Loadings .....	545
<i>Riad El Hamoud, Philip Alkhoury, Mourad Ait-Ahmed, Abdul-Hamid Soubra, Franck Schoefs, Rabih Dib</i>	
Contribution of Waves to Horizontal Low Frequency Motions of Floating Offshore Wind Turbines.....	555
<i>Fatemeh H. Dadmarzi, Nuno Fonseca, Petter Andreas Berthelsen</i>	
Evaluation of Offshore Wind Power Production in Extreme Wind Conditions.....	566
<i>Xuan Liu, Xiaoqin Zhang, Xiuqing Xing, Chang Wei Kang, Venugopalan S. G. Raghavan, Vinh Tan Nguyen, Jichao Li</i>	
Wave Energy Farm Assessment in Real Wave Climates: The North Sea .....	576
<i>Vaibhav Raghavan, Matias Alday G., Andrei Metrikine, George Lavidas</i>	
Numerical Analysis of Structured Sheet Material in Flexible Oscillating Water Column Wave Energy Converter.....	586
<i>Yang Huang, Guillermo Idarraga, Qing Xiao, Liu Yang, Saishuai Dai, Farhad Abad, Feargal Brennan, Saeid Lotfian</i>	
Dynamic Response Analysis of Bio-Inspired TSUSUCA DOLPHINPatented .....	594
<i>Srinivasan Chandrasekaran, Basanagouda I. Patil, Meher Prasad A.</i>	
Improving the Wave Energy Production Using Multi-Size WEC Arrays With Passive Control .....	604
<i>Matias Alday G., Vaibhav Raghavan, George Lavidas</i>	
Hydrodynamic Analysis of Different Configurations of the M4 Wave Energy Converter System Using OREGEN .....	613
<i>Gangqiang Li, Peter Stansby</i>	
Design and Optimization of Layout and Dimensions of the M4 Wave Energy Converter System Under Regular and Irregular Waves .....	622
<i>Wei Wang, Yonghe Xie, Jiping Zhang, Gangqiang Li</i>	
Influence of Underlying Currents on the Performance of a Taut-Moored Point-Absorber WEC: an Investigation Via High-End Numerical Tools.....	629
<i>Salvatore Capasso, Bonaventura Tagliafierro, Malin Goteman, Ivan Martinez-Estevez, Jose M. Dominguez, Corrado Altomare, Moncho Gomez-Gesteira, Alejandro J. C. Crespo, Giacomo Viccione</i>	
Advancing the Modelica(TM) Ocean Engineering Toolbox With the Capability to Generate Accurate Wave Excitation Forces.....	643
<i>Ajay Menon, Ali Shahbaz Haider, Kush Bubbar</i>	
CFD Evaluation of the Self-Starting of a Vertical-Axis Wave Turbine and the Related Flow and Load Characteristics .....	652
<i>Deguang Yan, Yingchen Yang, Zhongfu Ge</i>	
An Elastically Moored Flexible Multibody Wave Energy Converter.....	661
<i>Debnal Nag Chowdhury, Swapnadip De Chowdhury, Ritwik Ghoshal</i>	
Design and Motion Analysis of a Floating Water Channel Platform With Wave Energy Converters.....	668
<i>Jeongrok Kim</i>	

A Numerical Analysis of a Hybrid Semisubmersible and Point Absorber Wind-Wave System .....	674
<i>Yi-Chieh Huang, Yi-Hsiang Yu</i>	
Integration of a Novel Wave Power Generator Into Vehicle Charging System .....	682
<i>Hadeel Alawur, Njood Alkuhily, Sadil Mutawakkil, Chadia Zayane</i>	
Hydrodynamic Assessment of the CorPower C4 Point Absorber Wave Energy Converter in Extreme Wave Conditions .....	691
<i>Vengatesan Venugopal, Tian Tan</i>	
Case Studies of BEM Solver Accuracy With the Open-Source Code Capytaine .....	700
<i>Matthieu Ancellin, Nhu Nguyen</i>	
Theoretical Modeling Toolbox for Diffraction Problems of Common Shaped Bodies .....	709
<i>Nhu Nguyen</i>	
A Hybrid Deep Learning Approach to Predict Dynamic Mooring Tension of a Wave Energy Converter .....	717
<i>Sheng Xu, Shan Wang, Carlos Guedes Soares</i>	
The Optimization of Nozzle-Diffuser Duct for an Innovative Wave Energy Conversion System .....	729
<i>Shing-nan Wu, Po-hung Yeh, Bang-fuh Chen</i>	
Dynamic Performance of a Land-Based OWC Wave Energy Converter Under Focused Wave Conditions .....	737
<i>Rongquan Wang, Yuxuan Hu, Peiwen Cong, Dezhi Ning</i>	
The Effect of Extra Mass Moment of Inertia on S-Shaped Vertical Axis Autorotation Current Turbine (VAACT) .....	742
<i>Rodrigo B. Soares, Antonio C. Fernandes, Joel S. Sales Junior</i>	
Numerical Investigation on the Effects of Diffuser Inlet Opening Angles on the Performance of a Drag-Based Hydrokinetic Turbine .....	752
<i>Cheng Yee Ng, Nauman Maldar Riyaz, Muk Chen Ong</i>	
Fatigue Analysis of a Diffuser-Augmented Fiber-Composite Tidal Turbine .....	762
<i>Mark Anthony Rotor, Jeff David Genita, Jericho Lance Nacario</i>	
Preliminary Numerical Assessment of Marine Turbines With Rigid Blades Using Low Reynolds Approach .....	774
<i>Ruben J. Paredes, Paul S. Zambrano, Jose R. Marin-Lopez, Hrvoje Jasak</i>	
Hydrodynamic Performance of a Pitching Circular Motion Hydrofoil for Tidal Current Energy Harvest .....	784
<i>Huilan Yao, Boxiao Zhang, Xin Zhou</i>	
Investigation on Flow-Induced Rotation of Coupled Double Cylinders Arranged in Tandem .....	805
<i>Weipeng Feng, Xu Yang, Xiang Yan, Lingfan Li</i>	
Vertical Axis Autorotation Current Turbine (VAACT) Analysis With Power Take-Off System .....	818
<i>Rodrigo B. Soares, Antonio C. Fernandes, Joel S. Sales Junior</i>	
High- and Mid-Fidelity Modeling Comparison for a Floating Marine Turbine System.....	832
<i>Thanh Toan Tran, Hannah Ross, Will Wiley, Lu Wang, Senu Sirnivas</i>	

Hydrokinetic Energy Harnessing Using Two Tandem Cylinders With Large Turbulence Stimulation and Nonlinear Damping in Flow-Induced Oscillations .....	843
<i>Nipit Congpuong, Salman Sadiq, Hai Sun, Michael M. Bernitsas</i>	
Optimization of Offshore FPV Modules in Early Design Phase .....	852
<i>Jingzhe Jin, Liqing Zhang, Zhiliang Lin, Jiehong Kong, Zhen Gao</i>	
Development Review of Open Water Economical Floating Photovoltaic Platform .....	863
<i>Qiang Fu, Wenping Wang, Dejiang Li, Shumin Li, Kuiying Chen, Long Zheng, Chuanwen Wang, Peng Chen</i>	
Energy Fluctuation of Floating Photovoltaic Solar Panel due to Wave-Induced Motions.....	872
<i>Luofeng Huang</i>	
Assessment of the Technical Potential of the Ocean Thermal Energy Conversion in the Brazilian Equatorial Margin.....	879
<i>Daniela Correa, Milad Shadman, Jeferson Almeida, Segen Farid Esteften</i>	
Model Tests of a 12 by 18 Floating Solar Array Under Regular Wave Conditions .....	885
<i>Zhiyu Jiang, Jian Dai, Simone Saettone, Antonio Souto-Iglesias</i>	
Global Response Performance of HDPE Based Offshore Floating Solar Farm by Using Beam-Floater Model .....	891
<i>Frederick Gavin Surjadi, Farid Putra Bakti, Chungkuk Jin, Pandu Kristian Prayoga Simamora</i>	
Analysis of the Linear Hydroelastic Response of Flexible Floating Solar Devices .....	900
<i>Louis Douteau, Florian Castillo, Salabh Gupta, Maria Ikhennicheu, Jean-Christophe Gilloteaux</i>	
Analysis of Nonlinear Hydrodynamic Properties of Shallow-Draft Floating Photovoltaic Structure .....	908
<i>Hangyu Cao, Junfeng Du, Shujie Zhao, Deqing Zhang, Anteng Chang</i>	
Experimental Investigation of Real-Scale Floating Solar Panel Assembly in Wind Tunnel.....	918
<i>Prince Arora, Badri Prasad Patel, Suhail Ahmad, Arvind Kumar Jain, C. S. Joe Joe</i>	
Conceptual Design of a Hybrid Floating Offshore Wind Turbine Integrated With Hydrogen Production and Storage System.....	925
<i>Thanh Dam Pham, Luan Cong Trinh, Van Nguyen Dinh, Paul Leahy</i>	
Offshore Support Structures for Green Hydrogen Systems: Overview and Perspectives .....	934
<i>Claudio A. Rodriguez, Maurizio Collu, Feargal Brennan</i>	
Offshore Wind-To-Hydrogen: the Impact of Intermittency on Hydrogen Production and Transport.....	946
<i>Eoghan Summers, Julia Race, Dimitri Mignard, Mi Tian, Mohammed Alaa Almoghayer</i>	
Wind Turbines and Hydrogen-Based Energy Storage Hub Concept for Offshore Oil and Gas Platforms in the Norwegian Continental Shelf.....	955
<i>Daniela S. Damaceno, Thomas Treider, Harald Svendsen</i>	
Engineering Critical Assessment for Alternative Materials to IGC Code for LCO2 Carriers Type-C Tanks .....	962
<i>Fabien Conti, Jean-Michel Aubert</i>	
Development of Hanwha Ocean Liquefied CO2 Carrier.....	972
<i>In-Jae Jun, Teuk-Jin Koh, Byoung-Chul Kang</i>	

## **Author Index**