

Muntazir Abbas

Defence Faculty  
Pakistan Navy Engineering College  
Email: muntazir.abbas@pnec.nust.edu.pk  
Contact: 2148507249



About

Dr. Muntazir Abbas is working as Defence Faculty in the Pakistan Navy Engineering College. Dr. Muntazir Abbas has a PhD in Corrosion and maintenance. Dr. Muntazir Abbas has published 25 research articles & conference papers having a citation count of 388, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Corrosion and maintenance Cranfield University , United Kingdom	2017 - 2021
MS in MANUFACTRING AND MANAGEMENT NUST, Islamabad , Pakistan	2013 - 2015
BE in MWCHANICAL NUST, Islamabad , Pakistan	2004 - 2008

Experience

Defence Faculty Pakistan Navy Engineering College	2021- Present
CDR PN PAK NAVY , PNS JAUHAR KARACHI	2023 - 2023
PhD CRANFIELD UNIVERSITY , COLLEGE ROAD CRANFIELD BEDFORD MK43 0SU	2017 - 2021

Research Articles

The effect of rudder deflections on hydrodynamic performance of underwater vehicles during dynamic maneuver Imran Khan Adil Loya Sajjad Haider Zaidi Asif Khan Muntazir Abbas Journal of Engineering and Applied Science, Volume:72, Issue:1, Article Number: 65 Impact Factor: N/A   Quartile: 2 DOI: doi.org/10.1186/s44147-025-00626-8	2025
Investigating Corrosion Behavior of a Ship Structural Steel (S-275) under Different Artificial Seawater Compositions and Characterization of Rust Deposits Muntazir Abbas Qamar Abbas Syed Haider Mehdi Rizvi Journal of Materials Engineering and Performance, Pages 1-15 Impact Factor: 2.200   Quartile: 3 DOI: https://doi.org/10.1007/s11665-025-11131-7	2025
Performance of a Ship-Based Cupronickel Alloy in Exposure Conditions of Arabian Seawater—A Comparative Study Syed Ali Sarfraz Muntazir Abbas Nasir Mahmood Ahmad Materials , Volume 17(16), Article Number 3940 Impact Factor: 3.100   Quartile: 1   Citations: 1 DOI: 10.3390/ma17163940	2024
Analysis of the Surface Quality and Temperature in Grinding of Acrylic-Based Resin Syed Mustafa Haider Abbas Hussain Muntazir Abbas Shaheryar Atta Khan Shoaib Sarfraz Journal of Manufacturing and Materials Processing, Volume 8(4), Article Number 139 Impact Factor: 3.300   Quartile: 1   Citations: 2 DOI: https://doi.org/10.3390/jmmp8040139	2024

<b>Evaluation of the influence of dissolved nitrates on corrosion behaviour of ship structural steel exposed to seawater environment</b> <i>Muntazir Abbas Syed Haider Mehdi Rizvi Shoaib Sarfraz Asif Raza Asif Khan Adil Loya Antash Najib</i> <i>Ocean Engineering</i> , Volume 298, Article Number 117268 <b>Impact Factor: 5.0   Quartile: 1   Citations: 4</b> <b>DOI: 10.1016/j.oceaneng.2024.117268</b>	2024
<b>LSTM-Based Autoencoder with Maximal Overlap Discrete Wavelet Transforms Using Lamb Wave for Anomaly Detection in Composites</b> <i>Syed Haider Mehdi Rizvi Muntazir Abbas Syed Sajjad Haider Zaidi Syed Muhammad Tayyab Adil Malik</i> <i>Applied Sciences</i> , Volume: 14, Issue: 7, Article Number:2925 <b>Impact Factor: 2.7   Quartile: 2   Citations: 5</b> <b>DOI: 10.3390/app14072925</b>	2024
<b>A new approach for quantification of corrosion losses on steels exposed to an artificial seawater environment</b> <i>Muntazir Abbas Nigel Simms Syed Haider Mehdi Rizvi</i> <i>Corrosion Engineering, Science and Technology</i> , Pages 1-9 <b>Impact Factor: 1.971   Quartile: 2</b> <b>DOI: 10.1080/1478422X.2023.2185987</b>	2023
<b>Lamb wave damage severity estimation using ensemble-based machine learning method with separate model network</b> <i>Syed Haider Mehdi Rizvi Muntazir Abbas</i> <i>Smart Materials and Structures</i> , Volume 30, Number 11, Article Number 115016 <b>Impact Factor: 3.585   Quartile: 1   Citations: 8</b> <b>DOI: <a href="https://doi.org/10.1088/1361-665X/ac2e1a">https://doi.org/10.1088/1361-665X/ac2e1a</a></b>	2021
<b>An advanced Wigner–Ville time–frequency analysis of Lamb wave signals based upon an autoregressive model for efficient damage inspection</b> <i>Syed Haider Mehdi Rizvi Muntazir Abbas</i> <i>Measurement Science and Technology</i> , Volume 32, Number 9, Article Number 095601 <b>Impact Factor: 2.046   Quartile: 3   Citations: 14</b> <b>DOI: <a href="https://doi.org/10.1088/1361-6501/abef3c">https://doi.org/10.1088/1361-6501/abef3c</a></b>	2021
<b>A dimensional metrology-based approach for corrosion measurement of ship grade steels exposed to various marine environmental conditions</b> <i>Muntazir Abbas Nigel Simms Liyun Lao Owais A. Malik A. U. Syed Syed Ali Sarfraz Luqman Ashraf Syed Haider M. Rizvi</i> <i>Corrosion Engineering, Science and Technology</i> , Volume 56, Issue 5, Pages 448-460 <b>Impact Factor: 2.087   Quartile: 2   Citations: 7</b> <b>DOI: <a href="https://doi.org/10.1080/1478422X.2021.1904096">https://doi.org/10.1080/1478422X.2021.1904096</a></b>	2021
<b>An overview of maintenance management strategies for corroded steel structures in extreme marine environments</b> <i>Muntazir Abbas Mahmood Shafiee</i> <i>Marine Structures</i> , Volume 71, Article Number 102718 <b>Impact Factor: 3.458   Quartile: 1   Citations: 177</b> <b>DOI: <a href="https://doi.org/10.1016/j.marstruc.2020.102718">https://doi.org/10.1016/j.marstruc.2020.102718</a></b>	2020
<b>Structural Health Monitoring (SHM) and Determination of Surface Defects in Large Metallic Structures using Ultrasonic Guided Waves</b> <i>Muntazir Abbas Mahmood Shafiee</i> <i>Sensors</i> , Volume 18(11), Article Number 3958 <b>Impact Factor: 3.031   Quartile: 1   Citations: 148</b> <b>DOI: 10.3390/s18113958</b>	2018
<b>Effect Of T6 Heat Treatment on Mechanical Properties Of Ceramic Reinforced Casted Aluminum Alloy</b> <i>Muntazir Abbas Salman Nisar Faisal Imtiaz Syed Aqueel shah</i> <i>Iranian Journal of Materials Science and Engineering</i> , Volume 12(2), Pages 18-25 <b>Impact Factor: N/A</b> <b>DOI: 10.22068/ijmse.12.2.18</b>	2015

- Future of Sustainable and Green Energy Technologies in Shipping Sector – An Overview** 2025  
*Muntazir Abbas Zia Shahid Mehdi Zeeshan Riaz Sara Asif Raza Qamar Abbas Urfa Rasool M Yasir Syed Mustafa Haider*  
*14th International Mechanical Engineering Conference (IMEC-2025)*, res.country(177,)  
**Citations:** N/A  
**DOI:** <https://imec.neduet.edu.pk/>
- Enhancing electrical conductivity of Cellulose Acetate microfibers through Copper electroplating** 2025  
*Warda Khalid Ghadai Syed Waqar Hasan Zeeshan Riaz Syed Mustafa Haider Muntazir Abbas*  
*14th International Mechanical Engineering Conference (IMEC-2025)*, res.country(177,)  
**Citations:** N/A  
**DOI:** Nil
- Analysis of Vertical Axis Wind Turbine Utilizing Dissimilar Airfoil Blade Combination** 2024  
*Asif Khan Adil Loya Fahad Aziz Muntazir Abbas Babar Hayat Muhammad Zia Ullah Khan Emad Uddin Muhammad Asfandiyar Arshad Imran*  
*First International Conference on Advances in Mechanical, Materials, Mechatronics, and Energy Engineering (ICAME-24)*, res.country(177,)  
**Citations:** N/A  
**DOI:** <https://web.uettaxila.edu.pk/icame2024>
- Corrosion Resistance of Cupronickel Material exposed to Marine Environment of North Indian Ocean** 2023  
*Syed Ali Sarfraz Shah MUNTAZIR ABBAS Zeeshan Riaz Nasir Mahmood Ahmad3 Syed Haider Mehdi Rizvi*  
*20th IBCAST 2023*, res.country(177,)  
**Citations:** N/A  
**DOI:** [doi.org/10.3390/xxxxx](https://doi.org/10.3390/xxxxx)
- Concept Design of Low Emission Fuel Cell based Ship Propulsion System for Maritime Defence Export Industry** 2022  
*Asif Raza Muntazir Abbas Wayne Coote M Magzoub P Brown Asif Khan*  
*13th International Conference on Hydrogen & Production (ICH2P-22)*, res.country(177,)  
**Citations:** N/A  
**DOI:** Nil
- Material Reliability in Hydrogen Storage Applications and Transportation- A Review** 2022  
*Farhan Ashraf Muntazir Abbas Sarhan Al Shammari Akeem Y. Adesina*  
*13th International Conference on Hydrogen Production (ICH2P-2022)*, res.country(177,)  
**Citations:** N/A  
**DOI:** Nil
- Performance evaluation of Cu-Ni 90/10 alloyed structures exposed to various Seawater Compositions and their Remaining Service Life Estimation** 2022  
*Syed Ali Sarfraz Muntazir Abbas Shoaib Sarfraz Farhan Ashraf*  
*11th International Conference on Through life Engineering Services (TESConf 2022)*, res.country(231,)  
**Citations:** N/A  
**DOI:** [dspace.lib.cranfield.ac.uk/handle/1826/18670](https://dspace.lib.cranfield.ac.uk/handle/1826/18670)
- Environmental impact on the corrosion behavior of marine grade steel in the Arabian Sea conditions - a comparative analysis of field and laboratory based corrosion tests** 2021  
*Muntazir Abbas Nigel Simms Liyun Lao Owais A. Malik Luqman Ashraf*  
*International Congress of Materials and Metallurgy (IMMC)*, res.country(224,)  
**Citations:** N/A  
**DOI:** Nil
- Evaluation of the effects of highly saline and warm seawaters on corrosivity of marine assets** 2019  
*Muntazir Abbas Nigel Simms Ali Sarfraz Syed Owais A. Malik Joy Sumner*  
*EUROCORR 2019*, res.country(68,)  
**Citations:** N/A  
**DOI:** Nil
- Corrosion Behaviour of Cupronickel 90/10 Alloys in Arabian Sea Conditions and its Effect on Maintenance of Marine Structures** 2019  
*Muntazir Abbas Mahmood Shafiee Nigel Simms*  
*ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering OMAE 2019*, res.country(231,)  
**Citations:** N/A  
**DOI:** [10.1115/OMAE2019-96227](https://doi.org/10.1115/OMAE2019-96227)

Book Chapters

<b>Energy management in marine transportation sector</b>	2025
<i>Muntazir Abbas Qamar Abbas Asif Khan Syed Muhammad Tayyab Syed Haider Mehdi Rizvi Asif Raza Sajjad Haider Zaidi Asghar Abbas Razzaqi Sumaira Haider Syed Ali Sarfraz</i>	
In: <i>Reference Module in Earth Systems and Environmental Sciences</i> , Pages 1-34	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1016/b978-0-44-313219-3.00151-9	

Editorial Activities

<b>Ocean Engineering</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 4.6	
<b>Ocean Engineering</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 4.6	
<b>Thin-Walled Structures</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 5.7	
<b>Results in Engineering</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 6.0	
<b>Ocean Engineering</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 4.6	