

Adil Loya

Associate Professor

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About

Dr. Adil Loya is working as Associate Professor in the Pakistan Navy Engineering College. Dr. Adil Loya has a PhD in Mechanical Engineering. Dr. Adil Loya has published 23 research articles & conference papers having a citation count of 171, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mechanical Engineering	2012 - 2015
University of Hertfordshire , United Kingdom	
BE in Aerospace Engineering	2008 - 2011
University of Hertfordshire , United Kingdom	

Experience

Associate Professor	2024- Present
Pakistan Navy Engineering College	
Assistant Professor	2021 - 2024
Pakistan Navy Engineering College	
Visiting Lecturer/Associate Professor	2021 - 2021
University of Karachi , University of Karachi, Karachi	
Consultant	2018 - 2021
PAF , PAF	
Assistant Professor	2016 - 2021
PAF-KIET , PAF-KIET, Karachi	
Visiting Lecturer	2015 - 2016
COMSATS Institute of Information Technology , COMSATS Institute of Information Technology, Sahiwal	
Visiting Lecturer	2015 - 2015
University of Westminster , University of Westminster, UK	
Visiting Lecturer/Teaching Assistant	2012 - 2015
University of Hertfordshire , University of Hertfordshire, UK	

Research Articles

The effect of rudder deflections on hydrodynamic performance of underwater vehicles during dynamic maneuver	2025
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	
Effect of Rake Angle on DTMB Marine Propeller	2025
Adil Loya Imran Muhammad Suleman Sadiq Wasim Akram	
Sustainable Marine Structures , Volume 7(1), Pages 21-34	
Impact Factor: N/A	
DOI: https://doi.org/10.36956/sms.v7i1.1650	
Evaluation of the influence of dissolved nitrates on corrosion behaviour of ship structural steel exposed to seawater environment	2024
Muntazir Abbas Syed Haider Mehdi Rizvi Shoaib Sarfraz Asif Raza Asif Khan Adil Loya Antash Najib	
Ocean Engineering , Volume 298, Article Number 117268	

Impact Factor: 5.0 Quartile: 1 Citations: 4 DOI: 10.1016/j.oceaneng.2024.117268	
Tuning Structural and Thermal Conductivity of Carbon Nanotubes under Strain Effects <i>Ama tul Zahra Aamir Shahzad Adil Loya Muhammad Kashif Maogang He</i> <i>Chinese Journal of Physics</i> , Volume 86, Pages 24-38 Impact Factor: 5.0 Quartile: 1 Citations: 7 DOI: https://doi.org/10.1016/j.cjph.2023.08.014	2023
To study the effectiveness of stern appendages (Cruciform & X Shaped configurations) for maneuverability of autonomous underwater vessel using computational fluid dynamics <i>Arif Hussain Adil Loya Zeeshan Riaz Saeed Akram Malik</i> <i>Ocean Engineering</i> , Volume:272, Article Number: 113858 Impact Factor: 4.372 Quartile: 1 Citations: 6 DOI: 10.1016/j.oceaneng.2023.113858	2023
Propagation characteristics of longitudinal modes in dusty plasmas <i>Aamir Shahzad Amjad Sohail Alina Mazoor Muhammad Ikram Adil Loya Amam ur Rehman Muhammad Asif Shakoori</i> <i>Physics of Plasmas</i> , Volume 30, Article Number 013702 Impact Factor: 2.357 Quartile: 3 Citations: 5 DOI: https://doi.org/10.1063/5.0118986	2023
Molecular dynamics simulation on surface modification of quantum scaled CuO nano-clusters to support their experimental studies <i>Adil Loya Jacqueline L Stairr Farid Uddin Guogang Ren</i> <i>Scientific Reports</i> , Scientific Reports Impact Factor: 4.996 Quartile: 2 Citations: 5 DOI: 10.1038/s41598-022-16751-w	2022
Comparative molecular dynamics simulations of thermal conductivities of aqueous and hydrocarbon nanofluids <i>Adil Loya Antash Najib Fahad Aziz Asif Khan Guogang Ren Kun Luo</i> <i>Beilstein Journal of Nanotechnology</i> , Volume 13, Pages 620-628 Impact Factor: 3.272 Quartile: 2 Citations: 7 DOI: https://doi.org/10.3762/bjnano.13.54	2022
Protecting lithium anode with ionic liquid modified poly(vinylidene fluoride) single ion conducting separators for iodide-assisted lithium oxygen batteries <i>Wenxiang Chen Zhihong Luo Xiangqun Zhuge Xiangqun Zhuge Yurong Ren Adil Loya Yibing Li Kun Luo</i> <i>Journal of Energy Storage</i> , Volume 50, Article Number 104580 Impact Factor: 6.583 Quartile: 1 Citations: 14 DOI: 10.1016/j.est.2022.104580	2022
Roadside Vertical Axis Wind Turbine (VAWT): An Effective Evolutionary Design for Australian Highway Commuters with Minimum Dynamic Stall <i>Assies Ahmed Adil Loya Muhammad Ali Ammar Iqbal Faiq Masood Baig Abdul Manan Afzal</i> <i>Journal of Engineering</i> , Volume 12, No. 2, Pages 601-616 Impact Factor: N/A DOI: 10.4236/eng.2020.129042	2020
Dependency of Torque on Aerofoilcamber Variation in Vertical Axis Wind Turbine <i>Adil Loya Muhammad Zia ullah Khan Rumeel Ahmed Bhutta Muhammad Saeed</i> <i>World Journal of Mechanics</i> , Volume 6, Pages 472-486 Impact Factor: N/A DOI: https://doi.org/10.4236/wjm.2016.611033	2016
Molecular dynamics simulation study of rheological properties of CuO–water nanofluid <i>Adil Loya Guogang Ren</i> <i>Journal of Materials Science</i> , Volume 50, Issue 11, Pages 4075-4082 Impact Factor: 2.302 Quartile: 2 Citations: 26 DOI: https://doi.org/10.1007/s10853-015-8963-7	2015
Determination of Cu²⁺ ions release rate from antimicrobial copper bearing stainless steel by joint analysis using ICP-OES and XPS <i>Ling Ren Jason Chong Adil Loya Q Kang Jacqueline L Stair L Nan Guogang Ren</i> <i>Materials Technology</i> , Volume 30, Issue B2, Pages B86-B89	2015

Impact Factor: 3.861 | **Quartile:** 3 | **Citations:** 36
DOI: <https://doi.org/10.1179/1753555714Y.0000000264>

Simulation and experimental study of rheological properties of CeO₂–water nanofluid

2015

Adil Loya Jacqueline L. Stair Guogang Ren
International Nano Letters , Volume 5, Pages 1-7

Impact Factor: N/A
DOI: <https://doi.org/10.1007/s40089-014-0129-0>

A molecular dynamic investigation of viscosity and diffusion coefficient of nanoclusters in hydrocarbon fluids

2015

Adil Loya Jacqueline L. Stair Ali R. Jafri Ke Yang Guogang Ren
Computational Materials Science , Volume 99, Pages 242-246

Impact Factor: 2.086 | **Quartile:** 2 | **Citations:** 35
DOI: <https://doi.org/10.1016/j.commatsci.2014.11.051>

The Study of Simulating Metaloxide Nanoparticles in Aqueous Fluid

2014

Adil Loya Jacqueline L. Stair Guogang Ren
International Journal of Engineering Research and Technology, Volume 3 Issue 4, Pages 1954-1960

Impact Factor: N/A
DOI: <https://doi.org/10.17577/IJERTV3IS041718>

The preparation and tribological properties of surface modified zinc borate ultrafine powder as a lubricant additive in liquid paraffin

2014

Chunli Zhao Yong K. Chen Yang Jiao Adil Loya Guogang Ren
Tribology International , Volume 70, Pages 155-164

Impact Factor: 1.936 | **Quartile:** 1 | **Citations:** 26
DOI: <https://doi.org/10.1016/j.triboint.2013.10.007>

Conference Proceedings

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>

Real Time Data Communication with FlightGear Using Simulink over a UDP Protocol

2022

Adil Loya Ali Haider Arslan Ghaffor Abubaker Siddique
Advances in Aerospace Engineering, February 2022, res.country(68,)

Citations: N/A
DOI: <https://publications.waset.org/10012399/pdf>

Book Chapters

Development of the Flight Dynamic Model (FDM) Using Computational Fluid Dynamic (CFD)

2020

Simulations for an Unknown Aircraft

Adil Loya Muhammad Shoaib Arif Muhammad Arsalan Siraj Anis Arsalan Khan Muhammad Saad Saeed Abdul Hameed Siddiqui
In: *Computational Fluid Dynamics* , Pages 1-21

Citations: N/A
DOI: [10.5772/intechopen.91895](https://doi.org/10.5772/intechopen.91895)

Problems Faced While Simulating Nanofluids

2017

Adil Loya
In: *Book on Nanofluid Heat and Mass Transfer in Engineering Problems*, Chapter 5, Pages 99-117

Citations: N/A
DOI: [10.5772/66495](https://doi.org/10.5772/66495)