

Publications of Dr D RAJASEKHAR

JOURNALS

1. **D. Rajasekhar, et. al, "Reliability Assessment and System Performance Improvement on Propulsion System of Oceanographic Research Vessel Sagar Nidhi",** Current Science, Vol-118, No.11, 10th June 2020, Pages 1782-1785.
2. **D. Rajasekhar, et. al, "Ammonia-A Transitional Fuel for Decarbonizing Shipping",** Marine Engineers Review [India], *Journal of the Institute of Marine Engineers [India]*, Vol-14, Issue-11, pages 09-14, October 2020.
3. **D. Rajasekhar, et. al, "Strategic Green Ship Management of Research Ships",** Marine Engineers Review [India], *Journal of the Institute of Marine Engineers [India]*, Vol-9, pages 09-22, May 2020.
4. **D. Rajasekhar, et. al, "Minimizing Shipborne Emissions along the Indian Coast",** *International Journal of Geography and You*, Vol.19, Issue 13, Jan 1-15, 2019, No.124, Pages 20-25.
5. **D. Rajasekhar, et. al, "Fuel Cell Technology for Propulsion and Power Generation of Ships: Feasibility Study on Ocean Research Vessel Sagarnidhi",** *Journal of Shipping and Ocean Engineering*, Vol. 5, No. 5, 2015, 219-228.
6. **D. Rajasekhar, et. al, "An Analysis on Various Ballast Water Treatment Techniques for ORV Sagar Nidhi",** *Indian Journal of Geo-Marine Sciences*, Vol. 43, No. 11, 2014.
7. **D. Rajasekhar, et. al, "A Finite Element Approach to Renew underwater shell plate of a dumb barge sans dry docking: an innovative and cost effective model",** *Journal of Ships & Offshore Structure*, Vol.7, No. 2, 2012, 215-222.
8. **D. Rajasekhar, et. al, "Alternate Fuels for Emission Reduction: Internal Combustion Engines",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.
9. **D. Rajasekhar, et. al, "Analysis of Static Stability for Ship in Different Condition",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.
10. **D. Rajasekhar, et. al, "An Analysis of Longitudinal Stability of Ships",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.
11. **D. Rajasekhar, et. al, "Design and Fabrication of Spring Rolling Machines",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.
12. **D. Rajasekhar, et. al, "Fabrication of 360 Degree Automatic Machine Gun Rover for Advanced Defence",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.
13. **D. Rajasekhar, et. al, "Mooring Analysis of pipelaying Barge & Fuel consumption",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.
14. **D. Rajasekhar, et. al, "Oil Water Separator System Based Filters for Marine Applications - Emission Reduction",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.
15. **D. Rajasekhar, et. al, "Seawater Surveillance Robot",** Published in Scopus Publications, *International Medico-legal Engineering Journal*, January 2018. SCOPUS & UGC.

16. **D. Rajasekhar, et. al, "Comparative Analysis of Ship Board Emission Based on Automatic Identification System (AIS) Data", *International Journal of Research In Electronics and Computer Engineering*, Vol. 5, Issue 4, 2017, Pages 124-131.**
17. **D. Rajasekhar, et. al, "Seakeeping Analysis of an Indian Research Vessel", *The IUP Journal of Mechanical Engineering*, Vol. X, No. 2, 2017, Pages 7-25.**
18. **D. Rajasekhar, et. al, "Development of Methodology for Managing Effects of Marine Corrosion using FE Approach", *International Journal of Engineering Science and Innovative Technology*, Vol. 5, No. 1, 2016, 113-123.**
19. **D. Rajasekhar, et. al, "Green Ship Management: Competence of Research Ships" *International Journal of Innovative Research in Engineering and Management*, Vol.3, No. 4, 2016, 299-306.**
20. **D. Rajasekhar, et. al, "An Analysis on Emissions from Ocean Going Vessel: Effective and Efficient Methods to Reduce Ship Emission", *International Journal of Scientific & Engineering Research*, Vol. 7, Issue 9, 2016, Pages 333-340.**
21. **D. Rajasekhar, et. al, "Validation of Satellite Based Observations of Ship Emissions -Coromandel Coast of INDIA", *International Journal of Scientific & Engineering Research*, Vol. 7, Issue 8, 2016, Pages 585-591.**

ARTICLES

1. **D. Rajasekhar, et. al, "Designing Polar Research Vessels", *Geography and You*, Vol.18, issue 4, No.115, August 2018, 21-26.**
2. **D. Rajasekhar, "Rescue on the High Seas", *Science Reporter*, Vol. 52, No. 11, November 2015, 34-37.**
3. **D. Rajasekhar, et. al, "Indian Research Ships Features and Future", *Science Reporter*, Vol. 51, No. 8, August 2014, 32-37.**
4. **D. Rajasekhar, et. al, "Sagar Nidhi: Braving The Antarctica Waters", *Science Reporter*, Vol.47, No. 11, November 2010, 30-32.**

BOOK CHAPTERS

1. **D. Rajasekhar, et. al, a chapter titled "An analysis of emission levels along coastal waters of India-pre & post COVID-19 Lockdown phase" for an e-book on "2020 Lock Down Effects and Future Trends in Water Body Management", published by Lambert Academic Publishing, Germany, October, 2020.**

CONFERENCES

1. **D Rajasekhar, et. al, "Study of Efficiency, Performance and Reliability of ORV Sagar Nidhi using Genetic Algorithm", in *International Conference on Coastal and Inland Water Systems, CIS 2019*, 16th& 17th December 2019, Pages 44.**
2. **D Rajasekhar, et. al, "Nano fuel additives: An innovative Technology for Ship Emission Reduction", in *International Conference on Coastal and Inland Water Systems, CIS 2019*, 16th& 17th December 2019, Pages 43.**
3. **D Rajasekhar, et. al, "Innovative Engineering Solution for Reducing NOx/SOx Emission from Ships - Non Thermal Plasma Technique", in *Global Maritime Seminar GLOMARS-2019*, 16th& 17th Aug 2019, Pages 104-109.**
4. **D Rajasekhar, et. al, "Design of Polar Research Vessel – Challenges", in *Global Maritime Seminar GLOMARS-2019*, 16th& 17th Aug 2019, Pages 76-80.**

5. **D. Rajasekhar, et. al, "Failure Analysis and Reliability Assessment of Ship's Dynamic Positioning System", *International Conference on Recent Advances in Mechanical Engineering-INCROME 2011*,heldat Dr. M.G.R Educational and Research Institute University, Chennai, on 21-23 April, 2011.**
6. **D. Rajasekhar, et. al, "Performance Evaluation and Reliability Study of Dynamic Positioning System of ORV Sagar Nidhi",*National Conference on Emerging Technologies in Mechanical Engineering-ETME'11*,at PET Engineering College Vallioor, Tamil Nadu on 24-25 March, 2011.**
7. **D. Rajasekhar, et. al, "A Study of Reliability and Safety on Dynamic Positioning System of ORV Sagar Nidhi",*National Conference of Ocean Society of India (OSICON 11)*, at NIOT, Chennai on 22-24 June 2011.**
8. **D. Rajasekhar, et. al,"Synthesis and characterization of CNT (Carbon NanoTube) based nanosensors for Marine applications", *National conference on Trends in Renewable Energy Sources, Applications and Climate change-TRESAC 2010*, at Sathyabhama University Chennai on 23-25 July, 2010.**