



2301-9069 (e)
1829-8370 (p)

Kapal: Jurnal Ilmu Pengetahuan dan Teknologi Kelautan (Kapal: Journal of Marine Science and Technology)

journal homepage : <http://ejournal.undip.ac.id/index.php/kapal>

Editorial Team

Editor in Chief

- **Andi Trimulyono, ST., MT., Ph.D** (ScopusID: [57200045412](#))
Department of Naval Architecture, Diponegoro University, Indonesia

Associate Editors

- **Muhammad Iqbal, ST., MT** (ScopusID: [56739963100](#))
Department of Naval Architecture, Diponegoro University, Indonesia
- **Dr. Eng. Samuel, ST, MT** (ScopusID: [56741121300](#))
Department of Naval Architecture, Diponegoro University, Indonesia

Editorial Boards

- **Prof. Dr. Ir I Ketut Aria Pria Utama** (ScopusID: [39661404700](#))
Department of Naval Architecture, Faculty of Marine Technology, Sepuluh Nopember Institute of Technology, Indonesia, Indonesia
- **Prof. Dr. Ir Eko Budi Djatmiko** (ScopusID: [6504287354](#))
Department of Ocean Engineering, Faculty of Marine Technology, Sepuluh Nopember Institute of Technology, Indonesia
- **Prof. Dr. Ir Sunaryo Sunaryo** (ScopusID: [55362517600](#))
Naval Architecture and Marine Engineering Study Program, University of Indonesia, Indonesia
- **Assoc. Prof. Dr Jung-Min Sohn** (ScopusID: [57204241794](#))
Department of Naval Architecture & Marine Systems Engineering, Pukyong National University, South Korea
- **Dr. Tahsin Tezdogan** (ScopusID: [56046196100](#))
Department of Naval Architecture Ocean and Marine Engineering, Faculty of Engineering, University of Strathclyde, United Kingdom
- **Assoc. Prof. Dr Zobair Ibn Awal** (ScopusID: [15057614200](#))
Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology (BUET), Bangladesh
- **Assoc. Prof. Dr Ngo Van He** (ScopusID: [55850920700](#))
Department of Fluid Mechanics and Ship Engineering, Hanoi University of Science and Technology, Viet Nam
- **Dr. Ahmad Fitriadhy** (ScopusID: [36559082600](#))
Program of Naval Architecture, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu (UMT), Malaysia
- **Dr. Abdillah Suyuthi** (ScopusID: [35367225200](#))
Senior Data Scientist DNV GL Digital Solutions Norway, Norway
- **Dr. Kurniawan Teguh Waskito** (ScopusID: [56517004200](#))
Post-doctoral Fellow at Faculty of Maritime Sciences, Kobe University, Japan
- **Dr. Min Han Htet** (ScopusID: [56188606000](#))
Department of Marine Engineering, Myanmar Maritime University, Myanmar
- **Dr. Eng. Ardhana Wicaksono** (ScopusID: [57197831808](#))

Intelligent Processing Laboratory, Research and Innovation Center, Furuno Electric Co., Ltd., Japan

- **Dr. Eng. Aditya Rio Prabowo** (ScopusID: [57189896735](#))
Department of Mechanical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia
- **Dr. Eng. Ahmad Fauzan Zakki** (ScopusID: [56912379300](#))
Department of Naval Architecture, Faculty of Engineering, Diponegoro University, Indonesia, Indonesia
- **Dr. Eng. Muhammad Arif Budiyanto** (ScopusID: [57197818048](#))
Naval Architecture and Marine Engineering Study Program, Department of Mechanical Engineering, Faculty of Engineering, University of Indonesia, Indonesia
- **Muhammad Zubair Muis Alie, ST, MT, Ph.D-Eng** (ScopusID: [56912289300](#))
Department of Ocean Engineering, Engineering Faculty, Universitas Hasanuddin, Indonesia
- **Dr. Eng. Fredhi Agung Prasetyo** (ScopusID: [57204528440](#))
Division of Research and Development, Biro Klasifikasi Indonesia (BKI), Indonesia
- **Dr. Daeng Paroka** (ScopusID: [14030511600](#))
Department of Ocean Engineering, Faculty of Engineering, Hasanuddin University, Indonesia
- **Dr. Teguh Muttaqie** (ScopusID: [57200943067](#))
Agency for the Assessment and Application of Technology, Center of Technology for Defense and Security Industries (PTIPK- BPPT), Indonesia
- **Dr. Richard Benny Luhulima** (ScopusID: [55957005500](#))
Department of Naval Architecture, Universitas Pattimura, Jl. Ir. M. Putuhena, Poka, Tlk. Ambon, Kota Ambon, Maluku, Indonesia
- **Dr. Eng. Deddy Chrismianto** (ScopusID: [56805265800](#))
Department of Naval Architecture, Faculty of Engineering, Diponegoro University, Indonesia., Indonesia



2301-9069 (e)
1829-8370 (p)

Kapal: Jurnal Ilmu Pengetahuan dan Teknologi Kelautan (Kapal: Journal of Marine Science and Technology)

journal homepage : <http://ejournal.undip.ac.id/index.php/kapal>

Reviewers

- **Prof. Ir. I Ketut Aria Pria Utama, M.Sc, Ph. D** (ScopusID: [39661404700](#))
Department of Naval Architecture, Institute of Technology Sepuluh Nopember, Indonesia
- **Prof. Dr. Eng. Ir. Yanuar Yanuar, M. Eng, M. Sc** (ScopusID: [7409932677](#))
Department of Naval Architecture, University of Indonesia, Indonesia
- **Prof. Ir. Eko Budi Djatmiko., M. Sc., Ph. D** (ScopusID: [6504287354](#))
Department of Ocean Engineering, Institute of Technology Sepuluh Nopember, Indonesia
- **Dr. Eng. Ahmad Fauzan Zakki** (ScopusID: [56912379300](#))
Department of Naval Architecture, Diponegoro University, Indonesia
- **Dr. Eng. Muhammad Arif Budiyanto** (ScopusID: [57197818048](#))
Department of Naval Architecture, University of Indonesia, Indonesia
- **Haryanti Rivai, ST, MT, Ph. D** (ScopusID: [57191347192](#))
Department of Marine System Engineering, Hasanuddin University, Indonesia
- **Dr. Eng. Trika Pitana, ST, M. Sc** (ScopusID: [25960878200](#))
Department of Marine System Engineering, Institute of Technology Sepuluh Nopember, Indonesia
- **Daeng Paroka, ST, MT, Ph. D** (ScopusID: [14030511600](#))
Department of Ocean Engineering, Hasanuddin University, Indonesia
- **Dr. Eng. Achmad Yasir Baeda, ST, MT** (ScopusID: [56829603000](#))
Department of Ocean Engineering, Hasanuddin University, Indonesia
- **Muhammad Zubair Muis Alie, ST, MT, Ph.D-Eng** (ScopusID: [56912289300](#))
Department of Ocean Engineering, Hasanuddin University, Indonesia
- **Dr. Eng. Rudi Walujo Prastianto, ST, MT** (ScopusID: [23013023500](#))
Department of Ocean Engineering, Institute of Technology Sepuluh Nopember, Indonesia
- **Dr. Eng. Fredhi Agung Prasetyo** (ScopusID: [57204528440](#))
Reserach and Development Division, Biro Klasifikasi Indonesia (BKI), Indonesia
- **Dr. Eng. Mochammad Zaky** (ScopusID: [57193668591](#))
Reserach and Development Division, Biro Klasifikasi Indonesia (BKI), Indonesia
- **Wanginiastuti Mutmainnah, Ph. D** (ScopusID: [57204093114](#))
Reserach and Development Division, Biro Klasifikasi Indonesia (BKI), Indonesia
- **Dr. Eng. Raditya Hendra Pratama** (ScopusID: [57189701665](#))
National Institute of Advanced Industrial Science and Technology (AIST), Japan
- **Dr. Eng. Aditya Rio Prabowo** (ScopusID: [57189896735](#))
Department of Mechanical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia
- **Baharuddin Ali, ST., M.Eng** (ScopusID: [57206207411](#))
Balai Teknologi Hidrodinamika - BPPT, Surabaya, Indonesia
- **Imam Baihaqi** (ScopusID: [57205757028](#))
Department of Naval Architecture, Institut Teknologi Sepuluh Nopember, Indonesia

- **Dr. Eng. Lukmanul Hakim Arma** (ScopusID: [56344837400](#))
Department of Mechanical Engineering, Faculty of Engineering, Hasanuddin University, Indonesia
- **Dr. Eng. I Putu Sindhu Asmara** (ScopusID: [55941398900](#))
Surabaya Shipbuilding State Polytechnic, Indonesia
- **Dr. Eng. Gerry Liston Putra** (ScopusID: [55898756300](#))
Department of Mechanical Engineering, Faculty of Engineering, University of Indonesia, Indonesia

2301-9069 (e)
1829-8370 (p)**Kapal: Jurnal Ilmu Pengetahuan dan Teknologi Kelautan**
(Kapal: Journal of Marine Science and Technology)journal homepage : <http://ejournal.undip.ac.id/index.php/kapal>**Table of Content**

CFD Analysis into the Resistance of Trimaran with Longitudinal Sidehull Adjustment Richard Benny Luhulima, Sutiyo Sutiyo, I Ketut Aria Pria Utama	(119-127)
Hull Number Effect in Ship Using Conveyor on Ocean Waste Collection Erik Sugianto, Arif Winarno, Ratna Indriyani, Jeng Horng Chen	(128-139)
Design and Modelling of Catamaran Flat Plate Ship with Bottom Glass Concept to Improve Tourism Underwater in Bangsring Banyuwangi Ahmad Hidayat, Hery Inprasetyobudi, Yeddid Yonatan Eka Darma	(140-150)
A Bamboo-Hybrid-Slat Laminate of Fishing Boat: Materials Selection, Scantling Calculation and Construction Cost Heri Supomo, Eko Budi Djatmiko, Wikaranosa Supomo, Rizki Dian Permana	(151-159)
Fatigue Analysis of 5000 GT Ferry Ro-Ro' s Car Deck Using Finite Element Method Amalia Ika Wulandari, Nindy Widia Devi Rahmasari, Luh Putri Adnyani, Alamsyah, Rodian Jamal Ikhwan	(160-170)
Longitudinal Strength Analysis Considering the Cargo Load on Very Large Crude Carrier (VLCC) Indah Melati Suci, Ganding Sitepu, Muhammad Zubair Muis Alie	(171-177)