



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. 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



Table of Content

Hydrodynamic forces on submerged floating tube: The effect of curvature radius and depth level	(1-8)
Jamiatul Akmal, Asnawi Lubis, Ahmad Su' udi, Novri Tanti, Nurcahya Nugraha, Zaky Abyan Fahrain, Panji Firmanul Hakim	
CFD Based Analysis of Resistance and Pitch Motion of Novel Flat Plate Panel Hull Vessel	(9-22)
Amiadji Amiadji, Achmad Baidowi, Irfan Syarief Arief, Fitricia Putri Ricinzky	
Numerical Investigation of the Effect of Biodiesel-Biogas Percentage on Performance Characters and Dual Fuel Engine Emissions as Green Technology on Ship	(23-28)
Betty Ariani, Dedy Wahyudi	
Influence of Stress Concentration Factor due to Scallop Form on the Wrang Plate Structure	(29-41)
Riska Arum Dona Kusnadi Putri, Totok Yulianto, Rizky Chandra Ariesta, Mohammad Nurul Misbah	
Analysis of Performance, Emission, Noise and Vibration on Single Cylinder Diesel Engine After Installing Dual Fuel Converter-Kit Based on ECU	(42-49)
Adhi Iswanto, I Made Ariana, Muhammad Syuhri	
Modification of Surface Buoy to Preserve Under Water Habitat in Raja Ampat	(50-57)
Ocid Mursid, Nurul Huda, Haris Nubli	