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- b. Nomor ISSN : 2095-0349
- c. Vol, No., Bln Thn : Volume 7, Issue 1, January 2017, Pages 6-12
- d. Penerbit : Elsevier B.V.
- e. DOI artikel (jika ada) : <https://doi.org/10.1016/j.taml.2016.12.001>
- f. Alamat web jurnal : <https://www.sciencedirect.com/science/article/pii/S2095034916300873>
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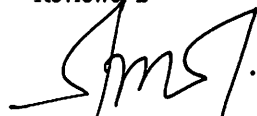
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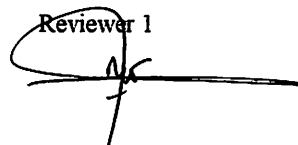
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Reviewer 2



Ojo Kurdi, S.T., M.T., Ph.D
 NIP. 197303171999031001
 Unit Kerja : S1 Teknik Mesin FT UNDIP

Reviewer 1



Dr. Eng. Hartono Yudo, S.T., M.T.
 NIP. 197510211999031004
 Unit Kerja : S1 Teknik Perkapalan FT UNDIP

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- Kelengkapan unsur dan kualitas terbitan:**
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Semarang, 24 Juni 2019

Reviewer 1

Dr.Eng. Hartono Yudo, S.T., M.T.
 NIP. 197510211999031004
 Unit Kerja : S1 Teknik Perkapalan FT UNDIP

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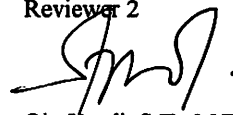
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- Kelengkapan unsur dan kualitas terbitan:**
Jurnal bereputasi cukup bagus dengan terindeks Scopus Q2 dan SJR 0,21. Similarity index Turnitin 9%.

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Reviewer 2



Ojo Kurdi, S.T., M.T., Ph.D

NIP. 197303171999031001

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Volume 7, Issue 1, 1 January 2017, Pages 6-12

Analysis of structural behavior during collision event accounting for bow and side structure interaction (Letter) [Open Access](#)

Prabowo, A.R.^{a,b}, Bae, D.M.^c, Sohn, J.M.^c, Zakki, A.F.^b, Cao, B.^d, Wang, Q.^e

^aInterdisciplinary Program of Marine Convergence Design, Pukyong National University, Busan, 48513, South Korea
^bDepartment of Naval Architecture, Diponegoro University, Tembalang, Semarang, Central Java 50268, Indonesia
^cDepartment of Naval Architecture and Marine Systems Engineering, Pukyong National University, Busan, 48513, South Korea

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Abstract

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The main goal of this study was to investigate the effects of selected ship collision parameter values on the characteristics of the absorbed energy in several ship collision scenarios. Non-linear simulations were performed using a finite element method (FEM) to obtain virtual experiment data. In the present research, the size of the side damage from a collision phenomenon were measured and used to verify the numerical configuration together with the calculation results using an empirical equation. Parameters in the external dynamics of a ship collision such as the location of the contact point and velocity of the striking ship were taken into consideration. The internal energy and deformation size on the side structure were discussed further in a comparative study. The effects of the selected parameters on several structural behaviors, namely energy, force, and damage extent were also observed and evaluated in this section. Stiffener on side hull was found to contribute significantly into resistance capability of the target ship against penetration of the striking bow. Remarkable force during penetration was observed to occur when inner shell was crushed as certain velocity was applied in the striking bow. © 2016 The Author(s)

SciVal Topic Prominence

Topic: Ships | Crashworthiness | Double hull

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Author keywords

Bow-side hull interaction Collision phenomenon Damage extent Finite element analysis Internal energy

ISSN: 20950349
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DOI: 10.1016/j.taml.2016.12.001
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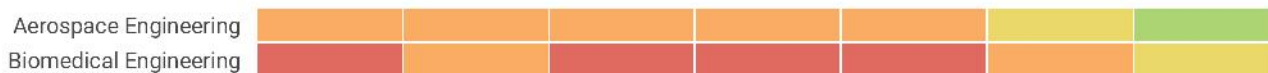
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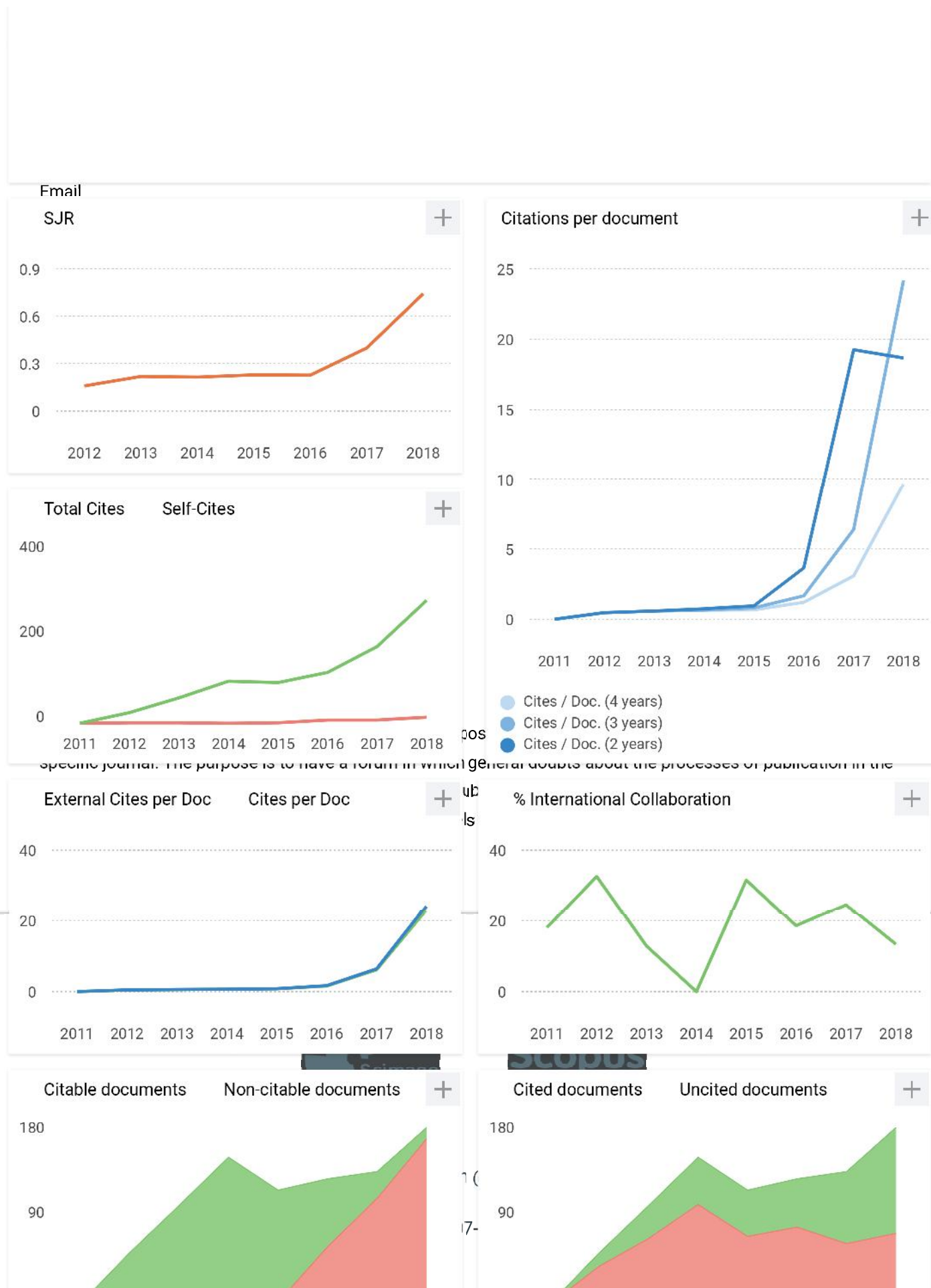
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