

**LEMBAR  
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : The role of fluoxetine on macrophage function in chronic pain (Experimental study in Balb/c mice)

Jumlah Penulis : 3 orang

Status Pengusul : Dwi Pudjonarko (penulis pertama)

Identitas Jurnal Ilmiah : a. Nama Jurnal : International Journal of Science and Engineering (IJSE)

b. Nomor ISSN : 2086-5023

c. Volume nomor bulan tahun : Vol. 9 (1), July 2015

d. Penerbit : Diponegoro University

e. DOI artikel (Jika ada) : <https://doi.org/10.12777/ijse.9.1.27-33>

f. Alamat web Jurnal : <https://ejournal.undip.ac.id/index.php/ijse/article/view/9527/7641>

g. Terindeks di atau di DOAJ, google scholar

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<b>Nilai Total = (100%)</b>		12			9,8.
Nilai Pengusul = 40x0.6= 12					

Catatan Penilaian artikel oleh Reviewer

- Sebagai penulis pertama pada jurnal internasional google scholar, Doaj.

- unsur-unsur lengkap, tetapi di tulis yg panjang, tujuan pd badan artikel

- tidak tegas mengelompokkan, pembahasan di 2 paragraf

- lingkup masalah, pembahasan menggunakan 66 pustaka, kegunaan (52%) > (kata kunci ??).


- metode memadai, beberapa kecacatan/propof tidak ada sitasi.

- hasil & pembahasan dalam satu selanjutnya.

- jarak waktu submission - accepted 2 bulan.

Semarang, .....

Reviewer 1



Prof. Dr. dr. HARDHONO SUSANTO, PAK(K).  
NIP 19550511 198103 1 004

Unit Kerja

\* Dinilai oleh dua Reviewer secara terpisah

\*\*Coret yang tidak perlu

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10,75

**LEMBAR**  
**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH : JURNAL ILMIAH**

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a. Nama Jurnal : Engineering (IJSE)

b. Nomor ISSN : 2086-5023

c. Volume nomor bulan tahun : Vol. 9 (1), July 2015

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c	Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	3,6			3,5
d	Kelengkapan unsur dan kualitas terbitan/ jurnal (30%)	3,6			3,6
Nilai Total = (100%)		12			11,7
Nilai Pengusul = 20x0.6= 12					

Catatan Penilaian artikel oleh Reviewer

a) Abstrak bln terstruktur & baik, lain? ok

b) R. lingkup & kedlm pembahasan cukup baik meski msl di hawa per

c) Data & metodologi jelas

d) Kelengkapan unsur jurnal sesuai

Semarang, .....

Reviewer 2

Prof. Dr. dr. Tri Nur Kristina, DMM, M.Kes.  
 NIP 195905271986032001

Unit Kerja

\* Dinilai oleh dua Reviewer secara terpisah

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Table of contents (/article/003a0c841d10425aa4c90264ab25b7e8)

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International Journal of Science and Engineering (/toc/2086-5023). 2011;2(2) DOI 10.12777/ijse.2.2.iv

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**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/1310>)



APPLICATION OF WELL LOG ANALYSIS IN ASSESSMENT OF PETROPHYSICAL PARAMETERS AND RESERVOIR CHARACTERIZATION OF WELLS IN THE "OTH" FIELD, ANAMBRA BASIN, SOUTHERN NIGERIA (/article/02cddb038a14e99b48319979a7c1bbe)

*Eugene URORO, Efe Lucky IGHARO*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(1):47-53 DOI 10.12777/ijse.8.1.47-53 (<https://doi.org/10.12777/ijse.8.1.47-53>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7675>)

---



Plants Growth Rate in Evapotranspiration continuous system reactors as the 2nd Treatment at Anaerobic-evapotranspiration system with High Strength Ammonium in Leachate Influent (/article/03fef96879294d95b7132c346d35b13b)

*Badrus Zaman, Purwanto Purwanto, Sarwoko Mangkoedihardjo*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(1):48-51 DOI 10.12777/ijse.7.1.48-51 (<https://doi.org/10.12777/ijse.7.1.48-51>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5928>)

---



The Effects of Amofer Palm Oil Waste-based Complete Feed to Blood Profiles and Liver Function on Local Sheep (/article/06ca7483103c4dc2859661aa6b46fe94)

*Hamdi Mayulu, S Sunarso, C. Imam Sutrisno, S Sumarsono*

International Journal of Science and Engineering (/toc/2086-5023). 2012;3(1):17-21 DOI 10.12777/ijse.3.1.17-21 (<https://doi.org/10.12777/ijse.3.1.17-21>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/3008>)

---



A Technical Approach on Large Data Distributed Over a Network (/article/085e45cedd5f424ba339099d4a939d23)

*Suhasini G, Mamtha Billa, Ashwini P*

International Journal of Science and Engineering (/toc/2086-5023). 2011;2(2):34-41 DOI 10.12777/ijse.2.2.34-41 (<https://doi.org/10.12777/ijse.2.2.34-41>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/1264>)

---



Weighted Local Active Pixel Pattern (WLAPP) for Face Recognition in Parallel Computation Environment (/article/0a504d38c60040f7ae87dd1088674e25)

*Gundavarapu Mallikarjuna Rao*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2):41-46 DOI 10.12777/ijse.5.2.41-46 (<https://doi.org/10.12777/ijse.5.2.41-46>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5175>)

---



Characteristics of Red Algae Bioplastics/Latex Blends under Tension (/article/0af905ac4d504f898892e4324c94d76b)

*M. Nizar Machmud, Reza Fahmi, Rohana Abdullah, Coco Kokarkin*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2):81-88 DOI 10.12777/ijse.5.2.81-88 (<https://doi.org/10.12777/ijse.5.2.81-88>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5597>)

---



Influence of Silica/Sulfonated Polyether-Ether Ketone as Polymer Electrolyte Membrane for Hydrogen Fueled Proton Exchange Membrane Fuel Cells (/article/0cc96f425574478cb39e7d249f60dd8f)

*Sri Handayani, Eniya Listiani Dewi Listiani Dewi*

International Journal of Science and Engineering (/toc/2086-5023). 2011;2(2):27-30 DOI

10.12777/ijse.2.2.27-30 (<https://doi.org/10.12777/ijse.2.2.27-30>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/1263>)

---



The influence of Palm Kernel Cake and Rice Bran Fermentation Product Mixture to the Broiler Carcass Quality (/article/0d00165ae45e4c61b68f2be8d44a5cb0)

*Yadi Priabudiman, Yana Sukaryana*

International Journal of Science and Engineering (/toc/2086-5023). 2011;2(1):1-3 DOI

10.12777/ijse.2.1.1-3 (<https://doi.org/10.12777/ijse.2.1.1-3>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/1228>)

---



Parameterization adaption for 3D shape optimization in aerodynamics (/article/0f6342ad2ae04b549d809c43f43ef646)

*Badr Abou El Majd*

International Journal of Science and Engineering (/toc/2086-5023). 2014;6(1):61-69 DOI

10.12777/ijse.6.1.61-69 (<https://doi.org/10.12777/ijse.6.1.61-69>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/6018>)

---



STUDY ADSORPTION DESORPTION OF MANGANESE(II) USING IMPREGNATED CHITIN-CELLULOSE AS ADSORBENT (/article/0fbf726456e24cc78c0d6b217494ed42)

*Aldes Lesbani, Ema Veronika Turnip, Risfidian Mohadi, Nurlisa Hidayati*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(2):104-108 DOI

10.12777/ijse.8.2.104-108 (<https://doi.org/10.12777/ijse.8.2.104-108>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7263>)

---



Evaluation on Biofilter in Recirculating Integrated Multi-Trophic Aquaculture (/article/10b3c93cedc34249956b5140a32927c2)

*S. Sumoharjo, Asfie Maidie*

International Journal of Science and Engineering (/toc/2086-5023). 2013;4(2):80-85 DOI

10.12777/ijse.4.2.80-85 (<https://doi.org/10.12777/ijse.4.2.80-85>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/4593>)

---



INVESTIGATION ON THE EFFECT OF SHAPES ON THE DRYING KINETICS AND SENSORY EVALUATION STUDY OF DRIED JACKFRUIT (/article/10fee32ed410448eaf2ef93d42b10cca)

*Pek Li Gan, Phaik Eong Poh*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(2):193-198 DOI

10.12777/ijse.7.2.193-198 (<https://doi.org/10.12777/ijse.7.2.193-198>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7372>)

---



Optimation Budgeting DistributionModel for Maintaining Irrigation Scheme (/article/11745f69faff4250bd0c1c7c3e1d92fa)

*Sutarto Edhisono, Iwan K. Hadihardaja, Suripin Suripin*

International Journal of Science and Engineering (/toc/2086-5023). 2016;10(1):35-44 DOI

10.12777/ijse.10.1.35-44 (<https://doi.org/10.12777/ijse.10.1.35-44>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/11574>)

---



**Ergonomics in Work Method to Improve Construction Labor Productivity**

(/article/11768a6b835549169a1736bd6ca5ef3a)

*Tuti Sumarningsih, Mochammad Agung Wibowo, Sri Prabandiyani Retno Wardani*

International Journal of Science and Engineering (/toc/2086-5023). 2016;10(1):30-34 DOI

10.12777/ijse.10.1.30-34 (<https://doi.org/10.12777/ijse.10.1.30-34>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/11345>)

---

**Sensorless Vector Control of AC Induction Motor Using Sliding-Mode Observer**

(/article/1241f7f5b6ee490a93d13fde88810bb1)

*Phuc Thinh Doan, Tan Tien Nguyen, Sang Kwun Jeong, Sea June Oh, Sang Bong Kim*

International Journal of Science and Engineering (/toc/2086-5023). 2013;4(2):39-43 DOI

10.12777/ijse.4.2.39-43 (<https://doi.org/10.12777/ijse.4.2.39-43>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/4311>)

---

**On the New Algorithm of Testing and Comparing Size Corrected Powers for Testing Multivariate Normality** (/article/130bebe83c654569b809fa7f885e7120)

*Sima Rani Dey, A.K. Majumder*

International Journal of Science and Engineering (/toc/2086-5023). 2012;3(1):8-12 DOI

10.12777/ijse.3.1.8-12 (<https://doi.org/10.12777/ijse.3.1.8-12>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/3006>)

---

**The Application Modular Floating Pontoon to Support Floods Disaster Evacuation System in Heavy Populated Residential Area** (/article/13ce94019aae4faa85caff4844d5a124)

*Ahmad Fauzan Zakki, Aulia Windyandari*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(2):166-173 DOI

10.12777/ijse.7.2.166-173 (<https://doi.org/10.12777/ijse.7.2.166-173>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7695>)

---

**Editorial (Table of Content, Editorial Board, Preface)** (/article/1530fb6b2a5b47ea976387cba75af30e)  
*editor support*

International Journal of Science and Engineering (/toc/2086-5023). 2013;4(2) DOI 10.12777/ijse.4.2.i-iv

(<https://doi.org/10.12777/ijse.4.2.i-iv>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/4745>)

---

**Editor board** (/article/1533a4f07dd94d94aa4e19cbc8a31365)

*editor support*

International Journal of Science and Engineering (/toc/2086-5023). 2011;2(2) DOI 10.12777/ijse.2.2.ii

(<https://doi.org/10.12777/ijse.2.2.ii>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/1308>)

---

**INDONESIAN EFFORTS TO CONSERVE GEMBRONG GOATS**

(/article/15edeb7765044b4ea476b85d38e178d0)

*Hasanatul Hasinah, Ismeth Inounu, Subandriyo Subandriyo*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(2):88-94 DOI

10.12777/ijse.8.2.88-94 (<https://doi.org/10.12777/ijse.8.2.88-94>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/8266>)

---



The role of fluoxetine on macrophage function in chronic pain (Experimental study in Balb/c mice) (/article/1663fc18d3364eae8f16d8145a92f669)

*Dwi Pudjonarko, Edi Dharmana, OS Hartanto*

International Journal of Science and Engineering (/toc/2086-5023). 2015;9(1):27-33 DOI

10.12777/ijse.9.1.27-33 (<https://doi.org/10.12777/ijse.9.1.27-33>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/9527>)

---



Experimental Design of Electrocoagulation and Magnetic Technology for Enhancing Suspended Solids Removal from Synthetic Wastewater (/article/18f1c58a22fa4d4392b1a2a968820f27)

*Moh Faiqun Ni'am, Fadil Othman*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(2):178-192 DOI

10.12777/ijse.7.2.178-192 (<https://doi.org/10.12777/ijse.7.2.178-192>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7176>)

---



Potency of Palm Oil Plantation and Mill Byproduct as Ruminant Feed in Paser Regency, East Kalimantan (/article/191dbe0f3d78466d845956acf143abd0)

*Hamdi Mayulu, S Sunarso, C. I. Sutrisno, S Sumarsono, M Christiyanto, K. Isharyudono*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2):56-60 DOI

10.12777/ijse.5.2.56-60 (<https://doi.org/10.12777/ijse.5.2.56-60>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5594>)

---



Hybrid membrane using polyethersulfone-modification of multiwalled carbon nanotubes with silane agent to enhance high performance oxygen separation (/article/1aa9e64507d446e1b60d46b563a442b6)

*Tutuk Djoko Kusworo, Ahmad Fauzi Ismail, Azeman Mustafa*

International Journal of Science and Engineering (/toc/2086-5023). 2014;6(2):163-168 DOI

10.12777/ijse.6.2.163-168 (<https://doi.org/10.12777/ijse.6.2.163-168>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/6640>)

---



The Autonomous Development Strategies of Micro and Small Entrepreneurs Through Corporate Social Responsibility in Bogor District of West Java (/article/1ac64df5e19f4069b2fdb5898934d069)

*Faizal Maad, Sumardjo Sumardjo, Amiruddin Saleh, Pudji Muljono*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(1):70-76 DOI

10.12777/ijse.7.1.70-76 (<https://doi.org/10.12777/ijse.7.1.70-76>)

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---



IDENTIFICATION OF Staphylococcus sp. STRAINS ISOLATED FROM POSITIVE WIDAL BLOOD BASED ON 16S rRNA GENE SEQUENCES (/article/1ac83e1c37514675bf1af7a30f4ab068)

*Sri Darmawati*

International Journal of Science and Engineering (/toc/2086-5023). 2015;9(2):97-100 DOI

10.12777/ijse.9.2.97-100 (<https://doi.org/10.12777/ijse.9.2.97-100>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/9227>)

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Physico-Chemical Characterization Of Maluku Nutmeg Oil

(/article/27c5e57e04ab439b986fc4f052c9286c)

*Ilyas Marzuki, Bintoro Joefrie, Sandra A. Aziz, Herdhata Agusta, Memen Surahman*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(1):61-64 DOI

10.12777/ijse.7.1.61-64 (<https://doi.org/10.12777/ijse.7.1.61-64>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/6175>)

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Instruction for Authors (/article/27cb04b3ae564be09a1220ecc3b26625)

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International Journal of Science and Engineering (/toc/2086-5023). 2013;5(1):63-64 DOI

10.12777/ijse.5.1.63-64 (<https://doi.org/10.12777/ijse.5.1.63-64>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5331>)

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Comparison of intelligent systems, artificial neural networks and neural fuzzy model for prediction of gas hydrate formation rate (/article/27e01b0fb24e4944b6926e506b996c2d)

*Mohammad Javad Jalalnejhad, Mohammad Ranjbar, Amir Sarafi, Hossein Nezamabadi-Pour*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(1):35-40 DOI

10.12777/ijse.7.1.35-40 (<https://doi.org/10.12777/ijse.7.1.35-40>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/6290>)

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Subsurface Structure in Japan Based on P and S waves Travel Time Analysis Using Genetic Algorithm in Japan Seismological Network (/article/2828affbe3164468bb57907108c0beed)

*A. M. Miftahul Huda, Bagus Jaya Santosa*

International Journal of Science and Engineering (/toc/2086-5023). 2014;6(1):70-74 DOI

10.12777/ijse.6.1.70-74 (<https://doi.org/10.12777/ijse.6.1.70-74>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5762>)

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Aims and Scope (/article/2a15a232c19b4497a68d635de8716c1e)

*editor support*

International Journal of Science and Engineering (/toc/2086-5023). 2011;2(1) DOI 10.12777/ijse.2.1.i

(<https://doi.org/10.12777/ijse.2.1.i>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/1286>)

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Front Cover (/article/2b1861d94ace4ee0aa8de44a5ef830e5)

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International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2) DOI 10.12777/ijse.5.2.0

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**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5657>)

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Front cover (/article/2cb8b0d1c3f8428b901c0641bfa4f372)

*Budiyono MSi*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(1) DOI 10.12777/ijse.8.1.0  
(<https://doi.org/10.12777/ijse.8.1.0>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/8663>)

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Corrosion Behavior of Ni<sub>3</sub>(Si,Ti) + 2Mo in Hydrochloric Acid Solution  
(/article/2ce076b9a0914fb9a98e29f91b3a3a7f)

*Gadang Priyotomo, Pius Sebleku*

International Journal of Science and Engineering (/toc/2086-5023). 2014;6(1):39-42 DOI  
10.12777/ijse.6.1.39-42 (<https://doi.org/10.12777/ijse.6.1.39-42>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5642>)

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Dual solutions for MHD stagnation-point flow of a nanofluid over a stretching surface with induced  
magneticfield (/article/2e610d7fbc1c467bba8adbb5a9f3f0bf)

*Sandeep Naramgari, Sulochana C*

International Journal of Science and Engineering (/toc/2086-5023). 2015;9(1):1-8 DOI  
10.12777/ijse.9.1.1-8 (<https://doi.org/10.12777/ijse.9.1.1-8>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/8705>)

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Study of Biometric Identification Method Based on Naked Footprint  
(/article/2e87a93b4c95460383815dcb9a8b066a)

*Raji Rafiu King, Wang Xiaopeng*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2):29-35 DOI  
10.12777/ijse.5.2.29-35 (<https://doi.org/10.12777/ijse.5.2.29-35>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5511>)

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The effect of geometric structure on stiffness and damping factor of wood applicable to machine tool  
structure (/article/30b8afd42f8d40a999fc2c4486bb82f4)

*Susilo Adi Widyanto, Achmad Widodo, Sri Nugroho, David Siahaan*

International Journal of Science and Engineering (/toc/2086-5023). 2013;4(2):57-60 DOI  
10.12777/ijse.4.2.57-60 (<https://doi.org/10.12777/ijse.4.2.57-60>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/4511>)

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Snap-Through Buckling Problem of Spherical Shell Structure  
(/article/315df2f22eef4cdcad57ce89436ec2e1)

*Sumirin Sumirin, Nuroji Nuroji, Sahari Besari*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(1):54-59 DOI  
10.12777/ijse.8.1.54-59 (<https://doi.org/10.12777/ijse.8.1.54-59>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/6246>)

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The impact of the local dairy cattle farm toward the river water quality in Gunungpati Subdistrict Central  
Java (/article/326209706b654148a981b0ee7e3f1c5c)

*E. Widiastuti, Kustono Kustono, Adiarto Adiarto, Nurliyani Nurliyani*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(1):15-21 DOI  
10.12777/ijse.8.1.15-21 (<https://doi.org/10.12777/ijse.8.1.15-21>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7955>)

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10.12777/ijse.7.2.100-105 (<https://doi.org/10.12777/ijse.7.2.100-105>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7038>)

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Moving Object Tracking and Avoidance Algorithm for Differential Driving AGV Based on Laser Measurement Technology (/article/4601499b16b04485b95a92eb8d27032d)

*Pandu Sandi Pratama, Sang Kwun Jeong, Soon Sil Park, Sang Bong Kim*

International Journal of Science and Engineering (/toc/2086-5023). 2012;4(1):11-15 DOI

10.12777/ijse.4.1.11-15 (<https://doi.org/10.12777/ijse.4.1.11-15>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/4262>)

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The Effect of King Grass Silage on the Nitrogen Balance and Hematological Profile of Ettawa Grade Male Goat (/article/47f89f8acf45482ca9645cb3ff90d69c)

*S. Sunarso*

International Journal of Science and Engineering (/toc/2086-5023). 2012;3(1):13-16 DOI

10.12777/ijse.3.1.13-16 (<https://doi.org/10.12777/ijse.3.1.13-16>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/3011>)

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International Journal of Science and Engineering (/toc/2086-5023). 2011;2(1) DOI 10.12777/ijse.2.1.22

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The Nutrient Potency of Palm Oil Plantation and Mill's By-product Processed with Amofer Technology as Ruminant Feed (/article/4a077474adb645e2805d5d4f5397caae)

*Hamdi Mayulu*

International Journal of Science and Engineering (/toc/2086-5023). 2014;6(2):112-116 DOI

10.12777/ijse.6.2.112-116 (<https://doi.org/10.12777/ijse.6.2.112-116>)

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Front Cover (/article/4a0a7fe760c740ec87544b3b16eab40b)

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International Journal of Science and Engineering (/toc/2086-5023). 2012;3(1) DOI 10.12777/ijse.3.1.

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Drying Spirulina with Foam Mat Drying at Medium Temperature (/article/4c142535ad4448648d92015f678dbb93)

*Aji Prasetyaningrum, Mohamad Djaeni*

International Journal of Science and Engineering (/toc/2086-5023). 2012;3(2):1-3 DOI

10.12777/ijse.3.2.1-3 (<https://doi.org/10.12777/ijse.3.2.1-3>)

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Effect of Various Types of Herbs on Sensory Properties and Blood Glucosa Response Adan Instant Black Rice (/article/4c4c916712bd4ce2905597754b2757f0)

*Bernatal Saragih, M Marwati, Hadi Suprpto, Bernaulus Saragih, Maulida Rachmawati*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(1):42-48 DOI

10.12777/ijse.5.1.42-48 (<https://doi.org/10.12777/ijse.5.1.42-48>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5163>)

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Pitting Corrosion of Ni<sub>3</sub>(Si,Ti) Intermetallic Compound at Various Chloride Concentrations (/article/503e93ae94314091acb4ebb9ffda370)

*Gadang Priyotomo*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2):25-28 DOI

10.12777/ijse.5.2.25-28 (<https://doi.org/10.12777/ijse.5.2.25-28>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5201>)

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ANALYSIS OF CHEMICAL AND MICROBIAL CHANGE DURING STORAGE OF OVERRIPE TEMPEH POWDER AS SEASONING MATERIAL (/article/504fa8c4ae82434db170853200d91b04)

*Tia Raisha Hassanein, Elisabeth Kartika Prabawati, Maria Dewi Puspitasari Tirtaningtyas Gunawan-Puteri*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(2):131-134 DOI

10.12777/ijse.8.2.131-134 (<https://doi.org/10.12777/ijse.8.2.131-134>)

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Analysis of Causality Relationship of Components of Socio-ecological and Socio-economical System for Management of the Outermost Small Islands: A Case of Lingayan Island, Central Sulawesi (/article/50991c76594d4c19a6e4cbd0ff19d316)

*Mohammad Saleh Lubis, Azis Nur Bambang, Sahala Hutabarat, Slamet Budi Prayitno*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(1):52-60 DOI

10.12777/ijse.7.1.52-60 (<https://doi.org/10.12777/ijse.7.1.52-60>)

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International Journal of Science and Engineering (/toc/2086-5023). 2014;6(1) DOI 10.12777/ijse.6.1.0

(<https://doi.org/10.12777/ijse.6.1.0>)

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Corrosion Behavior of Ni<sub>3</sub>(Si,Ti) in Hydrochloric Acid Solution (/article/53b40264a14f4fdb07f0b8d845e4998)

*Gadang Priyotomo, Yasuyuki Kaneno*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(1):31-34 DOI





The Role of Calcium and Glucose on the Increasing of Parasitemia Value and Hemolysis into Plasmodium falciparum-infected Erythrocyte (/article/5b60b14db0c24deeac47e1bac01f8458)  
*Verry Asfirizal*

International Journal of Science and Engineering (/toc/2086-5023). 2016;10(2):63-66 DOI  
10.12777/ijse.10.2.63-66 (<https://doi.org/10.12777/ijse.10.2.63-66>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/12095>)



The Nutrient Digestibility of Locally Sheep Fed with Amofer Palm Oil Byproduct-Based Complete Feed (/article/5d58a5b9f91b40319179f19b5094f5b2)

*Hamdi Mayulu*

International Journal of Science and Engineering (/toc/2086-5023). 2014;7(2):106-112 DOI  
10.12777/ijse.7.2.106-112 (<https://doi.org/10.12777/ijse.7.2.106-112>)

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International Journal of Science and Engineering (/toc/2086-5023). 2014;7(1) DOI 10.12777/ijse.7.1.0  
(<https://doi.org/10.12777/ijse.7.1.0>)

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Dynamic Mechanical and Gel Content Properties of Irradiated ENR/PVC blends with TiO<sub>2</sub> Nanofillers (/article/5f51714a2f0c4d17afb16f39152e25db)

*Nur Azrini Ramlee, Chantara Theyy Ratnam, Nur Hashimah Alias, Mohd Faizal Abd Rahman*

International Journal of Science and Engineering (/toc/2086-5023). 2014;6(1):24-30 DOI  
10.12777/ijse.6.1.24-30 (<https://doi.org/10.12777/ijse.6.1.24-30>)

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Profile Triglycerides Japanese Quail (*Coturnix coturnix japonica*) After Giving Turmeric (*Curcuma longa*) Powder (/article/6387af630da04d54862c056cebbbbb28e)

*Sukarman Hadi jaya Putra, Tyas Rini Saraswati, Sri Isdadiyanto*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(1):65-68 DOI  
10.12777/ijse.8.1.65-68 (<https://doi.org/10.12777/ijse.8.1.65-68>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/7918>)



Potential Production of Polyunsaturated Fatty Acids from Microalgae (/article/647b78e0531b4be2b0f72030c49610d3)

*Noer Abyor Handayani, Dessy Ariyanti, Hady Hadiyanto*

International Journal of Science and Engineering (/toc/2086-5023). 2011;2(1):13-16 DOI  
10.12777/ijse.2.1.13-16 (<https://doi.org/10.12777/ijse.2.1.13-16>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/1247>)



The Determinant Factors of Creative Economy Craftsmen Sustainability in South Sulawesi Province (/article/6711baa5a76c437e8f73505b125e6d10)

*Helda Ibrahim, Siti Amanah, Pang. S. Asngari, Ninuk Purnaningsih*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2):18-24 DOI 10.12777/ijse.5.2.18-24 (<https://doi.org/10.12777/ijse.5.2.18-24>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5504>)

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Simulation of Traffic Flow Model with Traffic Controller Boundary  
(/article/67113566529ad4a528e500c01fc74b9de)

*Nahid Sultana, Masuma Parvin, Ronobir Sarker, Laek Sazzad Andallah*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(1):25-30 DOI 10.12777/ijse.5.1.25-30 (<https://doi.org/10.12777/ijse.5.1.25-30>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/5115>)

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Result of Six Local Upland Rice Cultivars of East Kalimantan at Different Plant Spacing  
(/article/690b830f8eeb4328819bc3f0414d21f2)

*R. Rusdiansyah, Yazid Ismi Intara, Budi Indra Setiawan*

International Journal of Science and Engineering (/toc/2086-5023). 2013;4(2):66-68 DOI 10.12777/ijse.4.2.66-68 (<https://doi.org/10.12777/ijse.4.2.66-68>)

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TREATMENTS OF PLASMA CORONA RADIATION ON SEAWEED *Gracilaria Verrucosa* (HUDSON) PAPENFUSS: Efforts to increase growth and biomass (/article/6a997f4866b4402ea161eb1ed85c59f1)

*Filemon Jalu N Putra, Zaenul Muhlisin, Supto P. Putro*

International Journal of Science and Engineering (/toc/2086-5023). 2015;8(1):75-79 DOI 10.12777/ijse.8.1.75-79 (<https://doi.org/10.12777/ijse.8.1.75-79>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/8248>)

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Pelletisation Behavior of Fluxed Iron Ore Pellets of Varying Basicities Made with Waste Fines  
(/article/6bc1c320964242978913df521fd1a827)

*Alok Sarkar, Arup Kumar Mandal, O. P. Sinha*

International Journal of Science and Engineering (/toc/2086-5023). 2013;5(2):9-14 DOI 10.12777/ijse.5.2.9-14 (<https://doi.org/10.12777/ijse.5.2.9-14>)

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Apoptosis of Colorectal Cancer Cell on Sprague-Dawley Rats Induced with 1,2 Dimethylhydrazine and *Phyllanthus niruri* Linn Extrac (/article/6ccae87b44124b6e8f386d084e418fbb)

*Endang Sawitri*

International Journal of Science and Engineering (/toc/2086-5023). 2016;10(1):45-50 DOI 10.12777/ijse.10.1.45-50 (<https://doi.org/10.12777/ijse.10.1.45-50>)

**Abstract** | Full Text (<https://ejournal.undip.ac.id/index.php/ijse/article/view/11575>)

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Aims and Scope (/article/6cfd911f7fbf49aaa2aa06183d43606b)  
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International Journal of Science and Engineering (/toc/2086-5023). 2011;2(2) DOI 10.12777/ijse.2.2.i (<https://doi.org/10.12777/ijse.2.2.i>)

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# The role of fluoxetine on macrophage function in chronic pain (Experimental study in Balb/c mice)

International Journal of Science and Engineering (/toc/2302-5743). 2015;9(1):27-33 DOI 10.12777/ijse.9.1.27-33 (<https://doi.org/10.12777/ijse.9.1.27-33>)

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Chronic pain raises stress conditions such as depression that can lower the cellular immunity. Fluoxetine is an antidepressant used as an adjuvant in pain management but no one has been linked it with the body immune system. The objectives of this research were to proof the benefits of fluoxetine in preventing degradation of macrophage function in chronic pain by measuring the macrophage phagocytic index, macrophage NO levels and the liver bacterial count in BALB/c mice infected with *Listeria Monocytogenes*. A Post Test - Only Control Group Design was conducted using 28 male mice strain BALB /c, age 8-10 weeks. The control group (C), mice got the same standard feed as the other groups. Chronic pain group (P), mice were injected with 20µL intraplantar CFA on day-1. Pain + fluoxetine early group (PFE) were treated with P + fluoxetine 5 mg / kg ip day-1, the 4th, the 7th and the 10th, while the Pain + fluoxetine late group (PFL) were treated with P + fluoxetine 5 mg / kg ip on day 7th and 10th. All mice were injected with 104 live *Listeria monocytogenes* iv on day 8th. Termination was performed on day 13th. Differences within groups were analyzed using One-way ANOVA and Kruskal Wallis, whereas the correlation of variables were analyzed using Pearson's product moment. The experimental results showed that The macrophage phagocytic index and NO macrophage level (pg/mL) in PFE group(2,24±1,013; 0,24±0,239) was higher than than P group (1,68±0,920; 0,21±0,263) and there was no different in the macrophage phagocytic index of PFE group compared to C group (p=0,583; p=0,805). In PFL group (4,32±1,459; 0,54±0,294) the macrophage phagocytic index as well as NO macrophage level (pg/mL) was higher than P group (1,68±0,920; 0,21±0,263) with p=0,002; p=0,017. P group Bacterial count (log cfu/gram) (2,30±0,849) was significantly higher than C group(1,15±0,223) (p=0,007), while PFE group bacterial count (1,96±0,653) and PFL group bacterial count (1,84±0,403) compared to C (1,15± 0,223) was not significantly different (p=0,093; p=0,220). Correlation found between macrophage phagocytic index and macrophage NO (r=0,515, p=0,005). Macrophage phagocytic index and macrophage NO showed no correlation with bacterial count (r=-0,051, p=0,798; r=-0,071, p=0,719). It can be concluded that fluoxetine significantly increases macrophage phagocytosis index and macrophages NO level in mice with chronic pain, on the other hand fluoxetine decreases liver bacterial count. There is a positive correlation between macrophage phagocytosis index and macrophages NO level, while no correlation observed among two variables with mice liver bacterial count in chronic pain.

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RSS	2.0
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Home &gt; Vol 13, No 1 (2019)

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## Announcements

No announcements have been published.

[More Announcements...](#)

## Vol 13, No 1 (2019)

### Table of Contents

#### Articles

[Source apportionment of PM2.5 bound Polycyclic Aromatic Hydrocarbons from a Tricity in the foothills of Himalayas in Northern India](#)

Sandeep Garg, Anita rajor, Amit Dhir  
DOI: [10.12777/ijse.13.1.%](http://dx.doi.org/10.12777/ijse.13.1.%)

[FULLTEXT.PDF](#)  
1-6

[Broad inhibition of transmission frequency in multilayered dielectric one dimensional photonic crystal nanostructure](#)

VINOD CHACKO, Sonia Bansal, Aurangzeb khurram Hafiz

[FULLTEXT.PDF](#)  
7-11

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<a href="#">Design of Filing System for police investigation report on the Forensic Document Unit of POLRI Forensic Laboratory Center</a>	<a href="#">FULLTEXT.PDF</a>
Rochani Ani, Saeful Lukman, Bheta Agus Wardijono DOI: <a href="https://doi.org/10.12777/ijse.13.1.%p">10.12777/ijse.13.1.%p</a>	12-19
<a href="#">UTILIZATION OF GENCIL MOBILE APPLICATION IN IMPLEMENTING SMART CITY IN PONTIANAK</a>	<a href="#">FULLTEXT.PDF</a>
Hidana Nur Jannah DOI: <a href="https://doi.org/10.12777/ijse.13.1.%p">10.12777/ijse.13.1.%p</a>	20-23
<a href="#">Synthesis, Structural and Optical studies of SnO<sub>2</sub> nanoparticles by Chemical precipitation method</a>	<a href="#">FULLTEXT.PDF</a>
N Ganeshan S DOI: <a href="https://doi.org/10.12777/ijse.13.1.%p">10.12777/ijse.13.1.%p</a>	24-27
<a href="#">The Correlation between Total Ischemic Time with Length of Hospitalization : a Single Centre Report</a>	<a href="#">FULLTEXT.PDF</a>
Eriawan Agung Nugroho, Muhamad Azwin Kamar, Dila Junita DOI: <a href="https://doi.org/10.12777/ijse.13.1.%p">10.12777/ijse.13.1.%p</a>	28-30
<a href="#">An Extensive Study of Thermo-electric Effect</a>	<a href="#">FULLTEXT.PDF</a>
Mukul Chandra Das DOI: <a href="https://doi.org/10.12777/ijse.13.1.%p">10.12777/ijse.13.1.%p</a>	31-34

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Home > Archives > **Vol 9, No 1 (2015)**

## Vol 9, No 1 (2015)

### Table of Contents

#### Articles

<a href="#">Dual solutions for MHD stagnation-point flow of a nanofluid over a stretching surface with induced magnetic field</a> Sandeep Naramgari, Sulochana C DOI: <a href="#">10.12777/ijse.9.1.1-8</a>	<a href="#">FULL TEXT PDF</a> 1-8
<a href="#">Six-Correction Logic (SCL) Gates in Quantum-dot Cellular Automata (QCA)</a> Md. Anisur Rahman, Sajjad Waheed, Md. Ahsan Habib, Ali Newaz Bahar DOI: <a href="#">10.12777/ijse.9.1.9-12</a>	<a href="#">FULL TEXT PDF</a> 9-12
<a href="#">Prediction of Weekly Rainfall in Semarang City Use Support Vector Regression (SVR) with Quadratic Loss Function</a> Alan Prahutama, Hasbi Yasin DOI: <a href="#">10.12777/ijse.0.0.</a>	<a href="#">FULL TEXT PDF</a> 13-16
<a href="#">Non Oblivious Watermarking Technique for JPEG2000 Compressed images using Arnold Scrambling of Unequal Size Watermark Blocks</a> Geeta Kasana, Kulbir Singh, Satvinder Singh Bhatia DOI: <a href="#">10.12777/ijse.9.1.</a>	<a href="#">FULL TEXT PDF</a> 17-26
<a href="#">The role of fluoxetine on macrophage function in chronic pain (Experimental study in Balb/c mice)</a> Dwi Pudjonarko, Edi Dharmana, OS Hartanto DOI: <a href="#">10.12777/ijse.9.1.27-33</a>	<a href="#">FULL TEXT PDF</a> 27-33

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