

5th International Conference on Energy, Environment, Epidemiology and Information System (5th ICENIS) 2020

Organized by

School of Postgraduate Studies Universitas Diponegoro

12-13th August 2020

Preface

The 5th International Conference on Energy, Environment, Epidemiology and Information System 2020 (5th ICEN IS 2020) has been organized by the School of Postgradute Studies, Universitas Diponegoro, Indonesia with the support by World Class University (WCU) Program. The conference was held on Auguat 12th-13th 2020 in Semarang, Indonesia by using Online Conference System. The aim of the conference was to distribute research outcomes on multidisciplinary research area on energy, environment, health and epidemiology and information system.

The 5th ICENIS 2020 have presented 10(ten) international honorable keynote speakers from representative institutions and continents: i) Prof. Elco van Burg, Vrij University Amsterdam, The Netherlands; ii) Prof Peter Gell, Federation University, Australia., iii) Prof. Jerry Miller, Western Caroline University, USA; iv) Prof. Shabbir Gheewalla, Joint Graduate School of Energy and Environment (JGSEE), Kingmokut University, Thailand; v) Assoc. Prof. Zainul Zakaria, Chemical Engineering Department, UTM Malaysia; (vi) Dr Yurdi Yasmi; Regional representative of IRRI for Southeast Asia, Cambodia; (vii) Dr Nuki Agya Utama, Executive Director of Asean Energy research; (viii) Patrick van Schijndel, TU Delft, The Netherlands, (ix) Barokah Sri Utami, Former President Director of PT Phapros, Indonesia, and (x) Dr Liew Kian heng from Strategics Singapore. Pursuing the international network of researchers and industrial applications, this event also has been attended by overseas colleagues to share their best research works as well as local academia and practitioners. Over 320 representatives from various institutions participated in this event, involving more than 340 abstracts submitted. After a rigorous selection process, the Scientific & Editorial Board of 5th ICENIS 2020 made selection of 300 articles to be published in E3S Web of Conferences, an open-access proceedings in environment, energy and earth sciences, managed by EDP Sciences, and indexed on Scopus, Scimago, Conference Proceedings Citation Index-Science (CPCI-S) of Clarivate Analytics's Web of Science, DOAJ (Directory of Open Access Journals). The Proceedings of 5th ICENIS 2020 consists of selected articles from Kazakhstan, Libya, Netherlands, Thailand, Malaysia. The published papers have passed all necessary improvement requirements in accordance to the Web of Conferences standard, reviewer's comments, SI, similarity tests by Turnitin program.

We would like to express our gratitude to the official committee, scientific & editorial boards, organizing partners. A very special thanks to Universitas Diponegoro for financially supporting this conference especially for financing indexing of proceeding in E3S. Finally, we would like to briefly acknowledge all presenters and attendees for their efforts sharing the beautiful ideas and useful research outcomes to inspire further research and collaborations. Although, this time the conference has been successfully conducted via webinar, but the number of participants showed a great increases and we do hope that this also will be the same for the coming 6th ICENIS 2021.

See you again in the next year conference 5th ICENIS 2021

The chairman

Prof. Hadiyanto

SCIENTIFIC and EDITORIAL BOARD

- 1. Prof. Tri Retnaningsih Soeprobowati (Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
- 2. Prof. Sudahrto P Hadi (Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
- 3. Prof Purwanto (Chemical Engineering Department , Universitas Diponegoro, Indonesia)
- 4. Prof. Henk Heijnis, (ANSTO Australia)
- 5. Dr Zainul Zakaria (UTM Malaysia)
- 6. Prof. Shabbir Gheewala (JGSEE, Thailand)
- 7. Prof. Hadiyanto (School of Postgraduate Studies, Universitas Diponegoro, Indonesia)
- 8. Prof. Peter Gell (Federation University, Australia)
- 9. Prof. Elco van Burg (Vrij University, The Netherlands)
- 10. Dr Thomas Putranto Triadi (Faculty of Engineering, Universitas Diponegoro, Indonesia)
- 11. Dr Hartuti Purnaweni (Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
- 12. Dr Sudarno (Graduate Program of Environmental Sciences, Universitas Diponegoro, Indonesia)
- 13. Dr Budi Warsito (Graduate Program of Information System, Universitas Diponegoro, Indonesia)
- 14. Dr Suryono (Graduate Program of Information System, Universitas Diponegoro, Indonesia)
- 15. Dr Maryono (Graduate Program of Environmental Science, Universitas Diponegoro, Indonesia)

The School Of Postgraduate Studies, Diponegoro University

Emphasizing Environment And Human Security Towards Clobal Sustainable Development Goals (SDCs) 2030

Online International conference

Topic

.

Energy

- C: 37 Energy management and pone, Energy planning and Education Energy conservation and efficiency Energy conversion technology Renewable energy Nonrenewable energy Nonrenewable energy / Fossil energy Nonrenewable energy / Fossil energy Culture and Environmental Development in Coastal Community
- Environment ntion
 - Environmental Policy Planning and Education
 - Education Environmental Technology Environmental Health and Toxicology Environmental Epidemiology Pollution Control Waste Management Green Infrastructure and Resilience

Keynote Speaker



or Of

Protessor Or Environmental Management, Federation University, Australia



Executive Director ASEAN Center For Energy



DR. YURDI YASMI YASMI International Rice Research Institute (IRRI) Regional Representative For Southeast Asia, Phillipine



es And

g Director

Strategics And Liew Consultants, Singapore

PROF. ELCO





PROF. DR. JERRY MILLER

Department of Geosciences and Natural Resources Western Carolina University



DRA. BAROKAH SRI UTAMI. APT., MM Pt Phapros Tbk. Indonesia



PROF. DR. SHABBIR H. GHEEWALA oint Gradua chool Of Environment And Energy (JGSEE), King Mokut University, Thailand

Organizing committee:

PROF. HADIYANTO

Postgraduates Studies Universitas

School Of

Diponegoro, Indonesia

Prof. Dr. Hadiyanto, M.Sc (Chairman) Dr. Thomas Trihadi Putranto, S.T., M.Eng. (Co Chairman) Dr. drg. Dui Surtiningsih, M.Kes. (Program) Dr. Budi Warsito, S.S.L., M.Si. (Publication)

Epidemiology

Epidemiology related to disease and health event preventionmand control Managerial epidemiology Environmental epidemiology Occupational epidemiology Nutritional epidemiology Behavioral epidemiology

Information System

- Bussiness Intelligence Supply Chain Information Systems Industrial Information Systems Decission Support Systems Smart Information Systems
 - Health, Safety and Environment Information Syste

Submission & Registration

http://www.icenis.org

Publication

All accepted papers will be published in Scopus Indexed Proceeding E3S Web of Conferences and selected papers will be published in International Journal of Renewable Energy Development (Scopus indexed) and HAYATI Journal of Biosciences (Scopus Q3)



International Journal of Renewable Energy IJRED Development



Contact

+62 24 8449 608 (Office) +62 813 2647 7628 (Prof. Hadiyanto) +62 812 2811 8006 (Silvia Nur Safa'ah, S.E.) +62 813 9085 6514 (Eko Pujiyanto) Email : icenis (at) live.undip.ac.id

Conference Fees

	Before June 17*, 2020	AfterJune 17*, 2020
Presenter Indonesian Presenter International Presenter Student presenter	IDR agoneccijos 2.000.000/ paper USD ago 1/5/ paper IDR 2.000.000/ paper	IDR styptorojec 2.350.000/paper USD 900 225/paper IDR styptorojec 2.000.000/pape
Participant (Non Presenter) Indonesian Participant International Participant	IDR 1.000.000 USD 199 145	IDR 1.250.000 USD 200 150
* Additional fee for second papers IDF	matment in faoing the current situation of Pande 142 30000 00 of first asticles, two articles as first author and th	
* Additional fee for second papers IDF	: at graves $\rho e = -$ of first actions, two articles at first author and the	e remaining two articles as co-archer
* Additional fee for second papers IDF	1230/000/00	
* additional fee firs second paper IDB * Every author may exheat maximum	: at graves $\rho e = -$ of first actions, two articles at first author and the	e remaining two articles as co-archer
* Additional for first meteral papers IDF * Dropy author may relocat maximum FULL PAPER SUBMISSION	Largeneoogen of from articles, two articles as first author and the Early/Distle a	a remaining two articles as co-author Datch as
* Additional fee for second papers IDF	Largesonce of Birst satisfies as first suther and th Emby Binds s Before May 30%, accao	exemutions two articles as co-author Batch a Before June 20 th , 2020

Before July 17", 2020
Before July 17º, 2020

The Organizing Committee

This conference has been organized by School of postgraduate studies, Universitas Diponegoro Semarang. The school currently coordinating 6 graduate multidisciplinary programs i.e Master program of environmental science, master program of energy, master program of epidemiology, master program of information system, doctoral program of environmental sciences, and doctorate program of Information system. The total students is currently 350 students among these 6 programs.

The website: <u>https://pasca.undip.ac.id</u>

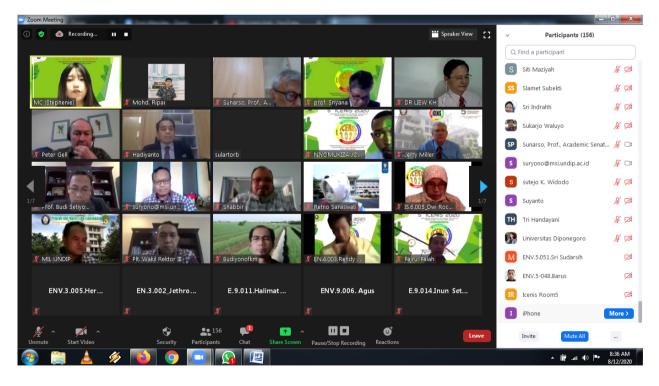
Website of conference: <u>https://icenis.undip.ac.id</u>

The committee of 5 th	ICENIS 2020
Chairman	: Prof. Hadiyanto, MSc
Vice chairman	: Dr Thomas Putranto Triadi
Programs	: Dr Fuad Muhammad
Publications	: Dr Budi Warsito
Supporting	: Yunis, Alwi, Doni, Silvia, Fitri Handayani, Eko, Emma, Imma, Hastomo, Hamim, Rohmad, Gito, Joko, Lila

Some pictures from the conference

Opening Ceremony







2. The Chairman report



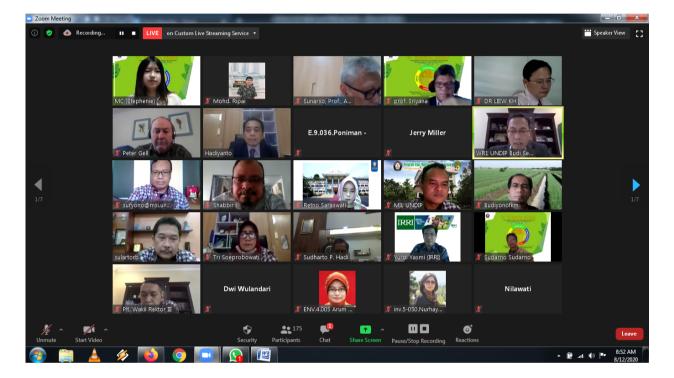


3. The remarks form Dean of School of Postgraduate Studies

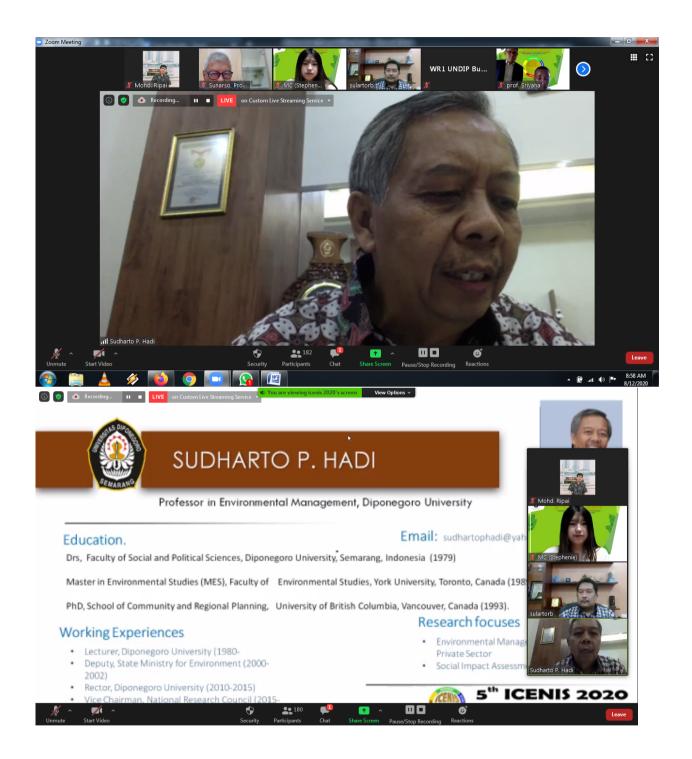
4. Opening Remarks by The vice Rector, Prof. Budi Setiyono



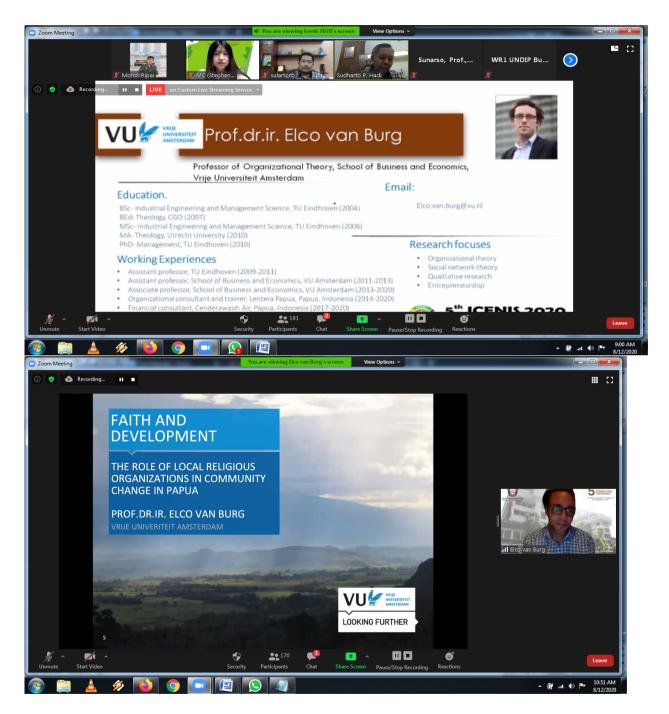
Participants



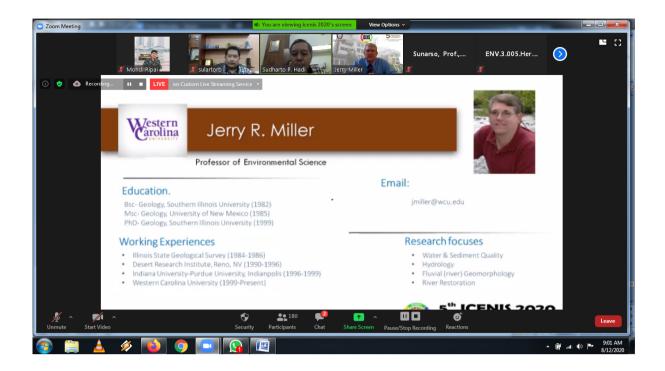
Keynote speaker Session I (Chaired by Prof. Sudharto P Hadi)



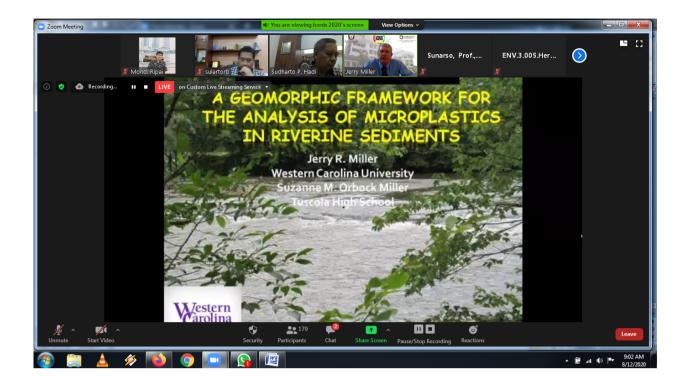
Keynote 1: Prof. Elco



2. Keynote 2 (Prof. Jerry Miller)

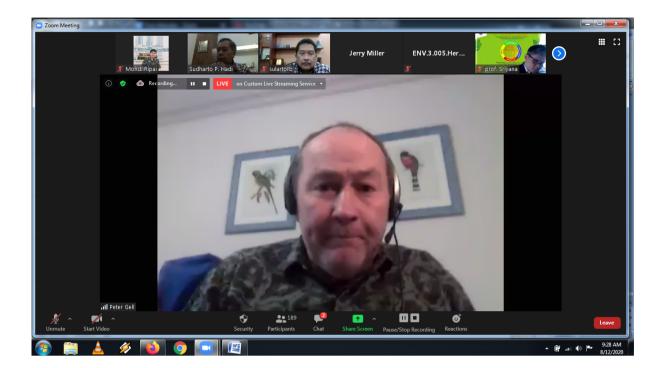






3. Keynote 3 (Prof. Peter Gell)





Keynote 5 (Dr Yurdi Yasmi)



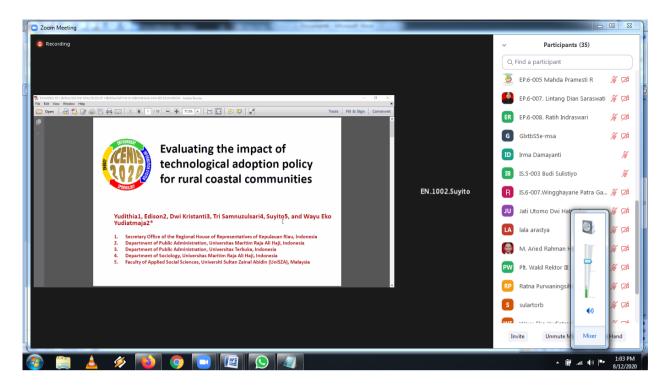
Keynote 6(Dr Liew Kian Heng)



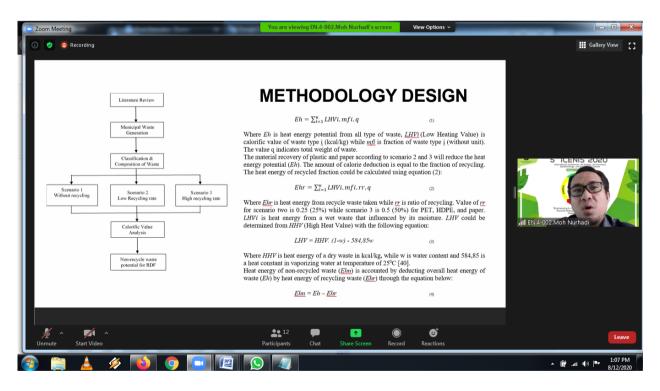
Example for Parallel Session ROOM 1







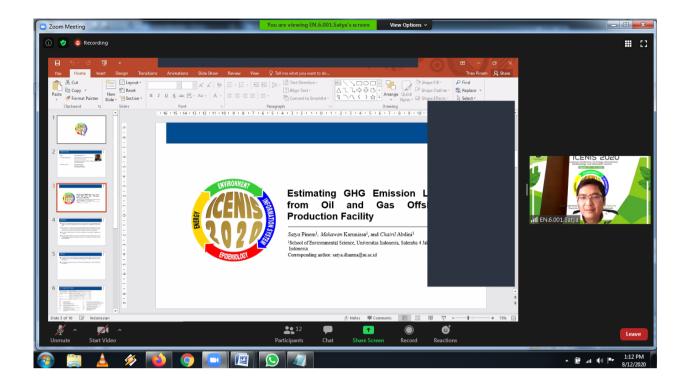
ROOM 2

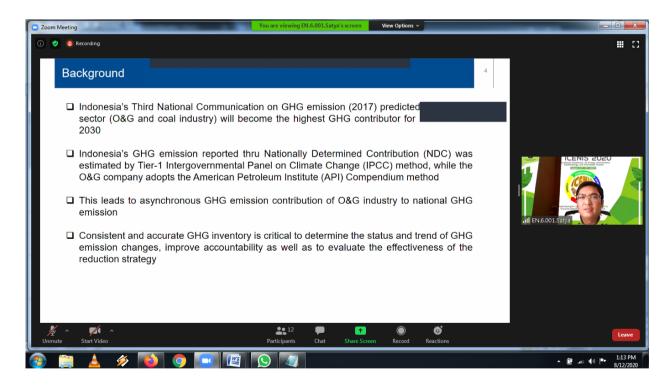


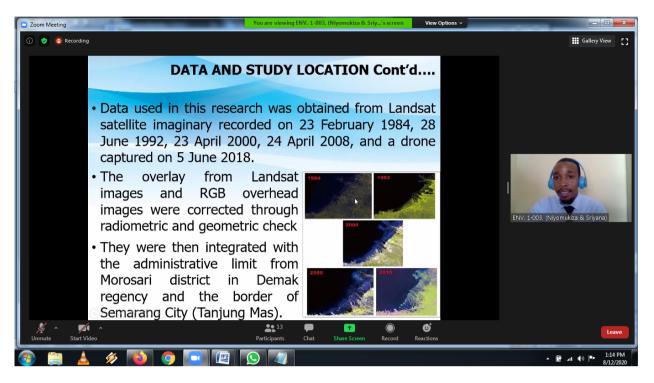
Coom Meeting Recording	METHODOLOGY DESIGN	
Literature Review Municipal Waste Generation Classification & Composition of Waste Composition of Waste Scenario 1 Without recycling Low Recycling rate Calorific Value Analysis Non-recycle waste potential for KDP	<equation-block><equation-block><text><text><equation-block><text><equation-block><text><text></text></text></equation-block></text></equation-block></text></text></equation-block></equation-block>	hit). heat ing. Mond.Ripai Mond.Ripai Characteristics Provide the second ENJS.001, Arn St is
💈 🚝 🔺 🔌 🚺 🧿 🗔 🕅		▲ 🛱 .ul 🕪 🃭 1:09 P

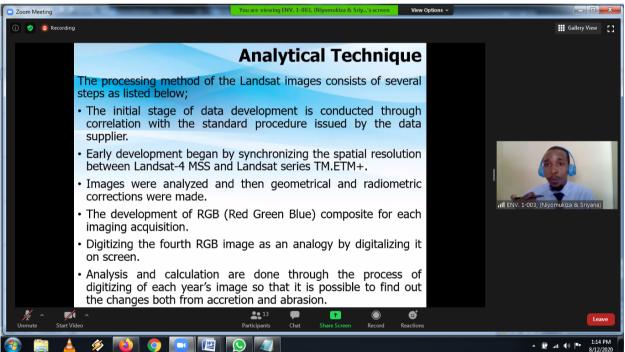
ROOM 3







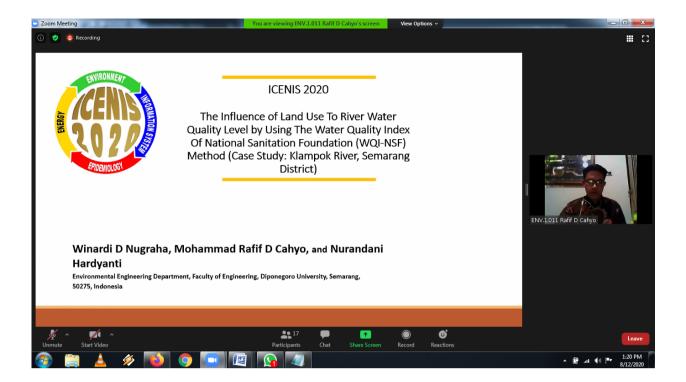


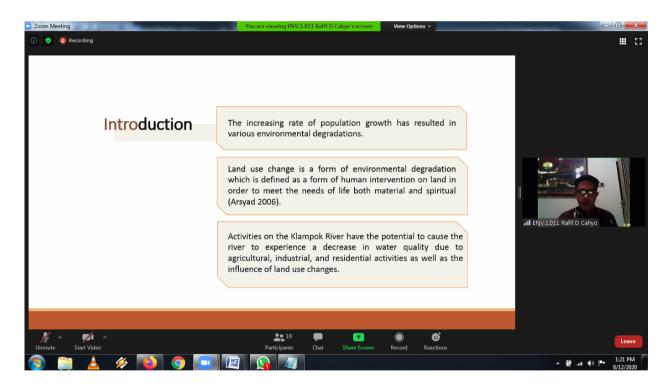


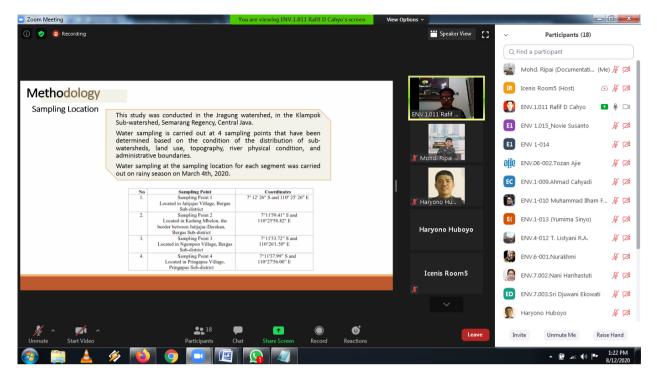
Zoom Meeting		You are viewing ENV. 1-003, (Niyomukiza & Sriy's scree	en View Options ~	
🕕 🥑 🍋 Recording				Gallery View
	RES	ULTS AND DISCUSS	SION	
border Demak Terboyo Demak	ng to the coastline le ion resulted from digitation area length between Semara (Tanjung Mas, Terboyo W o Kulon, and Trimulyo village Regency (villages along the ak Regency) are as follows;	ang – /etan, a Landau TM, 1984 b. Landau TM, 1992 c. La e) and	n e e : andra at 114. 2009	uli ENV: 1-003, (Niyomukiza & Sriyana)
Year	-	th and Rate of coastline changes Rate of coastline changes (Km/		
1984	Coastline length (Km) 48.2		year)	
1992	57.9	1.2		
2000	63.7	0.7		
2008	73.5	1.2		
2018	92.6	2.1		
y ^ V ^ Unmute Start Video		Participants Chat Share Screen Record	eet Reactions	Leave
📀 🚞 🔺 🚿	🔞 🧿 🖪 🖉			▲ 唐I ● ⁽⁾ ■ 1:15 PM 8/12/2020

ROOM 5

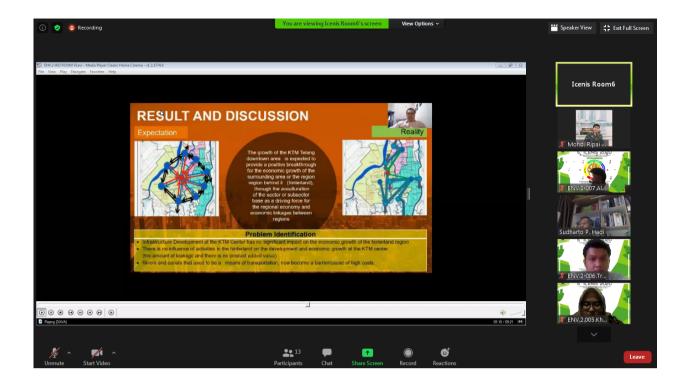
Zoom Meeting		and the second design of the second second			
Recording					BbCcDr
ENV.1-010 Muhammad I	Mohd. Ripai (Docume	Haryono Huboyo	Icenis Room5	•	phasis = Change Styles G Editing
YUNA SNSD	ENV.1-013 (Yum	€ ENV.06-002.Tozan Ajie	FNV.6-001.Nurałtymi		
ENV.1-009.Ahm	Haryono Huboyo	<pre>// ENV.L011 Raff D Cahyo</pre>	¥ 15.1-007.Chashif Syadzali		
ENV 1.015_Novi	ENV 4-012 T. Listyani R	€ ENV.7.002.Nani Hariha	ENV 1-014		
s 🛱 🔺 🕫 🖪) o 💷 👰				100%





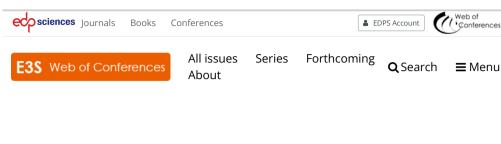


Zoom Meeting Zoom Meeting Recording		You are viewing ENV.1.01	1 Rafif D Cahyo's screen View Og	ptions 🗸	Speaker View []
Methodology					
Sampling Location	Sub-watershi Water samp determined watersheds, administrativ Water sampl	vas conducted in the Jragung ed, Semarang Regency, Centra based on the condition of land use, topography, riv e boundaries. ing at the sampling location f season on March 4th, 2020.	Java. pling points that have be of the distribution of su er physical condition, a	en ub- nd	ENV1.011 Raff
	<u>No</u> 1.	Sampling Point Sampling Point I Located in Jatijajar Village, Bergas Sub-district	Coordinates 7° 12' 26" S and 110° 25' 26" E		∦ ∦ Haryono Hu
	2.	Sub-district Sampling Point 2 Located in Kedung Mbelon, the border between Jatijajar-Derekan, Bergas Sub-district	7°11'59,41" S and 110°25'58.82" E		Haryono Huboyo
	3.	Sampling Point 3 Located in Ngempon Village, Bergas Sub-district	7°11'33.72" S and 110°26'1.50" E		Icenis Room5
	4.	Sampling Point 4 Located in Pringapus Village, Pringapus Sub-district	7°11'37.99" S and 110°27'56.00" E		
<u>k</u> ~ 1		♣ ¹⁸		¢	Leave
Unmute Start Video	ف	Participants	Chat Share Screen Record	Reactions	▲ 餅 .ul (4) ┡・ 1:22 PM 8/12/2020



By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup



All issues > Volume 202 (2020)

Previous issue

ue

Table of Contents

Next issue 🔰

OK

Free Access to the whole issue

E3S Web of Conferences

Volume 202 (2020)

The 5th International Conference on Energy, Environmental and Information System (ICENIS 2020)

> Semarang, Indonesia, August 12-13, 2020 B. Warsito, Sudarno and T. Triadi Putranto (Eds.)

Export the citation of the selected articles Export Select all

Open Access

About the conference Published online: 10 November 2020 PDF (24.3 MB)

Open Acces

Statement of Peer review Published online: 10 November 2020 PDF (56.5 KB)

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

 Environmental Policy, Planning and Education 	 Energy and Instruments
 Modelling and Computer Application for Environment 	 Public Health and Epidemiology
 Pollution and Waste Management 	 Industrial and Health Information System
 Green Infrastructure and Resilience 	 Decision Support System
 Socio-Culture and Environment 	 Smart Information System
 Renewable Energy Development 	 Information System for Economic and Business

- Keynote Speaker

Open Access

Faith and development: The role of local religious organization in community change in Papua 01001

Elco van Burg

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020201001

PDF (257.3 KB) References NASA ADS Abstract Service

Open Access

A Geomorphic Framework for the Analysis of Microplastics in Riverine Sediments 01002 OK Jerry Miller and Suzanne M. Orbock Miller Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020201002 PDF (765.0 KB) | References | NASA ADS Abstract Service

Open Access

Life Cycle Thinking for Sustainable Consumption and Production towards a Circular Economy 01003

Shabbir H. Gheewala

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020201003 PDF (696.6 KB) | References | NASA ADS Abstract Service

Open Access

Wetland management: preparing for climate and coastal change using adaptation pathways 01004 Peter Gell

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020201004 PDF (172.1 KB) References NASA ADS Abstract Service

Open Access

Sustainable Development Goals through Energy cooperation in ASEAN 01005

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (724.5 KB) References NASA ADS Abstract Service

Open Access

Oil palm and banana root colonization potential of locally isolated nitrogen-fixing and phosphate-solubilizing bacteria 01006 Then Kek Hoe, Mohamad Roji Sarmidi, Sharifah Shahrul Rabiah Syed Alwee and Zainul Akmar Zakaria Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020201006

PDF (190.6 KB) NASA ADS Abstract Service

Open Access

Every Drop of Water Footprint Counts For Humanity01007Liew Kian Heng and Liew YuqiangPublished online: 10 November 2020DOI: https://doi.org/10.1051/e3sconf/202020201007PDF (1.381 MB)ReferencesNASA ADS Abstract Service

Open Access

COVID-19: challenges and opportunities in Indonesia health sector 01008 Barokah Sri Utami and Pradip Iramdhan Aliyansah Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020201008 PDF (2.720 MB) References NASA ADS Abstract Service

Open Access

Trends in domestic energy use reduction and private renewable energy production 01009 Patrick van Schijndel Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020201009

PDF (168.2 KB) References NASA ADS Abstract Service

- Environmental Technology and Conservation

Open Access

Co-management in mangrove rehabilitation at langkat regency 02001 A.Hadian Pratama Hamzah, Sutrisno Anggoro and Sri Puryono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/20202020201 PDF (573.6 KB) References NASA ADS Abstract Service

Open Access

Identification and conversion rate of rice field in Semarang year 2000-2019 02002

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (1.223 MB) References NASA ADS Abstract Service

Open Access

Fishing pattern and environmentally friendly analysis on mud crab (*Scylla spp.*) fishery in Mojo mangrove ecosystem, Pemalang Regency, Central Java, Indonesia 02003 Trisnani Dwi Hapsari, Azis Nur Bambang, Abdul Ghofar and Aristi Dian Purnama Fitri Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020202003 PDF (339.1 KB) | References | NASA ADS Abstract Service

Open Access

Gentrification Impact to the Community's Quality of Life in Semarang Old Town 02004 Dewi Santy Paulla and Kurniawati Wakhidah Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020202004 PDF (8.363 MB) | References | NASA ADS Abstract Service

Open Access

Development of Food Agriculture Based on Superiority Cultivation Area in Tanjung Api-Api, Banyuasin District 02005 Syuhada A. Umar, M. Edi Armanto, Ari Siswanto and Muhammad Yazid Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/20202020005 PDF (714.7 KB) | References | NASA ADS Abstract Service

Open Access

Coastal Area Management Strategy Through Strengthening Community Capacity in Sumber Jaya Kampung Melayu District Bengkulu City 02006 Titi Darmi, Ledyawati, Novliza Eka Patrisia and Iqbal Miftakhul Mujtahid Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020202006 PDF (963.8 KB) References NASA ADS Abstract Service

Open Access

Determinants of latrine utilization in Munggur Village, Mojogedang District, Karanganyar Regency, Central Java 02007 Nurjazuli Nurjazuli, Tri Joko and Anggi Bela Saputri Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020202007 PDF (220.0 KB) References NASA ADS Abstract Service

OK

Open Access

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/2020202008 PDF (3.486 MB) References NASA ADS Abstract Service

Open Access

Analysis of Ambient Air Quality Conditions of TSP Parameters and Its Source in Temon District 02009

Tozan Ajie Ronowijoyo, Muhammad Arief Budiharjo and Sri Sumiyati Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020202009

PDF (2.684 MB) References NASA ADS Abstract Service

Open Access

Total Maximum Daily Load of the Curug Sub-district Segment of The Cirarab River, Indonesia 02010 Kus Indriyani, Hayati Sari Hasibuan and Misri Gozan

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020202010

PDF (813.1 KB) References NASA ADS Abstract Service

Open Access

Estimating carbon emission of rigid pavement: a case study of Palur Flyover 02011 Jati Utomo Dwi Hatmoko, Subrata Aditama K.A. Uda, Apsari Setiawati and Stefanus Catur Adi Prasetyo Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020202011 PDF (702.7 KB) References NASA ADS Abstract Service

Open Access

Effect of Building Information Modeling (BIM) on reduced construction time-costs: a case study 02012 Moh Nur Sholeh, Shifa Fauziyah and Riqi Radian Khasani

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020202012

PDF (257.3 KB) References NASA ADS Abstract Service

Open Access

Coastal Community Development and Fisheries Resource Management Project (Co-Fish Project) in Tegal of 1998-2005 and Its Impacts on Fishing Communities 02013 Ahmad Faizal Bakhtiar, Yety Rochwulaningsih and Endang Susilowati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020202013 PDF (188.8 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Trawl Elimination: Dilemma Between Fulfilling Needs for Fish and Improving Fisherman Welfare 02014 Sutejo K. Widodo and I. Indriyanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020202014 PDF (236.7 KB) References NASA ADS Abstract Service

Open Access

Educating Higher Education Institutions to Support SDGs: Indonesian Case 02015 Ambariyanto Ambariyanto and Yos Johan Utama Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020202015 PDF (176.7 KB) References NASA ADS Abstract Service

- Environmental Policy, Planning and Education

Open Access

OK

5/56

Assessment sustainable tourism: a literature review composite indicator 03001 Ratna Purwaningsih, Febrina Agusti, Susatyo Nugroho Widyo Pranomo, Aries Susanty and Bambang Purwanggono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203001 PDF (599.6 KB) References NASA ADS Abstract Service

Open Access

 Water Reuse Planning for Fulfilment of Clean Water in Indonesia
 03002

 Wedo Aru Yudhantoro, Suyud Warno Utomo and Dwi Nowo Martono
 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/2020203002
 PDF (324.3 KB)

 References
 NASA ADS Abstract Service

Open Access

Sustainability of *Teredo navalis L* and Environmental Management Strategies in the Pandemic Era COVID-19 03003 Yumima Sinyo, Sutrisno Anggoro and Tri Retnaningsih Soeprobowati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020203003 PDF (396.6 KB) References NASA ADS Abstract Service

Open Access

Development of Ecotourism-Based Strategy: A Case Study of Tinjomoyo Tourism Forest 03004 Novie Susanto, Denny Nurkertamanda, Heru Prastawa and Aditya R Nugraha Published online: 10 November 2020

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Sustainable development goals as a tool for strategic planning in communities: a bibliometric analysis of research 03005

Yuriy Petrushenko, Aleksandrov Vadym, Anna Vorontsova and Oksana Ponomarenko Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020203005

PDF (3.672 MB) References NASA ADS Abstract Service

Open Access

Sustainable Development Strategies For The Hinterland KTM Telang, Banyuasin District, Indonesia 03006 Zulkifli Idrus, Andy Mulyana, M. Edi Armanto, Didik Susetyo, Nurhayati Damiri, Iwan A. Ratmoko, Syuhada A. Umar and Nuryamsasni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020203006 PDF (1.319 MB) | References | NASA ADS Abstract Service

Open Access

Pandemic, SDGs, and CSR: Case Study of Indonesia 03007 Sudharto P Hadi, Hairy Mohd Ibrahim, Prabawani Bulan and Sri Suryoko Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203007 PDF (162.6 KB) References NASA ADS Abstract Service

Open Access

 Development Stage of Tourism Objects in Malang Regency, East Java
 03008

 Khansa Cintya Pradipta Hapsari, M.H. Dewi Susilowati and Ratri Candra Restuti
 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/2020203008
 PDF (2.183 MB)

 References
 NASA ADS Abstract Service

Open Access

Location Characteristics of Accommodation Facilities Selected by Tourists in Surakarta City, Central Java Province 03009 Tristano Edwan Cancer Ananta, M. H. Dewi Susilowati and Ratri Candra Restuti Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020203009

PDF (688.2 KB) References NASA ADS Abstract Service

Open Access

Tourism Suitability, and Carrying Capacity : Prospect Ecotourism (Case Study in Marina Beach Semarang) 03010

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (372.9 KB) References NASA ADS Abstract Service

Open Access

Green Manufacturing Challenge in Small and Medium Industries (SMEs) Batik Laweyan Surakarta 03011 Puspitasari Nia Budi, Yulianto Muhammad Faisal Afa and Rosyada Zainal Fanani Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203011 PDF (566.5 KB) References NASA ADS Abstract Service

Open Access

Sustainability Development Environment: Improving Social Economy in Kalikondang Village, Demak Regency 03012 S Sunarti, Nany Yuliastuti, Lala Arastya Dewi and Putri Sari Bellia Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203012 PDF (1.433 MB) References NASA ADS Abstract Service

Open Access

Fighting against Aridity: Diponegoro University's Environmental Management towards a Green Campus 03013 Tri Handayani, Yety Rochwulaningsih and Singgih Tri Sulistiyono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203013 PDF (270.2 KB) References NASA ADS Abstract Service

Open Access

Socio-Economic Behind TOD in Jakarta 03014 Riza Harmain, Hayati Sari Hasibuan and Ahyahudin Sodri Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203014 PDF (570.4 KB) | References | NASA ADS Abstract Service

Open Access

The Concern of Nature Condition and Ecological Behavior's Practice Among Natural Science Students: Postgraduate Students of School of Environmental Science 03015 Intan Nurul Aini and Hayati Sari Hasibuan Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020203015

PDF (212.1 KB) References NASA ADS Abstract Service

OK

Open Access

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Arief Rahman

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203016 PDF (293.7 KB) References NASA ADS Abstract Service

Open Access

Impoliteness Strategies of Whatsapp Group Speech Community related to Local Government Policy in Handling Covid-19 Virus 03017 Savitri Ayu Ida

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020203017

PDF (226.2 KB) References NASA ADS Abstract Service

Open Access

Judicial Activism in Judge's Verdict to Law Enforcement of Environment 03018 Aju Putrijanti Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203018 PDF (208.3 KB) | References | NASA ADS Abstract Service

Open Access

ENIS Model of Environmental Education for Elementary School Students in Japan 03019 Budi Mulyadi

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020203019 PDF (184.5 KB) References NASA ADS Abstract Service

Open Access

Gender Determinant Factors for Bus Shelter Planning in Sustainable Urban Infrastructure 03020 Landung Esariti, Kharunia Putri, Yudi Basuki and Hadi Wahyono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203020

PDF (1.629 MB) References NASA ADS Abstract Service

Open Access

 COVID-19: The Questions Ahead for Future Pedestrian Ways in Transit Area
 03021

 Anita R. Rakhmatulloh, Diah I Kusumodewi and Djoko Suwandono
 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/2020203021
 PDF (4.769 MB)

 References
 NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

 Pandemic in Indonesia: A Case Study of BRI Microfinance Center
 03022

 Dhayita Rukti Tanaya and Fandis Ekyawan
 03022

 Published online: 10 November 2020
 001: https://doi.org/10.1051/e3sconf/2020203022

 PDF (881.3 KB)
 References

 NASA ADS Abstract Service

Open Access

A New Insight of the Existence of the Environmental Kuznets Curve in Indonesia 03023 Andryan Setyadharma, Shanty Oktavilia, Yayu Tika Atmadani and Indah Fajarini Sri Wahyuningrum Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203023 PDF (234.8 KB) | References | NASA ADS Abstract Service

Open Access

Environmental Consideration For Physical Housing Improvement In Bukit Kencana Jaya Semarang 03024 Landung Esariti and M.D Putri Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203024 PDF (297.8 KB) References NASA ADS Abstract Service

Open Access

OK

9/56

Managing Socio-Economic Problems of the Wetland Environment in South Kalimantan 03025 Yety Rochwulaningsih, Noor Naelil Masruroh, Fanada Sholihah, Sutejo K. Widodo and Susilo Budiyanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203025 PDF (298.4 KB) References NASA ADS Abstract Service

Open Access

Diponegoro University Heading to become a Research University (Phase I – Phase IV) Between Expectation and Reality 03026 Tri Handayani and Daivangga Maheswari Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203026 PDF (357.6 KB) References NASA ADS Abstract Service

The Information Literacy Mapping on Community Empowerment Program in the Coastal Community in Semarang 03027 Ana Irhandayaningsih Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203027 PDF (185.7 KB) References NASA ADS Abstract Service

Open Access

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Iryna Didenko, Kseniia Volik, Tetiana Vasylieva, Serhiy Lyeonov and Nataliia Antoniuk Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203028 PDF (4.288 MB) References NASA ADS Abstract Service

Open Access

The Effect of Quantity and Quality Sustainability Disclosure Towards Innate and Discretionary Earnings Quality 03029

Aditya Septiani and Etna Yuyetta

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020203029

PDF (357.2 KB) References NASA ADS Abstract Service

Open Access

Flood Inundation Mapping of Cempaka Tropical Cyclone Effect in Gunung Sewu Karst Landscape Using Sentinel 1 03030 Ridwan Arif Pambudi, Fitri Riadini, Ari Naldi and Nadya Paramitha Putri Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203030 PDF (1.476 MB) References NASA ADS Abstract Service

Open Access

Convergence trends of environmental taxation in European countries 03031 Alina Vysochyna, Yaryna Samusevych and Liudmyla Starchenko Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020203031 PDF (396.1 KB) References NASA ADS Abstract Service

Open Access

Factors that affect the interest of the manufacturing industries to implement the green industry certification regulation in Indonesia 03032 I Nyoman Mardika Putra, Dwi Nowo Martono and Rahmat Nurcahyo Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020203032

PDF (224.4 KB) References NASA ADS Abstract Service

- Modelling and Computer Application for Environment

Open Access

Determination of the original coastline on Semarang city and Demak district using remote sensing approach 04001

Ignatius Sriyana, John Bosco Niyomukiza, Sri Sangkawati and Sri Kumala Parahyangsari Published online: 10 November 2020

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on some pages, cookies from social networks. More information and setup

Open Access

Master Recession Curve (MRC) analysis to characterize karst aquifers of several springs in the north side of the Karangbolong (Gombong) karst area 04002 Aulia Ika Rahmawati, Alpine Prima Priambada, Muhammad Qodri Al-Ghozali, Danang Riza Fauzi, Tjahyo Nugroho Adji, Andy Setyawan, Danung Shodikh Mahrizkhal, Romza Fauzan Agniy, Afid Nurkholis, Ahmad Cahyadi et al. (2 more) Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020204002 PDF (2.704 MB) | References | NASA ADS Abstract Service

Open Access

 DInSAR based land deformation detection in the karst landscape of Gunung Sewu
 04003

 Ridwan Arif Pambudi and Rijali Isnain Haripa
 04003

 Published online: 10 November 2020
 001: https://doi.org/10.1051/e3sconf/202020204003

 PDF (864.7 KB) | References | NASA ADS Abstract Service
 04003

Open Access

OK

11/56

Temporal Variation of Tropical Karst Groundwater Suitability for Irrigation in Gremeng Resurgence, Gunungsewu Karst Area, Indonesia 04004 Ahmad Cahyadi, Tjahyo Nugroho Adji, Eko Haryono, M Widyastuti, Adityas Pradana Kusuma Aji, Muhammad Naufal and Indra Agus Riyanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020204004 PDF (1.399 MB) References NASA ADS Abstract Service

Open Access

Tissue Preservation Index (TPI) and Gelification Index (GI) with the Quality of Coal as well as the Connection to the Acid Water Mining 04005 Muhammad Ilham Fatkhurrahman, Dian Agus Widiarso, Devina Trisnawati, Ahmad Zaki Romi and dan Arya Gustifram Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020204005 PDF (978.1 KB) References NASA ADS Abstract Service

Open Access

The Influence of Land Use To River Water Quality Level by Using The Water Quality Index Of National Sanitation Foundation (WQI-NSF) Method (Case Study: Klampok River, Semarang District) 04006 Winardi D Nugraha, Mohammad Rafif D Cahyo and Nurandani Hardyanti Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020204006

OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Determining groundwater facies and water quality index in Tanah Bumbu Regency/South Borneo Indonesia 04007

Thomas Triadi Putranto and Rahmad S. Ginting

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020204007

PDF (1.693 MB) References NASA ADS Abstract Service

Open Access

Analysis of The Impact of Industrial Activities Towards River Vacancy Viewed from BODS, CODS, and TSS Using The QUAL2KW Software Method Approach (Case Study: Klampok River, Semarang District) 04008

Nurandani Hardyanti, Winardi D Nugraha and Vito Edgar S B

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020204008

PDF (382.3 KB) References NASA ADS Abstract Service

- Pollution and Waste Management

Open Access

Challenges and Opportunities in implementing leachate recirculation in Indonesia: technica, aspects 05001

Wiharyanto Oktiawan, Ika Bagus Priyambada and Purwono Purwono Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205001 PDF (176.5 KB) References NASA ADS Abstract Service

Open Access

Study of Duck Feather Modification using NaOH to Removal Iron in Acid Mine Drainage (AMD) 05002

Umi Baroroh Lili Utami, Susanto Heru and Bambang Cahyono

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205002

PDF (543.8 KB) References NASA ADS Abstract Service

Open Access

Nickel slag waste utilization for road pavement material as strategy to reduce environmental pollution 05003 Iwan Susanto, Rulli Ranastra Irawan and Dani Hamdani

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205003

PDF (846.7 KB) References NASA ADS Abstract Service

Open Access

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on some pages, cookies from social networks. More information and setup

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205004 PDF (373.3 KB) References NASA ADS Abstract Service

Open Access

Reduction of Marine Bivalve Mollusc (*Anadara granosa*) using Impressed Current Anti Fouling (ICAF) to Prevent the Biofouling 05005 Herman Pratikno, Harmin Sulistiyaning Titah, Handayanu and Moontera Priyanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020205005 PDF (413.8 KB) References NASA ADS Abstract Service

Open Access

Removal of Ammonia Nitrogen by Activated Sludge Process Using Simultaneous Nitrification Denitrification Method 05006 Junaidi, Sri Sumiyati and Ronauli Sitinjak Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020205006 PDF (747.3 KB) References NASA ADS Abstract Service

Open Access

Enhancement Biosorption of Activated Sludge Process on Heavy Metals: Cadmium (Cd) And Nickel (Ni) 05007 Junaidi, Mochtar Hadiwidodo and Andra Octora Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020205007 PDF (518.9 KB) References NASA ADS Abstract Service

Open Access

Development of Andesite Utilization in Gunung Ragas, Clering, Jepara, in the Industrial Sector Based on Petrological and Geochemical Data Analysis 05008 Dian Agus Widiarso, Roynaldo Lumbanbatu, Vergania Nurlita Putri and Jenian Marin Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020205008 PDF (2.678 MB) References NASA ADS Abstract Service

The Ability of *Avicennia marina* to Uptake Ions of Sodium and Chloride in Reed Bed System Reactor 05009

Harmin Sulistiyaning Titah, Ipung Fitri Purwanti, Herman Pratikno, Rachmi Layina Chimayati, Handayanu, Siti Rozaimah Sheikh Abdullah and Nur 'Izzati Ismail Published online: 10 November 2020

Open Access

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Field Evaluation of Hydrologic and Water Quality Benefits of Perforated Paving Block Structure (P2BS) 05010

Suripin S, Sachro Sri Sangkawati, Atmojo Pranoto Samto, Edhisono Sutarto, Kurniani Dwi and Budieny Hery Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205010

PDF (656.5 KB) References NASA ADS Abstract Service

Open Access

Legal Liability of Automatic Instrument Results in Environmental Laboratory Analysis 05011 Yusi Luluk Rahmania, W. Widayat and Pesona Person Renta Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205011

PDF (347.3 KB) References NASA ADS Abstract Service

Open Access

The Use of Webgis as an Implementation of Smart Sustainable Cities Concept in Parepare City, South Sulawesi 05012 Mulyawan, Hayati Sari Hasibuan and Ahyahudin Sodri

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205012

PDF (1.193 MB) References NASA ADS Abstract Service

Open Access

Assesment Work Fatigue To Workers In Environment Underground Mining Areas Based On Fatigue Assesment Scale Questionnaires 05013 Siti Rachmawati, Miftaqul Aktsari, Anis Suryaningsih, Hashfi Hawali Abdul Matin and Iwan Suryadi

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205013

PDF (204.5 KB) References NASA ADS Abstract Service

Open Access

The Analyze of Collaborative Management Perspective of Petungkriyono Forest 05014 Irma Damayanti, Azis Nur Bambang and T. Soeprobowati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020205014 PDF (815.8 KB) References NASA ADS Abstract Service

Open Access

The Customer Satisfaction of the Drinking Water in the Coastal of Semarang and the Risk Management 05015

Budiyono Budiyono, Citrandy Pamungkas and Yusniar Hanani Darundiati

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Literature review: The contribution of mangrove ecosystem condition to mosquito population 05016 Arum Siwiendrayanti, Sutrisno Anggoro and Nurjazuli Nurjazuli Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020205016

PDF (222.4 KB) References NASA ADS Abstract Service

Open Access

Potential of Bioaerosol Emission in The Green House Laboratory and Research Laboratory at Environmental Engineering Department 05017 H S Huboyo, M Hadiwidodo and B S Ramadan Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020205017 PDF (233.6 KB) References NASA ADS Abstract Service

Open Access

 Water Quality and Pollution Index of Kreo and Garang River from Jatibarang Landfill in
 OI

 Semarang City
 05018

 Wardani Adi Saputra, Onny Setiani and Mursid Rahardjo
 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/2020205018
 PDF (714.4 KB) | References | NASA ADS Abstract Service

Open Access

Water quality assessment based on microbiological parameter indicators for drinking water criteria on the Wadaslintang Reservoir 05019 Diana R. U. S. Rahayu, Sutrisno Anggoro and Tri R. Soeprobowati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020205019 PDF (822.5 KB) | References | NASA ADS Abstract Service

Open Access

Plastic Industry and World Environmental Problems 05020 Shanty Oktavilia, Mita Hapsari, Firmansyah, Andryan Setyadharma and Indah Fajarini Sri Wahyuningsum Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/2020205020

PDF (261.5 KB) References NASA ADS Abstract Service

Open Access

OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/2020205021 PDF (1.648 MB) References NASA ADS Abstract Service

PDF (634.6 KB) References NASA ADS Abstract Service

Open Access

Water Pollution Index (WPI) and Incidence of Diarrhea Among Children Under Five Years Old in Coastal Area of Semarang City, Indonesia 05022 Fatimatuzzahro, Mursid Raharjo and Nurjazuli Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020205022

- Green Infrastructure and Resilience

Open Access

An Environmental Study on the Paid Plastic Bag Use Policy in the city of Semarang 06001 Muhammad Muslihun, Didi Dwi Anggroro and Kismartini K Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206001 PDF (220.9 KB) References NASA ADS Abstract Service

Open Access

Community participation in conservation of petungkriyono protected areas in pekalongan district 06002

Marthalia Woelansari, Maryono Maryono, Fuad Muhammad, M. Arief Rahman Halim and Agus Setyawan Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206002

PDF (202.6 KB) References NASA ADS Abstract Service

Open Access

Decision Support System for Determining Critical Land in Klaten Regency 06003 Yudi Eko Windarto, Nurhadi Bashit, Novia Sari Ristianti, Desyta Ulfiana and Devina Trisnawati Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206003 PDF (346.6 KB) References NASA ADS Abstract Service

Open Access

A Review of Carbon dots (CDs) Application in Sensing and Removing Medical Waste 06004 Ilham Alkian, Heri Sutanto, Bella Aprimanti Utami, Inten Rafika Duri, Dewi Qurrota A'yuni and H Hadiyanto Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206004

PDF (294.9 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Semarang, Indonesia 06005 Rizkiana S. Hamdani, Sudharto P. Hadi, Iwan Rudiarto and Hartuti Purnaweni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206005 PDF (1.542 MB) | References | NASA ADS Abstract Service

Open Access

The biological treatment method for landfill leachate 06006 Siti Ilhami Firiyal Imtinan, P. Purwanto and Bambang Yulianto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206006 PDF (200.2 KB) | References | NASA ADS Abstract Service

Open Access

Escalate groundwater potential for acquiring sustainability and resilience in Pekalongan City, Indonesia – a review 06007 Asri Cahaya Hati, Thomas Triadi Putranto, Hadiyanto and Mochamad Arief Budihardjo Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206007 PDF (1.120 MB) | References | NASA ADS Abstract Service

Open Access

Community preparedness toward flood during Covid-19 pandemic at Pekalongan City and Regency 06008 Gardena Smoro Laksmi, Iwan Rudiarto and Yanuar Luqman Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206008 PDF (187.1 KB) References NASA ADS Abstract Service

Open Access

Geospatial distributions of organochlorine insecticide in shallot agriculture land at Wanasari sub-district, Brebes regency, Central Java, Indonesia 06009 Poniman, Tri Retnaningsih Soeprobowowati and Muhammad Helmi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206009 PDF (338.1 KB) References NASA ADS Abstract Service

Open Access

Geospatial model of organophosphate insecticide residues in shallot land in Wanasari Subdistrict, Brebes Regency, Central Java Province, Indonesia 06010 Indratin, Mochamad Arief Budihardjo and Muhammad Helmi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206010

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

U Open Access

Human and long-tailed macaque conflict in Central Java, Indonesia 06011 Wahyuni Fitria, Azis Nur Bambang and Jafron Wasiq Hidayat Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206011 PDF (281.1 KB) | References | NASA ADS Abstract Service

Open Access

Sampling methods of microplastics in freshwater and seawater envionment 06012 Amnan Haris, Hadiyanto Hadiyanto and Fuad Muhammad Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206012 PDF (202.4 KB) References NASA ADS Abstract Service

Open Access

Challenges of private forests management in Cluwak sub-district, Pati regency, Indonesia 06013

Andi Kurniawan, Jafron Wasiq Hidayat and Amirudin Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206013

PDF (1.099 MB) References NASA ADS Abstract Service

Open Access

Grebeg Susuk Wangan: a river conservation based on local wisdom in Gondang Village, Kendal Regency 06014 Anis Qomariah, Hendri Setiawan, Hartuti Purnaweni and Joesron Ali Syahbana Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206014

PDF (159.4 KB) References NASA ADS Abstract Service

Open Access

Life Cycle Assessment and Energy Efficiency from Industry of Plastic Waste Recycling 06015 Vita Rosmiati and Hadiyanto

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206015

PDF (521.0 KB) References NASA ADS Abstract Service

Open Access

Mangrove management strategy to support fisheries in Mangunharjo Village, Semarang City 06016

Irene Natalia Siahaan, Jafron Wasiq and Kismartini

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206016

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Medical waste management at community health center: a literature review 06017 Arifah Wulansari, Sudarno and Fuad Muhammad Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206017 PDF (203.0 KB) References NASA ADS Abstract Service

Open Access

Microplastic pollution from sea salt: its effect on public health and prevention alternatives - a review 06018 Nilawati, Sunarsih and Sudarno Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206018 PDF (254.0 KB) References NASA ADS Abstract Service

Open Access

OK

19/56

Monitoring of water quality in Ciujung river using remote sensing and GIS 06019 Shofiyatul Afidah, Sutrisno Anggoro and Sudarno Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206019 PDF (601.2 KB) References NASA ADS Abstract Service

Open Access

Up Flow Anaerobic Sludge Blanket (UASB) In The Paper Industry 06020 Inun Setyani, Mochamad Arief Budihardjo and Fuad Muhammad Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206020 PDF (221.5 KB) References NASA ADS Abstract Service

Open Access

Structuring urban slum areas based on social enrichment in Gumelem Village 06021 Inayati Safitri, Nany Yuliastuti and Maryono Maryono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206021 PDF (236.1 KB) References NASA ADS Abstract Service

Open Access

A review on pathogenic bacteria that potentially threaten the environment of aquaculture: controlling and aquaculture sustainability in Pontang, Serang 06022 Atik Lestantun, Sutrisno Anggoro and Bambang Yulianto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206022 PDF (155.9 KB) References NASA ADS Abstract Service

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Tembalang campus 06023

Nararya Adi Prasetya, P. Purwanto and Maryono Maryono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206023 PDF (564.2 KB) References NASA ADS Abstract Service

Open Access

Rice husk as renewable energy for biogas production from biomass: prospect and challenges 06024

Ayudya Izzati Dyah Lantasi, Syafrudin and Budiyono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206024

PDF (275.8 KB) References NASA ADS Abstract Service

Open Access

Selecting The New Government Centre of Brebes Regency to Increase the Local Development Equity 06025 Hadi Wahyono and Sariffuddin Sariffuddin

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206025 PDF (703.0 KB) | References | NASA ADS Abstract Service

Open Access

Solid waste management in the paper industry 06026 Isabella Devichi Wibowo, P. Purwanto and S. Suherman Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206026 PDF (201.6 KB) References NASA ADS Abstract Service

Open Access

Tidal flooding and coastal adaptation responses in Pekalongan City 06027 Andrea Ramadhani Maharlika, Sudharto Prawata Hadi, Kismartini and Ade Lenty Hoya Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206027 PDF (719.2 KB) | References | NASA ADS Abstract Service

Open Access

Flood risk spatial index analysis in the coastal Pekalongan, Central Java, Indonesia 06028 Ratna Mustika Anindita, Indah Susilowati and Fuad Muhammad Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206028

PDF (447.9 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Units (Case Study: Kallori District, Rembang Regency) 06029 Theresia Vika Ayuningrum and Hartuti Purnaweni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206029 PDF (240.4 KB) References NASA ADS Abstract Service

Open Access

Study of The Use of Biogas Into Electrical Energy by The Farmer Group Dulur Ganjar, Langse Village, Margorejo District, Pati Regency, Central Java 06030 Kurniawan Puspito Aji and Azis Nur Bambang Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206030 PDF (193.5 KB) References NASA ADS Abstract Service

Open Access

Scheduled Faecal Sludge Service (SFSS) for Sustainable Faecal Sludge Management in Cilacap 06031 Agus Sudrajat, Sudarno and Yanuar Luqman Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206031 OK PDF (295.0 KB) References NASA ADS Abstract Service

Open Access

OK

21/56

Vegetation resilience to absorbing carbon dioxide emissions in the Gajahmada Street 06032 Miftachurahma Widanirmala, Maryono Maryono and Fuad Muhammad Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206032 PDF (229.0 KB) | References | NASA ADS Abstract Service

Open Access

The implementation of administrative sanctions as an instrument of environmental law enforcement in Semarang City- a review 06033 Dewi Fatmawaty, Hartuti Purnaweni and Yanuar Luqman Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206033 PDF (273.2 KB) References NASA ADS Abstract Service

Open Access

Sensitivity index of flood and tidal flood in Pekalongan City and Regency 06034 Halimatus Sa'diyah, Imam Buchori and Amirudin Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206034 PDF (182.1 KB) References NASA ADS Abstract Service

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Nany Yuliastuti and Ragil Haryanto

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206035 PDF (213.7 KB) References NASA ADS Abstract Service

Open Access

The Mapping of Land Use Using Object-Based Image Analysis (OBIA) in Klaten Regency 06036 Nurhadi Bashit, Novia Sari Ristianti, Yudi Eko Windarto and Desyta Ulfiana Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206036

PDF (1.166 MB) References NASA ADS Abstract Service

PDF (624.6 KB) References NASA ADS Abstract Service

Open Access

Assessment of sedimentation rates in the Way Seputih Watershed Area 06037 Hendri Setiawan, Iwan Rudiarto and Jafron Wasiq Hidayat Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206037

Open Access

The role of waste banks in reducing waste in Gunung Kidul Regency 06038 Devita Faradina, Maryono Maryono and Budi Warsito Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020206038 PDF (201.7 KB) References NASA ADS Abstract Service

Open Access

Water quality assessment and control efforts use the pollution index method in the Sikendil river 06039 Ade Lenty Hoya, Yuliastuti Nany, Sudarno Utomo and Andrea Ramadhani Maharlika

Published online: 10 November 2020

- DOI: https://doi.org/10.1051/e3sconf/202020206039
- PDF (932.3 KB) References NASA ADS Abstract Service

Open Access

Water quality condition of Sani river as source of drinking water of PDAM Tirta Bening in Pati Regency 06040

Evta Rina Mailisa, Bambang Yulianto and Budi Warsito

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020206040

PDF (381.0 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Semarang 06041

Rina Kurniati, Wakhidah Kurniawati, Diah Intan Kusumo Dewi, Annisa Sarasadi and Endah Kartika Syahri Published online: 01 December 2020 DOI: https://doi.org/10.1051/e3sconf/202020206041 PDF (633.8 KB) References NASA ADS Abstract Service

Open Access

Excellent Commodity of Capture Fisheries and Preservation of Fish Resources in Pekalongan City 06042 Azis Nur Bambang, Imam Triarso and Abdul Kohar Muzakir Published online: 01 December 2020 DOI: https://doi.org/10.1051/e3sconf/202020206042 PDF (301.1 KB) References NASA ADS Abstract Service

Open Access

Silvofishery as an alternative system of sustainable aquaculture in mororejo village, kendal regency 06043 Woro Kusumaningtyas Perwitasari, Fuad Muhammad and Jaffran Wasiq Hidayat Published online: 01 December 2020 DOI: https://doi.org/10.1051/e3sconf/202020206043 PDF (393.6 KB) References NASA ADS Abstract Service

Open Access

 Strategies for Revitalisation of Semarang Heritage Area: a Stakeholders Perspective
 06044

 Ferry Hermawan, Kinan Kartika Sani and Bambang Purwanggono
 Published online: 01 December 2020

 DOI: https://doi.org/10.1051/e3sconf/202020206044
 PDF (421.8 KB)

 References
 NASA ADS Abstract Service

- Socio-Culture and Environment

Open Access

Religion and Water Preservation: Tradition Studies Nahdhatul Ulama (NU) in Earth Alms in Daren Village Nalumsari Jepara 07001

Alamsyah

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207001

PDF (352.3 KB) References NASA ADS Abstract Service

Open Access

Arts and Environmental Conservation: Study of *Kentrung* Art in Jepara 07002 Alamsyah and Siti Maziyah Published online: 10 November 2020

Ok

OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Pirates and the Environment: Bajo Tribe Study in Marine Conservation 07003 Agustinus Supriyono, Alamsyah and Mualimin Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207003 PDF (181.8 KB) | References | NASA ADS Abstract Service

Open Access

Covid Economic Policy and Media Response: an Analysis of Culture and Media Content 07004 Amirudin Amirudin and Agus Subiyanto Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207004

PDF (240.1 KB) References NASA ADS Abstract Service

Open Access

Environmental Themes in *Gendhing-Gendhing* Ki Nartosabdho and Its Dissemination 07005 Dhanang Respati Puguh, Rabith Jihan Amaruli and Mahendra Pudji Utama Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207005

PDF (240.7 KB) References NASA ADS Abstract Service

Open Access

Family Formation, Career Development, and Patriarchal Culture Hegemony: Study of Career Rhythms of Female Lecturers in Diponegoro University 07006

Setyadi Ary and Suyanto

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207006

PDF (248.1 KB) References NASA ADS Abstract Service

Open Access

Family Responsibilities and Career Rhythms for Female Lecturers of Diponegoro University: Patriarchal Culture Hegemony 07007 Suyanto and Setyadi Ary

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207007

PDF (193.7 KB) References NASA ADS Abstract Service

Open Access

Facing the New Era of Local Tourism: Identifying the Tomb of Sayid Luhung Alwi for Developing Religious Tourism in Semarang 07008 Rabith Jihan Amaruli and Paramitha Zada Claudia Published online: 10 November 2020

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on some pages, cookies from social networks. More information and setup

Open Access

Maritime-Agricultural Communities: Leadership and Independence System of Javanese Village Communities in the Past 07009 Sutejo K. Widodo Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207009 PDF (222.4 KB) References NASA ADS Abstract Service

Open Access

Satire in *Le familie de kere*: A Reflection of Urban Society 07010 Hiqma Nur Agustina Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207010 PDF (162.4 KB) References NASA ADS Abstract Service

Open Access

OK

25/56

Community's Social Construction on Covid-19 Patients with Supervision in Surakarta Indonesia 07011 Argyo Demartoto, Yuyun Sunesti, Bagus Haryono and Aris Arif Mundayat Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207011 PDF (237.3 KB) References NASA ADS Abstract Service

Open Access

The Existence of Jipang Village as a Collective Builder Cepu Community in Blora Regency 07012 Sukarjo Waluyo and Redyanto Noor Ary Setyadi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207012 PDF (724.8 KB) | References | NASA ADS Abstract Service

Open Access

Atur Pasrah and Panampi in Javanese Wedding Ceremony as a Way to Preserve Harmonious Social Environment 07013 Utari Listiyani and Amirudin Amirudin Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207013 PDF (207.6 KB) | References | NASA ADS Abstract Service

```
Open Access
```

The Paradox of *Juluk Adek Adat Pepadun Megou Pak Tulangbawang* Ritual Related to Restructuring Social Environtment 07014

ОK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (502.4 KB) References NASA ADS Abstract Service

Open Access

The Representation of Human and Nature Relations in the Spell of *"Poan Dorong Dopeq"* 07015

Nurul Khasanah and Nurhayati

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207015

PDF (277.2 KB) References NASA ADS Abstract Service

Open Access

Ecolinguistics in the Cultural Acculturation of the Northern Coastal Communities of Central Java 07016 Riris Tiani

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207016 PDF (186.0 KB) References NASA ADS Abstract Service

Open Access

The Language Variety and the Meaning of Javanese Culture in the Event of *Tantingan* and *Tebus Kembar Mayang* in the Night of *Midodareni* 07017 Hanif Magfiroh and Agus Subiyanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207017 PDF (244.9 KB) References NASA ADS Abstract Service

Open Access

Communication Patterns of *Sendhang Si Dhukun* as a Javanese Symbol to Balance Javanese Ideology and their Social Environment 07018 Zindi Nadya Wulandari and Prihantoro

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207018

PDF (230.2 KB) References NASA ADS Abstract Service

Open Access

The harmonious relationship between human beings and nature in traditional song lyric during sintren ritual 07019

Siti Ayu Masthuroh and Prihantoro

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207019

PDF (275.2 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on some pages, cookies from social networks. More information and setup

Siswo Harsono

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207020 PDF (751.4 KB) References NASA ADS Abstract Service

Open Access

Tradition and belief in *Kegelisahan Madu* 07021 Hiqma Nur Agustina Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207021 PDF (163.9 KB) References NASA ADS Abstract Service

Open Access

The Value and Symbol of Traditional Snack in Chinatown Gang Baru Semarang07022Oktiva Herry Chandra and Catur KepiriantoPublished online: 10 November 2020DOI: https://doi.org/10.1051/e3sconf/2020207022PDF (195.6 KB) | References | NASA ADS Abstract Service

Open Access

Javanese Culture Maintenance at Dhoplang Traditional Culinary Market, Wonogiri, to Support Plasticless Society 07023 Wiwiek Sundari Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207023 PDF (204.9 KB) References NASA ADS Abstract Service

Open Access

Good Practices for Strengthening the Social Capital of Village Communities by House Renovation Activities 07024 Sutejo K. Widodo and Yurika Ayu Nestapa Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207024 PDF (156.0 KB) References NASA ADS Abstract Service

Open Access

Meaning and Function of Sea Alms Ceremony for Coastal Communities Banyutowo Dukuhseti Pati 07025 Laura Andri R.M.,S.S.,M.A. and Rahma Wulan S. Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207025 PDF (169.2 KB) References NASA ADS Abstract Service

OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Queen Kalinyamat in North Jepara 07026 Laura Andri R.M.,S.S.,M.A. and Rahma Wulan S Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207026 PDF (189.3 KB) References NASA ADS Abstract Service

Open Access

Dukuhseti Pati in Literature and Social Reality: A Perception About Women 07027 Laura Andri Retno M and Khotibul Umam Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207027 PDF (168.8 KB) References NASA ADS Abstract Service

Open Access

Minapadi Trend, Need and Sustainability in Indonesia 07028 Zaenal Arifim Siregar, Sutrisno Anggoro, Hari Eko Irianto and Hartuti Purnaweni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207028 PDF (256.7 KB) References NASA ADS Abstract Service

OK

29/56

Open Access

The influence of waters environment on the existence of Martapura port in Banjarmasin, South Kalimantan 07029

Endang Susilowati

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207029 PDF (1.493 MB) | References | NASA ADS Abstract Service

Open Access

Story Meaning in *Warera no Jidai no Fuukoroa -Koodo Shihon Shugi Zenshi* by Murakami Haruki 07030 Zaki Ainul Fadli Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207030 PDF (258.6 KB) References NASA ADS Abstract Service

Open Access

Transformation of *Panglima Laot* in Aceh: From *Punggawa* to Customary Institution 07031 Mahendra Pudji Utama, Yety Rochwulaningsih, Singgih Tri Sulistiyono and Mujiburrahman Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207031

PDF (218.9 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Lidya Sartika D Putri and Agus Subiyanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207032 PDF (470.4 KB) References NASA ADS Abstract Service

Open Access

The Combination of Natural Elements and Characteristic of Javanese Women in the Lexicon of the Traditional Household Equipment 07033 M. Suryadi, Riris Tiani and Hana Faza Surya Rusyda Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207033 PDF (198.3 KB) | References | NASA ADS Abstract Service

Open Access

Lingual Form of Unifier of Social Harmony Javanese Coastal Community in Semarang 07034 M. Suryadi, Sri Puji Astutii, Hendarto Supatra and Hana Faza Surya Rusyda Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207034 PDF (210.4 KB) References NASA ADS Abstract Service

Open Access

Adat Movements for Environmental Justice: the Case of Benoa Bay Bali 07035 Slamet Subekti, Singgih Tri Sulistiyono and Dedi Adhuri Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207035 PDF (241.3 KB) References NASA ADS Abstract Service

Open Access

Job Shift of The Indonesian International Return Migrant in Central Java Province 07036 Suyanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207036 PDF (245.8 KB) References NASA ADS Abstract Service

Open Access

Rejection of the Medical Personnel Funeral of Covid 19 Victim in Sewakul sub-Village, Semarang District: A Critical Discourse Analysis 07037 M Muzakka, Suyanto and Mujid Farihul Amin Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207037 PDF (242.2 KB) References NASA ADS Abstract Service OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Fajria Noviana

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207038 PDF (204.8 KB) References NASA ADS Abstract Service

Open Access

The Multiplier Effects of Waste Management in RT-07 of Guntung Village, In Bontang, East Kalimantan, Indonesia 07039 Sri Djuwani Ekowati, Sudharto P Hadi and Dwi P Sasongko Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207039 PDF (223.4 KB) References NASA ADS Abstract Service

Open Access

Zine as a Media of Subculture and Literacy in Semarang 07040 Khothibul Umam and Gregorius Tri Hendrawan Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207040 PDF (195.4 KB) References NASA ADS Abstract Service

Open Access

Arab Symbols in Coastal Communities for the Development of Multicultural Environment in Semarang 07041 Rabith Jihan Amaruli, Singgih Tri Sulistiyono, Endang Susilowati and Dewi Yuliati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207041 PDF (356.3 KB) References NASA ADS Abstract Service

Open Access

Coastal Ecosystem as Salt Production Centre in Indonesia 07042 M. Zaki Mahasin, Yety Rochwulaningsih and Singgih Tri Sulistiyono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207042 PDF (283.2 KB) References NASA ADS Abstract Service

Open Access

Foreign Language Learning, Environment, and their Influence on Moslem Teenage Learners' Identity 07043 Dwi Wulandari and Afif Noor Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207043 PDF (224.0 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

 Bangun I.R. Harsritanto, Dessy Oktavia, Mira Annisa Rezeki and Hermin Werdiningsih

 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/202020207044

 PDF (2.931 MB)
 References

 NASA ADS Abstract Service

Open Access

Preservation of Cultural Identity through Speech Components in the Southern Coastal Java Environment 07045 Riris Tiani Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207045 PDF (154.0 KB) | References | NASA ADS Abstract Service

Open Access

Coastal Environmental Change and the Salt Farmer Marginalization in Kusamba, Bali 07046 Mujiburrahman, Yety Rochwulaningsih, Singgih Tri Sulistiyono and Mahendra Pudji Utama Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207046 PDF (243.2 KB) | References | NASA ADS Abstract Service

Open Access

OK

31/56

Tracing the Notion of Rural Environmental Development Concept by M. Saleh Lahade, South Sulawesi in 1950s 07047 La Malihu, Yety Rochwulaningsih and Dhanang Respati Puguh Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207047 PDF (189.3 KB) References NASA ADS Abstract Service

Open Access

Environmental Influences on Trade Activities in the 19th Century East Coast Sumatra 07048 Saparudin Barus, Singgih Tri Sulistiyono, Yety Rochwulaningsih and Endang Susilowati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207048 PDF (180.6 KB) References NASA ADS Abstract Service

Open Access

Socio Cultural Reactions Before the Nationalitation of Dutch Railroad in Indonesia 1945-1958 07049 Waskito Widi Wardojo, Singgih Tri Sulistiyono, Endang Susilowati and Yety Rochwulaningsih Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207049 PDF (346.7 KB) References NASA ADS Abstract Service

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Nature 07050

Suwarno Peter and Nurhayati Nurhayati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207050 PDF (242.1 KB) | References | NASA ADS Abstract Service

Open Access

Metaphysic Dimension in Labuhan Ceremony of Yogyakarta Palace 07051 Sri Sudarsih

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207051

PDF (238.0 KB) References NASA ADS Abstract Service

Open Access

The Improvement of Production Process Impact in Furniture Industry Toward Circular Economy 07052 Purnawan Adi Wicaksono and Choirunisa Ahmad Kadafi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207052 PDF (395.6 KB) | References | NASA ADS Abstract Service

Open Access

Gender Inequality in Japanese Fairy Tales with Female Main Character 07053 Fajria Noviana Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207053

PDF (249.0 KB) References NASA ADS Abstract Service

Open Access

Getting to know japan: an age-friendly environment country 07054 Sriwahyu Trahutami and Maharani Patria Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207054 PDF (165.9 KB) References NASA ADS Abstract Service

Open Access

The Concept of Justice in People's Lives According To Teilhard de Chardin Contributes To The Strengthening of The Character of The Younger Generation In Indonesia 07055 Sri Sudarsih Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207055

PDF (167.5 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

E3S Web of Conferences

 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/202020207056

 PDF (2.115 MB)

 References

 NASA ADS Abstract Service

Open Access

Natural Motifs on Jepara Batik Products: Symbols of environmental awareness 07057 Siti Maziyah and Alamsyah Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207057 PDF (4.454 MB) References NASA ADS Abstract Service

Open Access

Conservation Of Javanese Cultural Haritage As Strategy To Strengthen The Nation Characterand Maintain The Local Wisdom (Case Study Lagu Dolanan Anak) 07058 Muhammad Abdullah and Merya Anggraeni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207058 PDF (154.5 KB) References NASA ADS Abstract Service

Open Access

OK

33/56

Cultural Trends In Development Of Science And Technology In Indonesia And The Role Of Philosophy To Overcome It (Pancasila In Action) 07059 Iriyanto Widisuseno Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207059 PDF (158.4 KB) References NASA ADS Abstract Service

Open Access

Culture and Environment of the End 19th Century Jepara Society Religious Character formers R.A. Kartini 07060 Siti Maziyah and Melly Dwi Trivia Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207060 PDF (192.1 KB) References NASA ADS Abstract Service

Culture as a Javanese Language Retention Strategy for Women's Society in Klaten, Central Java 07061 Suharyo Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207061 PDF (242.7 KB) | References | NASA ADS Abstract Service

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

OK

Open Access

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Reny Wiyatasari

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207062 PDF (196.2 KB) References NASA ADS Abstract Service

Open Access

Early Childhood Character Education in Japan 07063 Budi Mulyadi Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207063

PDF (218.1 KB) References NASA ADS Abstract Service

Open Access

Entrepreneurship Empowerment of UMKM Diversity Growth in Cultural Environment Semarang 07064 Sri Indrahti and Fildza Andita Meirina Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207064 PDF (2.599 MB) References NASA ADS Abstract Service

Open Access

Entrepreneurship spirit to survive on culture and environmental development in Jepara, Indonesia 07065

Sri Indrahti and Bintang Andini

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207065

PDF (1.315 MB) References NASA ADS Abstract Service

Open Access

Research-based language learning through framing analysis as an effort to change the culture of learning 07066

Suharyo

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207066

PDF (164.2 KB) References NASA ADS Abstract Service

Open Access

Fish Traders of Tambaklorok 07067 Nurdien H. Kistanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207067 PDF (145.8 KB) | References | NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

(Gramsci Hegemony Study) 07068 Fajrul Falah Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207068 PDF (183.0 KB) References NASA ADS Abstract Service

Open Access

Impoliteness Strategies of Whatsapp Group Speech Community related to Local Government Policy in Handling Covid-19 Virus 07069 Savitri Ayu Ida Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207069 PDF (221.4 KB) | References | NASA ADS Abstract Service

Open Access

Java and Outer Island: Economic Inequality and Inter-Island Shipping Policy in Indonesia Until the 1960s 07070 Haryono Rinardi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207070 OK PDF (570.2 KB) | References | NASA ADS Abstract Service

Open Access

Javanese Language Maintenance Based on Sociocultural Approach (A Case Study on Women in Rembang, Central Java) 07071 Suharyo and Nurhayati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207071 PDF (167.9 KB) | References | NASA ADS Abstract Service

Open Access

Muen Shakai: The Fading of Traditional Values Amidst Modernization of Japanese Society 07072 Yuliani Rahmah Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207072

PDF (187.3 KB) References NASA ADS Abstract Service

Open Access

Omamori: Harmonization of Humans and Their Environment in Cultural Symbols 07073 Yuliani Rahmah Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207073

OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

The Role of Children's Games in Shaping the Character of Group Communities in Japan 07074 Lina Rosliana, Arsi Widiandari and Fithyani Anwar Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207074

PDF (163.5 KB) References NASA ADS Abstract Service

Open Access

Pirates and Environmental Conservation Around Malacca Strait 07075 Supriyono, Agustinus, Mualimin and Alamsyah Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207075 PDF (222.6 KB) References NASA ADS Abstract Service

Open Access

Potential of Urban Kampong Area as a Tourism Destination (Case Study: Kampong Jayengan Surakarta) 07076 Rina Kurniati, Parfi Khadiyatna and Josephin Fenatama Angel Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207076 PDF (539.1 KB) References NASA ADS Abstract Service

Open Access

Errors And Competencies In Speaking Indonesian Language Students Of Diponegoro University, Semarang, Indonesia 07077 Suharyo, Muhammad Suryadi, Sri Puji Astuti and Patricia Ruth Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207077 PDF (180.9 KB) References NASA ADS Abstract Service

Open Access

The Contrastive Analysis of Inchoative Aspect of Japanese and Indonesian Language 07078 Elizabeth IHAN Rini

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207078 PDF (288.4 KB) References NASA ADS Abstract Service

Open Access

The Role and the Significance of the Reader and the Act of Reading in Roland Barthes's "The Death of the Author" $\,$ 07079 $\,$

Ariya Jati

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020207079

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

U Open Access

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Online Game and the *Hikikomori* Phenomenon in Japan 07080 Lina Rosliana and Arsi Widiandari Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207080 PDF (352.4 KB) References NASA ADS Abstract Service

Open Access

Tracing the Trace of Thought Sholeh Land and Islamic Traction in Semarang 07081 Muhammad Abdullah Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207081 PDF (273.4 KB) References NASA ADS Abstract Service

Open Access

Traditional and Feodal Agricultural Ecology: Land System in the Islamic Kingdom of Mataram 07082 Sugiyarto and Agustinus Supriyono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207082 PDF (236.3 KB) | References | NASA ADS Abstract Service

Open Access

OK

37/56

Traditional Spices in Japanese Modern Food 07083 Sriwahyu Istana Trahutami Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207083 PDF (185.5 KB) References NASA ADS Abstract Service

Open Access

Valorisation and Development of Local Potential Through A Sustainable Tourism Scenario in South Sumatera 07084 Listen Prima Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020207084 PDF (1.870 MB) References NASA ADS Abstract Service

- Renewable Energy Development

Open Access

Processing of Used Beveraged Waste for Production of Hydroge Gas with Electrolysis Process Using NaOH Catalyst 08001

Widayat, Mochammad Faiq Yumna, Muhammad Hilmazar, Hantoro satriadi and Aji Prasetyaningrum Published online: 10 November 2020

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Consideration factors in domestic investment for renewable energy development in Indonesia

Septi Riansyah and Dony A. Chalid

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020208002

PDF (904.9 KB) References NASA ADS Abstract Service

Open Access

Enhancement of biogas production from rice husk using mechanical pretreatment (grinding) in Liquid Anaerobic Digestion (L-AD) 08003

Syafrudin, Winardi Dwi Nugraha, Soraya Annisa Putri, Hashfi Hawali Abdul Matin and Budiyono Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020208003

PDF (791.4 KB) References NASA ADS Abstract Service

Open Access

The Effect of Grinding on Biogas Production from Rice Husk Waste During Solid State Anaerobic Digestion (SS-AD) 08004 Syafrudin, Winardi Dwi Nugraha, Aisyah Bahrani, Hashfi Hawali Abdul Matin and Budiyono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020208004

PDF (855.3 KB) References NASA ADS Abstract Service

Open Access

Solid State Anaerobic Digestion for Biogas Production from Rice Husk 08005 Hashfi Hawali Abdul Matin, Syafrudin Syafrudin and Suherman Suherman Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020208005

PDF (224.7 KB) References NASA ADS Abstract Service

Open Access

Technical Analysis on Household-Scale Rooftop Solar Power Plant Design with On-Grid System in Semarang City 08006 Jaka Windarta, Singgih Saptadi, Denis, Dimas Adi Satrio and Johanes Soritua Silaen Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020208006

PDF (2.006 MB) References NASA ADS Abstract Service

Open Access

Bioelectricity production from tofu wastewater using microbial fuel cells with microalgae *Spirulina sp* as catholyte 08007

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

OK

1/19/22, 8:41 AM

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (278.7 KB) References NASA ADS Abstract Service

Open Access

The Modeling of Cross Flow Runner With Computational Fluid Dynamics on Microhydro Tube 08008 Purwanto, Budiyono, Hermawan and Sudarno

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020208008

PDF (1.266 MB) References NASA ADS Abstract Service

Open Access

Development of bioenergy plantation in Indonesia: yield regulation and above-ground carbon storage in Gliricidia (*Gliricidia sepium*) plantation 08009 Budi Mulyana, Djoko Soeprijadi and Ris Hadi Purwanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020208009 PDF (398.9 KB) References NASA ADS Abstract Service

- Energy Management, Policy and Planning

Open Access

Evaluating the Impact of Technological Adoption Policy for Rural Coastal Communities 09001 Yudithia Yudithia, Edison Edison, Dwi Kristanti, Tri Samnuzulsari, Suyito Suyito and Wayu Eko Yudiatmaja Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020209001

PDF (280.5 KB) References NASA ADS Abstract Service

Economic Feasibility Analysis of Rooftop Solar Power Plant Design with Household-Scale On-Grid System in Semarang City 09002 Jaka Windarta, Singgih Saptadi, Denis, Dimas Adi Satrio and Johanes Soritua Silaen Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020209002 PDF (2.008 MB) References NASA ADS Abstract Service

Energy consumption of bridge construction: conventional vs precast girders 09003 Jati Utomo Dwi Hatmoko, Subrata Aditama K.A. Uda, Arya Desta Andika and Amelia Kristina Putri Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020209003

PDF (708.0 KB) References NASA ADS Abstract Service

Open Access

Open Access

Open Access

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

DOI: https://doi.org/10.1051/e3sconf/202020209004 PDF (753.4 KB) | References | NASA ADS Abstract Service

- Energy Conservation and Technology

Open Access

Simulation Of Fuel Ball Dimensional Size And Uranium Enhancement For High Temperature Reactor 10001

Setiawati E., Arifin Z., Umiati N.A.K, Juliawan S., Arianto F and Margiantono A. Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020210001 PDF (426.8 KB) References NASA ADS Abstract Service

FDF (420.8 KB) | References | MASA ADS Abstract Ser

Open Access

Analysis and Cost Estimation of Methanol / Glycerin Distillation Unit Process System 10002 S. Silviana, Maghfira Arum Lestari, Gelbert Jethro Sanyoto, Farida Diyah Hapsari, Amanah Mutiarini and Indah Eka Septiani Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020210002 PDF (510.6 KB) | References | NASA ADS Abstract Service OK

Open Access

Design simulation and economic optimization of a benzene-toluene-xylene system distillation process upon the energy cost 10003

S. Silviana, Febio Dalanta, Dewi Qurrota A'yuni, Lu'luatul Khoiriyah, Putri Rousan Nabila and M. Fahrizal Alfaris Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020210003

PDF (1.378 MB) References NASA ADS Abstract Service

Open Access

Eco-efficiency Level of Production Process of Waste Cooking Oil to be Biodiesel with Life Cycle Assessment 10004

Sri Hartini, Diana Puspitasari, Nabila Roudhatul Aisy and Yusuf Widharto

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020210004

PDF (305.6 KB) References NASA ADS Abstract Service

Open Access

The Energy Production and Efficiency Treatment of ML-MFC Using High Organic Content Wastewater $\,$ 10005 $\,$

Aris Mukimin

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020210005

1/19/22, 8:41 AM

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on some pages, cookies from social networks. More information and setup

Open Access

The Energy Production and Efficiency Treatment of ML-MFC Using High Organic Content Wastewater 10006

Aris Mukimin

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020210006

PDF (255.7 KB) References NASA ADS Abstract Service

Open Access

 Phenolic compound derived from microwave-assisted pyrolysis of coconut shell: Isolation and antibacterial activity testing 1007

 Dwi Nuryana, Muhammad Fahrul Rahman Alim, Rendy Okta Loveyanto, Bayu Adi Wibowo, Raja Safazliana Binti Raja Sulong, Mohd Amir Asyraf Mohd Hamzah, Zainul Akmar Zakaria and Ratna Dewi Kusumaningtyas

 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/202020210007

 PDF (1.047 MB)
 References

Open Access

Hybrid Upflow-Anaerobic Filter (HU-AF) Integrated technology for bio-methane generation from vinasse with shorter hydraulic retention time 10008 OK Nani Harihastuti, Rustiana Yuliasni, Silvy Djayanti, Novarina Irnaning H, Rame Rame and Adi Prasetio Published online: 01 December 2020 DOI: https://doi.org/10.1051/e3sconf/202020210008 PDF (1.771 MB) References NASA ADS Abstract Service

- Energy and Instruments

Open Access

Design of testing Method of Fuels Filling Measurement Instrument 11001 Ratna Purwaningsih, Susatyo Nugroho Widyo Pramono, Farhan Atoilah, Aan Aria Nanda and Azizah Dewi Suryaningsih Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020211001

PDF (1.069 MB) References NASA ADS Abstract Service

Open Access

Prediction of Aerodynamics Coefficients of Modified NACA 4415 Airfoil Using Computational Fluid Dynamics 11002 Sudarsono, Saiful Huda and Toto Rusianto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020211002 PDF (3.052 MB) References NASA ADS Abstract Service

```
Open Access
```

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020211003 PDF (319.3 KB) References NASA ADS Abstract Service

Open Access

Pinch Analysis of Methane Derived Methanol Plant Using HINT Software 11004 John Philia, Jedy Prameswari and Widayat Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020211004 PDF (304.5 KB) | References | NASA ADS Abstract Service

Open Access

Micro-Spatial Electricity Load Forecasting Clustering Technique 11005 Christine Widyastuti, Adri Senen and Oktaria Handayani Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020211005 PDF (534.5 KB) References NASA ADS Abstract Service

- Public Health and Epidemiology

PDF (978.5 KB) References NASA ADS Abstract Service

Open Access

Carrageenan Biopolymer for Medical Ultrasonography using Phantom CIRS 12001 Anak Agung Aris Diartama, Suryono Suryono, Sugiyanto Sugiyanto, Putu Irma Wulandari, I Putu Eka Juliantara and Kadek Yuda Astina Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212001

Open Access

Dust Exposure and Symptomps of Respiratory Disorder on Worker of Sikatak Bridge Development Project 12002 Muhammad Fadli Ramadhansyah, Nikie Astorina YD and Setiani Onny Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212002 PDF (252.2 KB) References NASA ADS Abstract Service

Open Access

Identification of Musculoskeletal Disorder Complaint, Dermatitis Incident and Respiratory Disorder in Smoked Fish Worker 12003 Yuliani Setyaningsih, Ida Wahyuni and Ekawati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212003 PDF (221.0 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Endogenous Glutathione Peroxidase (GPx) Enzymes in Diabetic Rats 12004 Ratna Indriawati and Anatyo Nizar Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212004 PDF (204.8 KB) References NASA ADS Abstract Service

Open Access

Chemical Type Variation of Groundwater in Borobudur and Surroundings Area, Magelang District 12005 T. Listyani R.A. and Sri. Ning Peni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212005 PDF (1.624 MB) References NASA ADS Abstract Service

Open Access

Spatial Analysis of Childhood Tuberculosis and Social Determinants in Bandar Lampung 12006 Dyah Wulan Sumekar Rengganis Wardani and Endro Prasetyo Wahono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212006 PDF (516.7 KB) References NASA ADS Abstract Service

Open Access

OK

43/56

The improvement of Self Immunity, Mental and Psychosocial Health to Prevent Covid-19 Infection in Elders in Surakarta Indonesia 12007 Argyo Demartoto, Siti Zunariyah and Sri Hilmi Pujihartati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212007 PDF (237.8 KB) References NASA ADS Abstract Service

Open Access

COVID-19 disease transmission model considering direct and indirect transmission 12008 Dipo Aldila Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212008 PDF (582.9 KB) | References | NASA ADS Abstract Service

Open Access

Optimal control problem on COVID-19 disease transmission model considering medical mask, disinfectants and media campaign 12009 Dipo Aldila Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212009

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

ОK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Hematology Profile Analysis and Birth Weight in Preeclampsia 12010 Listyaning Eko Martanti, Dhita Aulia Octaviani, Ida Ariyanti, Prasko Prasko and Friska Adiani Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212010 PDF (192.9 KB) References NASA ADS Abstract Service

Open Access

Perceived Stigma as a Risk Factor for Delay in Seeking Treatment of Leprosy Patients: A Cross-Sectional Study in Tuban Regency 12011 Zulfah Fitria Fajriahadun Ni'mah, Nissa Kusariana and Praba Ginandjar Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212011

PDF (197.1 KB) References NASA ADS Abstract Service

Open Access

Cost Estimates Related to COVID-19 Treatment in Indonesia: What Should be Concerned? 12012

Sutopo Patria Jati, Budiyono, Rani Tiyas Budiyanti, Suhartono, Praba Ginandjar, Ayun Sriatmi and Nurhasmadi>r OK

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020212012

PDF (202.6 KB) References NASA ADS Abstract Service

Open Access

Case Overview of Patients under Surveillance of COVID-19 in Central Java Province, Indonesia 12013

Dwi Sutiningsih, Aufiena Nur Ayu Merzistya, Yulianto Prabowo, Aris Sugiharto and Mufti Agung Wibowo Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020212013

PDF (361.0 KB) References NASA ADS Abstract Service

Open Access

Epidemiologic and Clinical Characteristics of Patients with Covid-19 in Central Java, Indonesia 12014

Dwi Sutiningsih, Vilianti Eka Fitri Rahatina, Yulianto Prabowo, Aris Haryanto and Mufti Agung Wibowo Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020212014

PDF (542.8 KB) References NASA ADS Abstract Service

Open Access

Safety and Health Management Commitment and Implementation of COVID-19 Prevention at Manufacture Workplace Environment 12015

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (214.8 KB) References NASA ADS Abstract Service

Open Access

Entomological Status Based on Vector Density Index and Transovarial Infection on *Aedes Sp.* Mosquito in Meteseh Village, Semarang City 12016

Martini Martini, Zufri Armen, Kusariana Nissa, Hestiningsih Retno, Yuliawati Sri, Mawarni Atik and Purwantisari Susiana

Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212016

PDF (273.6 KB) References NASA ADS Abstract Service

Open Access

Modelling Generalized Poisson Regression in the Number of Dengue Hemorrhagic Fever (DHF) in East Nusa Tenggara 12017 Alan Prahutama, Dwi Ispriyanti and Budi Warsito Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212017 PDF (320.6 KB) | References | NASA ADS Abstract Service

Open Access

The Relationship Between Heat Stress and Physical Workload with Worker's Hydration Status in Tirtonadi Bus Station Surakarta 12018 Iwan Suryadi, Istar Yuliadi, Seviana Rinawati, Siti Rachmawati and Bekti Nugraheni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212018 PDF (206.6 KB) References NASA ADS Abstract Service

Open Access

Bioadsorption of Modified Empty Fruit Bunch Palm Oil for Reducing its 3-MCPD Compounds using Response Surface Methodology 12019 Mohamad Endy Yulianto, Rizka Amalia, Wahyuningsih, Sutrisno and Yusuf Arya Yudanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212019 PDF (891.4 KB) References NASA ADS Abstract Service

Open Access

 Faecal contamination in groundwater and its association with population density: a study in coastal areas of Semarang 12020

 Dina Rahayuning Pangestuti, Thomas Triadi Putranto and Novie Susanto

 Published online: 10 November 2020

 DOI: https://doi.org/10.1051/e3sconf/202020212020

 PDF (601.6 KB)
 References

 NASA ADS Abstract Service

Ok

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Naintina Lisnawati, Dina Rahayuning Pangestuti and Wardatus Zahroh Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212021 PDF (284.3 KB) References NASA ADS Abstract Service

Open Access

Conjoint Analysis for Evaluation of Customer's Preference of Analgesic Generic Medicines under Non-proprietary Names 12022 Aries Susanty, Bambang Purwanggono, Nia Budi Puspitasari and Chellsy Allison Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212022 PDF (459.4 KB) References NASA ADS Abstract Service

Open Access

Stability Analysis of Tuberculosis Epidemic Model with Saturated Infection Force 12023 Sutimin, Ratna Herdiana, R. Heri Soelistyo U and A. Henindya Permatasari Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212023 PDF (1.001 MB) References NASA ADS Abstract Service

Open Access

The Relationship between Social Support and The Psychological Well-being of Students Who Work Part-time 12024

Tubagus M Nashich and Listyati S Palupi

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020212024

PDF (176.3 KB) References NASA ADS Abstract Service

Open Access

A Relationship between Resilience and Psychological Preparedness for Disaster among Airlangga University Health Faculty Students 12025 Listyati Setyo Palupi and Muhammad Noor Rahman Himawan Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020212025 PDF (216.1 KB) References NASA ADS Abstract Service

Open Access

The Relationship Between Social Support and Psycchological Well Being of Indonesian Rural to Urban Migrant University Students in Universitas Airlangga 12026

Mahda P. Rachmadhani and Listyati Setyo Palupi

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020212026 PDF (208.3 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

12027

Muji R. Saputra and Listyati Setyo Palupi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212027 PDF (225.1 KB) References NASA ADS Abstract Service

Open Access

Epidemiology of non-exclusive breastfeeding behavior (study in the working area of primary health care Margorejo Pati regency) 12028 Emawati Fatima, Lintang Dian Saraswati, Praba Ginandjar and Dwi Sutiningsih Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212028 PDF (213.0 KB) References NASA ADS Abstract Service

Open Access

OK

47/56

Exploring Adolescent Characteristics, Experiences and Socio-environmental Responses on Premarital Pregnancy in Central Java Indonesia 12029 Zahroh Shaluhiyah, Antono Suryoputro, Aulia Novelira and Ratih Indraswari Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212029 PDF (323.7 KB) References NASA ADS Abstract Service

Open Access

Exploring Adolescent Characteristics, Experiences and Socio-environmental Responses on Premarital Pregnancy in Central Java Indonesia 12030 Zahroh Shaluhiyah, Antono Suryoputro, Aulia Novelira and Ratih Indraswari Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212030 PDF (323.7 KB) References NASA ADS Abstract Service

Open Access

Has it done properly? The Difference between Before and After Social Distancing's Policy Implementation in Controlling Covid-19 in Jakarta, Indonesia 12031 Rony Darmawansyah Alnur, Meita Veruswati and Al Asyary Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020212031 PDF (201.5 KB) | References | NASA ADS Abstract Service

- Industrial and Health Information System

Open Access

Perfect order fulfillment in construction supply chain performance 13001 Moh Nur Sholeh and Fardzanela Suwarto ОK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Supplier evaluation in industrial power services: a case study in gas-turbine maintenance, repair, and overhaul 13002

Yordian Fachrie and Arviansyah

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020213002

PDF (705.7 KB) References NASA ADS Abstract Service

Open Access

Information System for Evaluating Specific Interventions of Stunting Case Using K-means Clustering 13003 Widya Sartika, Suryono Suryono and Adi Wibowo

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020213003

PDF (355.3 KB) References NASA ADS Abstract Service

Open Access

A Phantom Study of Crosstalk Artefact Reduction using Interleaved Method in MR Lumbar 13004

Wingghayarie Patra Gandhi, Gatot Murti Wibowo, Nanang Sulaksono and Marichatul Jannah Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020213004 PDF (378.2 KB) References NASA ADS Abstract Service

Open Access

Modelling Tsunami Level of Hazard in Pariaman Coastal Area, West Sumatera 13005 Hilza Ikhsanti, Ratna Saraswati and Nurul Sri Rahatiningtyas Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020213005 PDF (701.6 KB) References NASA ADS Abstract Service

Open Access

The Effect of NDVI and NDBI on Land Surface Temperature in Cirebon City 2015 and 2019 13006

Cantika Liviona D.A., Ratna Saraswati and Adi Wibowo Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020213006 PDF (1.030 MB) References NASA ADS Abstract Service

Open Access

ARFIMA Model for Short Term Forecasting of New Death Cases COVID-19 13007

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (515.5 KB) References NASA ADS Abstract Service

- Decision Support System

Open Access

Determining the best optimization method for large scale probabilistic supplier selection problem integrated with inventory management 14001 Sutrisno Sutrisno, Widowati Widowati and Sunarsih Sunarsih Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020214001 PDF (522.9 KB) References NASA ADS Abstract Service

Open Access

Multi-Criteria Decision Making with the VIKOR and SMARTER Methods for Optimal Seller Selection from Several E-Marketplaces 14002 Miftahul Arif, Jatmiko Endro Suseno and R. Rizal Isnanto Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020214002 PDF (350.0 KB) | References | NASA ADS Abstract Service

Open Access

Service Oriented Architecture (SOA) and Fuzzy AHP-SAW for Lecturer Performance Analysis in Real-time 14003 Moh Ali Fikri, Rahmat Gernowo and Bayu Surarso Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020214003 PDF (2.783 MB) References NASA ADS Abstract Service

Open Access

Decision Support Systems for Land Suitability Evaluation on Rice Cultivation using ELECTRE Method 14004 Ircham Ali, Vincensius Gunawan and Kusworo Adi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020214004 PDF (433.5 KB) References NASA ADS Abstract Service

Open Access

49/56

Information Systems of Forecasting Incidence Rates of Dengue Fever Disease Using Multivariate Fuzzy Time Series 14005 Ardian Fakhru Rosyad, Farikhin and Jatmiko Endro Suseno Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020214005 PDF (562.1 KB) References NASA ADS Abstract Service

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

using Social Media, Based on Quality Function Deployment and Fuzzy Servqual 14006 Nenny Sulestiyowati, R. Rizal Isnanto and Adian Fatchur Rochim

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020214006

PDF (348.2 KB) References NASA ADS Abstract Service

Open Access

Application of Fuzzy Servqual Method to Measure User Satisfaction of Mooc Service Quality 14007

Iqbal Firdaus, Farikhin and Bayu Surarso Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020214007 PDF (232.9 KB) References NASA ADS Abstract Service

Open Access

Plant Seeds Growth Prediction on Greenhouse Using Adaptive Neuro Fuzzy Inference System (ANFIS) Method $\,$ 14008

Siska Ayu Widiana, Suryono Suryono and Budi Warsito

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020214008 PDF (297.4 KB) References NASA ADS Abstract Service

- Smart Information System

Open Access

Performance Measurement of Information Technology Governance in The Library of Diponegoro University Using COBIT Assessment Framework 15001

Ana Irhandayaningsih

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020215001

PDF (393.3 KB) References NASA ADS Abstract Service

Open Access

Using FHE in a binary ring Encryption and Decryption with BLE Nano kit microcontroller 15002 Zhanerke Temirbekova Erlanovna and Anna Pyrkova Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020215002 PDF (271.4 KB) References NASA ADS Abstract Service

Open Access

Denial of Service (DoS) attack identification and analyse using sniffing technique in the network environment 15003 Kagiraneza Alexis Fidele, Suryono and Wahyul Amien Syafei

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

Open Access

Implementation of Integrated Bayes Formula and Support Vector Machine for Analysing Airline's Passengers Review 15004 Aditya Tegar Satria, Mustafid and Dinar Mutiara Kusumo Nugraheni Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215004 PDF (612.6 KB) References NASA ADS Abstract Service

Open Access

Analysis of queue change of visitors and performace system in the Department of Population and Civil Regristation of Semarang City 15005 Sugito, Alan Prahutama, Dwi Ispriyanti and Mustafid Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215005 PDF (635.0 KB) References NASA ADS Abstract Service

Open Access

OK

51/56

PID Controller Simulator Design for Polynomials Transfer Function15006Adri Senen, Titi Ratnasari and Yoakim SimamoraPublished online: 10 November 2020DOI: https://doi.org/10.1051/e3sconf/202020215006PDF (579.8 KB) | References | NASA ADS Abstract Service

Open Access

PIECES Framework and Importance Performance Analysis Method to Evaluate the Implementation of Information Systems 15007 Ahmad Fatoni, Kusworo Adi and Aris Puji Widodo Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215007 PDF (460.8 KB) References NASA ADS Abstract Service

Open Access

Human Activity Prediction using Long Short Term Memory15008Jaka Septiadi, Budi Warsito and Adi WibowoPublished online: 10 November 2020DOI: https://doi.org/10.1051/e3sconf/202020215008PDF (338.4 KB)ReferencesNASA ADS Abstract Service

Open Access

Case Study of Record of Program of Birth Planning and Complication Prevention (P4K) by Village Midwife, Kemawi Village, Semarang Regency 15009

OK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

PDF (276.9 KB) References NASA ADS Abstract Service

Open Access

Detection of Mesial Temporal Lobe Epilepsy in MRI Sequence T2 Flair MRI Image Using Computer Aided Diagnosis (CAD) 15010 Redha Okta Silfina, Hermina Sukmaningtyas and Rini Indrati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215010 PDF (525.4 KB) References NASA ADS Abstract Service

Open Access

Development of Ultrasonic Anemometer Using HC-SR04 with Kalman Filter Based on Microcontroller Integrated IoT 15011 Ivan Adi Kuncara, Jatmiko Endro Suseno, Setyawan Agus and Isnain Gunadi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215011

PDF (3.908 MB) References NASA ADS Abstract Service

Open Access

Improving The Accuracy of Student Problem Identification Using Rule-Based Machine Learning 15012 Budi Sulistiyo, Bayu Surarso and Wahyul Amien Syafei Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215012 PDF (465.8 KB) References NASA ADS Abstract Service

Open Access

Monitoring of Noise Contour Mapping and Hearing Conservation Program of Rice Milling Workers in Griyan Karanganyar 15013 Seviana Rinawati, Siti Rachmawati, Iwan Suryadi, Prabang Setyono, Hashfi Hawali Abdul Matin, Lia Kusumaningrum and Sapta Suhardono Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215013

PDF (325.4 KB) References NASA ADS Abstract Service

Open Access

Information Anxieties and Information Distrust: The effects of Overload Information about COVID – 19 15014 Roro Isyawati Permata Ganggi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215014 PDF (206.5 KB) References NASA ADS Abstract Service

1/19/22, 8:41 AM

E3S Web of Conferences

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on some pages, cookies from social networks. More information and setup

Variations of Echo Train Length (ETL) on Cartesian and Blade Technique 15015 Rini Indrati, Dwi Rochmayanti, Heny Rubiyanti, Donny Susilawardhono, Siti Daryati and Sri Mulyati Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215015 PDF (438.0 KB) References NASA ADS Abstract Service

Open Access

Coastline Changes On The Coast of Cirebon Using Landsat 15016 Khadijah, Ratna Saraswati and Adi Wibowo Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215016 PDF (710.6 KB) References NASA ADS Abstract Service

Open Access

Investigating the Open Access Experience of Lecturers during Their Teaching from Home 15017 Heriyanto, Rukiyah, Lydia Christiani, Selyna Anggita and Elvy Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215017 PDF (180.2 KB) References NASA ADS Abstract Service

Open Access

OK

53/56

How Undergraduate Students experience Distance Learning as Part of Their Information Literacy 15018 Heriyanto, Yanuar Yoga Prasetyawan and Ika Krismayani Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215018 PDF (194.1 KB) References NASA ADS Abstract Service

Open Access

Denial of Service (DOS) Attack Identification As A Means To Be A Capable Guardian 15019 RB Sularto, Suryono, Monica Puspa Dewi and Kagirenza Alexis Fidele Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020215019 PDF (162.7 KB) References NASA ADS Abstract Service

Information System for Economic and Business

Open Access

Tourism and Absorption of The Labor Force in Indonesia: A Strategy for Development 16001 Mochammad Fahlevi, Rita, Arbi Siti Rabiah, Indry Aristianto Pradipta, Alan Marta and Fauzan Dipo Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020216001

https://www.e3s-conferences.org/articles/e3sconf/abs/2020/62/contents/contents.html

ОK

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

U Open Access

Should e-Payment Trust be e-Commerce Implemented as a Consumer Satisfaction Factor? 16002

Sabar Sutia, Mochammad Fahlevi, Mohamad Saparudin, Dasih Irma and Sari Maemunah

Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020216002

PDF (674.9 KB) References NASA ADS Abstract Service

Open Access

Information Technology and Corporate Governance in Fraud Prevention 16003 Nendi Juhandi, Saefudin Zuhri, Mochammad Fahlevi, Rinto Noviantoro, Muhammad Nur abdi and Setiadi Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020216003 PDF (390.9 KB) References NASA ADS Abstract Service

Open Access

Improvement of inventory control and cost efficiency Warteg ABC 16004 Fariz Qasmal Maulana and Anton Wachidin Widjaja Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020216004 PDF (369.1 KB) | References | NASA ADS Abstract Service

Open Access

Business Intelligence using the K-Nearest Neighbor Algorithm to Analyze Customer Behavior in Online Crowdfunding Systems 16005 Chashif Syadzali, Suryono Suryono and Jatmiko Endro Suseno Published online: 10 November 2020 DOI: https://doi.org/10.1051/e3sconf/202020216005 PDF (472.0 KB) | References | NASA ADS Abstract Service

Open Access

Sentiment Analysis on Tokopedia Product Online Reviews Using Random Forest Method 16006

Stephenie, Budi Warsito and Alan Prahutama Published online: 10 November 2020

DOI: https://doi.org/10.1051/e3sconf/202020216006

PDF (458.9 KB) References NASA ADS Abstract Service

E3S Web of Conferences

eISSN: 2267-1242

By using this website, you agree that EDP Sciences may store web audience measurement cookies and, on

some pages, cookies from social networks. More information and setup

A Vision4Press website

Phenolic compound derived from microwaveassisted pyrolysis of coconut shell: Isolation and antibacterial activity testing

Dwi Nuryana¹, *Muhammad* Fahrul Rahman Alim¹, *Rendy* Okta Loveyanto¹, *Bayu* Adi Wibowo¹, *Raja* Safazliana Binti Raja Sulong², *Mohd* Amir Asyraf Mohd Hamzah², *Zainul* Akmar Zakaria², and *Ratna* Dewi Kusumaningtyas^{1*}

¹Chemical Engineering Department, Faculty of Engineering, Universitas Negeri Semarang, 50229 Gunungpati, Semarang, Indonesia

² School of Chemical and Energy Engineering (FCEE), Faculty of Engineering, Universiti Teknologi Malaysia (UTM) 81310 Skudai, Johor Bahru, Malaysia

> Abstract. Indonesia is rich in natural resources, coconut plantation being one of them. The coconut processing industry produces coconut shell (CS) waste. The most effective technique to increase the value of this waste is to convert CS biomass through pyrolysis process. This research focuses on intensification of conversion process of CS by Microwave-Assisted Pyrolysis (MAP) to obtain PA. PA contains phenolic compounds which have antibacterial properties so they can be formulated as an antibacterial agent. CS has moisture and ash content of 8.89% and 0.21%, respectively. PA was produced from the MAP of CS at 600W at 450°C and 500°C for 10, 20, and 30 minutes. The PA was extracted using ethyl acetate to obtain phenolic contents. Optimum pyrolysis condition was found at 400°C for 30 minutes and yield of PA was determined at 32.20 g with total phenolic content (TPC) of 112.13 mg GAE/g. The inhibition zone of phenolic extract from coconut shell (PECS) using E. Coli was determined within 22-25 mm that quantitatively PECS can effectively kill bacteria. PECS by MAP and its aplication as an antibacterial agent has never been performed, so this work is an important contribution in the intensification of pyrolysis and in medical field

Keyword: Antibacterial agent, Biomass, Microwave-assisted Pyrolysis, Phenolic compounds

^{*} Corresponding author: ratnadewi.kusumaningtyas@mail.unnes.ac.id

[©] The Authors, published by EDP Sciences. This is an open access article distributed under the terms of the Creative Commons Attribution License 4.0 (http://creativecommons.org/licenses/by/4.0/).

1 Introduction

Indonesia is the second largest coconut producing country in ASEAN after Philippines [1]. The total area of Indonesian coconut plantations in 2018 reached 3.547 million hectares with a total production of 2.866 million tons. The development of coconut production in Indonesia had tendency to increase by 1.95% per year in 1980 - 2018 period [2]. The high demand for processed coconut exports has resulted in increased waste in the form of coirs and coconut shells (CS). A coconut produces 30% fiber while 15% - 19% of the total weight is the weight of the CS [3]. Even as organic waste, the CS cannot decompose quickly in the environment. Therefore, the amount of the waste continues to increase along with the increase in processed coconut products. One of the ways to utilize CS into available products is thermochemical conversion which is pyrolysis. Products of the pyrolysis process include charcoal, tar, gas and pyroligneous acid (PA) [4]. PA is smoke from the pyrolysis process which is condensed into a liquid product consisting of water, alcohol, organic acids, phenols, aldehydes, ketones, esters, furans, pyran derivatives, hydrocarbons, and nitrogen compounds [5]. PA compounds have antibacterial, anti-oxidant and anti-inflammatory properties that are prospective to be utilized for medicinal and pharmaceutical products formulations [6].

Based on its composition, the CS is composed of 3 main components: 26.60% of cellulose, 27.70% of hemicellulose, and 29.40% of lignin [7]. The hemicellulose compound can be degraded at temperatures of 200° C – 260° C, cellulose at 240° C– 350° C, while lignin at 280° C – 500° C [8]. High cellulose and hemicellulose content contribute to higher bio-oil yields, while high lignin content increases biochar yield [9]. Although lignin has a high level of resistance to thermal degradation, decomposition of lignin compounds produces charcoal, carboxylic acids, methanol, phenols and other aromatic compounds in liquid products [10]. Therefore, the high lignin content in a material can produce high phenolic compounds.

Pyrolysis consists of two processes: slow pyrolysis and fast pyrolysis. Slow pyrolysis is a slow process of thermal degradation of organic components in biomass due to the absence of oxygen to a final temperature of approximately 500°C [8]. Fast pyrolysis is a process of pyrolysis using high temperature where raw materials are heated quickly in the absence of air so as to produce vapor and dark brown liquids. This process is more sophisticated and can be carefully controlled to provide high yields on liquid products [11]. Previous researches with these following raw materials have been conducted include slow pyrolysis walnut shells to produce activated charcoal [12], produce PA from palm kernel shell [13] and *Rosmarinus officinalis* leaves [14], produce activated charcoals form rice husk [15], and produce liquid smoke from young coconut, bamboo and durian rind [16]. This research was conducted using conventional thermal heating with an external heater such as a furnace or hot mantle. This heating system is relatively slow and inefficient. Therefore, intensification of the process was carried out. Therefore, the pyrolysis could go more quickly and saved energy by using Microwave-Assisted Pyrolysis (MAP). Research using MAP has been carried out on several biomass such as oil palm fiber to make hydrogen gas [17] and pyrolysis liquid oil [18], palm kernel shell to produce anti – bacterial agent [19] and bio-oil [20], characterization of empty fruit bunch for MAP [21], and pineapple waste to produce PA [22]. However, from a number of previous studies, there have not been any studies found on the application of MAP to CS aimed at utilizing PA as an antibacterial agent.

MAP was developed as an alternative heating source in the pyrolysis process. Volumetric heating properties and better control and uniform heat distribution can be achieved through heating on MAP [23]. MAP can prevent the formation of secondary reactions thereby increasing the quality of the products. MAP technology has the potential

to save energy and reduce process costs. In producing PA, MAP is influenced by several factors including the type of reactor, particle size, pressure, temperature, power level, residence time, flow carrier gas and the use of activated carbon [24]. Therefore, this research investigated the effect of changes in time and temperature in the MAP process to determine the feasible conditions for producing the most PA.

One of the interesting benefits of PA to be investigated is its antibacterial properties. Therefore, the extracts of phenolic compounds in this study were tested on *Escherichia coli* bacteria. In previous studies, PA as the result of the CS MAP process had not been tested as an antibacterial agent. Therefore, this study contributes to the effect of MAP operating conditions on PA products and testing phenolic extracts from coconut shell (PECS) from the results of MAP as an antibacterial agent that can be utilized in the medical field. Specifically, the purpose of this study was to determine the effect of time and temperature on PA production in MAP as well as the characteristics of phenolic extracts as an antibacterial agent.

2 Methodology

2.1 Materials

The materials used in this study included 1) CS from *Cococs nucifera* originating from Bantul, Indonesia; 2) commercial activated carbon granule (C1452-32112392) from HmBG Chemicals, Malaysia; 3) nitrogen gas; 4) ethyl acetate (EA) (99.5%, grade AR); 5) Whatman no. 4 filter paper; 6) rotary evaporator (Heidolph, Germany); 7) UV-Vis spectrophotometer (Shimadzu, Japan).

2.2 Methods

2.2.1 Pre-treatment

CS was cleaned of fiber and dirt, then dried in the sun for 7 days. CS has been dried was subsequently reduced in size by using a hammer mill. Then sieving process was performed so that the same size approximately 1 - 1.18 mm was obtained. The small size CS was stored in a place protected from humidity. Based on the raw material test, the CS used for PA production in this study had water content of 8.89% and ash content of 0.21%.

2.2.2 Microwave-assisted Pyrolysis (MAP)

Microwave-assisted pyrolysis (MAP) was carried out referring to a study conducted by Abas [18] with modification of raw material size of 1-1.18 mm. 100 g materials and 50 g of activated carbon were dried at 105°C for 24 hours. Furthermore, both were put into a reactor made of quartz glass. Thermocouple type-R was mounted on the reactor and connected to the Picolog Data Logger System (PicoLog Recorder software, version 5.23.0) to show changes in temperature during the reaction. Nitrogen gas was flowed at 2 L/min, supplied from the top of the reactor for 15 minutes before the pyrolysis process was conducted. Other modifications were the power output on the microwave of 600W. Pyrolysis temperature was controlled at 400°C and 450°C, while cooling water was set at 6°C for the condensation process. The residence time of the MAP process was carried out in 10, 20 and 30 minutes. Liquid and gaseous products went through the condenser column and was collected in a round bottom flask (at the bottom of the condenser) as a mixture of

PA and bio-oil, while the uncondensed gas was discharged into the environment. Biochar formed in the reactor was called a solid product. The end of this process was to determine the percentage of solid, liquid, and gases product based on the mass of each product.

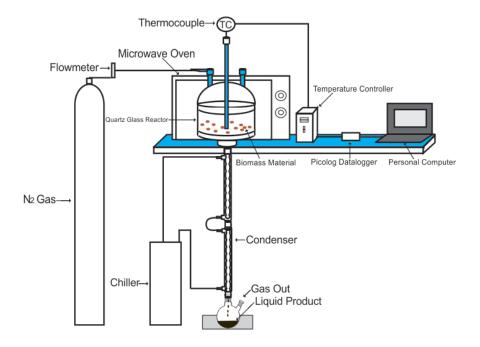


Fig. 1. Microwave-Assisted Pyrolysis

2.2.3 Purification using Extraction Process

Pyroligneous acid (PA) is obtained from the liquid product from the pyrolysis process. The liquid product was filtered using Whatman no. 4 filter paper to separate PA from bio oil and other impurities. Ethyl acetate (EA) solvent was added to the PA referring to the research conducted by Loo et al. [25], with these following modifications: PA was extracted using EA at a ratio of 1: 1 using a 100 mL separatory funnel, was shaken for 3 minutes at room temperature and let it stand for 30 minutes to form two layers. The upper layer was collected as an organic layer and the lower layer as a mixture layer was extracted for the second time using fresh EA. The extracted PA was concentrated using a rotary evaporator (Heidolph, Germany) at a pressure of 120 mBar and a temperature of 80°C to 1/3 of the initial volume. Then phenolic extract from coconut shell (PECS) was stored in a desiccator.

2.2.4 Total Phenolic Content (TPC)

Total phenolic content (TPC) was determined by using the Folin Ciocalteu reagent as was performed by Ma et al. [4], Gallic acid at a concentration of $10 - 100 \mu g/mL$ was used as the standard reference for making calibration curves. Each sample of 1 mL (100 $\mu g/mL$) was mixed with 1 mL of 50% (v/v) of Folin-Ciocalteu phenol reagent in the test tube. The mixture was shaken for 30 seconds and left at room temperature for 2 minutes. After 2 minutes, 1 mL of sodium carbonate (Na₂CO₃) solution was added to neutralize the mixture. The mixture was shaken for 10 seconds and allowed to stand in a dark place for 2 hours at room temperature. Tests were carried out in a dark room because the reagent was sensitive

to light and to reduce UV interference from redox reactions. Measurement of absorbance of a blue mixture was recorded at 765 nm using a UV-Vis spectrophotometer (Shimadzu, Japan). Results were reported as averages expressed as micrograms of gallic acid equivalents (GAE) per milligram of sample (µg GAE/mg)

The TPC concentration was calculated as suggested by Abdelhady et al. [26], as follow:

Total phenolic content (TPC),
$$\frac{\text{mg GAE}}{\text{g}} = \frac{C \times V}{M}$$
 (1)

Where:

C = concentration of Gallic acid established from the calibration curve in mg/ml V = the volume used during assay in mL

M = mass of the extract used during assay in g

2.2.5 Application as Antibacterial Agent

The antibacterial test was conducted by the Central Laboratory of Health and Testing of Medical Apparatus in Central Java. The bacteria used for testing was *Escherichia coli* with the disk diffusion method. The reaction was the formation of a clear zone around the phenolic compound, then the diameter of the clear zone was generated to determine the antibacterial strength.

3 Results and discussion

3.1 MAP Process

The study intended to investigate the relationship between product yield (solid, liquid and gases) with much emphasis on the PA product (liquid), residence time, and temperature. In this work, the pyrolysis process was conducted in different operation condition, in which its sample was mentioned as S1 to S6 as detected in Table 1. The percentage of product yield of MAP were calculated as weight percent (wt %) with initial CS of 100 gram.

Symbols	Temp (°C)	Time (min)	Char (wt %)	Liquid (wt %)	Gas (wt %)
S1	400	10	33.28	26.62	40.10
S2	400	20	33.39	27.63	38.98
S3	400	30	33.41	32.20	34.40
S4	450	10	37.63	20.94	41.43
S5	450	20	38.24	24.91	36.86
S6	450	30	33.85	30.03	36.12

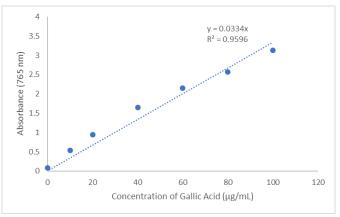
Table 1. Comparison of MAP product yield for various operation condition

The effect of temperature change was proven when the thermal heating level increased to 450°C, the liquid yield decreased while the gas yield increased. Operating conditions at high temperatures cause larger molecules such as liquids to split to produce gas. This is consistent with previous research [27]. The effect of residence time was proven when residence time increased to 30 minutes, liquid yield increased while char and gas yield decreased. This is consistent with previous research [13]. Low temperatures and long

residence times support char production, while higher temperatures and short residence times result in high liquid product production [28].

3.2 Total Phenolic Content (TPC)

The TPC was determined from linear equation of gallic acid calibration curve with the specific at Fig. 2 was expressed in microgram which equals to gallic acid per milligram sample (μ g GAE/mg). Absorbance of mixtures containing gallic acid, Folin Ciocalteu and sodium carbonate increases proportionately with increasing concentrations of gallic acid [29]. The calculation results of TPC S1 to S6 are shown on Table 2.



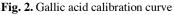


Table 2. TPC of PA extracts

Symbol	S1	S2	S3	S4	S5	S6
PA (g)	26.62	27.63	32.20	20.94	24.91	30.03
TPC (mg GAE/g)	85.03	96.41	112.13	72.90	90.87	111.68

In this work, the highest TPC of 112.13 mg GAE/g was observed in S3 under MAP operating conditions at 400°C for 30 minutes. Because phenolic compounds are not decomposed in low temperature conditions. Furthermore, some phenolic compounds that dissolve in water are extracted into water in lower temperature conditions due to low evaporation of water [4]. The phenolic structure can be maintained at lower temperatures under lower vapor pressure in the reactor because some phenols are primary pyrolysis products and are produced mainly by cracking $\beta - O - 4$ aryl ether bonds in lignin [30]. Previous studies reported that TPC in PA extract of pineapple biomass was 2.67 ± 0.14 mg GAE [22] and palm kernel shell was 49.96 mg GAE/g [29]. This shows that TPC in CS is greater than pineapple biomass and palm kernel shell.

3.3 Antibacterial Activity

Six samples of phenolic extract from coconut shell (PECS) were tested for their antibacterial activities at the Central Laboratory for Health and Medical Apparatus Testing in Central Java. The results are shown in Fig. 3.

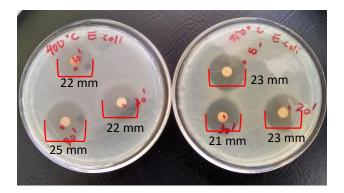


Fig. 3. Antibacterial activity of PECS on inhibition of Escherichia coli

According to Davis dan Scout [31], anti-bacterial activity in the clear zone test is divided into the following: the diameter of zone of inhibition which is less than 5 mm is categorized as weak, zone of inhibition of 5 - 10 mm is categorized as medium, zone of inhibition of 10 - 20 mm is categorized as strong, and zone of inhibition more than 20 mm is categorized as very strong. The test results showed the antibacterial activity of each sample of coconut shell phenolic compounds was very strong. Samples that had the largest zone of inhibition diameter were at S3 (25 mm) with MAP 400°C operating conditions for 30 minutes. The diameter of inhibition zone can be influenced by TPC concentration. The higher concentration leads to the higher antibacterial activity [32]. The reduction of important organic ions that enter the cell results in inhibited growth to death of the cell [33]. Damage to the bacterial cell wall results in decreased permeability of the cytoplasmic membrane to transfer important ions needed by bacteria. The high phenolic compounds in PECS can denature proteins contained in bacterial cell walls so that the inhibitory ability of PECS can act as an antibacterial agent.

4 CONCLUSION

From this study, MAP of CS samples under different operating conditions showed the highest liquid product acquisition at 400°C with residence time of 30 minutes. Based on the TPC test of PA extract (PECS), PA from MAP with this condition has the highest concentration of 112.13 mg GAE/g and shows the largest bacterial growth zone of inhibition, which is 25 mm. However, more studies must be carried out prior to any commercialization attempts for this compound.

ACKNOWLEDGEMENT

Financial support from the Student Creativity Program 2019 (the Ministry of Research and Higher Education of Republic Indonesia) and the facility from the Institute of Bioproduct Development, University Technology Malaysia are acknowledged.

REFERENCES

- [1] R. Zikria, *Outlook Komoditi Kelapa*, Jakarta: Sekretariat Jendral Kementerian Pertanian, ISSN: 1907-1507 (2014)
- [2] Direktorat Jendral Perkebunan, "Kelapa," in *Statistik Perkebunan Indonesia 2017-2019*, Jakarta, 1–82 (2018)
- [3] R. Barlina, E. Manaroinsong, and J. Wungkana, Bul. Palma, **18(2)**, 63-71 (2018)
- [4] C. Ma, W. Li, Y. Zu, L. Yang, and J. Li, Molecules, **19**, 20821–20838 (2014)
- [5] D. Bilehal, L. Li, and Y. H. Kim, Food Anal. Methods, **5(1)**, 109–112 (2012)
- [6] A. S. Pimenta, M. Fasciotti, T. V. C. Monteiro, and K. M. G. Lima, Molecules, 23(2), 1–12 (2018)
- [7] D. S. Fardhyanti, A. Damayanti, and A. Larasati, *Karakterisasi Bio-Oil dari Hasil Pirolisis terhadap Biomasa*, in Prosiding Seminar Nasional Teknik Kimia "Kejuangan", 13 April 2017, Yogyakarta, Indonesia (2017)
- [8] E. Kuoppala, K. Tiilikkala, and A. Oasmaa, Energy & Fuels, 26, 1275–1283 (2012)
- [9] T. Kan, V. Strezov, and T. J. Evans, Renew. Sustain. Energy Rev., 57, 1126–1140 (2016)
- [10] E. Graciosa, M. Arêdes, R. Pecenka, A. De Cássia, and O. Carneiro, Renew. Sustain. Energy Rev., 75, 592–600 (2017)
- [11] A. V. Bridgwater, P. Carson, and M. Coulson, Int. J. Glob. Energy Issues, 27(2), 204-216 (2007)
- [12] O. Senneca, F. Cerciello, S. Heuer, and P. Ammendola, Fuel, 225, 419–425 (2018)
- [13] Z. Rabiu and Z. A. Zakaria, J. Appl. Environ. Biol. Sci., 7(28), 59–62 (2017)
- [14] C. Ma, K. Song, J. Yu, L. Yang, C. Zhao, W. Wang, G. Zu, and Y. Zu, J. Anal. Appl. Pyrolysis, **104**, 38–47 (2013)
- [15] D. L. Nugrahaini, E. Kusdiyantini, U. Tarwotjo, and A. H. Prianto, Bioma Berk. Ilm. Biol., 19(1), 30-37 (2017)
- [16] K. Ridhuan, D. Irawan, and R. Inthifawzi, Turbo J. Progr. Stud. Tek. Mesin, 8(1), 69–78 (2019)
- [17] M. A. Hossain, J. Jewaratnam, P. Ganesan, J. N. Sahu, S. Ramesh, and S. C. Poh, Energy Convers. Manag., 115, 232–243 (2016)
- [18] F. Z. Abas, F. N. Ani, and Z. A. Zakaria, J. Clean. Prod., 2018, doi: 10.1016/j.jclepro.2018.02.052.
- [19] S. J. Ariffin, M. Yahayu, H. El-Enshasy, R. A. Malek, A. A. Aziz, N. M. Hashim, and Z. A. Zakaria, Indian J. Exp. Biol., 55, 427–435 (2017)
- [20] F. Mushtaq, T. A. T. Abdullah, R. Mat, and F. N. Ani, Bioresour. Technol., 442– 450 (2015), doi: 10.1016/j.biortech.2015.02.055.
- [21] R. Omar, A. Idris, R. Yunus, K. Khalid, and M. I. A. Isma, Fuel, 90(4), 1536–1544 (2011)
- [22] S. Mathew, Z. A. Zakaria, and N. F. Musa, Process Biochem., 50(11), 1985–1992 (2015)
- [23] F. Z. Abas, Z. A. Zakaria, and F. N. Ani, J. Appl. Pharm. Sci., 8(7), 65–71 (2018)
- [24] T. Haeldermans, J. Claesen, J. Maggen, R. Carleer, J. Yperman, P. Adriaensens, P. Samyn, D. Vandamme, A. Cuypers, K. Vanreppelen, and S. Schreurs, J. Anal. Appl. Pyrolysis, 138, 218–230 (2019)

- [25] A. Y. Loo, K. Jain, and I. Darah, Food Chem., 107, 1151–1160 (2008)
- [26] M. I. S. Abdelhady, A. A. Motaal, and L. Beerhues, Am. J. Plant Sci., 2(6), 847– 850 (2011)
- [27] S. Mutsengerere, C. H. Chihobo, D. Musademba, and I. Nhapi, Renew. Sustain. Energy Rev., 104, 328–336 (2019)
- [28] J. B. G. Souza, N. Ré-Poppi, and J. L. Raposo, J. Braz. Chem. Soc., 23(4), 610–617 (2012)
- [29] R. S. R. Sulong, S. E. Zulkifli, R. Hasham, and Z. A. Zakaria, J. Phys. Conf. Ser., 1444 (2020)
- [30] C. Amen-Chen, H. Pakdel, and C. Roy, Bioresour. Technol., **79(3)**, 277–299 (2001)
- [31] W. W. Davis and T. R. Stout, Appl. Microbiol., 22(4), 659–665 (1971)
- [32] O. Franchi, L. Cabrol, R. Chamy, and F. Rosenkranz, J. Biotechnol., **310**, 40–48 (2020)
- [33] T. I. Purwantiningsih, Y. Y. Suranindyah, and Widodo, Bul. Peternak., 38(1), 59-64 (2014)

Terindeks Scopus SJR 0.203 (2020)

1. SCOPUS

Source Details : Scopus.com

Coverage : from 2013 to Present

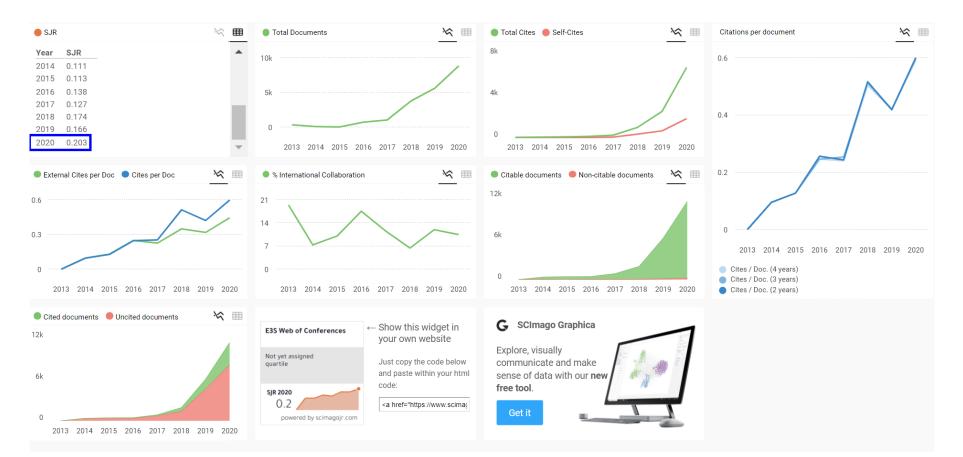
Scimago Journal and Country Rank

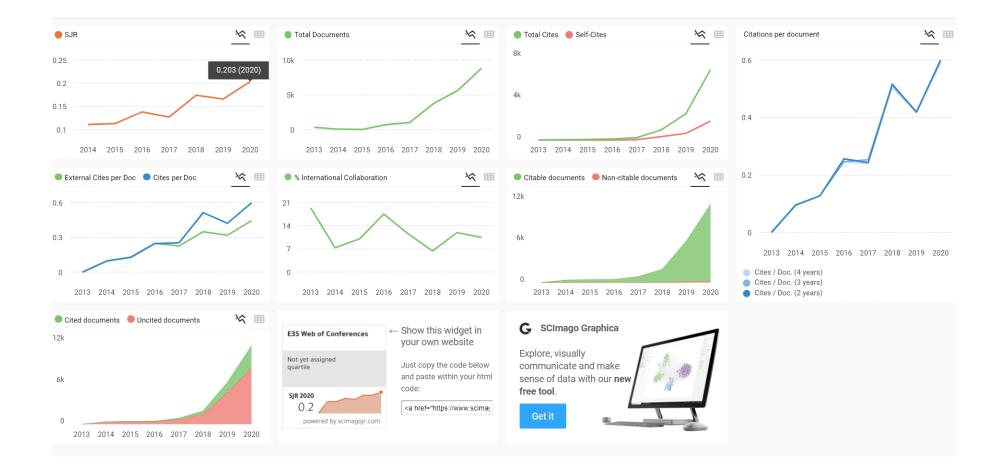
Scopus Preview

Source details	Feedback >			
E3S Web of Conferences Open Access Scopus coverage years: from 2013 to Present	ClteScore 2020 0.6			
Scopus coverage years: Inform 2013 to Present E-ISSN: 2267-1242 Subject area: (Energy: General Energy) (Environmental Science: General Environmental Science: General Environmental Science) (Earth and Planetary Sciences: General Earth and Planetary Sciences) Source type: Conference Proceeding (Environmental Science)				
	SNIP 2020 0.608			
CiteScore rank & trend Scopus content coverage				
Improved CiteScore methodology CiteScore 2020 counts the citations received in 2017-2020 to articles, reviews, conference papers, book chapters and data papers published in 2017-2020, and divides this by the number of publications published in 2017-2020. Learn more >				
CiteScore2020CiteScoreTracker2021 $0.6 = \frac{11,023 \text{ Citations 2017 - 2020}}{18,915 \text{ Documents 2017 - 2020}}$ $0.6 = \frac{15,121 \text{ Citations to date}}{25,181 \text{ Documents to date}}$				
CiteScore rank 2020				
Category Rank Percentile				
General Energy #49/65 25th Environmental Science				
General Environmental #175/220 20th Science				

SJR Information

SJR = 0.203 (2020)







MINISTRY OF EDUCATION AND CULTURE DIPONEGORO UNIVERSITY SCHOOL OF POSTGRADUATE STUDIES



Certificate of Appreciation

Number : 1784/UN7.5.12.2/TU/2020

This certificate is presented to **Rendy Okta Loveyanto** In gratitude for the outstanding contribution as

Presenter

^{5th} International Conference on Energy, Environment, Epidemiology and Information System

(5th ICENIS 2020)

Emphasizing Environment and Human Security Toward Global Sustainable Development Goals (SDGS) 2030
Organized by School of Postgraduate Studies Diponegoro University

Semarang - Indonesia on August 12th - 13th, 2020

