Table of contents

Volume 1764

2021

 Previous issue Next issue >

The 1st Paris Van Java International Seminar on Computer, Science, Engineering, and Technology (PVJ_ISComSET), 15-16 July 2020, Tasikmalaya, Indonesia

Accepted papers received: 07 January 2021 Published online: 24 February 2021

Open all abstracts

This site uses cookies. By continuing to use this site you agree to our use of cookies. To find out more, see our Privacy and Cookies policy.

OPEN ACCESS 1 st Paris Van Java (PVJ ISComSET)		minar on Computer, Science, Engineering and Techno	55	Rays, Wave Photons
+ Open abstract	View article	PDF		William L Wolfe
OPEN ACCESS			011002	
Peer review decl	aration			Read first chapter
+ Open abstract	View article	🔁 PDF		

Chemical physics and physical chemistry



JOURNAL LINKS

Journal home

Information for organizers

Information for authors

Search for published proceedings

Contact us

Reprint services from Curran Associates



8

Evaluation of Kos Staining	elle (Hibiscus sab	aari∏a L.) Calyx Extract Stability for Intestinal Nematod	e Egg
N Vanawati, A Oktari	and TY Febriani		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012005
Differences of Bio Antioxidant Activi		acterization of Garlic and Black garlic on Antibacterial	and
Lia Siti Halimah and I	Khomaini Hasan		
+ Open abstract	View article	PDF	
OPEN ACCESS The Relationship (Hemodialysis Pati		vith Adherence in Restricting Fluid Intake in Middle Adu	012006 .llt
N Gartika, E Setiawat	i and Y Hidayat		
+ Open abstract	View article	PDF	
OPEN ACCESS			012007
Optimum Combin	ation of Alpham	angostin-Dihydroartemisinin in Vitro as Antimalaria	
S Tjahjani, D Syafrud	din and R Tjokropra	noto	
+ Open abstract	View article	PDF	
OPEN ACCESS The variation of e periods	thanol concentra	ation and kombucha characterization on several incuba	012008 tion
Nisa Ihsani, Nelis Her	mahadini and Muha	ammad Fauzi	
+ Open abstract	View article	PDF	
OPEN ACCESS			012009
		ol Extract Combination Of Kemangi Leaf (Ocimum .eaf (Anredera cordifolia (Ten.) Steenis) Using DPPH	
Herson Cahaya Hima	wan, Achmad Fauzi	Isa and Dena Sapira Wiharja	
+ Open abstract	View article	PDF	
		Efficiency of Use of Amlodipine-Captopril Combinatio In in the X Hospital Patients of Bogor	012010 n
Ferry Effendi, Sri Sep	tiani and Leny Fitri l	Lubis	
+ Open abstract	View article	PDF	
OPEN ACCESS The Best Pasteuriz Dairy Farm	zation Method in	Reducing the Amount of Bacteria in Cow's Milk on Pe	012011 ople
E N Nawangsih, I I Ra	ahmat, L S Halimah	and D N Hidayat	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012012
		atotoxicity Incident of Fixed-Dose Combination and Se ary Tuberculosis Treatment in Hospital Sukabumi	parate
Silvi Nurafni, Novita	Sari and Feni Mulya	ni	
+ Open abstract	View article	PDF	
OPEN ACCESS			012013

Antioxidant Activities from Two Varieties of Pear Peel Extracts using DPPH and CUPRAC

Methods

V M Patricia and F N Syaputri

+ Open abstract 🛛 🗐 View article 🛛 🏞 PDF

OPEN ACCESS Potency of Deep	Futeutic Solvent	as an Alternative Solvent on Pretreatment Process of	012014
Lignocellulosic B			
Triyani Sumiati and	Herman Suryadi		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS Differences the E seminiferous tub		yak and Tuak Aren on the number of Leydig cells and	012015
Usu Sius, Elisabeth	Wahyu Savitri and Si	silia	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS Optimization Co Examination	ncentration Contr	ol Cell Coombs (CCC) for Validity Tests on Crossmatch	012016 ing
A. Oktari, R. Handria	ani and S. S. Musbiha	h	
+ Open abstract	View article	PDF	
	enge Vial with Kin	Dilution Factor in Determining the Concentration of etic Turbidimetric Method	012017
+ Open abstract	_	PDF	
OPEN ACCESS Effect of Ethanol by In Vitro	ic Extract Terong	Belanda (Solanum betaceum Cav.) Peels of Antioxidant	012018 Activity
Riana Putri Rahmav	vati, Eko Retnowati a	nd Ridyasari Kamela Devi	
+ Open abstract	View article	PDF	
OPEN ACCESS			012019
		siatica) Extract Through Hsp60 and Bax Expression on S io) By Rotenone Inducted	tunting
Aida Ratna Wijayan	ti, Annisa Ridlayanti a	and Husnul Khotimah Muljohadi Ali	
+ Open abstract	View article	PDF	
OPEN ACCESS The Solvent Effe	ct of Hand sanitiz	er Formulation from Pecut Kuda (Stachytarpheta jamai	012020 censis
[L] Vahl) extract			
S L Ramayani, OH ,		sari, B T Prabandaru and D Widiyarini	
+ Open abstract	View article	PDF	
OPEN ACCESS			012021
	and Physical Eval tract As a Sunscre	uation of Emulgel the Kalakai (Stenochlaena Palustris B een	edd)
Risqika Yuliatantri P	aramawidhita, Rabia	tul Adawiyah and Agustinawati Umaternate	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012022

Cimplex Lattice Decian Analysis for Ontimizing the Canakatan Extract (Achyranthes assord)

production	зіції мпатузіз тог	ориппину те запукетан скиаст (Аспуганитез азрега)	E.
Zaenal Fanani, Endan	g Setyowati and Ria	Etikasari	
+ Open abstract	View article	PDF	
OPEN ACCESS			012023
Effect of Boiling Ti Presl.)	ime on Content o	of The Total Flavonoid of Kitolod (Isotoma longiflora (L.)	C.
Muchson Arrosyid, Cł	noiril Hana Mustofa,	Sutaryono and Alifiasri Praptiwi Rohmah	
+ Open abstract	View article	PDF	
OPEN ACCESS			012024
Test of Antibacter Against Bacteria E		thanol Extract of Seeds Black Pepper (Piper Nigrum L) cc 25922	
Arina Zulfah Primana	nda, Laksmi Anggun	and Rika Murhayati	
+ Open abstract	View article	PDF	
OPEN ACCESS			012025
		ion Effect Of Ethanol 70% Extract Red Gedi Leaves From Palu On White Rat (Rattus novergicus)	
A Nur and B Tjiroso			
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012026
In Vitro Evaluation Cause Anthracnos		y Power of Trichoderma harzianum Against Pathogens	that
Sutarman, A Miftahur	rohmat, IR Nurmala	sari and AE Prihatinnigrum	
+ Open abstract	View article	PDF	
OPEN ACCESS			012027
		enthes Type in North Sumatera	
		ara, Abubakar, Muhammad Darwis and Fatma Suryani Harahap	
+ Open abstract	View article	PDF	
OPEN ACCESS			012028
Isolation Bacteria	Producing α-Amy	ylase from Black Soldier Fly larvae (Hermetia illucens) L.	
Luthfia Hastiani Muha	arram, Nelis Hernaha	adini and Muhammad Fauzi	
+ Open abstract	View article	PDF	
OPEN ACCESS Improving plastic LC-cutinase activit		ncreasing the thermostability of a whole cell biocatalys	012029 st with
Maelita Ramdani Moe	-	Farhan Maulana	
+ Open abstract	View article	PDF	
OPEN ACCESS			012030
Method validation		, Mn, Ni, Se, and Zn metals in Citarum River sediment (cal Emission Spectroscopy (ICP-OES)	using
T A Koesmawati, S Ta			
+ Open abstract	View article	PDF	
OPEN ACCESS			012031

The Use of Ethanol as an Alternative Solvent to Replace 2-Propanol in the Determination of Total Acid Number in Lubricant by Potentiometric Titration

E Yuliani and W Pern	nana		
+ Open abstract	View article	PDF	
OPEN ACCESS The Proportion of Chicken Nuggets	f Moringa and Ca	012032 ssava Leaves on the Chemical and Sensory Properties of	
S A Prayitno and A R	Rahim		
+ Open abstract	View article	₱ PDF	
OPEN ACCESS Antioxidant Activ Roasting Levels	ity and Total Phe	012033 nolic Compounds of Arabica and Robusta Coffee at Different	
Umar Hafidz Asy'ari	Hasbullah and dan F	Rini Umiyati	
+ Open abstract	View article	PDF	
Context of Downs	stream Tin Deriva	012034 esis of Stannous Chloride (SnCl ₂) by Redox Method In The tive Product Widayatno, M I Amal and D Y Kusuma	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS Analysis Of Orgar Sorong City	noleptic And Colif	012035 form Value In Fresh Mackerel (<i>Rastrelliger</i> Sp.) Fish In Tpi	
Sukmawati Sukmawa Fery Mustapa	ati, Iksan Badaruddin	ı, Nurul Kusuma Dewi, Nurbaity Situmorang, Mahfut Mahfut and	
+ Open abstract	View article	PDF	
Computationa	al science		
OPEN ACCESS The Change of Fru (Case Study of An Agustina Widi, Erin D	to Wijaya Fruit)	012036 in Response to Covid-19 Pandemic in West Java, Indonesia	
+ Open abstract	View article	[™] PDF	
openabolider			
OPEN ACCESS Business Develop Platform (Case St		012037 nrough Value Creation Analysis in Automotive E-Commerce n)	
Maria Jacklyn Brilyan	i Putri Patty, Popong	g Nurhayati and Fuad Wahdan Muhibuddin	
+ Open abstract	View article	PDF	
OPEN ACCESS		012038	
Proposed a New S Programs (Case S		Model Canvas for Effectiveness and Evaluation of Current CSR a)	
Aqira Pakuanzahra, N	Noer Azam Achsani a	and Asadudin Abdullah	
+ Open abstract	TView article	PDF	
OPEN ACCESS Re-Food: Digital F	Platform-based Ir	012039 nnovation Solutions for National Food Waste Problems	
The second s			
Kali roga Pramana, /	Achmad Fadillah and	Aller Daryanto	

Computer Sci	ence		
OPEN ACCESS		0:	12040
Hybrid Algorithm Particle Swarm O		nethod for optimization, a combination Genetic Algorithm	and
Taufan Mahardhika			
+ Open abstract	View article	PDF	
OPEN ACCESS		0:	12041
On the numerical	solution of Burg	Jers-Fisher equation by the Strang Splitting Method	
D. A. Hamzah and M	I. C. Aprianto		
+ Open abstract	View article	🔁 PDF	
		0: earning-Assisted Cabri 3D Software to Improve Spatial Al Dimensional Geometry	12042 pility
R Yuliardi, A Mahpu	din and A Rosyid		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS Lean Six Sigma A Afferdhy Ariffien, Ira	· · ·	House Lembang Agriculture Incubation Center (LAIC)	12043
+ Open abstract	View article	🄁 PDF	
• Open abstract			
OPEN ACCESS Analysis of Raw M Model Q with Bac Nurlaela Kumala Der + Open abstract	ck Order at PT. X	y Planning Considering Uncertainty Demands (Case Study)	12044
OPEN ACCESS		0:	12045
Eclectic approach	as idea of e-edu	counseling preliminary system model	
Jumail, M F Noordin	, N M Ibrahim, R Mu	ujastuti and R D Risanty	
+ Open abstract	View article	PDF	
OPEN ACCESS		0:	12046
Natural partial or	der on semigrou	p partial linear transformation with restricted range	
A I A Himayati and N	A Prasetyanto		
+ Open abstract	View article	PDF	
toddler nutrition	status based on	0: een naïve bayes clasifier and c4.5 algorithm in classifying anthropometry index	12047
A Ridwan and T N S	_	S	
+ Open abstract	View article	PDF	
OPEN ACCESS Comparison of N I Romli, E Pusnawati		determine level of vehicles sales	12048
+ Open abstract	View article	PDF	

Analysis of contra knuckle print ide		ive histogram equalization (CLAHE) parameters on fing	er
F M Hana and I D M	laulida		
+ Open abstract	View article	PDF	
OPEN ACCESS			012050
Transforming the	e Baitul Maal Wal	Tamwil Business Model through the Patform Design M	lodel
Fitri Nur Latifah, Ma	sruchin, Bayu Wardh	ana, Eris Dwi Retno and Lela Monika	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012051
The Role of Elect Quality	ronic Customer R	elationship Management (E-CRM) In Improving Service	2
Ahmad Zaelani Adn	an, Agus Rahayu, He	eny Hendrayati and Ramayani Yusuf	
+ Open abstract	View article	PDF	
OPEN ACCESS			012052
· · · · · · · · · · · · · · · · · · ·		ariah Bonds (Sukuk) and Conventional Bonds on Stock : Study of Manufacturing Companies Listed on the IDX	in the
I. Dian Rahmawati, N	N. Qudus.SN and R D	Dian Pertiwi	
+ Open abstract	View article	PDF	
OPEN ACCESS			012053
	oetitive Strategy t el and Bacos Trea	o Create Sustainable Competitive Advantages Seen Fro acy Model	m the
Nur Hayati, Evan Jae	elani, Dani Sopian an	d Intan Pramesti Dewi	
+ Open abstract	View article	PDF	
OPEN ACCESS Natural Disaster West Java	Mitigation Manag	gement in the case of Mount Tangkuban Parahu Eruptic	012054 on in
Iis Dewi Fitriani, Wa	ndy Zulkarnaen and	Agus Bagianto	
+ Open abstract	View article	PDF	
OPEN ACCESS			012055
Viral Marketing S Instagramable in		h Social Media of Interesting Visitor (Case Study Cafes	
Ulfa Yuniati, Nora M	leilinda Hardi and In	tan Primasari	
+ Open abstract	View article	PDF	
OPEN ACCESS			012056
Computerized Te and Drives	ext Analysis on Se	lf-Description Text to Get Student's Prevailing, Confide	nce,
TA Syah, A Nurhaya	ty and S Apriyanto		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012057
On The Locating	Rainbow Connec	tion Number of A Graph	
Ariestha Widyastuty	Bustan, A.N.M. Salm	nan and Pritta Etriana Putri	
+ Open abstract	View article	PDF	
OPEN ACCESS			012058

Wireless Scorehoard Technology Architecture for Athlete Derformance Data Warehouse at

		actilite for Actilete Ferrormance Data Watchouse a	n.
Multiple Table Sp		rnama Sari and Mujiarto	
	View article		
+ Open abstract			
OPEN ACCESS			012059
Education Game	Indonesian Old M	luseum Explorer using Fuzzy State Machine	
M Rozikin, R Dijaya a	and C Taurusta		
+ Open abstract	View article	PDF	
OPEN ACCESS			012060
Machine		ed Onion during Planting Period using Support Vector	
N A P Lestari, R Dijay	/a and N L Azizah		
+ Open abstract	View article	PDF	
OPEN ACCESS			012061
Layout Classificat	ion of Red Onion	Disease on Onion Leaf Image Using Artificial Neural N	etwork
U N Mubarokhah, R	Dijaya and M I Maula	ana	
+ Open abstract	View article	PDF	
OPEN ACCESS			012062
		mination of Decoration Service Employee Using Weigh nggar Puri Ethnic Decoration)	nted
H Gunawan, Maramo	dhani, C Chazar and	Y WArthana	
+ Open abstract	View article	PDF	
OPEN ACCESS			012063
Design Technolog Prediction Factor		al Information System of Rice Pandanwangi Cianjur	
Ai Musrifah, Andri A	dikusuma and Suton	0	
+ Open abstract	View article	PDF	
OPEN ACCESS			012064
Model of Decision	n Support Method	d with SMART According to Choosing Venue	
Siti Sarah Abdullah a	nd Finni Rizkia		
+ Open abstract	View article	1 PDF	
OPEN ACCESS			012065
Design and Appli	cation Data-Based	d Employee Eat Barcode Scanner	
Ninik Sri Lestari, Suk	irno, Hetty Fadriani, <i>i</i>	Ahmad Sujana, Yudi Herdiana and Rahmad Hidayat	
+ Open abstract	View article	PDF	
OPEN ACCESS			012066
Design of Waste	Management Syst	tem Using QR Code for Effective Management in Waste	ebank
S Widaningsih and A	Suheri		
+ Open abstract	View article	PDF	
OPEN ACCESS			012067
Analysis and Desi Industrial Revolut	-	Health Service Information Systems (E-Health), in the	
Wulan Andang Purn	omo, Wahyu Prima, Y	Yusran, Raimon Efendi and Suryadimal	
+ Open abstract	View article	🔁 PDF	

OPEN ACCESS	montation of Cor	mouter Passed Test (CPT) in vesational education	012068
openabstate			
OPEN ACCESS			012069
Implementation o	f Natural Langua	ge Processing in Seller-bot for SMEs	
Sutadi Triputra and F	iras Atqiya		
+ Open abstract	View article	PDF	
OPEN ACCESS			012070
Edge Detection to Learning Devices	Make Drawing S	Sketch using Laplacian Operator and Gabor Wavelet fo	r
Samsir, Firman Edi, Ka	alvin Ginting, Srie H	artati, Sondang and R A Purba	
+ Open abstract	View article	PDF	
OPEN ACCESS			012071
Usage Behavior o		Perspective of the Theory of Unification of Acceptance	
Sukaris Sukaris, Wiki	Renedi, Maulidyah A	Amalina Rizqi and Budiyono Pristyadi	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012072
Design and Implementation of Computer Based Test (CBT) in vocational education Baimon Effedi. Lido Sabda Lesmana. Firmansyab Putra. Efri Yandani and Ratih Agustin Wulandari + Open abstract			
Totok Wahyu Abadi,	Wahyu Pratama Put	tra, Ilmi Usrotin Choiriyah and B A. Riyadh Umar	
+ Open abstract	View article	PDF	
OPEN ACCESS			012073
+ Open abstract	View article	PDF	
OPEN ACCESS			012074
PPDB Online As Ir	novation of Edu	cation Services	
Lailul Mursyidah, Isna	iini Rodiyah and Ha	fidz A'inur Ramadhan	
+ Open abstract	View article	PDF	
OPEN ACCESS			012075
			Jsing
Siti Ansoriyah			
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012076
Nidhomuddin, N Cha	midah and A Kurnia	awan	
+ Open abstract	View article	PDF	
OPEN ACCESS			012077
	stic Aptitude Test	t of State Islamic Colleges in Indonesia using Least Squ	

Modelling Scholastic Aptitude Test of State Islamic Colleges in Spline Estimator in Longitudinal Semiparametric Regression M Setyawati, N Chamidah and A Kurniawan

+ Open abstract 🛛 🗐 View article 🛛 🏞 PDF

Education and communication

OPEN ACCESS	ans of Opling Ou	iz as a Supporting Tool in Learning Chinese	012078
Xuc Lin and Mariana		iz as a Supporting Tool in Learning Chinese	
	_	1 225	
+ Open abstract	View article	PDF	
OPEN ACCESS			012079
Utilization of ICT	-Based Learning	Media in Local History Learning	
Bahri, Humaedi, Riza	al, Mahfud M. Gama	r, Misnah and Andi Dewi Riang Tati	
+ Open abstract	View article	PDF	
OPEN ACCESS			012080
Design of Megali	ite Site As a Sour	ce of Learning for Youtube Multimedia Based Students	
Nuraedah and Misn	ah		
+ Open abstract	View article	▶ PDF	
OPEN ACCESS			012081
The Effect of Mas	ssively Multiplaye	er Online Game on Player Behaviour	
Runik Machfiroh, Ar	is Rahmansyah and	Arief Budiman	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012082
Introduction of t childhood	raditional lebak n	nusical instruments through aplikasi android for early	
Eka Setiawati, Denti	k Karyaningsih, Suci	Aprilyati Ruiyat, Hadi Sutiawan, Iman Sampurna and Eneng Sri Su	silawati
+ Open abstract	View article	PDF	
OPEN ACCESS			012083
		earning Outcomes of MAN 1 Cirebon City Student On th ased Qurani Students Worksheet (LKPD)	ne
Dewiantika Azizah, I	Evi Fidawati and Alie	t Noorhayati Sutisno	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012084
The Developmen inPrimary School		ng Based on Videoscrieb Application For Social Science	
Usmaedi, Dede Kurr	nia Adiputra, Tjut Afr	rida, Ade Eka Anggraini, Puji Siswanto, Aan Subhan Pamungkas,	
Deri Hendriawan an	d Dentik Karyanings	sih	
+ Open abstract	View article	PDF	
OPEN ACCESS			012085
		xamples in the Development Site Material in of <i>Megalit</i> udent of Tadulako University, Indonesia	hic
Misnah, Hamlan An			
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012086
of the Access			012000

Development of Vocational Learning Video Based on Local account in PKN Learning in Elementary School

стептентагу эсно	01		
Dede Kurnia Adiput	tra, Dentik Karyaning	sih, Suci Aprilyati Ruiyat, Yadi Heryadi, Iman Sampurna and	
Elih Solihatulmillah			
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012087
Learning Materia Tapanuli Selatan	-	tal Art Student Creativity in Universitas Muhammadiyah	
Rizky Ariaji, Ahmad	Husein Nasution, An	ides Fuady Dharma Harahap, Abubakar, Sahlan Tuah, Darwis and	
Lelya Hilda			
+ Open abstract	View article	PDF	
OPEN ACCESS		(012088
Benefits of Using	J Mobile Apps as	a Support for Mandarin Language Learning	
Jureynolds, Theresia	a and Y Ying		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012089
Mandarin M-Cor	nic Application D	esign in Supporting Mandarin Vocabulary Learning	
Jureynolds, Y Ying a	and K Rosalin		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS	act in the M.Com	ic Application for Mandarin Vocabulary Learning	012090
		ic Application for Mandarin Vocabulary Learning	
Jureynolds, K Rosali			
+ Open abstract	View article	PDF	
OPEN ACCESS Critical Multiliter	ation: An Alterna	tive Learning Model for Developing Metacognition Skills	012091 in
Elementary Scho			
A Hendriani, Y Tri H	erlambang, <mark>E</mark> Rohaya	ati, Ernalis and D Setiawan	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012092
The Effectiveness School Students	s of Multiliteration	n Learning Models in Increasing Ecological Literacy of Pri	imary
Dede Margo Irianto	, Yusuf Tri Herlamba	ng, Hana Yunansah, Tita Mulyati and Dadan Setiawan	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012093
	tion of the Amora rsity of Education	Learning Model to Improve Students' Digital Literacy Sl	cill of
Ocih Setiasih, Wawa	an Setiawardani, Nan	idi, Rusman and Sandi Budi Iriawan	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012094
	natics Pedagogica ative Learning Typ	ll Content Knowledge and Verbal Communication Skills be Jigsaw	
Mahmudin Sudin, C	ecepMaman Herma	wan, Okta Rosfiani, Wahyuliana Ristiawati and Saifatul Hasanah	
+ Open abstract	View article	PDF	
OPEN ACCESS		(012095
Teacher's Efforts	to Enhance Study	ents' Competence in Madrasah Ibtidaiyah in Science Skill	s and

Teacher's Efforts to Enhance Students' Competence in Madrasah Ibtidaiyah in Science Skills and Academic Achievement

NUMBER	THE D	with the	W 50-1	11011	1

Aep Saepuloh, Okta Rosfiani, CecepMaman Hermawan, Sutiawati and Mita Apriyana

+ Open abstract 🛛 🗐 View article 🛛 🏲 PDF

OPEN ACCESS Collaboration on Investigation	Involvement in Ir	mproving Science Learning Outcomes through Group	012096
-	Maman Hermawan	, Siti Maisaroh, Labib Romannada, Nur Fadillah Mawartika and	
Anwar Ilmar Ramadh	han		
+ Open abstract	View article	PDF	
OPEN ACCESS			012097
Needs Analysis of Improve HOTS Co		formance Asessment of Network Administration Learni	ng to
Ambiyar, Raimon Efe	endi, Waskito, Nur Z	amalia Afifa and Ratih Agustin Wulandari	
+ Open abstract	View article	PDF	
Learn (Action Res	earch Study)	uct Teaching and Learning Activities Creating a Freedor	012098 n to
Martiman Suaizisiwa			
+ Open abstract	View article	PDF	
OPEN ACCESS			012099
Application of W	eb Based Learnin	g to Measure Students Learning Interest	
Selvy Sulyanah, Fitria	a Nur Hasanah and F	Rahmania Sri Untari	
+ Open abstract	View article	PDF	
OPEN ACCESS Improving Studer Study Activity	nts' Creativity Th	rough Sharing and Jumping Task in Mathematics Lesso	012100 n
N Fauziyah, S Asari,	U Ma'rifah, S Uchtia	wati and A Husniati	
+ Open abstract	View article	PDF	
Problems in Scier	nce	tudents with Dependent Field Cognitive Style in Solving	012101 9 HOT
N Shofiyah, M Zanna	ah and F E Wulandar	ri -	
+ Open abstract	View article	PDF	
OPEN ACCESS			012102
An Analysis of Te Inquiry-Based Lea		Scientific Literacy through Nature of Science (NoS) in	
F Wulandari, E Setiya	awati and F Su'udiya	h	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012103
Need Analysis for Vocational Educa		f Web-Based Flipped Classroom Learning Models in	
Ambiyar, Raimon Efe	endi, Waskito, Iffah F	Rojiyyah and Ratih Agustin Wulandari	
+ Open abstract	View article	PDF	
OPEN ACCESS			012104

Error analysis and its causal factors in solving mathematical literacy problems in terms of habits

of mind		-	
N Ratnaningsih and	I E Hidayat		
+ Open abstract	View article	PDF	
OPEN ACCESS Effectiveness of Mining Method	the News Text Cla	ssification Test Using the Naïve Bayes' Classification Te	012105 ext
Yi Ying, T N Mursita	ama, Shidarta and Lol	hansen	
+ Open abstract	View article	PDF	
OPEN ACCESS			012106
The Advantages Learning	of Pleco and Goo	gle Translate Applications in Assisting Mandarin Langu	age
Yi Ying, Theresia an	d Vivi Febriana		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS	Mandamonic Gam	ies in Supporting Mandarin Learning at Elementry Scho	012107
	FR Mei and T Rahard		
+ Open abstract	View article	PDF	
- open abbalact			
OPEN ACCESS Representation of	of Student's Creat	ive Thinking Skills: Case Studies on Basic Biology Cours	012108 se
Ipah Budi Minarti a	nd Lissa		
+ Open abstract	View article	🔁 PDF	
	-	of Prospective Mathematics Teacher Students	012109
I Gunawan, L Nurha	iyati, Widjajani and B		
+ Open abstract	View article	PDF	
	udent Self-Eficacy	Cycle Model (5E and 7E) in Learning to Build Flat Side S	012110 Sides
+ Open abstract	View article	PDF	
personality type		ocess of the students: an analysis of Wallas stages and	012111
N Ratnaningsih	_		
+ Open abstract	View article	PDF	
Elementary Scho Neni Maulidah, Sur			012112
+ Open abstract	I≡] view article	PDF	
OPEN ACCESS Multidimentiona Indonesia	l Item Respose U	tilization for Validating Mathematics National Examination	012113 tion in

J Arlinwibowo, I Achyani and G Kurniadi

OPEN ACCESS		0121
-		idents in Solving Algebra Problems
-	_	n, Herlina Hidayati and Anwar Muttaqien
+ Open abstract	View article	PDF
OPEN ACCESS		0121
Effectiveness of	Website-Based Sr	nart Seminar Application on Islamic Learning (Case Study at
Raharja Universi	ty)	
Abdul Hamid, Arrib		yani, Saryani and Haris
+ Open abstract	View article	PDF
OPEN ACCESS		0121
Comparison of M Guided Discover		nunication Ability Through Problem Based Learning And
W Wandari and F F	ardillah	
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		0121
Classification of	Student's Mather	natical Reflective Thinking in Calculus Class
R L Ariany, T T Widi	iastuti, A L R Jauhari a	and F Fardillah
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		0121
Profile of Studer	nts' Statistical Rea	soning Capabilities in Introductory Social Statistics Courses
A L R Jauhari, R L A	riany, F Fardillah and	A Ayu
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		0121
Increasing Indep	endence of Cereb	oral Palsy Children using Virtual Reality based on Mlearning
Muhaimin Hasanud	lin, Abdul Hamid Arri	ibathi, Indrianto, Khozin Yuliana and Dedy Prasetya Kristiadi
+ Open abstract	View article	PDF
OPEN ACCESS		0121
Service Provider	Information System	em in Technopreneurship Learning for MSMEs
Muhaimin Hasanud	lin, Khozin Yuliana, A	hmad Roihan, Abdul Hamid Arribathi and Haris
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		0121
	esign Study of Dra nent in Open-Pit N	ainage And Dewatering Strategies: Integrated System For Aining
D. Rosarina, F. Fard	illah and Y. G. Wibow	10
+ Open abstract	View article	PDF
OPEN ACCESS		0121
Analysis The Abi Moh. Nurhadi and		bstractly of Mathematics And Self-Efficacy Through Tpack
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		0121
OF LIN ACCESS		0121

Analysis of Students Mathematics Reasoning Ability in View of Mathematical Problem Solving

nonity

Efficacy

Depi Setialesmana, Aep Sunendar and Lutfi Katresna

+ Open abstract 🛛 🗐 View article 🛛 🏞 PDF

OPEN ACCESS			012124
	es Learning Media	In Supporting Mathematics Education II PGSD	012121
Mohamad Hariyond	o, Ernayanti Nur Widł	hi and Nuhyal Ulia	
+ Open abstract	View article	PDF	
		—	
OPEN ACCESS			012125
Student Respons	ses During Online	Learning in the Covid-19 Pandemic Period	
Ahmad, Hasnawati,	Mulyadi, M Apriyant	o, A Oklianda, D D Putra and A Warmi	
+ Open abstract	View article	PDF	
OPEN ACCESS			012126
Statistical Literad	cy Analysis of Pre-	Service Elementary Teachers Education	
D S Nahdi, M G Jati	sunda, U Cahyanings	sih, Y D Kurino, E Juliar and W Bilda	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012127
The Effect Of Re	alistic Mathematic	cs Education On Elementary Students' Critical Thinking	Skills
Ujiati Cahyaningsih	and Dede Salim Nah	ndi	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012128
Effectiveness of	Puppet Media in I	improving Speaking Skills of Elementary School Studer	nts
D S Saputra, Y Yulia	ti and B Febriyanto		
+ Open abstract	View article	PDF	
OPEN ACCESS			012129
Assessing didact	ic mathematical k	nowledge for teaching geometry transformation	
A Nurdiana, M J Tai	nod and A G Adiraka	siwi	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012130
	through play in ki ng the lesson plar	ndergarten: analysis towards pre-service early childhoc	bd
		Jatisunda, E Santoso and D S Nahdi	
+ Open abstract	View article	PDF	
OPEN ACCESS			012131
	in Creating Colla	borative 3D Learning media of Pop-Up and Movable B	
	yasari, K Saddhono a		
+ Open abstract	View article	PDF	
OPEN ACCESS			012132
	osoft Mathematics	s Program toward Students' Learning Achievement	
		n, R Jayanti, N Setyorini, P Y Kurniawan and L Nurpratiwiningsih	
+ Open abstract	View article	PDF	
OPEN ACCESS			01213
Android-Based L	earning Environm	nent To Enhance Creative Thinking Mathematics and Se	elf-

Lincucy R Amalia, M Zaiyar, F Fadilah and E Santoso + Open abstract View article PDF **OPEN ACCESS** 012134 Google class activities during COVID 19: learning studies on introductory education courses F Fadilah, R Amalia, F Mustika and M G Jatisunda View article + Open abstract 🔁 PDF OPEN ACCESS 012135 Project-based learning with LMS moodle to promote mathematical problem solving and selfregulated learning J W Kusuma, Hamidah, I Mahuda, R S Sukandar, E Santoso and M G Jatisunda View article 🔁 PDF + Open abstract OPEN ACCESS 012136 Learning Numerics Words Through Online Games Learning Y Ying and Jureynolds + Open abstract View article 🔊 PDF OPEN ACCESS 012137 Using Online-Game Based Platform to Improve Students Mandarin Skills Y Ying, Yulius and A Juniarto + Open abstract View article 🔊 PDF **OPEN ACCESS** 012138 Using Technology-Flashcard to Encourage Students Learning Mandarin Y Ying, D Marchelline and G Wijaya View article + Open abstract 🔁 PDF **OPEN ACCESS** 012139 Virtual Mandarin Learning Tools for Interactive Online Learning Sofi and Y Ying + Open abstract View article 🔊 PDF **OPEN ACCESS** 012140 Student's Prevailing, Confidence, and Drives: Computerized Text Analysis on Self-Description Text Sigit Apriyanto, Tansri Adzlan Syah and Any Nurhayaty + Open abstract View article 🔊 PDF **OPEN ACCESS** 012141 The Relationship Between Limb Muscle Power and Balance With "Yeop Chagi" Kick Technique on Taekwondo on The Members of Gunung Karang Taekwondo Club (GKTC) 1995, Pandeglang Regency Dedi Aryadi, Ridwan Sudirman, Mukhtar Ridwan, Taufik Hidayat Suharto, Ayi Rahmat and Wandi Suwandi Assayid + Open abstract View article 🔁 PDF **OPEN ACCESS** 012142 4Cs Analysis of 21st Century Skills-Based School Areas Ahmad Khoiri, Evalina, Nur Komariah, Rahayu Tri Utami, Vip Paramarta, Siswandi, Janudin and Denok Sunarsi

OPEN ACCESS The fullness of H Schools	igher Order Think	ing Skills (HOTs) in Applied Science Textbooks of Voca	012143 ntional
Achmad Rozi, Ahma	id Khoiri, R Dewi Mu	tia Farida, Denok Sunarsi, Jasmani, Paeno, Munawaroh and Udi Is	wadi
+ Open abstract	View article	PDF	
OPEN ACCESS			012144
		ios and Self-Asessment Based on High Order Thinking ing at Students of Al-Islam Bandung Polytechnic	Skills
Muh. Husen Arifin			
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012145
The Relevance of	Reading Teachin	g Material Using New Technology	
Cucu Sutini, Emzir a	nd Yumna Rasyid		
+ Open abstract	View article	🔁 PDF	
Engineering a	nd Technolog	У	
OPEN ACCESS			012146
Virulence of Ento (Hemiptera: Pent		ungi Isolates against Green Ladybug Nezara viridula L.	
Muhammad Agung	Permadi, Rafiqah An	nanda Lubis, Mukhlis, Qorry Hilmiyah Harahap and Ulfa Sari Sire	gar
+ Open abstract	View article	PDF	
	imns against Con	Spiral Concrete Columns and Slender Concrete Filled St centric Axial Loads	012147 t eel
+ Open abstract	View article	🔁 PDF	
Manufacturing Ir R Nurjaman, A Raha	yu, L A Wibowo, Wio	djajani and Mujiarto	012148 nce in
+ Open abstract	View article	PDF	
OPEN ACCESS			012149
Navigation Lamp Analysis and Des		me Vocational Education Integrated With STEM Approx	ach:
I. Mustain, Abduroh	man, E. Iskandar and	D. Nuryaman	
+ Open abstract	View article	PDF	
OPEN ACCESS			012150
	al Armada Transp	oort City Route 05B in Cianjur City	
 Devi Setiawan Open abstract 	View article	内 PDF	
- F - W - W - W - W - W - W - W - W - W			
OPEN ACCESS			012151
Analysis of Scour Software	Depth Around B	ridge Piers With Round Nose Shape by HEC-RAS 5.0.7	
C S Silvia, M Ikhsan,	A Wirayuda and Ma	stiar	
+ Open abstract	View article	🔁 PDF	

	lopment of Stude	01215 ent Activity Record Systems Using the Concept of Reactive
		9 Iervin Tangguar Hutabarat
+ Open abstract	View article	PDF
OPEN ACCESS		01215
Additionalto Syn	thetic Fiber On N	laterials Plastic Injection To Minimize Product Defects
Firmansyah Azharul	, Rahmawati, Harno,	Wilarso and Mujiarto
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		01215
Hotel Wastewate	er Treatment by Ir	ntegrating Mixing and Electrocoagulation Process
F.A. Nugroho, S.K. L	estari, W. Pebriani ar	nd P.T.P. Aryanti
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		01215
Performance Ana	alysis Using the S	upply Chain Operations Reference (SCOR) and AHP Method
Akhmad Sutoni, Ali	Subhan, Widy Setya	wan, Fitri Oktavia Bhagyana and Mujiarto
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		01215
Preparation of Po Treatment	olyvinyl Chloride/	ZnO Composite Ultrafiltration Membrane for Peat Water
E. Putri, D. Sidabuta	r, N.A. Putri, S. Sakin	ah, F.A. Nugroho and P.T.P. Aryanti
+ Open abstract	View article	PDF
OPEN ACCESS		01215
Android Based Ir District	nformation Syster	n of Indekos Booking and Rentation Locations in Cianjur
Tarmin Abdulghani,	Lalan Jaelani and Ja	par Sidik
+ Open abstract	View article	PDF
OPEN ACCESS		01215
	xing Synthetic wi ial with Refprop S	th hydrocarbons Refrigerant to Reduce the Value of Global Software
Widodo, TK Berkah	Fajar, MSK Tony Sur	yo and SH Winoto
+ Open abstract	View article	PDF
OPEN ACCESS		01215
Electrical Energy	Alternative of Ma	agnetic Field Around Wire of Power Line
Yakob Liklikwati, Sy	afruddin, Givy Devira	a Ramady, Ninik Sri Lestari, Herawati YS and Rahmad Hidayat
+ Open abstract	View article	🔁 PDF
OPEN ACCESS		01216
-		ion Using PKJI 2014 Method (Study Case: Intersection of Jalar Sindang Sirna, Bandung)
	-	a, Samun Haris, Andrew Ghea Mahardika and Budi Nuryono
+ Open abstract	View article	PDF
OPEN ACCESS		01216

3 Phase Inverter Switching Algorithm for Industrial Needs

+ Open abstract 🛛 🗐 View article 🛛 🏞 PDF

5 5

OPEN ACCESS			012162
		ll Equipment Effektiveness (OEE) Method and Six Big Lo	osses
		Manchines in Oni Jaya Motor	
Widy Setyawan, Akh	mad Sutoni, Taufik	Munandar and Mujiarto	
+ Open abstract	View article	PDF	
OPEN ACCESS			012163
Development of based on Vouche		Network Infrastructure using Peer Connection Queue	Method
Givy Devira Ramady,	, Yakob Liklikwatil, N	Ninik Sri Lestari, Rahmad Hidayat, Ganjar Kurniawan Sukandi and	
Rosyidin Sufyani			
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012164
Alternative Mana	gement of Traffi	c Accidents with Road Geometric Repair	
Fatchur Rochman Al	Fauzi		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012165
Implementation of Diagnosis	of Back Propagat	ion Artificial Neural Network for Heart Disease Abnorn	nality
Jaya Kuncara Rosa S	usila, Muhammad A	fit and Pujo Laksono	
+ Open abstract	View article	PDF	
OPEN ACCESS			012166
-		igation Channels as Kinetic Energy Sources	
Mangambit Julianda Ahmad Sujana	ır Simanjuntak, Yakı	ıb Siahaan, Didik Trimo, GM Andrew, Darmono Sardjoe and	
+ Open abstract	View article	PDF	
OPEN ACCESS			012167
Characteristics of	Porous Asphalt	Mixture by Using a Bottom Ash Boiler as a Filler	
Chaira, M Refiyanni	and Azwanda		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012168
Experimental Stu Production from		fer Using Water – Cooled Condensers to Increase Oil	
Suryadimal, Rizky Ar	man, Elmi Sundari, '	Yeasy Darmayanti and Raimon Efendi	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012169
		ysis of Synchronous Reference Frame Phase-Locked Loc Generation System	op for
Syafrudin Masri, H A			
+ Open abstract	View article	PDF	
OPEN ACCESS			012170
Analysis of Effect	Electric Field Str	enght on Safe Distance Below Main Substation Busbar	150 kV

H Vusuf and N Abkadup

	aun -	
+ Open abstract	View article	PDF
OPEN ACCESS		012171
A Design for Self	Balancing Scale M	1odel Bicycle
Umar Tsani Abdurrah	nman, Pria Sukamto,	Mohamad Anas Sobarnas and Mujiarto
+ Open abstract	View article	PDF
OPEN ACCESS		012172
Analysis of SOS R Engine Generator		Lubricants Contaminated by the Fuel in The 3516 TA Diesel
Wilarso, Aswin Domo	odite, Hilman Sholih	and Mujiarto
+ Open abstract	TView article	PDF
		012173 d Health Systems in Bridge Construction Development beureum Bridge, Sukabumi
N.E Ichwan, Akhmad	Sutoni, Siti Tsana Kh	oerunnisa and Mujiarto
+ Open abstract	View article	PDF
OPEN ACCESS		012174
The Analysis of Ba	anana Peels are u	sed as Water Purifying Materials
P H Tjahjanti, Iswanto	o, M F Luliafan, A Fal	nruddin and R R Ernanda
+ Open abstract	View article	PDF
OPEN ACCESS		012175
The use of User-c	entered Design C	anvas for Rapid Prototyping
Irwan Alnarus Kautsa	r and M. Ruslianor N	/laika
+ Open abstract	View article	PDF
OPEN ACCESS 2D Detection Mod B Mariyadi, N Fitriyar		012176 he Surface of Ceramic Tile by an Artificial Neural Network
	View article	₱ PDF
+ Open abstract	view article	
OPEN ACCESS Machine Learning SysML Language	Sentiment Analy	012177 rsis in Detection System for Rupiah Currency Value Using
Rio Aurachman, Luth	fi Ramadani and Nir	io Setyo Utomo
+ Open abstract	View article	PDF
OPEN ACCESS Information Syste 1:2018 using SysN		012178 nprovement Process Design based on Clause 8 ISO 20000-
Rio Aurachman, Nur	Ichsan Utama and Ja	auhari Habibie
+ Open abstract	View article	PDF
OPEN ACCESS		012179
Utilization Plastic Concrete in the Ci		(PolyEthylene Terephthalate) in the Making of Low-Quality /a
Kamaliah and Noviya	inthy Handayani	
+ Open abstract	View article	▶ PDF

Palangkaraya So	oil	city (Pi) and California Bearing Ratio (Cbr) Value of	012180
Noviyanthy Handay	yani and Norseta Ajie	Saputra	
+ Open abstract	View article	🄁 PDF	
OPEN ACCESS	uation on Google	Classroom Using USE Questionnaire	012181
-	-	Utomo and Hari Purnomo	
+ Open abstract	View article	PDF	
OPEN ACCESS			012182
Business process	s improvement in	brown sugar industry in Kudus regency	
Mu'adzah and Tauf	fiq Immawan		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012183
5		Lifting Spreader Construction Material ST43 Using S-N	Curve
Asep Dharmanto a			
+ Open abstract	View article	PDF	
-		ic Controller for Electric Motor Cycle Equivalent to 100-	012184 - 125 Cc
-	ith Regenerative E		
	aepudin and Pria Sul		
+ Open abstract	View article	PDF	
OPEN ACCESS	on Spare Dart Inve	ntory of Critical Asset with Life Cycle Cost Approach	012185
	-	o Prawahandaru, Bayu A. Swasono, Riyan Tri Sutartono and	
Taufig Immawan	Niza Siz Naberi, Haryo	nawanandara, baya A. Swasono, Kiyan m Sutartono and	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012186
Finding Novelty Winda Nur Cahyo	of Research with	Systematic Literature Mapping (SLM)	
+ Open abstract	View article	PDF	
OPEN ACCESS			012187
Designing user i A Heriyandi, R F Re		based e-commerce application	
+ Open abstract	Tiew article	🔁 PDF	
			010100
OPEN ACCESS Website-based /	Al-Ouran memoriz	zation monitoring and evaluation system design	012188
T Suryana, I Oktavia		the second state of the second state of the second se	
+ Open abstract	View article	PDF	
OPEN ACCESS			012189
	rmation system sa	ales	012103
F S Suwita, S A Sho			
+ Open abstract	View article	🄁 PDF	

OPEN ACCESS	- ((l l l-l-		012190
-		ndslide early warning	
E S Soegoto, F A Fa			
+ Open abstract	View article	PDF	
OPEN ACCESS		(012191
Implementation	of management i	information system at health agencies	
E S Soegoto, M E W	/ardana and D Oktaf	iani	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012192
Information syst	em for waste ban	k savings	
E S Soegoto, F H Ar	ifin and D Oktafiani		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012193
Technology-base	ed education		
A Friyanto, I Prasety	o and C N Albar		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012194
An Experimental n = 1	Study of the Sav	onius Water Current Turbine by means of Myring Equation	on for
P A Setiawan, M Sa	ntoso, <mark>R</mark> Indarti, N A	riwiyono, T Yuwono and W A Widodo	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012195
The Planning Of industry based o		nitoring System, and Humidity On Supply Chain potatos	
S Aman, S Intakoris,	, M Wijayanti and N	A Firmansyah	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012196
		ng the Existence of Information Systems in the Tourism lage Using TAM (Technology Acceptance Model)	
M K Legiawan, A Su	itoni and Mujiarto		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012197
Application platf	form for e-reserva	ation system in traditional show	
A Mulyana, D Rusm	ana and A A Rafdhi		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		(012198
An Experimental Myring Equation	· · ·	Ratio Effect to Savonius water Current Turbine by using	
P A Setiawan, R Ind	arti, N Ariwiyono, T	Yuwono and W A Widodo	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS		()12199
	e evaluation base	d on importance performance analysis method and the k	

model

SK Dewi and A Nugra	aha		
+ Open abstract	View article	PDF	
OPEN ACCESS			012200
Grafting of Maleio Trimethylol Propa		Cyclized Natural Rubber in the Melt Phase: the Effect	of
M Said Siregar, Desi	Ardilla, Eddiyanto an	nd Asmara Sari Nasution	
+ Open abstract	View article	PDF	
OPEN ACCESS Minimize waste o	n production pro	cess using lean concept	012201
SK Dewi, D M Utama	and R N Rohman		
+ Open abstract	View article	1 PDF	
OPEN ACCESS			012202
The Bojong 3 Stat	e, Bojong Village	s The Vco (Virgin Coconut Oil) Micro Business Perform , Panjatan Sub-District, Kulons Progo Regency	ance In
KRT Nur Suhascaryo			
+ Open abstract	View article	PDF	
OPEN ACCESS Flow visualization front of returning		vertical axis Savonius water turbine by placing a cylindo Jer angle	012203 er in
P A Setiawan, T Yuwa			
+ Open abstract	View article	PDF	
OPEN ACCESS			012204
Four-scroll chaoti dimensional dyna		our-scroll hyperchaotic attractor generated from a new	four-
Khaled Benkouider, 1	oufik Bouden, Must	ak E. Yalcin, Aceng Sambas, Mujiarto, Muhamad Ali Pahmi,	
Akhmad Sutoni and	Widjajani		
+ Open abstract	View article	PDF	
OPEN ACCESS			012205
Computer Modell Application in Sec	<u> </u>	ation Properties of Hyper Chaotic Lorenz System and ion System	lts
Volodymyr Rusyn, M	ujiarto, <mark>M</mark> ustafa Mar	mat, Firmansyah Azharul, W. S. Mada Sanjaya, Aceng Sambas,	
Estiyan Dwipriyoko a	nd Akhmad Sutoni		
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012206
A New 4-D Multis Synchronization a		tic Two-Scroll System, its Bifurcation Analysis, Ition	
Sundarapandian Vaio Akhmad Sutoni and I	-	mbas, Mujiarto, Mustafa Mamat, Wilarso, W.S. Mada Sanjaya,	
+ Open abstract	View article	PDF	
Environmenta	l and Earth sci	ence	
OPEN ACCESS			012207
	f Escherichia coli	and Salmonella typhi on MacConkey Agar Modification	

+ Open abstract 🔄 View article 🔁 PDF

Y Supriatin, V A Sumirat and M Herdiani

OPEN ACCESS	ity of Cymodecea	rotundata and Halodule pinifolia at Pulau Morotai	012208
-		ihammad and N Eso	
	_		
+ Open abstract	View article	PDF	
OPEN ACCESS			012209
Enhancing Food	Security through	out Aquaponicsin Urban Farming Development Strat	egy
Ristina Siti Sundari,	Adnan Arshad, Lies	Sulistyowati, Trisna Insan Noor and Iwan Setiawan	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012210
	ty Control of Chi	cken Nugget Products by Using Six Sigma Method at	
	Ratnawati and Salsa		
+ Open abstract	View article	🔁 PDF	
· open abstract			
OPEN ACCESS			012211
	ners Readiness in	the Sustainable Palm Oil Industry	012211
	i, H Mardesci, G Syal		
+ Open abstract	View article	PDF	
• open abstract			
Medical phys	ics		
OPEN ACCESS			012212
The Effect of Mo Process in WCC I		ing Mix Cadexomer Iodine Hydrogel on Wound Hea	ling
Dewi Hartinah, Hart	otok and Effendy Yu	Isuf	
+ Open abstract	View article	PDF	
Multidisciplin	ary science		
OPEN ACCESS			012213
Bioaccumulation	Of Lead (Plumbu	ım) In Red Tilapia Fish From The Jombor Swamp	
S D Andasari, A A St	tyawan, N Hidayati a	and O N Prasetyanti	
+ Open abstract	View article	🔁 PDF	
OPEN ACCESS			012214
	ian Districts Heal	th Care Information Model	
Dedy Prasetya Kristi	iadi, Muhaimin Hasa	nudin, Sutrisno, Jawahir, Ferry Sudarto and Rasyid Tarmizi	
+ Open abstract	View article	PDF	
			01001
OPEN ACCESS Design of a scan	ning thermocoup	le inhomogeneity	012215
		Achmadi, Arfan Sindhu Tistomo, Dwi Larassati and Agung Imac	luddin
			addin .
+ Open abstract	View article	PDF	
OPEN ACCESS			012216
	· ·	ousiness and Technology Park (ATP) IPB, Bogor, Indo	nesia
M. Fauzi Aditra, Pop	oong Nurhayati and	Siti Jahroh	
+ Open abstract	View article	🔁 PDF	

IOP Publishing © Copyright 2021 IOP Publishing Terms & conditions Disclaimer Privacy & cookie policy 🗹

This site uses cookies. By continuing to use this site you agree to our use of cookies.

PAPER • OPEN ACCESS

Electrical Energy Alternative of Magnetic Field Around Wire of Power Line

To cite this article: Yakob Liklikwati et al 2021 J. Phys.: Conf. Ser. 1764 012159

View the article online for updates and enhancements.



IOP ebooks[™]

Bringing together innovative digital publishing with leading authors from the global scientific community.

Start exploring the collection-download the first chapter of every title for free.

Electrical Energy Alternative of Magnetic Field Around Wire of Power Line

Yakob Liklikwati¹*, Syafruddin¹, Givy Devira Ramady¹, Ninik Sri Lestari¹, Herawati YS², and Rahmad Hidayat¹

1764 (2021) 012159

¹Sekolah Tinggi Teknologi Mandala, Bandung, Indonesia ²Universitas Kristen Maranatha, Bandung, Indonesia

*y.liklikwatil@gmail.com

Abstract. The electricity crisis can hamper various community or industrial activities. Meanwhile, the magnetic field with a high field strength around the wire and along the power line wire that is passed through a large electric current can be used as a new source of electricity with considerable power. For this reason, efforts are needed to utilize the magnetic field to offer an energy crisis solution. This research applies the magnet-electric law to the toroid core transformer to become a power plant. The simulation is carried out on a toroid transformer with an outer diameter of 11cm, 2.5cm thick, 9cm long which is mounted on a 27A current; 220V or 380V 3Ø. The result can be to turn on a 5W-160V or 10W-65V incandescent or 7W-200V LHE lamps. The value of 27A on the wire does not change due to the utilization of the magnetic field around the electric wire. From the analysis of a linear approach to power lines with larger currents up to several kA, a power of several kW can be generated at 220V. To get more power at a voltage of 220V required more toroidal transformers placed along the power line.

1. Introduction

Background of the crisis of electrical energy and electrical energy supply increasingly unable to meet consumers' needs. Their electric power transmission system that uses low voltage, medium or extra high voltage with large electric currents cause the magnetic field around the wire channel high power. Electric current in the wire line electric power it is alternating (ac) which will produce a magnetic flux varies with time can generate the induced voltage in accordance with Faraday's law. The emergence of the pros and cons about the dangers of electro magnetic field radiation in the vicinity of high-voltage wires and extra high,[1]. This study intends to utilize magnetic fields that exist on the power line of low voltage or medium voltage as a source of electrical energy, designing a piece of equipment that can tap magnetic flux that surrounds the wire transmission with the goal of making a power plant alternative based magnetic field is in the range of the transmission line that can generate a voltage of 220 V as a power supply for the public electricity supply in these locations, as well as changing views of people about the dangers of electromagnetic field radiation.[4][8]

Content from this work may be used under the terms of the Creative Commons Attribution 3.0 licence. Any further distribution of this work must maintain attribution to the author(s) and the title of the work, journal citation and DOI. Published under licence by IOP Publishing Ltd 1

2. Electromagnetic Fields In Surroundings Wire Channel Power

2.1 Basic Electromagnetic

Based on Maxwell's laws and Flemming around electrical wires that electrified will arise surrounding the magnetic field is along the wire and the wire with a magnetic field pattern as in figure 1. The first law of Maxwell say that; "Integral circumference of the magnetic field strength is proportional to the electric current that is on extents terlingkup the circumference of a circle".[1][2]

$$\oint_{l} H.dl = \int_{A} J.dA \tag{1}$$

dimana :

 \mathbf{H} = Magnetic field intensity (A-t / m)

dl = the smallest unit of path length circular

 \mathbf{J} = electric current density (A/m²)

dA = The smallest area of the magnetic field



Figure 1, a. Magnetic field on electric a wire or powerr line .b. Density of the magnetic flux with respect to the radius

Another form of equation 1, a direct relationship with a magnetic field intensity H in a circular path length $l = 2.\pi$.r, can be written as

$$2.\pi r.H = N.i \tag{2}$$

In single channel wire or a single wire coil that is N = 1, then the magnetic field strength at the point M as far r from the center point of the wire isr from the center point of the wire is

$$H = \frac{.N.i}{2.\pi.r} = \frac{1}{2.\pi.r} \tag{3}$$

If the electricity power lines were installed a toroid is then based on the law of ampere circle where wire line electric current is the primary winding of transformer toroid with the number of winding N_1 is 1 (one) winding wire through which the current *i* of the electricity power lines is considered as a

source of magnetic current or known as forced magnetomoti (mmf) has a direct relationship with a strong magnetic field H in a circular path length $l = 2.\pi$.r, can be written as [3][4]

$$2.\pi.r.H = N_{1}.i_{1} \quad \text{atau}$$

$$H = \frac{.N_{1}.i_{1}}{2.\pi.r} = \frac{1}{2.\pi.r}$$
(4)

Based on law induction voltage of Faraday's, the voltage induction generated at the primary side of the transformer toroid in the general form is [1][6][9]

$$e_1 = N_1 \cdot \frac{d\phi}{dt} \tag{5}$$

or

$$e_1 = \mu_o \cdot \mu_r \cdot H_1 \cdot A \cdot N_1 \cdot Cos \,\omega t \tag{6}$$

by ignoring the loss factor and the other, then in the same may as on the primary side, the induced voltage is generated in the secondary side of the transformer toroid in the general form is, [6][9]

$$e_2 = N_2 \cdot \frac{d\phi}{dt} \tag{7}$$

$$e_2 = \mu_o \cdot \mu_r \cdot H_2 \cdot A \cdot N_2 \cdot Cos \, \omega t \tag{8}$$

When loads such as incandescent lamps, with a rated power P_2^* , and the voltage V_2^* , lamp resistance is

$$R_B = \frac{(V_2^*)^2}{P_2^*} \tag{9}$$

The load current on the secondary side of the transformer is

$$I_2 = \frac{V_2}{R_B} = \frac{V_2 \cdot P_2^*}{(V_2^*)^2}$$
(10)

If the ratio of toroid winding and primary power line is

$$N_2 \cdot \frac{V_2 \cdot P_2^*}{(V_2^*)^2} k = N_1 \cdot I_1$$
(11)

where:

 V_2 is the voltage that occurs at the secondary side in a state burdened I_1 is current on the primary in a state burdened

Then, if we want to determine how much power the load (lights) can be supplied with a voltage V_2 equal to the rated voltage of 220 volt lights, then the equation is

$$P_2^* = \frac{N_1 \cdot I_1 \cdot (V_2^*)^2}{N_2 \cdot V_2 \cdot k} = \frac{N_1 \cdot I_1 \cdot 220}{N_2 \cdot k}$$
(12)

It means that to supply the load with power P_2^* at a voltage of 220 volts required primary current (current on power line) that is equal to I_1 ,

$$V_2 = \frac{N_1 \cdot I_1 (V_2^*)^2}{N_2 \cdot P_2^* \cdot k}$$
(13)

IOP Publishing 1764 (2021) 012159 doi:10.1088/1742-6596/1764/1/012159

3. Simulations Experiment

In this research used two kinds of toroidal sizes are: Type 1 with a core size of the outside diameter (D) 11 cm, thickness (T) of 2.54 cm, length (L) 9 cm, the maximum output voltage of 240 V, the number of windings (N₂) 250, and type 2 with size D = 9 cm, T = 2.5 cm, L = 8cm, the number of windings (N_2) 250 for comparison. See figure 3. Load the secondary form varies the 5W incandescent lamp, 10 W, 25W, 40 W, 60 W and Electronic TL 7W and 15W. [4][7]. Experiment circuits are shown in figures 2 and 3



Figure. 2: Photo of circuit of Toroid system, in lab

Figure. 3: The Circuits of experiments 2

3.1 Experiment 1

Experiment 1, is intended to determine the magnitude and ability of the magnetic field energy produced by electric current I1 on the cable to turn on lamps with different power sizes and voltage values generated in the lamp. Technically it is: wire lines as the main power source with a constant load in the form of 17 kW 3-phase electric motors. Using toroid type 1 and type 2 which are installed alternately on a single phase wire, that is in Figure 2. (results see tables 1 and 2).

3.2 Experiment 2

Variable of line current, is intended only to determine how much current I_1 to be flowing in the wire line electric power (on primary side) so that each lamp can light normally at a voltage of 220 V on the secondary side of the toroid.

3.3. Experiment Results

For the first experiment are shown in Table 1 and 2. And to experiment 2 are shown in Table 3. The experimental results that the primary burden in the form of three phase motors in a normal running state shown in tabel1, Toroid type 1. Load of toroida is (a) incandescent lamp as ^a and (b) Electronic TL as ^b

3.3.1. The results of the experiments 1a, with current I_1 are the value of the 3-phase motor current as a load of the primary power line, and using toroid type 2 are shown ini table 1

Tabel 1. is the result by Using Toroid type 2						
Lamp (W)	W) Volt.of Lamp (V)		Description			
5 W ^a	160	27	dim			
10W ^a	60	27	dim			
7W ^b	200	27	bright			

60W ^a 15W ^b

explode

IOP Publishing

3.3.2. The results of the experiments 1b , with current I_1 are the value of the motor starting current as a load of the primary power line, dan using toroid type 1 are shown init table 2

the motor current							
	Load Lamp (W)	$I_1(A)$	V _{L1} (V)	Description			
	10W ^a	80	230	bright			
	40W ^a	80	225	bright			
	60W ^a	80	165	dim			

>250

Table 2. Fesults of the experiments , with current I_1 are the value of the motor current

3.3.3. The results of the experiments 2, Variable of line current , is intended only to determine how much current I_1 to be flowing in the wire line electric power (on primary side) so that each lamp can light normally at a voltage of 220 V on the secondary side of the toroid. The secondary (low voltage) short circuited with a long wire as the primary line current I_1 , by using slide regulator to obtain the amount of current that can be set, see figure 3 and the results can be seen in table 3.

80

Table 3. The results of the experiment 2, with variable line current, using the toroid type 1

Load Lamp (W)	I_1 (A)	Lamp voltage (V)	Description
40W a	70	220	bright
60W ^a	105	220	bright
100W a	175	220	bright

Thevalue of the current in table **3** above is the large excitation current is required to flow on the wires of electricity to power the lights burden toroid size or type 1 at the price of normal voltage of 220 volts It can be analyzed through the characteristic curve current wires primer I_1 and toroid load voltage V_L for some great nominal wattage of incandescent bulbs following



Figure 4, Curve $I_1 - V_L$ on the value of different loads

The dashed line is the possible voltage that can occur and curved lines caused by saturation of the toroid core. Results of experiments using toroidal type 1 (T_1), type 2 (T_2) and type 3 (T_3), using a set of images and slide regulator fig.3 single phase system as a variable voltage source, shown in table 3

4 Discussion

From table 1 with a load of secondary that incandescent lamps 5W, the light is dimmed with a voltage of 160 V, the current (I₁) 27 A, an incandescent bulb 10 W, the light is dimmed by the voltage 65 V, is still on the current (I₁) 27 A, whereas with Electronic TL 7W bulbs, lights brightly with a voltage of 200 V, and the current (I1) is still at the same value at 27 A; meaning there is no change in the current

 PVJ_ISComSET 2020
 IOP Publishing

 Journal of Physics: Conference Series
 1764 (2021) 012159
 doi:10.1088/1742-6596/1764/1/012159

flow in primer power line due to the load change of the toroid transformer secondaries. In table 2 with incandescent light load on the flow channel 80 A, 10 W lamps can be lit up very bright and 40 W lamps also brightly, while the 60 W lamp dimly. In table 3 with toroid transformer type 1, shows that to light a 40W incandescent lamp at a voltage of 220 V necessary flow channel 70 A, 60 W lamps need to current 105 A, and 100W lamps need current 175 A.

5. Conclusion

Alternative energy can be obtained through the use of magnetic field energy that is along the power lines using toroids. From the analysis through a linear approach that in power lines with larger currents up to hundreds of amperes can be obtained power up to several kilowatts at 220V. And the more toroids installed along the power line, the more new electrical energy will be obtained.

The greater the electric current flowing in the wire, the greater the energy produced by the magnetic field around the wire with the highest magnetic field intensity located at the nearest radius of the electric power line.[2]

6. Suggestion

Further study on power lines with larger electric currents, it is necessary to design toroidal core transformers with larger sizes. The use of more transformers to be installed in rows on long electric cables in a three-phase system, to ensure there is no influence of the use of the magnetic field along the wire line on current, voltage and power in this main power line.

References

- [1] Carlson A Bruce and Gisser David G 1981. book Electrical Engineering concepts and Application ed Tom Robins USA (Addison-Wesley Series in Electrical Engineering publication) vol 1, pp 627–642
- [2] John Carl T A 1988. *Engineering Electromagnetic Field and Waves* (publish by John Wiley and Son) vol 1 chapter 2 pp 78–92
- [3] Seippel Robert G 1997. Fundamental Of Electricity Basics of Electricity, Electronics, Controls and Computers ed copyright by American Technical Society, vol 6 2th print Chapter 7 pp 98–101 and chapter 11 pp 219–222
- [4] Leach Donald P 1976 Basic Electric Circuit (Coppy by John Wiley and Sons Los Altos Hills, California: New York /Chichester/Brisbane/Toronto/Singapore) vol 2 chapter 11 pp 248–291
- [5] Hidayat Rahmad, Fauzi Fachrul Rezka, Yakob Liklikwatil 2019. Analysis of 4G Data Service Quality (Journal of Physics: Conference Series, publishing by IOP) vol 1175 issu 1 pp 012126
- [6] Liklikwatil Yakob 2014. *Mesin Mesin Listrik* ed Herlambang Rrahmadhani and Ika Fatria Iriyanti (publisher Deepublish, Yogyakarta), vol 1, chapter 1 pp 2-4 and chapter 10 pp 198-199
- [7] EMC Test Systems, 2001. Helmholtz Coil Manual
- [8] Hidayat R, Liklikwatil Yakob, Setiawan Hamdani, Santoso S, Lestari Ninik Sri 2017. Antena Cerdas untuk Mitigasi Interferensi dengan Algoritma Least Mean Square. (Setrum: Sistem Kendali-Tenaga-Elektronika-Telekomunikasi-Komputer vol 6) pp.97–105
- [9] Fitzgerald A E, Kingsley Jr Charles, Umans Stephen D 1983 Handbook on the Electric Machinery ed T. Michael Slaughter and David A.Damstra, McGRAW-HILL International Book Company, Intrnational Student Edition (Auckland: Bogota Guetemala Hamburg Johannesburg Lisbon London Madrid Mexico New Delhi Panama Paris San Juan Sao Paulo Singapure Sydney Tokyo), vol 6, chapter 1 pp 1-37

Acknowledgments

1764 (2021) 012159 doi:10.1088/1742-6596/1764/1/012159

Finally, the authors are grateful for moral encouragement and support, the direction of writing international journals from the STT Mandala Research Institute, and special staff of technical staff and financial support from friends so that this journal / article can be completed