pubs.aip.org/aip/acp

Volume 2614

The 8th International Conference on Mathematics, Science and Education 2021

Semarang, Indonesia • 5–6 October 2021 Editors • Sugianto, Kinya Shimizu, Edy Cahyono, Masturi, Cher Ping Lam and Shafiq Aazmi

"Opportunities and Challenges for Research and Innovation in Mathematics, Science, and Education in Post-Pandemic Era"



AIP Conference Proceedings

RESEARCH ARTICLE | JUNE 16 2023

Preface: International Conference on Mathematics, Science and Education (ICMSE) FREE

() Check for updates

AIP Conference Proceedings 2614, 010001 (2023) https://doi.org/10.1063/12.0014219



CrossMark







Preface: International Conference on Mathematics, Science and Education (ICMSE)

International Conference on Mathematics, Science and Education (ICMSE) is the international conference hosted by Faculty of Mathematics and Natural Sciences Universitas Negeri Semarang and Co-Host by UiTM and Association of Mathematics and Natural Science Teacher Training Institute Indonesia (AMLI). The eighth conference brought the theme of Opportunities and Challenges for Research and Innovation in Mathematics, Science, and Education in Post-Pandemic Era. This conference presented the discussion of the challenge of research and education in pandemic era. The conference was conducted virtually to prevent the spread of the virus on 5-6 October 2021.

The invited speakers from five countries consisting of Ezza Syuhada Binti S., Ph.D (Universiti Teknologi Malaysia, Malaysia), Shafieq Aazmi, Ph.D (Universiti Teknologi Mara, Malaysia), Dr. Yasmi Louhasakul (Yala Rajabhat University, Thailand), Prof. Kinya Shimizu (Hiroshima University, Japan), Prof. Cher Ping Lim (The Education University of Hong Kong, Hong Kong), Zaenal Abidin, Ph.D. (Universitas Negeri Semarang, Indonesia) delivered their talk through video conference. All keynote speakers shared the material from their countries as well as the participants.

The participants consisted of several presenters and participants coming from several universities in Indonesia and some other countries Malaysia, Thailand, Japan, India, French, Egypt, and Bangladesh. There were three sessions which involved opening, invited speaker presentation and authors' parallel presentation. Opening session consisting of keynote speech and opening remark lasted 20 minutes, followed by each invited speaker presentation for 20 minutes and each author presentation took 10 minutes. The breakout rooms were provided to facilitate authors in presenting their research result. There were 14 rooms for parallel session which is guided by one moderator to lead the discussion. Participants still could involve themselves in the intellectual discussion in invited speakers and parallel sessions although the conference was conducted virtually as they could write the question through chat box or directly deliver their question.

In addition, I would like to acknowledge all of supporting teams, especially to the organizing committee members and reviewers, for their great contribution in conference organization. We hope that this program will further encourage research publication in Mathematics and Science Education and build trust relationship. We feel honoured and privileged to serve the best recent developments in the field of Mathematics and Science Education to you through this exciting program.

Chairperson,

Endang Sugiharti, M.Si.

The 8th International Conference on Mathematics, Science and Education 2021 AIP Conf. Proc. 2614, 010001-1–010001-3; https://doi.org/10.1063/12.0014219 Published by AIP Publishing. 978-0-7354-4549-9/\$30.00

010001-1

COMMITTEE

Conference Chairs

Endang Sugiharti, M.Si.

Arif Widyatmoko, Ph.D.

Organizing Committee

Dr. Noor Aini Habibah, S.Si., M.Si Cepi Kurniawan, S.Si., M.Si., Ph.D. Dr. Dwi Yulianti, M.Si. Stephani Diah Pamelasari, S.S., M.Hum.

Program Commiteee

Zaenal Abidin, S. Si., M. Cs., Ph.D.

Dr. Woro Sumarni, M.Si Dr. Langlang Handayani, M.App.Sc

Technical Committee

Budi Parsetyo, S.Si., M.Kom

Muhammad Abdullah, S. Si., M. Sc. Subhan, M.Kom.

Trisni Wulandari V., S.E., M.M Aji Purwinarko, S.Si., M.Cs

Antonius Supriyadi, S. E., M. M. Ninik Purwaningsih, A.Md., S.E., M.Si. Titik Ismiyati, S.Hum.

Scientific Committee

Dr Sugianto, M.Si Dr. Masturi, M.Si. Prof. Kinya Shimizu

Prof. Dr. Ani Rusilowati, M.Pd. Dr. Mahardika Prasetya Aji M.Si. Prof. Dr.Edy Cahyono, M.Si Prof. Dr. Hans-Stefan Siller Prof. Dr. Hirotoshi Tamura Prof. Dr. Fahrul Zaman Bin Huyop Prof. Dato' Dr. Muhammad Yahaya

Mary Margaret Thoma, M.Sc., Ph.D

dr. Rizki Edmi Edison, Ph.D Dr. Yasmi Louhasakul Muhammad Alauhdin, Ph.D Prof. Dr. Ir. Dyah Rini Indriyanti, M.P Dr. Masrukan, M.Si Dr. Parmin M.Pd. Dr. Margareta Rahayuningsih, S.Si, M.Si Prof. Dr. Ir. Amin Retnoningsih, MSi. Prof. Dr. Enni Suwarsi Rahayu, M.Si. (Computer Science Department, Universitas Negeri Semarang, Indonesia) (Science Education, Universitas Negeri Semarang, Indonesia)

(Biology Department, Universitas Negeri Semarang, Indonesia) (Chemistry Department, Universitas Negeri Semarang, Indonesia) (Physics Department, Universitas Negeri Semarang, Indonesia) (Science Education, Universitas Negeri Semarang, Indonesia)

(Computer Science Department, Universitas Negeri Semarang, Indonesia) (Chemistry Department, Universitas Negeri Semarang, Indonesia) (Physics Department, Universitas Negeri Semarang, Indonesia)

(Computer Science Department, Universitas Negeri Semarang, Indonesia)
(Biology Department, Universitas Negeri Semarang, Indonesia)
(Computer Science Department, Universitas Negeri Semarang, Indonesia)
(Universitas Negeri Semarang, Indonesia)
(Computer Science Department, Universitas Negeri Semarang, Indonesia)
(Universitas Negeri Semarang, Indonesia)

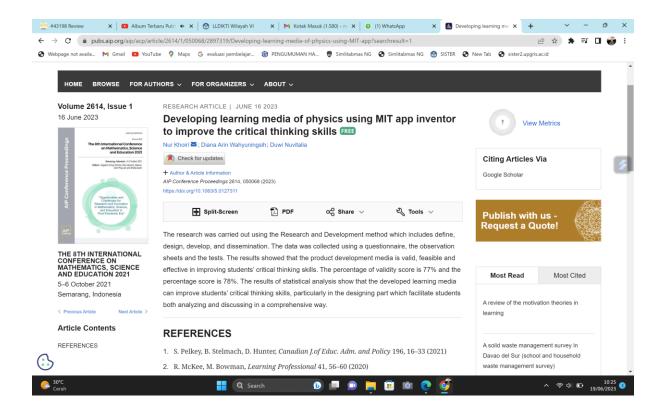
(Physics Department, Universitas Negeri Semarang, Indonesia) (Physics Department, Universitas Negeri Semarang, Indonesia) (Graduate School of Humanities and Social Science, Hiroshima University, Japan) (Physics Department, Universitas Negeri Semarang, Indonesia) (Physics Department, Universitas Negeri Semarang, Indonesia) (Chemistry Department, Universitas Negeri Semarang, Indonesia) (Mathematics Education, Universität Würzburg, Germany) (Faculty of Agriculture, Kagawa University, Japan) (Fakulti Sains Universiti Teknologi Malaysia, Malaysia) (Institute of Microengineering and Nanoelectronics (IMEN) and School of Applied Physics, Universiti Kebangsaan Malaysia, Malaysia) (Canada/Visiting Lecturer at the Universitas Pendidikan Indonesia, Bandung, Indonesia) (Department of Public Health Muhammadiyah University, Indonesia) (Yala Rajabhat University, Thailand) (Chemistry Department, Universitas Negeri Semarang, Indonesia) (Biology Department, Universitas Negeri Semarang, Indonesia) (Mathematics Department, Universitas Negeri Semarang, Indonesia) (Science Education Department, Universitas Negeri Semarang, Indonesia) (Biology Department, Universitas Negeri Semarang, Indonesia) (Biology Department, Universitas Negeri Semarang, Indonesia) (Biology Department, Universitas Negeri Semarang, Indonesia)

Dr. Isti Hidayah, M.Pd Prof. Dr. Sutikno Prof. Dr. Ibnu Maryanto

Prof. Md. Rahim Sahar Dr. Uda Hashim Assoc. Prof. Dr. Zaiton Abdul Majid Assoc. Prof. Dong Fengming, PhD

Prof. Dr. I Nengah Suparta, M.Si. Prof. Dominic Reeve, Ph.D.

Prof. Dr. Zaenuri, S.E, M.Si,Akt Prof. Dr. Sudarmin, M.Si Prof. Dr. Putut Marwoto M.S Prof. Dr. St. Budi Waluya, M.Si Dr. Woro Sumarni, M.Si Dr. rer.nat. Adi Nur Cahyono, S.Pd., M.Pd. (Mathematics Department, Universitas Negeri Semarang, Indonesia) (Physics Department, Universitas Negeri Semarang, Indonesia) (Zoology Division Research Centre for Biology, Indonesian Institute of Sciences) (Department of Physics, Universiti Teknologi Malaysia, Malaysia) (Universitise) Malaysia Perlis, Malaysia) (Physical Chemistry – Universiti Teknologi Malaysia, Malaysia) (Mathematics – National Institute of Education, Nanyang Technological University, Singapore) (Mathematics – Universitas Pendidikan Ganesha, Indonesia) (Coastal Engineering & Chartered Mathematics, Swansea University, United Kingdom) (Mathematics Department, Universitas Negeri Semarang, Indonesia) (Chemistry Department, Universitas Negeri Semarang, Indonesia) (Physics Department, Universitas Negeri Semarang, Indonesia) (Mathematics Department, Universitas Negeri Semarang, Indonesia) (Chemistry Department, Universitas Negeri Semarang, Indonesia) (Mathematics Department, Universitas Negeri Semarang, Indonesia)



lss	ues
Select Decad	e 2020 V
Select Year	2023 🗸
Issue	16 June - Volume 2614, Issue 1

PRELIMINARY

Preface: International Conference on Mathematics, Science and Education (ICMSE) @ AIP Conf. Proc. 2614, 010001 (2023) https://doi.org/10.1063/12.0014219

BIOLOGY AND ITS APPLICATIONS

Expression and purification of *Bst* polymerase using a rhamnose-inducible system in *Escherichia coli* Fina Amreta Laksmi; Eva Agustriana; Isa Nuryana; Rike Rachmayati; Kartika Sari Dewi; Asta Ismadara *AIP Conf. Proc.* 2614, 020001 (2023) https://doi.org/10.1063/5.0127168

Abstract V	/iew article	🔁 PDF
------------	--------------	-------

Antibacterial activity of *Lactobacillus plantarum* F75 against *Escherichia coli* and *Staphylococcus aureus* Jesslyn Tanoto; Florecita M. N. Sanaky; Marcelia Sugata; Tan Tjie Jan

AIP Conf. Proc. 2614, 020002 (2023) https://doi.org/10.1063/5.0127313

Abstract ✓ View article DF

Gastropod collection in biota collection room Universitas Indonesia (Ruang Koleksi Biota UI/RKBUI): From University's collection to a greater impact collection *©*

Alexander Tianara; Bhisma Gusti Anugra; Wisnu Wardhana AIP Conf. Proc. 2614, 020003 (2023) https://doi.org/10.1063/5.0126740

Abstract V	View article	D PDF
------------	--------------	-------

Pest population dynamics of rice plant (Oryza sativa) on agricultural land in Klaten @

Parmin; Erna Noor Savitri; Andin Vita Amalia; Miranita Khusniati; Andhina Putri Heriyanti *AIP Conf. Proc.* 2614, 020004 (2023) https://doi.org/10.1063/5.0140166

Abstract ✓ View article 🔂 PDF

Diversity of the macrofauna of latosol soil in the protected forest of Mounth Sangga Buana, Tegalwaru subdistrict, Karawang district, West Java Province ⊘

Suhadi; Agus Dharmawan; Nugrahaningsih; N. Dwinur Rizki Kurniasari; Anisa Meilia Ashoffi AIP Conf. Proc. 2614, 020005 (2023) https://doi.org/10.1063/5.0125736

Abstract 🗸 View article 🔂 PDF

			olume 2614 Issue 1 AIP Conference Proceedings AIP Publishing
The growth o	of Metarhizium	anisopliae	grown on reused corn medium 🥝
			Ning; Ade Haning Setia Pratiwi
AIP Conf. Proc. 26	14, 020006 (2023) http	os://doi.org/10.10	063/5.0126778
Abstract V	View article	🖾 PDF	
Android boo	od incinarator a	ficionovin	handling Covid 10 infactious waste
		-	n handling Covid-19 infectious waste ⊘
	ia; Miranita Khushi 14, 020007 (2023) http		Putri Heriyanti; Trida Ridho Fariz; Ni Luh Tirtasari
7111 00111.1100.20	14, 020007 (2020) 114	55.//doi.org/10.10	1
Abstract V	View article	🔁 PDF	
Soil macrofa	una species di	versitv as a	an environmental quality indicator ⊘
	abekti; Siti Harnina		
	14, 020008 (2023) http		
		. -:	
Abstract ∨	View article	🖾 PDF	
Titer detection	on of Avian Influ	uenza (AI) a	antibody in Philippine chicken breed: A case study in Gorontalo
		. ,	maji; Djuna Lamondo; Wirnangsi Din Uno; Kristina Dwi Wulandari
	14, 020009 (2023) http		
		-	
Abstract 🗸	View article	🔁 PDF	
streptozotoc	in-induced diab	oetic rats ⊘	ced water potentiates antidiabetic activity of glibenclamide in
streptozotoci Palupi Poppy Di	in-induced diab	oetic rats ⊘ mmed Safwar	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus
streptozotoci Palupi Poppy Di	in-induced diab ah; Ali Khan Muha	oetic rats ⊘ mmed Safwar	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http 	Detic rats ⊘ Immed Safwar Dos://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract V	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article	oetic rats ⊘ Immed Safwar ps://doi.org/10.10 I PDF	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon o	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st	oetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080] Batu-East Java based on SWOT analysis ⊘
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon o Novita Kartika Ir	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article Conservation st adah; Evie Ratnasa	oetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080] Satu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon o Novita Kartika Ir	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st	oetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080] Satu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon o Novita Kartika Ir	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article Conservation st adah; Evie Ratnasa	oetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080] Satu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon o Novita Kartika Ir AIP Conf. Proc. 26	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http	oetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080] Satu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon (Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article	etic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080] Ratu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri 063/5.0129085
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st dah; Evie Ratnasa 14, 020011 (2023) http View article	oetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus 063/5.0126080] Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri 063/5.0129085
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon G Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation c ability on bio	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material ©	opetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080] Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri D63/5.0129085
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract V Persimmon (Novita Kartika Ir AIP Conf. Proc. 26 Abstract V Correlation c ability on bio Fauziyah Harah	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st dah; Evie Ratnasa 14, 020011 (2023) http View article	oetic rats ⊘ Immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080 Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri D63/5.0129085 ystem (LMS) based blended learning with self regulated learning ; Jusna Ahmad
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of ability on bio Fauziyah Harah AIP Conf. Proc. 26	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material © ap; Eni Susanti; A 14, 020012 (2023) http	etic rats immed Safwar is://doi.org/10.10 PDF rategy at B ari; Eva Kristin is://doi.org/10.10 PDF agement s issar Hasairin; issar Hasairin;	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080 Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri D63/5.0129085 ystem (LMS) based blended learning with self regulated learning ; Jusna Ahmad
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract V Persimmon (Novita Kartika Ir AIP Conf. Proc. 26 Abstract V Correlation c ability on bio Fauziyah Harah	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material @ ap; Eni Susanti; A	oetic rats ⊘ Immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080 Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri D63/5.0129085 ystem (LMS) based blended learning with self regulated learnin ; Jusna Ahmad
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of ability on bio Fauziyah Harah AIP Conf. Proc. 26	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material © ap; Eni Susanti; A 14, 020012 (2023) http	etic rats immed Safwar is://doi.org/10.10 PDF rategy at B ari; Eva Kristin is://doi.org/10.10 PDF agement s issar Hasairin; issar Hasairin;	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080 Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri D63/5.0129085 ystem (LMS) based blended learning with self regulated learnin ; Jusna Ahmad
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of ability on bio Fauziyah Harah AIP Conf. Proc. 26 Abstract ~	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st dah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material @ ap; Eni Susanti; A 14, 020012 (2023) http View article	etic rats ⊘ immed Safwar os://doi.org/10.10 PDF rategy at B ari; Eva Kristin os://doi.org/10.10 DPF agement sy os://doi.org/10.10 DPF	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080] Batu-East Java based on SWOT analysis nawati Putri; Ahmad Bashri D63/5.0129085] ystem (LMS) based blended learning with self regulated learnin ; Jusna Ahmad D63/5.0126438
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of ability on bio Fauziyah Harah AIP Conf. Proc. 26 Abstract ~	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material @ ap; Eni Susanti; A 14, 020012 (2023) http View article	opetic rats ⊘ immed Safwar os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080] Gatu-East Java based on SWOT analysis nawati Putri; Ahmad Bashri D63/5.0129085] ystem (LMS) based blended learning with self regulated learnin ; Jusna Ahmad D63/5.0126438] d learning integrated with deep source usage on students' critica
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of ability on bio Fauziyah Harah AIP Conf. Proc. 26 Abstract ~ The effective creative thinl	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material @ ap; Eni Susanti; A 14, 020012 (2023) http View article eness of free inv king and self-di	etic rats mmed Safwar os://doi.org/10.10 PDF rategy at B ari; Eva Kristin os://doi.org/10.10 PDF agement sp osshar Hasairin; os://doi.org/10.10 PDF agement sp os://doi.org/10.10	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080] satu-East Java based on SWOT analysis nawati Putri; Ahmad Bashri D63/5.0129085] ystem (LMS) based blended learning with self regulated learnin ; Jusna Ahmad D63/5.0126438] d learning integrated with deep source usage on students' critic
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of ability on bio Fauziyah Harah AIP Conf. Proc. 26 Abstract ~ The effective creative thinl Paidi; Rizqa De	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st adah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material @ ap; Eni Susanti; A 14, 020012 (2023) http View article	etic rats mmed Safwar os://doi.org/10.10 PDF rategy at B ari; Eva Kristin os://doi.org/10.10 PDF agement sy oshar Hasairin; os://doi.org/10.10 PDF quiry-based irected lear fias Pratama	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080 Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri D63/5.0129085 ystem (LMS) based blended learning with self regulated learnin ; Jusna Ahmad D63/5.0126438 d learning integrated with deep source usage on students' critica ming skills ⊘
streptozotoci Palupi Poppy Di AIP Conf. Proc. 26 Abstract ~ Persimmon of Novita Kartika Ir AIP Conf. Proc. 26 Abstract ~ Correlation of ability on bio Fauziyah Harah AIP Conf. Proc. 26 Abstract ~ The effective creative thinl Paidi; Rizqa De	in-induced diab ah; Ali Khan Muha 14, 020010 (2023) http View article conservation st dah; Evie Ratnasa 14, 020011 (2023) http View article of learning man logy material @ ap; Eni Susanti; A 14, 020012 (2023) http View article eness of free in- king and self-di vi Anazifa; Anggi T	etic rats mmed Safwar os://doi.org/10.10 PDF rategy at B ari; Eva Kristin os://doi.org/10.10 PDF agement sy oshar Hasairin; os://doi.org/10.10 PDF quiry-based irected lear fias Pratama	n; Novembrina Metrikana; Buanasari; Rahmawati Fita; Andayani Tri Murti; Sus D63/5.0126080 Batu-East Java based on SWOT analysis ⊘ nawati Putri; Ahmad Bashri D63/5.0129085 ystem (LMS) based blended learning with self regulated learnin ; Jusna Ahmad D63/5.0126438 d learning integrated with deep source usage on students' critica ming skills ⊘

Using lesson study to see collaboration and communication skills improvement on biology education graduate students in online learning *⊘*

Yanang Surya Putra Hardyanto; Faizah Nur Faridah; Pratika Desy Anggraeni; Rahel Natalia Saragih Munthe; Herawati Susilo AIP Conf. Proc. 2614, 020014 (2023) https://doi.org/10.1063/5.0126007

Abstract V	View article	DF PDF	
			lents about Covid-19 ⊘
	dya Pitaloka; Hadi 4, 020015 (2023) http:		063/5.0126058
	.,,	g,	1
Abstract ∨	View article	DF	
Design thinkir thinking ⊘	ng and EDS pr	ompt in S⊺	FEAM learning: The impact on germane cognitive load and creative
Titania Arenda; F	ladi Suwono		
AIP Conf. Proc. 2614	4, 020016 (2023) http:	s://doi.org/10.10	063/5.0126059
Abstract V	View article	DF	
	ntation of desig	-	in STEAM learning to improve students critical thinking skills and
	sta; Hadi Suwono		
AIP Conf. Proc. 2614	4, 020017 (2023) http:	s://doi.org/10.10	363/5.0126060
Abstract V	View article	DF PDF	
improve high learning perio Amirah Nadiah Vi	school student d ⊗	atud Diniyyah	a the process-oriented guided inquiry learning (POGIL) model to ration skills and biology concepts understandings during the online a; Ahmad Kamal Sudrajat; Herawati Susilo; Balqis 263/5.0126995
Study of Pepe supplement @		<i>la</i> as antid	iabetic plant for the development of digestive system material
	atau; Margaretha S 4, 020019 (2023) http:		a Maryati Yusuf; Novri Youla Kandowangko; Aryati Abdul; Masra Latjompoh)63/5.0126591
Abstract ∨	View article	🔁 PDF	
completed by Cecep Rustana;		on for high Siswoyo	yht utilizing PODE (predict-observe-discuss-explain) learning strategy n school student of grade XI ⊘ 063/5.0127479
The developn ⊘	nent of environ	mental po	llution game based learning (EPGBL) for junior high school students
Arif Widiyatmoko:	Muhamad Taufid	Indah Urwa	tin Wusqo; Aji Purwinarko; Melissa Salma Darmawan; Epafraditus Memoriano; Agung

AIP Conf. Proc. 2614, 020021 (2023) https://doi.org/10.1063/5.0125832

Laksono

3, 10:05 AM		Volume 2614 Issue 1 AIP Conference Proceedings A	IP Publishing
Abstract V	View article	PDF	
Elinbook base	d on problem-ba	sed learning: Its development to bolster student critica	I thinking skills @
		naki; Jeni Jeni; Sitti Dwi Ismi Mergwar; Insar Damopolii	
	4, 020022 (2023) https://do		
Abstract ∨	View article	PDF	
Classical med	chanics experime	it using smartphone sensors to train science process	skills ⊘
Prasetyo Listiaji;	Novi Ratna Dewi; Ark	a Yanitama; Nor Farahwahidah Abdul Rahman	
AIP Conf. Proc. 261	4, 020023 (2023) https://do	i.org/10.1063/5.0125916	
Abstract V	View article	PDF	
	ne ability of prima na; Fina Fakhriyah; S	y teacher education lecturers in TPACK-based E-learn	ning ⊘
AIP Conf. Proc. 261	4, 020024 (2023) https://do	i.org/10.1063/5.0125958	
Abstract ~	View article	PDF	
Regina Lichteria			
Abstract 🗸	View article	PDF	
Novi Ratna Dewi		ognition assessment tools based on diagnostic tests u asetyo Listiaji; Arka Yanitama; Ida Dwijayanti i.org/10.1063/5.0126265	ising mood l e ⊘
,	, 020027 (2020) https://doi.org		
Abstract ~	View article	9 PDF	
science teach Erna Noor Savitri	ier students ⊘ ; Andin Vita Amalia; F	iment-based case method to practice communication	skills for prospective
AIP Conf. Proc. 261	4, 020028 (2023) https://do	i.org/10.1063/5.0125864	
Abstract ~	View article	PDF	
learning outco		combined with Google meet and email to increase st ation materials during the Covid-19 pandemic ⊘	udent activities and
Fatriya Adamura	4, 020029 (2023) https://do	i org/10 1063/5 0140244	
AIF GUIII. PIUC. 201	τ, σεσσεσ (εσεσ) https://do	1.019/10.1009/0.0140244	
Abstract 🗸	View article	DPDF	

Science teacher professional development program on teaching using augmented reality 🥝

Arif Widiyatmoko; Muhamad Taufiq; Indah Urwatin Wusqo; Melissa Salma Darmawan; Agung Laksono; Aulia Miftakhuljannah *AIP Conf. Proc.* 2614, 020030 (2023) https://doi.org/10.1063/5.0125837

/	0011111100. 2011, 020000	(Loco) mapoin donoi gr	1011000/010120001

Abstract V			
	View article	N PDF	
	on of explorato s based on cor		nalysis (EFA) in savi training model for science lessons using arning ⊘
•			Iradi; Asri Budiningsih; Insih Wiludjeng
AIP Conf. Proc. 261	4, 020031 (2023) http	os://doi.org/10.10	063/5.0125780
Abstract V	View article	D PDF	
Design of scient	-	based on (CoSpaces-Edu paper cube augmented reality through computation
Muhamad Taufiq;	; Murbangun Nusv	wowati; Harto	no Hartono; Pratama Bayu Widagdo
AIP Conf. Proc. 261	4, 020032 (2023) http	os://doi.org/10.10	063/5.0126131
Abstract V	View article	🔁 PDF	
Review of the	e scienceprene	eurship apr	oroach in science learning ⊘
	no Madnasri; Edy		-
	4, 020033 (2023) http		
AIP Conf. Proc. 261			
AIP Conf. Proc. 261	View article	🖟 PDF	
	View article	D PDF	
Abstract ∨ Augmented re			assrooms (ARISC) for learning science for students with physical
Abstract ✓ Augmented re disability ⊘	eality inclusive	e science c	
Abstract ∽ Augmented re disability ⊘ Firmanul Catur W	eality inclusive Vibowo; Suprihatir	e science cl	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc
Abstract ∽ Augmented re disability ⊘ Firmanul Catur W	eality inclusive	e science cl	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc
Abstract ∽ Augmented re disability ⊘ Firmanul Catur W	eality inclusive Vibowo; Suprihatir	e science cl	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc
Abstract ∽ Augmented re disability ⊘ Firmanul Catur W AIP Conf. Proc. 261	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http	e science cl n; Dimas Kurr os://doi.org/10.10	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc
Abstract ✓ Augmented re disability ⊘ Firmanul Catur W AIP Conf. Proc. 261 Abstract ✓ Comparing cr	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article	e science cl n; Dimas Kurr ps://doi.org/10.10 DPDF skills betwee	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 063/5.0126305
Abstract V Augmented red disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh:	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env	e science cl n; Dimas Kurr ps://doi.org/10.10 PDF skills betwe vironmenta	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 263/5.0126305
Abstract V Augmented re disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh:	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env	e science cl n; Dimas Kurr ps://doi.org/10.10 DPDF skills betwe vironmenta Shimizu; Hen	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 063/5.0126305] eeen rural and urban students in secondary level education of I education ⊘ a Sharmin; Arif Widiyatmoko
Abstract V Augmented re disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh: . Mohammed Rasi AIP Conf. Proc. 261	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env hel Uddin; Kinya S 4, 020035 (2023) http	e science cl n; Dimas Kurr ps://doi.org/10.10 DPDF skills betwe vironmenta Shimizu; Hena ss://doi.org/10.10	een rural and urban students in secondary level education of I education
Abstract V Augmented re disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh:	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env hel Uddin; Kinya S	e science cl n; Dimas Kurr ps://doi.org/10.10 DPDF skills betwe vironmenta Shimizu; Hen	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 063/5.0126305] eeen rural and urban students in secondary level education of I education ⊘ a Sharmin; Arif Widiyatmoko
Abstract V Augmented re disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh: A Mohammed Rash AIP Conf. Proc. 261 Abstract V	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env hel Uddin; Kinya S 4, 020035 (2023) http View article	e science cl n; Dimas Kurr ps://doi.org/10.10 PDF skills betwe vironmenta Shimizu; Hena ps://doi.org/10.10	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 263/5.0126305 een rural and urban students in secondary level education of I education ⊘ a Sharmin; Arif Widiyatmoko 263/5.0127674
Abstract V Augmented re disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh: . Mohammed Rash AIP Conf. Proc. 261 Abstract V	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env hel Uddin; Kinya S 4, 020035 (2023) http View article	e science cl n; Dimas Kurr os://doi.org/10.10 PDF skills betwe vironmenta Shimizu; Hena os://doi.org/10.10 PDF	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 063/5.0126305] eeen rural and urban students in secondary level education of I education ⊘ a Sharmin; Arif Widiyatmoko
Abstract V Augmented red disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh: Mohammed Rasi AIP Conf. Proc. 261 Abstract V The effectiven material of the	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env hel Uddin; Kinya S 4, 020035 (2023) http View article	e science cl n; Dimas Kurr ps://doi.org/10.10 DPDF skills betwe vironmenta Shimizu; Hena os://doi.org/10.10 DPDF	nia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 263/5.0126305 een rural and urban students in secondary level education of I education ⊘ a Sharmin; Arif Widiyatmoko 263/5.0127674
Abstract V Augmented re disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh: A Mohammed Rash AIP Conf. Proc. 261 Abstract V The effective material of the Anisa Fridayanti;	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env hel Uddin; Kinya S 4, 020035 (2023) http View article ness of pop-up e solar system	e science cl n; Dimas Kurr ps://doi.org/10.10 DPDF skills betwe vironmenta Shimizu; Hena Shimizu; He	hia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 263/5.0126305 eeen rural and urban students in secondary level education of I education
Abstract V Augmented re disability © Firmanul Catur W AIP Conf. Proc. 261 Abstract V Comparing cr Bangladesh: A Mohammed Rask AIP Conf. Proc. 261 Abstract V The effective material of the Anisa Fridayanti;	eality inclusive Vibowo; Suprihatir 4, 020034 (2023) http View article ritical thinking s A focus on env hel Uddin; Kinya S 4, 020035 (2023) http View article ness of pop-up e solar system Miranita Khusnia	e science cl n; Dimas Kurr ps://doi.org/10.10 DPDF skills betwe vironmenta Shimizu; Hena Shimizu; He	hia Robby; Lari Andres Sanjaya; Dina Rahmi Darman; Riris Purbosari; Esmar Buc 063/5.0126305 een rural and urban students in secondary level education of I education

Slamet Subiyantoro; Susilaningsih; Favorita Kurwidaria; Dimas Fahrudin AIP Conf. Proc. 2614, 020037 (2023) https://doi.org/10.1063/5.0126086

Culturally responsive pedagogical content knowledge (CRPCK): The analyse of ethnoscience course on
pre-service science teacher in Indonesia ⊘

Beni Setiawan

Abstract ∽

AIP Conf. Proc. 2614, 020038 (2023) https://doi.org/10.1063/5.0127906

View article

View article

D PDF

CHEMISTRY AND ITS APPLICATIONS

Developing student life skills through an ethno-STEM integrated project learning about herbal tea making from tropical forest plants in Indonesia ⊘

Sudarmin; Kasmui; Woro Sumarni; Skunda Diliarosta; Helina Pancawardani; Prasetyo Listiaji AIP Conf. Proc. 2614, 030001 (2023) https://doi.org/10.1063/5.0126097

Comparative antioxidant activity of chitosan extracted from crab shell (*Portunus pelagicus*) and commercial chitosan *©*

Kusnadi; Purgiyanti; Andri Cahyo Kumoro; Anang Mohamad Legowo AIP Conf. Proc. 2614, 030002 (2023) https://doi.org/10.1063/5.0126743

Abstract V	View article	<table-cell> PDF</table-cell>
------------	--------------	-------------------------------

Effect of titanium addition on the physicochemical properties and catalytic behaviour of functionalized mesoporous silica \oslash

Hamizah Md Rasid; Maryam Husin; Adibatul Husna Fadzil AIP Conf. Proc. 2614, 030003 (2023) https://doi.org/10.1063/5.0126661

Abstract V	View article	🖾 PDF
------------	--------------	-------

Rapid online solid phase extraction liquid chromatography for the analysis of selected pharmaceuticals in water ⊘

Rozita Osman; Siti Norbayu Mohd Subari; Nursyamsyila Mat Hadzir AIP Conf. Proc. 2614, 030004 (2023) https://doi.org/10.1063/5.0126792

Abstract ✓ View article DDF
Phase behavior study of emulsion containing <i>Mimusops elengi</i> extract <i>©</i>
Nur Fariza Abdul Rahman; Rozita Osman; Nursyamsyila Mat Hadzir
AIP Conf. Proc. 2614, 030005 (2023) https://doi.org/10.1063/5.0125964
Abstract ✓ View article DDF
In-silico approaches potential compounds in ginger (<i>Zingiber officinale</i>) as inhibitors of membrane, envelope, nucleocapsid, Plpro, and Helicase proteins of the SARS-CoV-2 \oslash
Badrunanto; Fikry Awaluddin; Setyanto Tri Wahyudi; Wulan Tri Wahyuni; Irmanida Batubara
AIP Conf. Proc. 2614, 030006 (2023) https://doi.org/10.1063/5.0127236
Abstract ✓ View article DDF

Asymmetric michael addition of cyclohexanones to *trans-\beta*-nitrostyrene catalyzes by prolineamide-based organocatalyst \oslash

	ah; Zurina Shaam 4, 030007 (2023) http	,			vonennat
Abstract V	View article	🛿 PDF			
Aisconceptio	n analysis of s	ub-micros	copic level i	n chemistrv	/ learning of r

Misconception analysis of sub-microscopic level in chemistry learning of reaction rate using three-tier multiple-choice test (TTMCT) for class XI students ⊘ Endang Susilaningsih; Nurkintan Aprilia; Feby Kristiansi

AIP Conf. Proc. 2614, 030008 (2023) https://doi.org/10.1063/5.0125980

Abstract V	View article	🔁 PDF	

Investigation of substituent position effects of Schiff base compounds on mild steel corrosion @

Shadatul Hanom Rashid; Siti Khadijah Ishak AIP Conf. Proc. 2614, 030009 (2023) https://doi.org/10.1063/5.0127507



Present status concentration radiocesium (¹³⁴Cs and ¹³⁷Cs) and its bio magnification in marine biota of Teluk Bayur, West Sumatera Ø

Heny Suseno; Hardian Wahyu Perdana; Safni; Wahyu Retno Prihatiningsih AIP Conf. Proc. 2614, 030010 (2023) https://doi.org/10.1063/5.0127087

Abstract V	View article	🖪 PDF
------------	--------------	-------

The effect of the presence of BF_4^- and cl anions on the value of the thermodynamic functions of the 1,2,4 h-triazole Fe(II) complex \oslash

Asep Wahyu Nugraha; Ani Sutiani; Djulia Onggo; Muhamad Abdulkadir Martoprawiro AIP Conf. Proc. 2614, 030011 (2023) https://doi.org/10.1063/5.0126735



Electrospinning of chitosan/PVA nanofibers: Preparation and characterization @

F. Widhi Mahatmanti; Ella Kusumastuti; Nanik Wijayati

AIP Conf. Proc. 2614, 030012 (2023) https://doi.org/10.1063/5.0125932

Abstract 🗸	View article	🔁 PDF

Modified PVDF membrane with zeolite as a filler for ultrafiltration membrane @

Ervin Tri Suryandari; Hamdan Hadi Kusuma AIP Conf. Proc. 2614, 030013 (2023) https://doi.org/10.1063/5.0126716



Validation of isolation and polymerase chain reaction of *Salmonella* species and *Escherichia coli* bacteria for developing a prototype kit for detecting *foodborne pathogens diseases* \oslash

Muktiningsih Nurjayadi; Irvan Maulana; Nabila Alya Pramudiyasih; Ratna Nur Kusumawati; Maharaniaska Azzahra; Niken Kurnia Liman; Muhammad Arkent Sangkara; Esnawan Wibisono; Fera Kurniadewi; Vira Saamia; Dwi Anna Oktaviani Saputro; I. Made Wiranatha; Hesham Ali El-Enshasy

AIP Conf. Proc. 2614, 030014 (2023) https://doi.org/10.1063/5.0126314

Abstract	View article	PDF

Isolation and PCR validation of *Bacillus cereus* and *Listeria monocytogenes* bacteria for the development of prototype kit detection of foodborne pathogens diseases *Q*

Muktiningsih Nurjayadi; Irvan Maulana; Nabila Alya Pramudiyasih; Ratna Nur Kusumawati; Maharaniaska Azzahra; Niken Kurnia Liman; Muhammad Arkent Sangkara; Esnawan Wibisono; Fera Kurniadewi; Vira Saamia; Dwi Anna Oktaviani Saputro; I. Made Wiranatha; Hesham Ali El-Enshasy

AIP Conf. Proc. 2614, 030015 (2023) https://doi.org/10.1063/5.0126315

Ethanol content from sweet corn waste by fermentation process with microorganisms *Saccharomyces cerevisiae* ⊘

Andhina Putri Heriyanti; Ni Luh Tirtasari; Andin Vita Amalia; Trida Ridho Fariz; Arka Yanitama; Rifa'atunnisa AIP Conf. Proc. 2614, 030016 (2023) https://doi.org/10.1063/5.0126074

Abstract \checkmark	View article	🖾 PDF
-----------------------	--------------	-------

Bio-oil production through the pyrolysis of water hyacinth with different particle sizes at various temperatures ⊘

Sri Kadarwati;	Rida Farida;	Evalisa Apriliani;	Riska Nurfirda Annisa;	Yuan Maylia Rosanti
AIP Conf. Proc. 2	614, 030017 (2	023) https://doi.org/10	0.1063/5.0140983	

Abstract V	View article	🔁 PDF
------------	--------------	-------

The effect of nanoencapsulation effervescent powder of jengkol peel (*Pithecellobium jiringa*) in the alloxaninduced diabetic mice ⊘

Willy Tirza Eden; Nor Solekah; Izzatun Nufus; Marliana Eka Puji Lestari; Poppy Diah Palupi *AIP Conf. Proc.* 2614, 030018 (2023) https://doi.org/10.1063/5.0128015

	View article	🔁 PDF	
Antioxidant a	ctivity of <i>Eichh</i>	ornia crassij	oes (mart) solms as sunscreen ⊘
	Subagus Wahyuc 4, 030019 (2023) http		
Abstract ∨	View article	DF	
Microwave in	radiation assist	ted isomeriz	ation of eugenol to isoeugenol using Pd/C catalyst ⊘
Nanik Wijayati; I		ah; Dante Aligh	iri; Cepi Kurniawan; Willy Tirsa Eden; Senda Kartika Rakainsa; Retno Ariadi Lusia
Abstract V	View article	D PDF	
Abstract V			
Synthesis an	d characterizat	tion of Fe-N-	TiO_2 photocatalyst using polyacrylamide and polyethylene glycol
Synthesis an templates ⊘			TiO ₂ photocatalyst using polyacrylamide and polyethylene glycol
Synthesis an templates ⊘ Sigit Priatmoko;		Nuni Widiarti; E	ko Budi Susatyo; Endah Widhihastuti

The relationship of communication skills, critical thinking skills, and scientific workabilities on project-based learning for chemistry teacher candidates: A structural equation modeling approach ⊘

Agung Tri Prasetya; Momammad Alauhdin; Sri Haryani; Edy Cahyono; Shoffia Janatti; Clara Widya Wardani; Bella Febriyani

AIP Conf. Proc. 2614	. 030022 (2023) https://doi.org/10	.1063/5.0125773

Abstract 🗸			
Abstract	View article	DF 🛛	
Mangara Sihaloh	-	ge; Masrid Pik	and SMK students in solving problems on the acid-base concepts oli; Haris Munandar
Abstract ∨	View article		
/ ibolidot			
Science teach	ner's perceptio	ons of proje	ct-based learning with a STEM approach (PJBL-STEM) \oslash
	Sigit Priatmoko; C 4, 030024 (2023) http		; Agung Tri Prasetya 63/5.0126206
Abstract V	View article	DF	
earning ⊘ Murbangun Nusw	vowati; Endang S	usilaningsih; L	
	4, 030025 (2023) http		63/5.0126781
Abstract ∨	View article	DF 🗹	
Abstract ∨	View article	<table-cell> PDF</table-cell>	
	idents' ability in itient and self-	-	cientific argumentation about acid-base concepts viewed from pects ⊘
	a; Lukman Abdul F 4, 030027 (2023) http		
Abstract ∽	View article	D PDF	
-			ed sago draft waste ⊘
	awa; Sumitro Hida 4, 030028 (2023) http		; Muh. Zainal Ibrahim; Sri Wahyuni Wartabone; Wiwin Rewini Kunusa 63/5.0125769
	View article	D PDF	
Abstract V	view article		
Study on char Moh. Izwarto Piyo	racteristics of	gerah P. Lamate	oased liquid waste results of sago processing ⊘ o; Ardhan Khubair F. Ishak; Merlin Suleman; Siti Marlina Pobela 63/5.0127784
Study on char Moh. Izwarto Piyo	racteristics of ohu; Galang Anug	gerah P. Lamate	o; Ardhan Khubair F. Ishak; Merlin Suleman; Siti Marlina Pobela

AIP Conf. Proc. 2614, 030030 (2023) https://doi.org/10.1063/5.0140528

10/20/23, 10:05 AM		Vo	olume 2614 Issue 1 AIP Conference Proceedings AIP Publishing
Abstract ~	View article	🖪 PDF	
	ment of online le	-	tegrates media to measure high order thinking skill of students ⊘
	14, 030031 (2023) https:/		
Abstract ∨	View article	🛿 PDF	
solutions ⊘	t of content know ggun Tri Sakti; Siti He	-	struments in the form of two tiers based on scientific literacy on buffer
	14, 030032 (2023) https:/		
Abstract ~	View article	<table-cell> PDF</table-cell>	
The effective moral sensit		I bond lea	arning tools based on meaning learning model for training students'
	lfikry Gonibala; Akraı 14, 030033 (2023) https:/		Astin Lukum; Romario Abdullah 063/5.0126070
Abstract ~	View article	🔁 PDF	
curriculum 2 Fenny Roshaya	013 for 5 th of eler	mentary s asari; Arfilia	a Wijayanti; Putri Balqis; Eka Sari Setianingsih
Isnanik Juni Fitr	Augmented reality iyah; Muhammad Faj 14, 030035 (2023) https:/ View article	jar Marsuki;	
Scientific arg multiple cho		of X grad	de students on electrolyte and nonelectrolyte topic using three-tier
	bd. Wahid Rizaldi Akil 14, 030036 (2023) https:/		A. R. Laliyo; Masrid Pikoli 063/5.0129229
Abstract ~	View article	🛿 PDF	
Indra Fardhani; Cica Adelia Per	Erti Hamimi; Muham	nmad Fajar I abi l a Wibow	specimen mounted in resin block with QR code ⊘ Marsuki; Susanti; Moch. Ikhsan Pahlawan; Fakhrun Nisak; May Dina Zakiyah Ilma; o; Siti Sri Asih; Setyo Budi Mulyono; Johan 063/5.0125786
Sreypouv Ouch	tudents' misconc Arif Widiyatmoko 14, 030038 (2023) https:/		n science teaching and learning ⊘ 063/5.0126151

literacy ⊘ Woro Sumarni; Siti W AIP Conf. Proc. 2614, 030 Abstract ✓ V Researchers' per Moheeta Khan AIP Conf. Proc. 2614, 030 Abstract ✓ V	ahyuni; Sulha 0039 (2023) https iew article ceptions of 0040 (2023) https iew article	di ://doi.org/10.10 DPDF	ies, motivation and challenges in post-pandemic STEM education
AIP Conf. Proc. 2614, 030 Abstract V Researchers' per Moheeta Khan AIP Conf. Proc. 2614, 030 Abstract V	20039 (2023) https iew article ceptions of 20040 (2023) https iew article	C//doi.org/10.10	ies, motivation and challenges in post-pandemic STEM education
Abstract V Researchers' per Moheeta Khan AIP Conf. Proc. 2614, 030 Abstract V	iew article ceptions of 0040 (2023) https iew article	Deportunit	ies, motivation and challenges in post-pandemic STEM education
Researchers' per Moheeta Khan AIP Conf. Proc. 2614, 030 Abstract V	ceptions of 0040 (2023) https fiew article	opportunit	
Moheeta Khan AIP Conf. Proc. 2614, 030 Abstract V	0040 (2023) https liew article	://doi.org/10.10	
	5 AND II	S APPL	ICATIONS
-			cle classification using convolutional neural network ⊘
Budi Prasetiyo; Alams AIP Conf. Proc. 2614, 040			imanto; Mahargjo Hapsoro Adi 63/5.0126720
Abstract 🗸 V	ïew article	🛿 PDF	
AIP Conf. Proc. 2614, 040	iew article	://doi.org/10.10	33/5.0125762
	Dwika Ananda	a Agustina Pe	: garment company using ITIL V3 framework ⊘ rtiwi; Erika Noor Dianti 53/5.0125852
Abstract V	iew article	🛿 PDF	
Suhendro Y. Irianto; S AIP Conf. Proc. 2614, 040	Bri Karnila; Doi	na Yuliawati;	
Bambang Eko Susilo; AIP Conf. Proc. 2614, 040	Dante Alighiri;	Kholiq Budi	
violitaut • V			
	A teacher's	best friend	in online evaluation ⊘
Kholiq Budiman AIP Conf. Proc. 2614, 040			

Abstract 🗸	View article	🔁 PDF

Recommenda	ation engine th	at provide:	s sentences using cosine similarity and word embedding techniques
Riza Arifudin; Su	ubhan; Yahya Nur 4, 040007 (2023) http		63/5.0125739
Abstract V	View article	🖟 PDF	
Dwi Ratna Sulisty		r Baihaqi; Bu	Diffie-Hellman method and discrete wavelet transform ⊘ di Setiyono; Agus Setiawan; Miftakhul Jannah Sulastri; Soetrisno 063/5.0126077
Abstract V	View article	🔁 PDF	
Subhan Subhan;		n; Prasetyo Li	youtube channels with latent Dirichlet allocation method ⊘ stiaji; Wahyu Syafrizal 963/5.0125954
Martinus Edwin T	of projective v Fjahjadi; Larasaty 4, 040010 (2023) http	Ayu Parsama	
Abstract ✓	View article	🔁 PDF	
Kholiq Budiman;	f integrated se Sugianto; Yahya 4, 040011 (2023) http View article	Nur Ifriza	m on excellent service based on customer effort score ⊘ 63/5.0125749
Optimization ⊘	of C4.5 algorit	hm using i	nformation gain and bagging ensemble for diagnose of breast cance
Bina Estherly; Bi AIP Conf. Proc. 261	udi Prasetiyo 4, 040012 (2023) http	os://doi.org/10.10	63/5.0125942
Abstract ∨	View article	ዾ PDF	
Uca; Sukri Nyom	est fire hazard npa; Muh Rais Abi 4, 040013 (2023) http	idin; Amal; E	-
Abstract ∨	View article	🖟 PDF	
Endang Sugiharti		evi Ajeng Efri	al network for detection of skin cancer ⊘ ianda; Arief Broto Susilo; Nugraha Dwi Putra

APP Canf. Proc. 2814, 040015 (2023) https://doi.org/10.1003/5.0127065 Abstract V View article Checking of an online learning model with MOOCS © Zanuti, Adl Nur Cahyone, Zannal Abidin, Now Raina Dewy, Promplai Buasuwan; Watsatree Difeeyont APP Canf. Proc. 2814, 040016 (2023) https://doi.org/10.1003/5.0126470 Abstract V View article PDF A deep learning approach for sentiment analysis of hate tweets © Zanal Abidin; Nala Adina; Riza Anfudin; Aji Purwinanko; Hamdani Hamdani; David Leandro Wibisono APP canf. Proc. 2814, 040017 (2023) https://doi.org/10.1003/6.0125/765 Abstract V View article PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air temper forecast © Ayun Hapari; Budi Praseliyo Par Cont. Proc. 2814, 040015 (2023) https://doi.org/10.1003/6.0125/72 Abstract V View article PD PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neural model © Alastract V View article PD PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stutan About Azz; Siglid Edy Purwanto; Windia Had; Aahi Matun APP conf. Proc. 2814, 04002 (2023) https://doi.01267/83 Abstract V	Dona Yuliawati: I	Rio Kurniawan; Ba	yu Nugroho;	Suhendro Yusuf Irianto; Sri Karnila
A design of an online learning model with MOOCs Zaenuri: Adi Nur Catyono: Zeenal Abidin: Novi Ratna Dewi; Prompilai Buasuwan; Watsatree Diteyont AP Conf. Proc. 2814, 040016 (2023) https://doi.org/10.1003/5.012470 Abstract V View article P PDF A deep learning approach for sentiment analysis of hate tweets Zaenal Abidin: Nala Adina; Riza Arfudin; Alf Purvinarko: Handani Hamdani; David Leandro Wibisono AP Conf. Proc. 2814, 040017 (2023) https://doi.org/10.1003/5.0125765 Abstract V View article P PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air tempor forecast O Ayun Hapsari; Budi Prasetyo Artificial neural network using particle swarm optimization and genetic algorithm on the air tempor forecast O Ayun Hapsari; Budi Prasetyo Artificial neural network using particle swarm optimization and genetic algorithm on the air tempor forecast O Ayun Hapsari; Budi Prasetyo Mar Conf. Proc. 2814, 040018 (2023) https://doi.org/10.1003/5.0125742 Abstract V View article PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neuron Mamsyah; Budi Prasetyo; M. Faris Al Hakim; Fadi Dony Predana AIP Conf. Proc. 2814, 040019 (2023) https://doi.org/10.1003/5.0125767 Abstract V View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stu Tan Abdul Aziz; Sigli Edy Purvanic; Windia Hadi; Asih Matun AIP Conf. Proc. 2814, 040021 (2023) https://doi.org/10.1003/5.0125753 Abstract V View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Infonesia O Sysfinden Side; Abdul Samar; Muh. Isbar Pratama; Muh Rifand; Wahidah Sanusi AP Conf. Proc. 2814, 040021 (2023) https://doi.org/10.1003/5.0125763 Abstract V View article PDF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun Ø Tan Abdul Aziz; Lukman El Hakim; Makmuri				
Zaenari, Adi Nur Cahyono; Zaenal Abidin; Novi Ratna Dewi; Prompilal Buasuwan; Watsatree Diteeyont AP Conf. Proc. 2614, 040016 (2023) https://doi.org/10.1003/5.0126470 Abstract V View article PPF A deep learning approach for sentiment analysis of hate tweets © Zaenal Abidin; Nala Adina; Riza Arfudin; AJI Purwinarko; Hamdani Hamdani; David Leandro Wibisono AP Conf. Proc. 2614, 040017 (2023) https://doi.org/10.1003/5.0125765 Abstract V View article PPF Artificial neural network using particle swarm optimization and genetic algorithm on the air temper forecast Ø Ayun Hapsari; Budi Prasetiyo AP Conf. Proc. 2614, 040018 (2023) https://doi.org/10.1003/5.0125742 Abstract V View article PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neuro model Ø Akarsati, Budi Prasetiyo; M. Faris Al Hakim; Fadi Dony Pradana AP Conf. Proc. 2614, 040018 (2023) https://doi.org/10.1003/6.0125767 Abstract V View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development str Tan Abdul Aziz; Sigid Edy Purwanto; Windia Hadi; Asih Miatun <i>Pac Conf. Proc.</i> 2614, 04002 (2023) https://doi.org/10.1003/6.0125763 Abstract V View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Sysfinddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifand; Wahidah Sanusi AP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1003/6.012573 Abstract V View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Sysfinddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifand; Wahidah Sanusi AP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1003/6.0126102 Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun Ø Tan Abdul Aziz; Lukman El Hakim; Makmuri	Abstract V	View article	<table-cell> PDF</table-cell>	
Abstract V View article PDF A deep learning approach for sentiment analysis of hate tweets © Zaenal Abidin; Nala Adina; Riza Anfudin; Aji Purvinarko; Hamdani Handani; David Leandro Wibisono AP cout. Proc. 2614, 040017 (2023) https://doi.org/10.1003/6.0125765 Abstract V View article PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air temperforecast © Apatract V View article PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air temperforecast © Apatract V View article PDF Abstract V View article PDF PDF PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neura model © Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadil Dony Pradana Ale cour. Proc. 2614, 040016 (2023) https://doi.org/10.1003/6.0125767 Abstract V View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stutan Abdul Aziz; Sigid Edy Purvento; Windia Hadi; Ash Matun Aler Corf. Proc. 2814, 040020 (2023) https://doi.org/10.1003/6.0125753 Abstract V View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia © Sygafmiddin Side; Abdul Saman; Muh. Haar Pratama; Muh Rifand; Wahidah Sanusi Abstract V <td< th=""><th>-</th><th></th><th>-</th><th></th></td<>	-		-	
A deep learning approach for sentiment analysis of hate tweets ⊘ Zaenal Abidin; Nia Adina; Riza Anfudin; Aji Purwinarko; Hamdani Hamdani; David Leandro Wibisono AIP Conf. Proc. 2614, 040017 (2023) https://doi.org/10.1063/6.0125765 Abstract ✓ View article 한 PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air temper forecast ⊘ Ayun Hapsari; Budi Prasetiyo AP Conf. Proc. 2614, 040018 (2023) https://doi.org/10.1063/6.0126742 Abstract ✓ View article 한 PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neural model ⊘ Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadii Dony Pradana AIP Conf. Proc. 2614, 040019 (2023) https://doi.org/10.1063/6.0125767 Abstract ✓ View article 한 PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stu Tan Abdul Aziz; Sigit Edy Purvanto; Windia Hadi; Asih Miatun AIP Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/6.0125763 Abstract ✓ View article 한 PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ② Sysfruddin Side; Abdul Samar; Muh. Isbar Pratama; Muh Ritandi; Wahidah Sanusi AP Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/6.0125763 Abstract ✓ View article 한 PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ② Sysfruddin Side; Abdul Samar; Muh. Isbar Pratama; Muh Ritandi; Wahidah Sanusi AP Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/6.0125783 Abstract ✓ View article 한 PDF Feaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun © Tan Abdul Aziz; Lukman El Hakim; Makmuri	AIP Conf. Proc. 261	4, 040016 (2023) https	s://doi.org/10.1	063/5.0126470
Zaenal Abidin; Nala Adina; Riza Arifudin; Aji Purvinarko; Hamdani Hamdani; David Leandro Wibisono AIP Conf. Proc. 2614, 040017 (2023) https://doi.org/10.1063/6.0125765 Abstract ✓ View article PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air temper forecast Ø Ayun Hapsari; Budi Prasetiyo AIP Conf. Proc. 2614, 040018 (2023) https://doi.org/10.1063/6.0125742 Abstract ✓ View article PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neural model Ø Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadii Dony Pradana AIP Conf. Proc. 2614, 040019 (2023) https://doi.org/10.1063/6.0125767 Abstract ✓ View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stu Tian Abdul Aziz; Sigil Edy Purvanto; Windia Hadi; Asih Matun AIP Conf. Proc. 2614, 040020 (2022) https://doi.org/10.1063/6.0125753 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Syafuddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AIP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Syafuddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AIP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0125763 Abstract ✓ View article PDF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun Ø Tian Abdul Aziz; Lukman El Hakim; Makmuri	Abstract V	View article	🔁 PDF	
Zaenal Abidin; Nala Adina; Riza Arifudin; Aji Purvinarko; Hamdani Hamdani; David Leandro Wibisono AIP Conf. Proc. 2614, 040017 (2023) https://doi.org/10.1063/6.0125765 Abstract ✓ View article PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air temper forecast Ø Ayun Hapsari; Budi Prasetiyo AIP Conf. Proc. 2614, 040018 (2023) https://doi.org/10.1063/6.0125742 Abstract ✓ View article PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neural model Ø Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadii Dony Pradana AIP Conf. Proc. 2614, 040019 (2023) https://doi.org/10.1063/6.0125767 Abstract ✓ View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stu Tian Abdul Aziz; Sigil Edy Purvanto; Windia Hadi; Asih Matun AIP Conf. Proc. 2614, 040020 (2022) https://doi.org/10.1063/6.0125753 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Syafuddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AIP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Syafuddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AIP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0125763 Abstract ✓ View article PDF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun Ø Tian Abdul Aziz; Lukman El Hakim; Makmuri	A deep learni	ng approach fc	or sentime	nt analysis of hate tweets ⊘
Abstract View article PDF Artificial neural network using particle swarm optimization and genetic algorithm on the air temper forecast Avin Hapari; Budi Prasetiyo Alve Cant. Proc. 2614, 040018 (2023) https://doi.org/10.1063/5.0126742 Abstract View article PDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neuror model Abstract View article PDF Abstract View article PDF PDF Mamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadii Dony Pradana AlP Cont. Proc. 2614, 040019 (2023) https://doi.org/10.1063/5.0125767 Abstract View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stu Tian Abdul Aziz; Sigid Edy Purvanto; Windia Hadi; Asih Miatun AlP Cont. Proc. 2614, 040020 (2023) https://doi.org/10.1063/5.0125753 Abstract Abstract View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia © Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AlP Cont. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0128184 Mecont Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0128184 Abstract View article PDF	Zaenal Abidin; N	lala Adina; Riza Ari	ifudin; Aji Pu	ırwinarko; Hamdani Hamdani; David Leandro Wibisono
Artificial neural network using particle swarm optimization and genetic algorithm on the air temper forecast ⊘ Ayun Hapsari; Budi Prasetiyo AIP Conf. Proc. 2614, 040018 (2023) https://doi.org/10.1063/5.0126742 Abstract ✓ View article DPDF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neural model ⊘ Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadi Dony Pradana Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadi Dony Pradana Ala Conf. Proc. 2614, 040019 (2023) https://doi.org/10.1063/5.0125767 Abstract ✓ View article DPF Measuring students' metacognitive awareness in mathematics learning: A scale development stutation Abdul Aziz; Sigid Edy Purwanto; Windia Hadi; Asih Miatun AiP Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article DPDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ② Sysfruddin Side; Abdul Samar; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi Alp Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ② Sysfruddin Side; Abdul Samar; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi Alp Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Abstract ✓ View article PDF Teachin	AIP Conf. Proc. 261	4, 040017 (2023) https	s://doi.org/10.1	063/5.0125765
forecast Ø Ayun Hapsari; Budi Prasetiyo AlP Conf. Proc. 2614, 040018 (2023) https://doi.org/10.1063/5.0126742 Abstract ✓ View article DPF The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neural model Ø Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadli Dony Pradana AIP Conf. Proc. 2614, 040019 (2023) https://doi.org/10.1063/5.0125767 Abstract ✓ View article DPF Measuring students' metacognitive awareness in mathematics learning: A scale development stutation Al/P Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/5.0125767 Abstract ✓ View article DPF Measuring students' metacognitive awareness in mathematics learning: A scale development stutation Al/P Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article D PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Sysfudi.org/10.1063/5.0126763 Sylar Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Makassa Alberact ✓ View article D PDF	Abstract ∽	View article	<table-cell> PDF</table-cell>	
The improvement of COVID-19 prediction accuracy using optimal parameters in reccurent neural model ⊘ Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadii Dony Pradana <i>AIP Conf. Proc.</i> 2614, 040019 (2023) https://doi.org/10.1063/5.0125767 Abstract ✓ View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stu- Tian Abdul Aziz; Sigid Edy Purwanto; Windia Hadi; Asih Miatun <i>AIP Conf. Proc.</i> 2614, 040020 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ⊘ Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi <i>AIP Conf. Proc.</i> 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 <i>Abstract</i> ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ⊘ Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi <i>AIP Conf. Proc.</i> 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 <i>Abstract</i> ✓ View article PDF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun <i>©</i> Tian Abdul Aziz; Lukman El Hakim; Makmuri			_	063/5.0126742
model Ø Alamsyah; Budi Prasetiyo; M. Faris Al Hakim; Fadii Dony Pradana AIP Conf. Proc. 2614, 040019 (2023) https://doi.org/10.1063/5.0125767 Abstract ✓ View article PDF Measuring students' metacognitive awareness in mathematics learning: A scale development stution Abdul Aziz; Sigid Edy Purwanto; Windia Hadi; Asih Miatun AIP Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia Ø Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AIP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Albstract ✓ View article PDF	Abstract V	View article	🔁 PDF	
Measuring students' metacognitive awareness in mathematics learning: A scale development stut Tian Abdul Aziz; Sigid Edy Purwanto; Windia Hadi; Asih Miatun AlP Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article DPDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ② Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AlP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Abstract ✓ View article PDF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun ③ Tian Abdul Aziz; Lukman El Hakim; Makmuri				
Tian Abdul Aziz; Sigid Edy Purwanto; Windia Hadi; Asih Miatun AIP Conf. Proc. 2614, 040020 (2023) https://doi.org/10.1063/5.0125753 Abstract ✓ View article PDF SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ⊘ Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AIP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Abstract ✓ View article PDF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun ⊘ Tian Abdul Aziz; Lukman El Hakim; Makmuri	Abstract V	View article	DF	
SIRS model analysis on online game addiction cases for junior high school students in Makassa Indonesia ⊘ Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi AIP Conf. Proc. 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Abstract ✓ View article PDF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun ⊘ Tian Abdul Aziz; Lukman El Hakim; Makmuri	Tian Abdul Aziz;	Sigid Edy Purwante 4, 040020 (2023) https	o; Windia Ha	adi, Asih Miatun
Indonesia ⊘ Syafruddin Side; Abdul Saman; Muh. Isbar Pratama; Muh Rifandi; Wahidah Sanusi <i>AIP Conf. Proc.</i> 2614, 040021 (2023) https://doi.org/10.1063/5.0126184 Abstract ✓ View article DF Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun ⊘ Tian Abdul Aziz; Lukman El Hakim; Makmuri	Abstract V	View article		
Teaching for problem-solving in an Indonesian secondary school mathematics textbook: The fun ⊘ Tian Abdul Aziz; Lukman El Hakim; Makmuri	Abstract V	View article	DF PDF	
⊘ Tian Abdul Aziz; Lukman El Hakim; Makmuri	SIRS model a Indonesia	analysis on onli Abdul Saman; Mu	ine game ih. Isbar Pra	tama; Muh Rifandi; Wahidah Sanusi
	SIRS model a Indonesia Syafruddin Side; AIP Conf. Proc. 261	analysis on onli Abdul Saman; Mu 4, 040021 (2023) https	ine game uh. Isbar Pra s://doi.org/10.1	tama; Muh Rifandi; Wahidah Sanusi
	SIRS model a Indonesia Syafruddin Side; AIP Conf. Proc. 261: Abstract Teaching for p	Abdul Saman; Mu Abdul Saman; Mu 4, 040021 (2023) https View article problem-solving	ine game Ih. Isbar Prai s://doi.org/10.1 PDF	tama; Muh Rifandi; Wahidah Sanusi 063/5.0126184
	SIRS model a Indonesia Syafruddin Side; AIP Conf. Proc. 261 Abstract Teaching for p Tian Abdul Aziz;	analysis on onli Abdul Saman; Mu 4, 040021 (2023) https View article problem-solving Lukman El Hakim;	ine game Ih. Isbar Pra s://doi.org/10.1 PDF g in an Inc Makmuri	tama; Muh Rifandi; Wahidah Sanusi 063/5.0126184] donesian secondary school mathematics textbook: The functi

Lesson study: Improv	ving self confidence	e and mathematic	communication @
----------------------	----------------------	------------------	-----------------

Ferry Ferdianto; Zaenuri; Wardono AIP Conf. Proc. 2614, 040023 (2023) https://doi.org/10.1063/5.0152386

Abstract ✓ View article B PDF

Development of mathematics learning media based on articulate storyline 3 on cube materials \oslash

Marinda Rosita Sari; Abd Qohar

AIP Conf. Proc. 2614, 040024 (2023) https://doi.org/10.1063/5.0125871

Abstract \checkmark	View article	🖾 PDF
-----------------------	--------------	-------

Development of arcs algebraic interactive learning media on the topic of algebraic forms ⊘

Iffanna Fitrotul Aaidati; Abd Qohar AIP Conf. Proc. 2614, 040025 (2023) https://doi.org/10.1063/5.0125870

Abstract ✓ View article DF
Analysis of the content validity of assessment for learning based on HOTS in high school ⊘ Munali; Wardani Rahayu; Herwindo Haribowo AIP Conf. Proc. 2614, 040026 (2023) https://doi.org/10.1063/5.0126298
Abstract ∨ View article D PDF
Numerical solution of SEIAR model for Covid-19 transmission using the Adams-Bashforth-Moulton and Runge Kutta methods in South Sulawesi ⊘
Syafruddin Side; Amni Rasyidah; Nasiah Badwi; Muhammad Abdy; Rahmat Syam; Wahidah Sanusi
AIP Conf. Proc. 2614, 040027 (2023) https://doi.org/10.1063/5.0126185
Abstract ✓ View article DDF
Infinite horizon time optimal control approach for a coupled Dubin model <i>©</i>
Redemtus Heru Tjahjana
AIP Conf. Proc. 2614, 040028 (2023) https://doi.org/10.1063/5.0126615
Abstract ✓ View article
Analogical reasoning of students with logical-mathematical intelligence tendency in solving trigonometry problem ⊘
Amalia Silwana; Cholis Sa'dijah; Sukoriyanto
AIP Conf. Proc. 2614, 040029 (2023) https://doi.org/10.1063/5.0125757
Abstract ✓ View article

Multi-state SIRD model with semi-Markov assumptions on the spread of COVID-19 disease based on sojourn time distribution *⊗*

Faihatuz Zuhairoh; Dedi Rosadi; Adhitya Ronnie Effendie AIP Conf. Proc. 2614, 040030 (2023) https://doi.org/10.1063/5.0125763

Abstract View article

Evaluation of online learning implementation of linear algebra course during the Covid-19 pandemic @

Restu Lusiana:	Reza Kusuma Setvansah	

AIP Conf. Proc. 2614, 040031 (2023) https://doi.org/10.1063/5.0140199

Abstract V	View article	🔁 PDF
------------	--------------	-------

Application of Pearson correlation technique to analyze COVID-19 pandemic during Eid al-Fitr period in Malaysia ⊘ Nur Farah Najeeha Najdi; Nor Aishah Ahad; Friday Zinzendoff Okwonu

AIP Conf. Proc. 2614, 040032 (2023) https://doi.org/10.1063/5.0125993

Abstract 🗸	View article	🔁 PDF

Students' imitative and creative reasoning abilities in solving number patterns problems \oslash

Rohati Rohati; Kusnandi Kusnandi; Yaya S. Kusumah

AIP Conf. Proc. 2614, 040033 (2023) https://doi.org/10.1063/5.0126113

Abstract View article	🖾 PDF
-----------------------	-------

Local asymptotic stability of a tuberculosis compartmental model Ø

Anindita Henindya Permatasari; R. Heri Soelistyo Utomo

AIP Conf. Proc. 2614, 040034 (2023) https://doi.org/10.1063/5.0127183

Abstract ✓ View article DF

Trapezoidal fuzzy numbers fuzzy AHP-VIKOR in extent analysis method @

Arin Farikha; Bayu Surarso; Sunarsih

AIP Conf. Proc. 2614, 040035 (2023) https://doi.org/10.1063/5.0129141

Abstract V	View article	🔁 PDF	

On integer solution of the quartic equations over certain fields $Z_n \oslash$

 Wahyu Risdhyan Ari Wicaksono;
 I. Made Sulandra;
 Sisworo

 AIP Conf. Proc. 2614, 040036 (2023) https://doi.org/10.1063/5.0125790



Modelling with augmented reality and 3D printing in the mobile math trail digital classroom ⊘

Adi Nur Cahyono; Zaenuri; Mulyono; Muhammad Kharis; Zsolt Lavicza

AIP Conf. Proc. 2614, 040037 (2023) https://doi.org/10.1063/5.0125857



Design ethnomathematics mobile module to improve mathematics thinking ability @

Ratri Rahayu; Henry Suryo Bintoro; Alif Catur Murti

AIP Conf. Proc. 2614, 040038 (2023) https://doi.org/10.1063/5.0126800

Abstract \checkmark	View article	🔁 PDF
-----------------------	--------------	-------

Performance of classification algorithm for Indonesian Covid-19 risk zones 📀

Ainurrohmah; Dian Tri Wiyanti

AIP Conf. Proc. 2614, 040039 (2023) https://doi.org/10.1063/5.0140278

10/20/23, 10:05 AM	Volume 2614 Issue 1 AIP Conference Proceedings AIP Publishing
	Abstract ✓ View article
-	
	earning mathematical modeling in a virtual mobile math trails environment ⊘ azzun Sholikha Nurin; Muhammad Ghozian Kafi Ahsan; Adi Nur Cahyono
, L	IP Conf. Proc. 2614, 040040 (2023) https://doi.org/10.1063/5.0125858
	Abstract ✓ View article DF
	utomatic forecasting for univariate time series with long memory property ⊘
t	edi Rosadi; Shelton Peiris; Meri Andani Rosmalawati IP Conf. Proc. 2614, 040041 (2023) https://doi.org/10.1063/5.0126617
	Abstract ✓ View article DF
	Prediction of forest fire using hybrid fuzzy-clustering - Bagging method Ø
	edi Rosadi; Widyastuti Andriyani; Deasy Arisanty IP Conf. Proc. 2614, 040042 (2023) https://doi.org/10.1063/5.0126618
	Abstract → View article
-	
F	Didactical design integer operation number of sundanese ethnomathematics online during Covid 19 andemics with Endog-Endogan games in pre-service elementary school students ⊘ upriadi Supriadi; Firman Robiansyah; Deni Wardana; Yulan Yunia; Nurfadhilah Syahda
,	IP Conf. Proc. 2614, 040043 (2023) https://doi.org/10.1063/5.0125833
	Abstract ✓ View article DF
i S	The ethnomathematics learning with <i>Endog-Endogan</i> games to enhance mathematical modeling ability in Integer operation and fractional number calculation of primary school students <i>integer</i> upriadi Supriadi; Fitri Alfarisa; Muhammad Hanif; Rosita Rosita; Elita Nurfitri; Elis Nurazizah
, [IP Conf. Proc. 2614, 040044 (2023) https://doi.org/10.1063/5.0125834
	Abstract ✓ View article DF
l	earning of sets using Indonesian realistic mathematics education ⊘
	artono; Denti Zaedatul Khaeriyah; Dina Lita Sari; Mila Ilfiana; Farida Nursyahidah IP Conf. Proc. 2614, 040045 (2023) https://doi.org/10.1063/5.0126633
	Abstract ✓ View article
ſ	earning probability using the context of dragon traditional game ⊘ ina Lita Sari; Devy Asfira Fitriani; Denti Zaedatul Khaeriyah; Hartono; Farida Nursyahidah IP Conf. Proc. 2614, 040046 (2023) https://doi.org/10.1063/5.0126634
	Abstract ✓ View article
	he influence of guided inquiry learning model on mathematical critical thinking ability viewed from tudent's mathematical prior abilities <i>©</i>
F	iqi Garibaldi Umar; Nurhayati Abbas; Tedy Machmud; Kartin Usman; Abdul Wahab Abdullah IP Conf. Proc. 2614, 040047 (2023) https://doi.org/10.1063/5.0126172
	Abstract → View article

Murtafiah; Fauzia AIP Conf. Proc. 2614			
	, 040040 (2020) 114		
Abstract V	View article	🔁 PDF	
	-	-	nulti-factor short cross associations with more partitions on the mair
factor and par			
Nadya Dewinda A AIP Conf. Proc. 2614			Surarso; Farikhin; Bambang Irawanto; Dasril Yosza 63/5.0153575
Abstract V	View article	DF 🔁	
Some families	of Ramsey (P₄, P₅)–mir	nimal graphs ⊘
Desi Rahmadani;	Sapti Wahyuning	jsih; Denis Ek	a Cahyani
AIP Conf. Proc. 2614	, 040050 (2023) http	os://doi.org/10.10	63/5.0125812
Abstract V	View article	🖪 PDF	
-	stari; Nur Atikah; , 040051 (2023) http		hardjo; Nadia Kholifia; Dyah Laillyzatul Afifah; Khilwatul Fuadiyah 63/5.0125792
Abstract ∽	View article	🔁 PDF	
Sri Subanti; Winit AIP Conf. Proc. 2614 Abstract V			Hasih Pratiwi; Arif Rahman Hakim 63/5.0126027
On c-convex s	subgroups of	Z \oplus Z a	as a cyclically ordered group ⊘
Sumanang Muhta		-	
AIP Conf. Proc. 2614	., 040053 (2023) http	os://doi.org/10.10	33/5.0127481
Abstract 🗸	View article	<table-cell> PDF</table-cell>	
Application of	eliciting activi	ties model t	to improve students' mathematical literacy ability 🥝
			udi Waluya; Iqbal Kharisudin
AIP Conf. Proc. 2614	, 040054 (2023) http	os://doi.org/10.10	33/5.0153561
Abstract 🗸	View article	🔁 PDF	
Mapping facto	ors affecting th	e number c	of positive cases of Covid-19 West Java Province with geographica
			(GWNBR) model ⊘
			a Maharani; Fadia Mulyarti
UP Conf. Proc. 2614	, 040055 (2023) http	s://doi.org/10.10	63/5 0125927
	, (, , ,		

Sebastianus Fedi; Z	racy in the	socio-cultu	ral life of the Manggarai community, East Nusa Tenggara 📀
- sousaunus rour, Z	aenuri; Iqbal Kl	harisudin	
AIP Conf. Proc. 2614, 04	0056 (2023) https	://doi.org/10.10	63/5.0126635
		_	
Abstract V	View article	🖾 PDF	
A regularity of Di	richlet probl	om with th	a data balanga ta ganaralizad Marray anagag O
			e data belongs to generalized Morrey spaces ⊘
Nicky K. Tumalun; P AIP Conf. Proc. 2614, 04			22/5 0125018
All Colli. 1100. 2014, 0-	0037 (2023) https		000.0120010
Abstract V	View article	🖪 PDF	
On locating-chro	matic numb	er for cert	ain lobster graph ⊘
Des Welyyanti; Yanii	a; Mega Silvia	; Tika Apriliz	l i i i i i i i i i i i i i i i i i i i
AIP Conf. Proc. 2614, 04	0058 (2023) https	://doi.org/10.10	63/5.0127214
Albertune t X (Course and allo	D DDE	
Abstract V	View article	🖾 PDF	
The comparison	of K-means	clustering	result with centroid initialization using agglomerative hierarchical
clustering (case		-	
	-		ad Rezky Friesta Payu
AIP Conf. Proc. 2614, 04			
Abstract ~	View article	🖪 PDF	
Graceful labeling	of the tied	lollipop gra	$ph TL_{m,n,t} \otimes$
Purwanto; Rossi Dw	i Iswanto		
AIP Conf. Proc. 2614, 04	0060 (2023) https	://doi.org/10.10	63/5.0125791
Abstract V	View article	🔁 PDF	
Mathematical mo	odel for the s	spread of	Irug abuse with the death rate by addiction \oslash
Tri Sri Noor Asih; Afi			5
AIP Conf. Proc. 2614, 04		://doi.org/10.10	63/5.0125761
Abstract V	View article	🖾 PDF	
	•		hort-term memory: Case study from Central Java and DIY \oslash
-			mad Iqbal; Insyiraah Oxaichiko Arissinta; Zikrina Khotilah; Muhammad Nur Alim
lqbal Kharisudin; Fa			83/5 0126313
-		s://doi.org/10.10	
Iqbal Kharisudin; Fa	0062 (2023) https	-	
Iqbal Kharisudin; Fa			
Iqbal Kharisudin; Fa	0062 (2023) https	-	
Iqbal Kharisudin; Fa AIP Conf. Proc. 2614, 04 Abstract V	0062 (2023) https View article	D PDF	
Iqbal Kharisudin; Fa AIP Conf. Proc. 2614, 04 Abstract V	0062 (2023) https View article	PDF	pact model intercomparison project (ISI-MIP) method for earth
Iqbal Kharisudin; Fa AIP Conf. Proc. 2614, 04 Abstract V Skill evaluation of system model (E	view article of the inter-s SM) output	PDF ectoral im bias corre	pact model intercomparison project (ISI-MIP) method for earth
Iqbal Kharisudin; Fa AIP Conf. Proc. 2614, 04 Abstract V Skill evaluation of system model (E	view article of the inter-s SM) output	PDF ectoral im bias corre	pact model intercomparison project (ISI-MIP) method for earth ction ⊘ nyu Utami; Iqbal Kharisudin; Raden Mohamad Atok
Iqbal Kharisudin; Fa AIP Conf. Proc. 2614, 04 Abstract V Skill evaluation of system model (E Fatkhurokhman Fauz AIP Conf. Proc. 2614, 04	view article of the inter-s SM) output	PDF ectoral im bias corre	pact model intercomparison project (ISI-MIP) method for earth ction ⊘ nyu Utami; Iqbal Kharisudin; Raden Mohamad Atok
Iqbal Kharisudin; Fa AIP Conf. Proc. 2614, 04 Abstract V Skill evaluation of system model (E Fatkhurokhman Fauz AIP Conf. Proc. 2614, 04	view article of the inter-s SM) output	PDF ectoral im bias corre	pact model intercomparison project (ISI-MIP) method for earth ction ⊘ nyu Utami; Iqbal Kharisudin; Raden Mohamad Atok

Graceful cycles with perfect matching are strongly graceful \oslash
I. Nengah Suparta: Wayan Wulan Purwa Dani

AIP Conf. Proc. 2614, 040064 (2023) https://doi.org/10.1063/5.0126789

Abstract V	View article	🖪 PDF
------------	--------------	-------

Determination of Qibla direction and prayer times using microsoft excel assisted spherical trigonometry application @

Masturi; Pratiwi Dwijananti; Rahmat Doni Widodo; Sukiswo Supeni Edie; Fifin Dewi Ratnasari; Sunarno; Susilawati AIP Conf. Proc. 2614, 040065 (2023) https://doi.org/10.1063/5.0125872

Abstract 🗸	View article	제 PDF
710001000		

Analysis of local unit types of coastal ethnomathematics @

Zaenuri; Nurkaromah Dwidayati; Adi Satrio Ardiansyah; Subhan

AIP Conf. Proc. 2614, 040066 (2023) https://doi.org/10.1063/5.0126480

Abstract 🗸	View article	🔁 PDF
------------	--------------	-------

Validity of mathematics module based on character education with Kudus local content "Gusjigang" for dyscalculia students 🕗

Jayanti Putri Purwaningrum; Syafiul Muzid; Tatag Yuli Eko Siswono; Masriyah; Galih Kurniadi AIP Conf. Proc. 2614, 040067 (2023) https://doi.org/10.1063/5.0126610

Abstract V	View article	🖾 PDF
------------	--------------	-------

The impact of students' self-regulated learning on mathematics achievement in online-learning @

I. Made Arnawa; Susila Bahri; Nova Noliza Bakar; Budi Rahmadya; Sri Nita AIP Conf. Proc. 2614, 040068 (2023) https://doi.org/10.1063/5.0125803



Mathematical representation abilities in terms of productive disposition in e-learning assisted by communication media with urban ethnomathematics approach ⊘

Arief Agoestanto; Adi Nurcahyono; Nur Jihan

AIP Conf. Proc.	2614,040069	(2023)	https://doi.org/10.1063/5.0126082

Abstract V	View article	🔁 PDF

Analysis of cognitive obstacle in geometric transformation course on higher education \oslash

Thesa Kandaga; Rizky Rosjanuardi; Dadang Juandi

AIP Conf. Proc. 2614, 040070 (2023) https://doi.org/10.1063/5.0126730

Abstract 🗸	View article	🔁 PDF
------------	--------------	-------

Development and effectiveness of android-based learning module to improve students' understanding of mathematical concept Ø

Arif Rahman Hakim; Amin Suyitno; Zaenuri Mastur AIP Conf. Proc. 2614, 040071 (2023) https://doi.org/10.1063/5.0125815

Abstract ∨ View article 🔁 PDF

	unahefi; Karima K	hoirunnisa; D	wijanto; Mulyono; Regilsa Fariz; Bebyd Noverianto
	4, 040072 (2023) http	s://doi.org/10.10	63/5.0126736
Abstract ∨	View article	D PDF	
Meyta Dwi Kurni		/arno; Rocma	v ability in terms of emotional intelligence and gender ⊘ nd; Amin Suyitno; Febriandi Subagya ^{63/5.0126611}
Abstract V	View article	DF	
Enika Wulandari	it is for prospec Amin Suyitno; Za 4, 040074 (2023) http	aenuri Mastur	ers to design inductive mathematics learning <i>©</i>
Abstract ∽	View article	D PDF	
AIP Conf. Proc. 261	4, 040075 (2023) http View article	s://doi.org/10.10	63/5.0126666
Youlanda L. Man		anang Supriac	e Covid-19 pandemic?
	∣ ⊘ edyasari; Zaenuri;	Amin Suyitno	
programming	4, 040077 (2023) http View article	D PDF	
AlP Conf. Proc. 261 Abstract V Students' per Adi Satrio Ardian AlP Conf. Proc. 261	View article rspectives on ir syah; Mulyono; E 4, 040078 (2023) http	ntegral calc ndang Retno s://doi.org/10.10	ulus online courses on their mathematical creativity ⊘ Winarti; Rembulan Permata Octalia; Muhammad Andi Nugroho 63/5.0126744
AIP Conf. Proc. 261 Abstract ~ Students' per Adi Satrio Ardian	View article rspectives on ir syah; Mulyono; E	ntegral calc	Winarti; Rembulan Permata Octalia; Muhammad Andi Nugroho

Growth mindset of mathematics and science education students in South Sulawesi Ø

Soma Salim;	Kamriana	Kamriana;	Nasrianty Nasrianty	
-------------	----------	-----------	---------------------	--

AIP Conf. Proc. 2614, 040080 (2023) https://doi.org/10.1063/5.0125797

Abstract ✓ View article 🔁 PDF

The use of van Hiele theory as a theoretical framework for technology-assisted geometry learning ⊘

Arif Abdul Haqq; Amin Suyitno; Zaenuri

AIP Conf. Proc. 2614, 040081 (2023) https://doi.org/10.1063/5.0125835

Abstract \checkmark	View article	🖪 PDF

Learning mathematical modelling with digital tools: A systematic literature review Ø

Muhammad Ghozian Kafi Ahsan; Adi Nur Cahyono; Iqbal Kharisudin AIP Conf. Proc. 2614, 040082 (2023) https://doi.org/10.1063/5.0126587

Abstract ✓ View article DF

Analysis of mathematical problem solving ability based on students' mathematical prior knowledge in ICT-assisted preprospec learning model ⊘

Nuriana Rachmani Dewi; Adi Satrio Ardiansyah; Amidi

AIP Conf. Proc. 2614, 040083 (2023) https://doi.org/10.1063/5.0125830

Abstract V	View article	🖪 PDF

The development of learning tools to enhance mathematical problem-solving ability through ICT-assisted preprospec learning model ⊘

Nuriana Rachmani Dewi; Erika Dwi Anggraeni; Adi Satrio Ardiansyah AIP Conf. Proc. 2614, 040084 (2023) https://doi.org/10.1063/5.0125831



Online tutorials evaluation on elementary mathematics learning courses at *Pokjar Kendal ©*

Eko Andy Purnomo; Enny Dwi Lestariningsih; Edi Prayitno; Testiana Deni Wijayatiningsih *AIP Conf. Proc.* 2614, 040085 (2023) https://doi.org/10.1063/5.0126217



Didactic design for a mathematics course using web-based project-based learning ∅

Eko Andy Purnomo; Nurmawati; Sri Kadarwati; Dwi Sulistyaningsih; Venissa Dian Mawarsari *AIP Conf. Proc.* 2614, 040086 (2023) https://doi.org/10.1063/5.0126218

Abstract 🗸	View article	🔁 PDF	
------------	--------------	-------	--

Theory of didactical situation view on planning the lesson by preservice mathematics teacher \oslash

Ardhi Prabowo; Didi Suryadi; Dadan Dasari; Dadang Juandi AIP Conf. Proc. 2614, 040087 (2023) https://doi.org/10.1063/5.0125850

Abstract V	View article	🖪 PDF

Assistive technology in sign language for mathematical lecture in inclusive class $\ensuremath{\varnothing}$

Sugiman; Emi Pujiastuti; Amin Suyitno

AIP	Conf. Proc	. 2614.	040088	(2023)	https://doi.org/10	1063/5	0125966

		-	
Abstract V	View article	🖪 PDF	
The giving of problem solvi		connection	problems for revealing the growth of junior high school students in
-	ugiman; Amin Suy 4, 040089 (2023) http		Sugiharti; Esti Purwaningsih 63/5.0126749
Abstract V	View article	DF	
			eacher literacy: How to develop it? ⊘
	syah; Mohammad 4, 040090 (2023) http		Junaedi; Adi Nur Cahyono; Firdha Dwi Lestari 63/5.0126746
Abstract V	View article	D PDF	
Usman Usman; F	-	ing; Elianti; N	finite integral concept in solving distance problems © Aardhiah Makruf Zaman 63/5.0126490
Abstract V	View article	D PDF	
Isnaini; Stevanus	View article ess traceability s Budi Waluya; Dw 4, 040093 (2023) http	vijanto; Tri Sri	
Abstract V	View article	PDF	
skills ⊘ Zainnur Wijayanto	nent of a socio p; Rosidah Aliim H 4, 040094 (2023) http View article	idayat; Sukes	
	view article		
Rahmawati; St. E	of realistic ma Budi Waluya; Bam 4, 040095 (2023) http	bang Eko Sus	
Abstract V	View article	DF	
tools ⊘ Lukmanul Akhsan	es of prospections ni; Bambang Eko S 4, 040096 (2023) http	Susilo	atics teacher students and their tendencies in preparing learning

20/23, 10:05 AN		Volu	ume 2614 Issue 1 AIP Conference Proceedings AIP Publishing
	Abstract View an	icle 🚺 PDF	
			veloped through problem-based learning ⊘ u Budhiati; Rini Wulandari; Nuriana Rachmani Dewi
	IP Conf. Proc. 2614, 040097 (20 Abstract ✓ View ar		3/5.0126797
	ristina Wijayanti; Diarni Se	pta Krismona; Mashu	lity through problem-based learning ⊘ ri; Rahayu Budhiati; Rini Wulandari
	IP Conf. Proc. 2614, 040098 (20 Abstract ∨ View ar		5/5.0 120794
	rimurtini; Budi Waluya; Y.	Sukestiyarno; Iqbal	terms of geometric thinking of PGSD students ⊘ Kharisudin; Rochmad; Bambang Eko Susilo; Nursiwi Nugraheni
	IP Conf. Proc. 2614, 040099 (20 Abstract >> View ar		3/3-0125455
	nalysing students' er fa Hayyulbathin; Retno Wi IP Conf. Proc. 2614, 040100 (20	narni; Tri Murwanings	
	Abstract ✓ View ar	icle 🔁 PDF	
	nalysis of creative th) endri Handoko; Yohanes L		AVI-based geometry mathematics learning model discovery strategy o; Bambang Eko Susilo
	IP Conf. Proc. 2614, 040101 (20 Abstract View ar		3/5.0127010
	nalysis of learning di nan Solahudin; Bambang B	-	a concepts in view of students' learning styles Ø
	IP Conf. Proc. 2614, 040102 (20 Abstract V View ar		3/5.0125778
	-	i; Arfatin Nurrahmah;	lem solving: A brief literature review ⊘ Arie Purwa Kusuma; Abdul Hakim Ma'ruf 3/5.0126916
	Abstract View an		
	Athematics understa		gh school students in the interpreting category of function concepts
	laslina Simanjuntak; I. Ketu IP Conf. Proc. 2614, 040104 (20	ut Budayasa; Mega Te	
	Abstract ∽ View ar	icle 🚺 PDF	

Increasing elementar	y school student nι	umeration through prol	blem based learning v	vith realistic approach 🤗
----------------------	---------------------	------------------------	-----------------------	---------------------------

Wardono; Scolastika Mariani AIP Conf. Proc. 2614, 040105 (2023) https://doi.org/10.1063/5.0125908

Abstract 🗸	View article	🔁 PDF

Mathematics problem solving ability in high school ⊘

Ali Wardana; Zaenuri; Iqbal Kharisudin; St. Budi Waluya

AIP Conf. Proc. 2614, 040106 (2023) https://doi.org/10.1063/5.0140513

Abstract V	View article	🖪 PDF

Analysis of effectiveness of ethnomathematics-based subject specific pedagogy viewed from students' mathematics understanding ⊘

Nuryadi; Zaenuri; Stevanus Budi Waluya; lqbal Kharisudin AIP Conf. Proc. 2614, 040107 (2023) https://doi.org/10.1063/5.0127884

Abstract ∽ View article	🔁 PDF
-------------------------	-------

Numeracy test instruments for prospective elementary school teachers: Validity and reliability @

Via Yustitia; Tatag Yuli Eko Siswono; Abadi AIP Conf. Proc. 2614, 040108 (2023) https://doi.org/10.1063/5.0125899

Abstract ✓ View article DF

PHYSICS AND ITS APPLICATIONS

Using a three-level diagnostic test instrument to detect student misconception: A case of the concept of heat *Q*

Heny Ekawati Haryono; Khafidhoh Nurul Aini; Achmad Samsudin; Parsaoran Siahaan *AIP Conf. Proc.* 2614, 050001 (2023) https://doi.org/10.1063/5.0126125

Abstract ✓ View article ₺ PDF

Performance of a 4 kWp grid-connected photovoltaic system using string inverter technology for a residential home ⊘

Nurmalessa Muhammad; Nur Hazirah Saibani; Sulaiman Shaari AIP Conf. Proc. 2614, 050002 (2023) https://doi.org/10.1063/5.0125770

Abstract \checkmark	View article	🖾 PDF

Global warming digital science magazine to improve students' scientific argumentation skills and character in the post-pandemic era *©*

Herni Yuniarti Suhendi; Resi Maryati Warga; Diah Mulhayatiah; Dindin Nasrudin; Chaerul Rochman; Ryan Ardiansyah AIP Conf. Proc. 2614, 050003 (2023) https://doi.org/10.1063/5.0126987

Abstract V	View article	🔁 PDF
------------	--------------	-------

Frost injury analysis: Embun Upas phenomenon and mitigation in Dieng plateau Wonosobo Ø

Firdaus; Putut Marwoto; Retno Sri Iswari; Wiyanto; Ngurah Made Darma Putra; Wiwi Isnaeni; Fatiatun; Sri Jumini AIP Conf. Proc. 2614, 050004 (2023) https://doi.org/10.1063/5.0126620

10/20/23, 10:05 AM	Volume 2614 Issue 1 AIP Conference Proceedings AIP Publishing						
	Abstract ✓ View article						
	esign verification of a stand-alone photovoltaic system: Comparative study based on mathematical model d PVSYST simulation ⊘						
	din Manja; Hedzlin Zainuddin; Mohamad Zhafran Hussin; Yang Ilya Akila Abdul Rahim ? <i>Conf. Proc.</i> 2614, 050005 (2023) https://doi.org/10.1063/5.0127060						
	Abstract ∽ View article D PDF						
	otein detection using the magnetic nanoparticle-based biosensor via nanoHUB simulation $arnothing$						
	Azlan Zakaria; Siti Shahrulbariyyah Zolkifli; Farah Liyana Muhammad Khir AIP Conf. Proc. 2614, 050006 (2023) https://doi.org/10.1063/5.0126709						
	Abstract ∽ View article DPF						
	ne emission spectrum shifting by chlorophyll extract of papaya leaves ⊘ vita Kiki Wulandari; Mahardika Prasetya Aji						
	Conf. Proc. 2614, 050007 (2023) https://doi.org/10.1063/5.0125886						
	Abstract ✓ View article DDF						
	alatiga ⊘ k Lestari; Susilo ? <i>Conf. Proc.</i> 2614, 050008 (2023) https://doi.org/10.1063/5.0126625 Abstract ✓ View article						
	Studies on the properties of different blending ratios of polypropylene and poly-lactide acid blends Noor Hafizah Abd Halim; Ahmad Zafir Romli; Nor Yuliana Yuhana; Engku Zaharah Engku Zawawi AIP Conf. Proc. 2614, 050009 (2023) https://doi.org/10.1063/5.0126790						
	Abstract ✓ View article DPF						
	X-ray application of micro-computed tomography for biological sample test ⊘ Susilo; Yuni Wijayanti; Fitria Azmi; Rudi Setiawan; Ulil Albab Taufiq; Ian Yulianti AIP Conf. Proc. 2614, 050010 (2023) https://doi.org/10.1063/5.0125827						
	Abstract View article						
	Effect of repeated frying on the refractive index of cooking oil: A simple investigation in the optics course Prasetyo Listiaji; Angelina Amalia Putri; Arfatur Rohman AIP Conf. Proc. 2614, 050011 (2023) https://doi.org/10.1063/5.0125914						
	Abstract ∽ View article DF						
	ne influence of detergents on the microfibre release of woven cotton during domestic washings ⊘ na Nasir; Nur Amirah Aminludin Baki; Najua Tulos; Suzaini Abdul Ghani ? <i>Conf. Proc.</i> 2614, 050012 (2023) https://doi.org/10.1063/5.0126631						
	Abstract ✓ View article						

Extracted corn husk a characterisation @	and banana fibre	e waste for nonwoven sheets: Fabrication and physical
	Azmi: Atiwah Musa:	; Nasa'ie Zainuddin; Eryna Nasir
AIP Conf. Proc. 2614, 050013 (
Abstract ✓ View a	article	
The effect of rice hus D. G. E. Setiawan; S. M. N		d material on the quality of red bricks ⊘ A. W. Nuayi
AIP Conf. Proc. 2614, 050014 (2023) https://doi.org/10.1	1063/5.0125950
Abstract View a	article	
Effect of DC voltage a	and current on n	ucleation behavior of CaCl ₂ .6H ₂ O hydrated salt using copper
	Anggraini: Annisa Ra	ahman; Risky Afandi Putri; Inge Magdalena Sutjahja
AIP Conf. Proc. 2614, 050015 (
Abstract ✓ View a	article	
AIP Conf. Proc. 2614, 050016 (Abstract View a		1063/5.0126612
Smart water monitori Nur Nadia Shamiera Nasar AIP Conf. Proc. 2614, 050017 (uddi; Mohd Fauzi M	
Abstract View a	article	
Ballistic impact simul	ation on compos	site of abaca fiber/Hgm/epoxy/carbon fiber as body armor material \oslash
Istiroyah; Lalu Saefullah; AIP Conf. Proc. 2614, 050018 (1063/5.0126783
Abstract ∨ View a	article 🔁 PDF	
Mastery of physics co region of Central Jav		uided inquiry learning for high school students in the north coastal
S. Sarwi; U. M. Munifatuzz		; C. A. Putri
AIP Conf. Proc. 2614, 050019 (2023) https://doi.org/10.1	1063/5.0125970
Abstract ✓ View a	article	
Impact of electric fiel	d on magnon dis	spersion in passivated zigzag graphene nanoribbon 🤗
Teguh Budi Prayitno; Esma AIP Conf. Proc. 2614, 050020 (
Abstract View a	article 🔀 PDF	

pseudo-atom	ic orbital meth	od 🥝	ralized bloch theorem in FCC iron through a linear combination o
Teguh Budi Pray	itno; Riser Fahdira	an; Sunaryo	
AIP Conf. Proc. 261	4, 050021 (2023) http	os://doi.org/10.1	063/5.0125783
Abstract V	View article	🖪 PDF	
Abstract			
	y science-phy a, Indonesia ⊘		edge aspect on the steam power plant student concept at SMAN
	lam Puspitasari; S		ih: Ani Rusilowati
	4, 050022 (2023) http		
Abstract V	View article	🔁 PDF	
Synthesis on	d characteriza	tion of MO	F5 for organic battery development ⊘
-			
	ri; Budi Astuti; Fia		
AID Conf Drog 261			
AIP Conf. Proc. 261	14, 050023 (2023) http	os://doi.org/10.1	063/5.0126020
AIP Conf. Proc. 261	View article	Dis://doi.org/10.1	063/5.0126020
Abstract ∨ Development	View article	Dep PDF	ninking skills for prospective physics teachers through mini-project
Development based learnir Ellianawati Ellian	View article t of critical and ng during the C	Creative th COVID-19 p nuwih; Teguh	ninking skills for prospective physics teachers through mini-projec bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah
Abstract ✓ Development based learnir Ellianawati Ellian	View article t of critical and ng during the C nawati; Suharto Lin	Creative th COVID-19 p nuwih; Teguh	ninking skills for prospective physics teachers through mini-projec bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization	View article t of critical and ng during the C nawati; Suharto Lin (4, 050024 (2023) http View article of learning me	Creative th COVID-19 p nuwih; Teguh ps://doi.org/10.10	ninking skills for prospective physics teachers through mini-project pandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization students duri	View article t of critical and ng during the C nawati; Suharto Lin 14, 050024 (2023) http View article of learning me ng the Covid-1	Creative th COVID-19 p nuwih; Teguh os://doi.org/10.11 PDF	ninking skills for prospective physics teachers through mini-project bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization students duri Ellianawati Ellian	View article t of critical and ng during the C nawati; Suharto Lin 14, 050024 (2023) http View article of learning me ng the Covid-1	Creative th COVID-19 p nuwih; Teguh os://doi.org/10.11	ninking skills for prospective physics teachers through mini-project bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053 rove independent learning and problem-solving skills of vocationa ic ⊘ h Made Darma Putra; Istiqomah Istiqomah; Naily Chumaidah; Irfan Basyaruddin
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization students duri Ellianawati Ellian	View article t of critical and ng during the C nawati; Suharto Lin 14, 050024 (2023) http View article of learning me ng the Covid-1 nawati; Bambang S	Creative th COVID-19 p nuwih; Teguh os://doi.org/10.11	ninking skills for prospective physics teachers through mini-project bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053 rove independent learning and problem-solving skills of vocationa ic ⊘ h Made Darma Putra; Istiqomah Istiqomah; Naily Chumaidah; Irfan Basyaruddin
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization students duri Ellianawati Ellian AIP Conf. Proc. 261 Abstract V	View article t of critical and ng during the C nawati; Suharto Lin 14, 050024 (2023) http View article of learning me ng the Covid-1 nawati; Bambang S 14, 050025 (2023) http View article	Depresentation of the second s	ninking skills for prospective physics teachers through mini-project pandemic Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053 rove independent learning and problem-solving skills of vocationa ic h Made Darma Putra; Istiqomah Istiqomah; Naily Chumaidah; Irfan Basyaruddin 063/5.0126054
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization students duri Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Review: Man	View article t of critical and ng during the C nawati; Suharto Lin 14, 050024 (2023) http View article of learning me ng the Covid-1 nawati; Bambang S 14, 050025 (2023) http View article ufacturing of fi	Der optic b	ninking skills for prospective physics teachers through mini-project bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053 rove independent learning and problem-solving skills of vocationa ic ⊘ h Made Darma Putra; Istiqomah Istiqomah; Naily Chumaidah; Irfan Basyaruddin
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization students duri Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Review: Man Ria Pratama Sar	View article t of critical and ng during the C nawati; Suharto Lin 14, 050024 (2023) http View article of learning me ng the Covid-1 nawati; Bambang S 14, 050025 (2023) http View article ufacturing of fi i; Alizar; Illyas Mo	Der optic b ber optic b d Isa; Yulkifi	ninking skills for prospective physics teachers through mini-project bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053 rove independent learning and problem-solving skills of vocationa ic ⊘ th Made Darma Putra; Istiqomah Istiqomah; Naily Chumaidah; Irfan Basyaruddin 063/5.0126054 ased glucose sensor and infrared biosensor ⊘
Abstract V Development based learnir Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Optimization students duri Ellianawati Ellian AIP Conf. Proc. 261 Abstract V Review: Man Ria Pratama Sar	View article t of critical and ng during the C nawati; Suharto Lin 14, 050024 (2023) http View article of learning me ng the Covid-1 nawati; Bambang S 14, 050025 (2023) http View article ufacturing of fi	Der optic b ber optic b d Isa; Yulkifi	ninking skills for prospective physics teachers through mini-project bandemic ⊘ Darsono; Rizki Nurul Hayati; Nada Syifa Salsabila; Zahrunnabilah 063/5.0126053 rove independent learning and problem-solving skills of vocationa ic ⊘ th Made Darma Putra; Istiqomah Istiqomah; Naily Chumaidah; Irfan Basyaruddin 063/5.0126054 ased glucose sensor and infrared biosensor ⊘

Alvin Fachrully Septiano; Heri Sutanto; Susilo AIP Conf. Proc. 2614, 050027 (2023) https://doi.org/10.1063/5.0125842

Abstract ✓ View article DDF

Adsorbent materials based on magnetite nanoparticle from sand of Bayuran beach as a solution in water pollution *©*

Angela Christa Octaviani; Ridho Prasetyo; Muhammad Bagus Amrullah; Budi Astuti AIP Conf. Proc. 2614, 050028 (2023) https://doi.org/10.1063/5.0127033

Abstract ✓ View article DF

Effect of adhe method ⊘	esive contact o	n a waveg	uide with silicone rubber and acrylic materials using finite element
Djoeli Satrijo; Ojo	o Kurdi; Rusnaldy; 4, 050029 (2023) http		Faraz Janatra Andriansyah Putra 063/5.0126443
Abstract ∽	View article	DF 🛛	
Structure and	l mechanical p	roperties c	of electrodeposited Ni-TiN-AIN composite coating ⊘
	ia Ermadiana; Wid 4, 050030 (2023) http		drasari; Iwan Sugihartono; Hadi Nasbey; Teguh Budi Prayitno 063/5.0126780
Abstract ∨	View article	DF	
Making memb	brane filter fron	n stvrofoar	n waste using rotary forcespinning tool ⊘
-	A. Fauzi; Muhami	-	
AIP Conf. Proc. 261	4, 050031 (2023) http	s://doi.org/10.10	063/5.0126724
Abstract V	View article	🖪 PDF	
	-		braneworld model with nonminimal derivative coupling in the bulk @
	4, 050032 (2023) http		
		_	
Abstract ∨	View article	PDF	
fiber ⊘ Ian Yulianti; Ngu		utra; Fianti;	index sensor based on Mach-Zehnder interferometer plastic optical Zunita Aryani Fahma Latif; Kukuh Eka Kurniansyah 063/5.0125828
Abstract V	View article	DF	
	-		aya Area based on rock quality ⊘
	g; Aang Panji Pen 4, 050034 (2023) http		ty Suly Eraku; Dewi Rahmawaty Isa; Oka Arin Ghaneswara 063/5.0125904
Abstract ∽	View article	D PDF	
			d samas beach Bantul Yogyakarta based on mineral content ⊘
	ni A. Putri; Natalia 4, 050035 (2023) http		ngsih; Sugiyanto; Upik Nurbaiti
AIF COIII. FICE. 201	4, 030033 (2023) http	s.//doi.org/10.10	1
Abstract V	View article	🔁 PDF	
Modified Tolm	nan-Bondi-de S	Sitter space	etime: Calculating some aspects of Einstein field equation using
	cture equation	-	
-	lus; Hartoyo Yudha 4, 050036 (2023) http		usniati H. Muh. Yusuf; Nila Prasetya Aryani 063/5.0125957
Abstract V	View article	🔁 PDF	
		<u> </u>	

Development of resin based phantom as artificial tissue with low contrast object in radiography ⊘

Nila Prasetya Aryani; Andhika Dwi Anggara; D. A. Sutikno; Purwito Soegeng; Khoiru Ainin Nisa *AIP Conf. Proc.* 2614, 050037 (2023) https://doi.org/10.1063/5.0126106

Abstract V	View article	🖾 PDF

Analysis of physical and chemical parameters in the waters of Central Tapanuli Coral Island O

Rahmatsyah; Rita Juliani; Nusyirwan; Riri Syavira; Manovri Yeni AIP Conf. Proc. 2614, 050038 (2023) https://doi.org/10.1063/5.0140529

	'	·	

Abstract V	View article	🖾 PDF

Semarang subsurface inversion model based on gravity data in 2014 ⊘

Nava Andera Purbandini; Rina Dwi Indriana; Muhammad Irham Nurwidiyanto; Laode Muhammad Sabri AIP Conf. Proc. 2614, 050039 (2023) https://doi.org/10.1063/5.0126649

Abstract ✓ View article ₺ PDF

Symmetry and non-symmetry configuration dependence of magnetoimpedance effect on electrodeposited multilayer films ⊘

Artono Dwijo Sutomo; Candra Tirta Putra; Nuryani; Budi Purnama; Ari Handono Ramelan *AIP Conf. Proc.* 2614, 050040 (2023) https://doi.org/10.1063/5.0140703

Abstract ✓ View article DEPDF

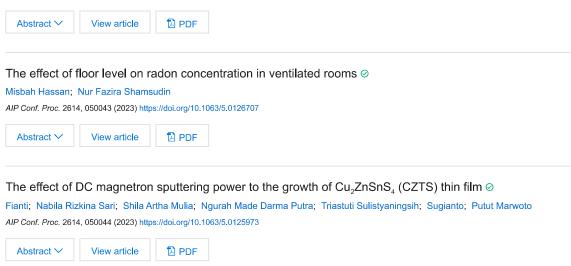
Magnetic properties of the Upper Bengawan Solo river sediments @

Budi Legowo; Anti Fatkhul Qoriah; Muhammad Irfan Nawawi; Wiwit Suryanto; Budi Purnama *AIP Conf. Proc.* 2614, 050041 (2023) https://doi.org/10.1063/5.0128429



Some aspects of Einstein field equation in a modified Gödel metric Ø

Herry Fridolin Lalus; Anthonius Suban Hali; Marsi Devid Setyawan Bani; Nila Prasetya Aryani AIP Conf. Proc. 2614, 050042 (2023) https://doi.org/10.1063/5.0125959



The effect of local wisdom-based learning videos on student learning outcomes through the discovery learning model for vibration, waves and sound \oslash

Bahtiar Hasan; Tirtawaty Abdjul; Citron Supu Payu; Chairunnisah J. Lamangantjo

AIP Conf. Proc. 2614, 050045 (2023) https://doi.org/10.1063/5.0140245

Abstract ∨	View article	DF	
Fabrication an disposable dia			nal insulating material based on the synergy of sawdust and
Rizki Nurul Hayati AIP Conf. Proc. 2614			Taufik; Ian Yulianti /5.0128098
Abstract V	View article	DF	
Comparison o major cities of		on of closed	areas by main roads as a comparison of traffic congestion levels in
Aan Priyanto; Yar AIP Conf. Proc. 2614	uar Aji Saputro;		
Abstract V	View article	DPDF	
radiography at	the medical p	physics labor	ad (Pb) of used batteries for radiation protection using digital atory UNNES ⊘ etiawan; Yuni Wijayanti; Ulil Albab Taufiq
AIP Conf. Proc. 2614			
Abstract V	View article	DF	
	Prasetijono; Andł	nika Dwi Anggar	iess in skin protection against ultraviolet (UV) light ⊘ a; Nila Prasetya Aryani /5.0126144
The developm Masturi; Nadyatur AIP Conf. Proc. 2614	n Khasanah; Agu	stin Anggraeni;	
Abstract ~	View article	PDF	
Development skills for SMAI	N 1 Jakenan s		law of thermodynamics materials to measure higher order thinking
AIP Conf. Proc. 2614		s://doi.org/10.1063	/5.0125849
Abstract ∨	View article	DF	
The effect of S fluid topic ⊘	STEM approac	ch in project	pased learning model on student's problem solving skills on static
Parno; Lia Yuliati; AIP Conf. Proc. 2614			/5.0125795
		J	

Frendi Ihwan Sya	ring the COVIE		
AIP Conf. Proc. 261	4, 050053 (2023) http	os://doi.org/10.10	63/5.0126619
Abstract ∨	View article	<table-cell> PDF</table-cell>	
assessment	on thermodyna	mics topic	
-	; Parno; Arif Hida 4, 050054 (2023) http		iana; Lia Yuliati; Eny Latifah; Marlina Ali 63/5.0125796
Abstract ∨	View article	🔁 PDF	
demonstratio Anita Ariyani; Ar AIP Conf. Proc. 261	n	s://doi.org/10.10	onceptions on thermodynamics law for students with interactive
Abstract V	View article	🔁 PDF	
Tomy Suganda;	essment ⊘ Parno; Sunaryono 4, 050056 (2023) http		
Tomy Suganda;	Parno; Sunaryono		Eny Latifah
AIP Conf. Proc. 261 Abstract ~ The effective teacher © Dwi Yulianti; Wiy	Parno; Sunaryono 4, 050056 (2023) http View article ness of task ac	tion learni	Eny Latifah 1963/5.0125798 ng for improving the pedagogic competence of pre-service physics Eko Nugroho; Khairun Nisa Meiah Ngafidin
Tomy Suganda; <i>AIP Conf. Proc.</i> 261 Abstract ~ The effective teacher © Dwi Yulianti; Wiy <i>AIP Conf. Proc.</i> 261 Abstract ~ Assessing lev understandin Kaharuddin Arafa	Parno; Sunaryono 4, 050056 (2023) http View article ness of task ac vanto; Ani Rusilow 4, 050057 (2023) http View article vels of epistem g assessment ah; Aeman Hakim;	es://doi.org/10.10	Eny Latifah 163/5.0125798 Ing for improving the pedagogic competence of pre-service physics Eko Nugroho; Khairun Nisa Meiah Ngafidin 163/5.0126528 Inderstanding on physics (EUoP): The physics epistemological Arsyad; Ahmad Dahlan
Tomy Suganda; <i>AIP Conf. Proc.</i> 261 Abstract ~ The effective teacher © Dwi Yulianti; Wiy <i>AIP Conf. Proc.</i> 261 Abstract ~ Assessing lev understandin Kaharuddin Arafa	Parno; Sunaryono 4, 050056 (2023) http View article ness of task ac vanto; Ani Rusilow 4, 050057 (2023) http View article vels of epistem g assessment	es://doi.org/10.10	Eny Latifah 1983/5.0125798 Ing for improving the pedagogic competence of pre-service physics Eko Nugroho; Khairun Nisa Meiah Ngafidin 1983/5.0126528 Inderstanding on physics (EUoP): The physics epistemological Arsyad; Ahmad Dahlan

Development of educational videos on work and energy topics to support schoology based e-learning \oslash

Hadi Nasbey; Raihanati; Lasni Karina; M. Hidayatur Rohman; Affandi Faisal Kurniawan AIP Conf. Proc. 2614, 050060 (2023) https://doi.org/10.1063/5.0126689

Abstract ~			
	View article	D PDF	
worksheet ⊘ Siti Wahyuni; Teo	and remediatic dy Pratama Saputr 4, 050061 (2023) http	а	onceptions using three-tier diagnostic test based on CRI and literacy
Abstract ∨	View article	🖪 PDF	
⊘ Fadlul Haq; Siti N		o; Citron Sup	el learning devices with online applications on the concept of vibration ou Payu; Abdul Haris Odja 063/5.0126023
Abstract V	View article	D PDF	
Janeusse Fratiwi	-	I	uwih; Ida Kaniawati; Dendy Mohammad Fauzi; Adam Hadiana Aminudin; Nuzulira 063/5.0125826
analysis with Diane Noviandini	Science learning ; Putut Marwoto; 4, 050064 (2023) http View article	ng design (Retno Sri Isw	vari
	of learning de		
learning integ Agnes Dwi Wular	rated with SET	ΓS ⊘ ammad Fajar	nalyzing of climate change" activities based on problem based
Iearning integ Agnes Dwi Wular AIP Conf. Proc. 2614 Abstract ~ Microphotogra Muhammad Mifta	A Mahardika; Muha 4, 050065 (2023) http View article aphy using mice	TS ⊘ ammad Fajar s://doi.org/10.10 DPDF Croscope n Marwoto; Re	Marsuki; Sugiyanto Sugiyanto 063/5.0126963 nade of mineral water bottle ⊘ etno Sri Iswari; Hartono; Sunyoto Eko Nugroho; Saiful Ridlo
Iearning integ Agnes Dwi Wular AIP Conf. Proc. 261 Abstract > Microphotogra Muhammad Mifta AIP Conf. Proc. 261 Abstract > Framework du analysis techt	A parated with SET Mahardika; Muha 4, 050065 (2023) http View article aphy using mic khul Falah; Putut 4, 050066 (2023) http View article evelopment of nique ©	FS ⊘ ammad Fajar s://doi.org/10.10 DPDF CrOSCOPE N Marwoto; Re s://doi.org/10.10 DPDF fabric drap fabric drap	Marsuki; Sugiyanto Sugiyanto 063/5.0126963] made of mineral water bottle ⊘ etno Sri Iswari; Hartono; Sunyoto Eko Nugroho; Saiful Ridlo 063/5.0126016] pe evaluation: Paper weighing method transformed to digital image

Developing learning media of physics using MIT app inventor to improve the critical thinking skills ⊘ Nur Khoiri; Diana Arin Wahyuningsih; Duwi Nuvitalia

AIP Conf. P.	roc 2614	050068 (2023) htt	ns://doi.on	a/10_1(063/5	0127311

Abstract V	View article	🔁 PDF	
Analysis of ph Sumatera ⊘	nysics concept	of center of	of mass and equilibrium at the traditional dance of tari Piring, West
Achmad Maulana Prihandono	Satria Putra; Am	irah Nuraini Li	ianti Putri; Oktania Putri Angelina; Tania Lutfi; Rif'ati Dina Handayani; Trapsilo
AIP Conf. Proc. 2614	4, 050069 (2023) http	os://doi.org/10.10)63/5.0125929
Abstract ∨	View article	D PDF	
Design of hyb	orid learning ba	ased web-n	nobile learning for physics teachers competencies ⊘
-	; Parlindungan Si 4, 050070 (2023) http	-	usdiana; Ida Kaniawati; Rizki Hidayatulloh)63/5.0125787
Abstract ∨	View article	D PDF	
The effectiver nomograph ⊘		s based si	mulation using visual basic for powerpoint application and optical
Hasbi Iskandar; F			i; Sudarmin; Susilo; Mahardika Prasetya Aji 163/5.0126593
Abstract V	View article	D PDF	
Development learning ⊘	of technology	enabled a	ctive learning simulation for conducting physics experiment in online
	Bunga Dara Amin; 4, 050072 (2023) http		/iridi; Sri Rahmadhanningsih; Irfan Yusuf; Asdar; Susalti Nur Arsyad)63/5.0153457
Abstract V	View article	🔁 PDF	
		exercises w	ith constructive feedback: An alternative in online learning during the
Covid-19 pan Muhammad Reyz		snaita Yasrina	ı; Revnika Faizah; Muhammad Ibnu Shodiqin
AIP Conf. Proc. 2614	4, 050073 (2023) http	s://doi.org/10.10	63/5.0126471
Abstract ∽	View article	D PDF	
Students' con resource theo	•	standing or	n the topic of AC circuits: Viewed from the level of understanding and
Muhammad Reyz			rdani; Fauzan Sulman 963/5.0126469
Abstract V	View article	DPDF	
-	of student wo ted to Danau ⁻		ith the ethno-STEM-project based learning model on physics
Muhammad Agus	Martawijaya; Ahi	mad Swandi;	Sri Rahmadhanningsih
AIP Conf. Proc. 2614	4, 050075 (2023) http	os://doi.org/10.10))63/5.0126048
Abstract V	View article	🖾 PDF	

The development of a universal design for learning-based storybook for student preparation to carry out implementation of national assessment *⊗*

Ani Rusilowati; Arif Widiyatmoko; Zaenal Abidin; Desi Wulandari AIP Conf. Proc. 2614, 050076 (2023) https://doi.org/10.1063/5.0125924

Abstract ✓ View article 🛛 PDF

Scientific creative problem solving for introductory physics with biological context @

A. Fadllan; Hartono; Susilo; S. Saptono

AIP Conf. Proc. 2614, 050077 (2023) https://doi.org/10.1063/5.0125921

cle 🕺 🕅 PDF
cle

RESEARCH ARTICLE | JUNE 16 2023

Developing learning media of physics using MIT app inventor to improve the critical thinking skills ${old O}$

Nur Khoiri 🗢; Diana Arin Wahyuningsih; Duwi Nuvitalia

(Check for updates

AIP Conference Proceedings 2614, 050068 (2023) https://doi.org/10.1063/5.0127311













Developing Learning Media of Physics Using MIT App Inventor to Improve the Critical Thinking Skills

Nur Khoiri^{a)}, Diana Arin Wahyuningsih, and Duwi Nuvitalia

Universitas PGRI Semarang, Semarang, Indonesia

^{a)} Corresponding author: nurkhoiri@upgris.ac.id

Abstract. The research was carried out using the Research and Development method which includes define, design, develop, and dissemination. The data was collected using a questionnaire, the observation sheets and the tests. The results showed that the product development media is valid, feasible and effective in improving students' critical thinking skills. The percentage of validity score is 77% and the percentage score is 78%. The results of statistical analysis show that the developed learning media can improve students' critical thinking skills, particularly in the designing part which facilitate students both analyzing and discussing in a comprehensive way.

INTRODUCTION

The development of technology have had an impact on changes in various dimensions of human life, such as economic, social, cultural and educational. These changes result in a movement towards a balance of the new life order [1]. The challenge of a new life which is known as the 21st century requires the new types of skill. As a result of the demands for change also have an impact on learning orientation which has shifted as a result of changes in the new life order [2]. The skills needs of the current generation include critical thinking skills. Critical thinking skills are strongly suspected to be very important skills needed by the current generation [3]. One of those affected by this condition are the Teacher Trainer Institution (TTI) graduates or prospective teachers, since they teach the new generation in different ways from the knowledge provided to prospective teachers when they studied at TTI [4].

One of the challenges that require continuous innovation for prospective teachers is related to the learning media that will be used in the learning process [5]. Learning media is the tools that can be used to deliver the messages from the learning materials which are expected to stimulate attention and interest. Android-based learning media becomes one of the media in learning science that can be concreted by utilizing technological developments in the field of education. Android is a very complete platform in which of its operating system, applications and development tools. It has extremely high support from the open source community in the world; therefore, android continues to grow rapidly in terms of technology and the number of devices in the world [6]. Moreover, android is currently used by almost all school-age children, especially since the Covid-19 pandemic era. The use of Android has been accelerated as a means of online school. Therefore, it is a significant need to optimize the use of learning media through mobile learning by equipping the students with the particular skills which prepare them facing the education in 21st century [7].

According to the TIMSS (Trends in International Mathematics and Science Study) 2015, the average percentage of Indonesian students' reasoning abilities was 26%, while the international average was 44%. According to Bloom's taxonomy, reasoning abilities are included in higher order thinking skills [8]. Critical thinking skills becomes a part of higher order thinking skills that important to acquire. However, regarding to the condition of the low critical thinking skills of students, it becomes a challenge and anxiety for educators in Indonesia to improve students' critical thinking skills as future generations. Therefore, it is important to do a research in developing learning media of physic which enable the teachers to create a conducive classroom so that increase the students' critical thinking skill.

The 8th International Conference on Mathematics, Science and Education 2021 AIP Conf. Proc. 2614, 050068-1–050068-5; https://doi.org/10.1063/5.0127311 Published by AIP Publishing, 978-0-7354-4549-9/\$30.00

METHODS

This study involves the Research & Development model, which is a process carried out to develop and validate the educational products [9]. The data collection techniques are questionnaires and tests. The development research consists of four stages, namely define, design, develop and disseminate [10]. Define is a preliminary activity that aims to collect all the information needed through field studies and literature to compile the initial product. There are two activities in this stage namely a literature study which consist of material analysis and media making devices, and the second activity is that the use of media that was developed. The material that delivered in the media should appropriate to the standard competence (SK) and basic competence (KD). The assessment process which includes SK/KD analysis, learning resources, material selection and user determination is carried out simultaneously because it is interrelated and cannot stand alone. At this stage, data collection is also carried out that is closely related to the material, media making devices and the use of media. Design is the activity of making detailed specifications of the media to be made. A good and well-planned design will make it easier to create further media. The media design was firstly designed in the form of a script then developed which consists of objects that will be used in making learning media such as text, images and sound using the MIT App Invertor software. Develop is an activity to develop a product in the form of an Android application that contains materials, exercises and evaluations related to learning materials and critical thinking skills such that resulting a product that is ready to be validated. At this stage, the validation of the learning media used the MIT App Invertor. This validation consists of material, media and user. Dissemination is an activity to disseminate products to students.

RESULTS AND DISCUSSION

The research begin with a preliminary study which consist of activity such as problem identification activities by conducting literature studies and analyzing pre-existing learning media. Pre-existing media emphasizes the aspects of student interest in using learning media. Meanwhile, the development in this study is that adding the aspects of critical thinking skills to the learning media that will be developed. It is necessary to collect data by conducting an assessment of the media making device to overcome the problems found in the previous stage. In making learning media used hardware and software.

The product developed is a learning media with an App inverter oriented to critical thinking skills. The development of learning media is expected to facilitate educators and students in conducting learning interactions. Students are expected to be able to study independently anywhere and anytime so that they can improve their critical thinking skills. The main characteristic of the learning media developed consists of a cover page, which is the page that first appears when the user opens the application on a smartphone, and the menu page is the core page of the learning media. Therefore, it will be expected that from the cover could attract the user and also can access all the menus presented on the learning media. The menu on the menu page contains chapter 1, chapter 2, chapter 3, chapter 4 and chapter 5 as well as Info. The display of each chapter consists of concept maps, materials, evaluations and videos, to display information containing instructions for use, about the author and a bibliography. The structure and content which has been elaborated are the main characteristics as a differentiator from the existing media.

The development of learning media can be categorized as a quality product if it meets the elements of valid, appropriate and effective can be used in accordance with the objectives of media development. It should meet the content and construct validity. The content validity relates to the relevance or novelty, and the construct validity relates to consistency or program design logic [11]. The developed product is validated before tested by the validators who are experts in their fields to ensure that the developed product can be scientifically justified and the results can be used. It was validated by three validators who have expertise in their fields that is a lecturer of Physics Education who was a material expert, a lecturer of Physics Education who was a media expert and a Physics teacher of who was an expert practitioner. Each expert validation has its own aspect, namely the material expert has assessment aspects, namely visual communication aspects and software engineering aspects. Meanwhile, expert practitioners have assessment aspects, namely the content of the material, evaluation of the material, audio-visual communication and software engineering. Physics learning media oriented by critical thinking skills is feasible to use if the validation score of each item percentage of the feasibility in the level criteria of feasible or very feasible. If the assessment item is obtained as a percentage at the level category not feasible or very inappropriate, then the physics learning media oriented to critical thinking skills is said to be invalid or not feasible to use.

The first validator provides notes regarding to the feasibility of the product being developed with the average of percentage of 75% with a feasible category and can be used with revisions. The recommendations and suggestions from the first validator expert is that need the improvements of teaching materials in the writing of concept map section. Therefore, the next step is to improve the writing on the concept map section. The second validator gives a percentage score of the feasibility of the developed media is 77% with a very good category and can be used with revisions. A note from the validator is that it needs improve the size of the image size in the application software. Therefore, the next step taken by researchers is to improve the size of the image in the application software. The third validator provides an assessment with a percentage score of 78% with a very feasible category and can be used with revisions. The suggestion from the third validator is to insert several pictures in the text. The average validation score of each validators is shown at figure 1. Overall, the product changed at the appearance of the media become simpler but aesthetic with keep the aspect supporting students' understanding.

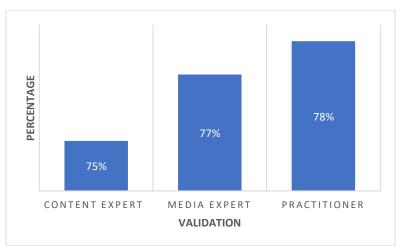


FIGURE 1 The average of validation score the developed learning media

Based on the data that has been presented, the results of the validation of learning media by the three validators get an average percentage score of 76.7, %. The percentage score is included in the valid category. This shows that the developed learning media products oriented by critical thinking skills that meet the requirements to be used for further testing with students. Moreover, the revise version of the prototype is more aesthetic, simpler, without reducing the aspect that develop students' understanding. In the designing part, there is an activity that involve the students to analyze the data which comprehensively form the students' critical thinking skill habit through a discussion. Therefore, this media could train and improve the students' critical thinking skills.

Testing product development to students is intended to determine the effectiveness of the impact of the developed media on students' critical thinking skills. In the implementation of the trial process, the data about critical thinking skills were obtained by making observations in learning using android-based media in grade X at even semesters. The observation process was carried out twice before and after using learning media. The results obtained show that the learning media has increased N-Gain 0.6 in the medium category. The results of statistical analysis of pre-test scores and post-test scores in the class showed that the pre-test scores did not increase. However, the results show that after using learning media there is a significant difference. It can be strongly suspected that the learning media has an impact on improving students' critical thinking skills. The results of the study have strengthened the research that has been done by Syawaludin, et al.[12] stating that the effectiveness of using learning media can improve students' critical thinking skills. The use of interactive android-based learning media affects students' critical thinking skills, making it easier for students to formulate problems, analyze, dig up information, evaluate information and find solutions. Meanwhile, the results of the critical thinking skills test in the pre-test and post-test stages are presented in figure 2.

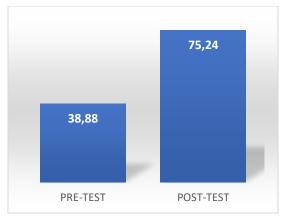


FIGURE 2 The results of pre-test and post-test

In the implementation stage, the average pre-test score was 38.88 and the post-test score showed an average of 75.24, obtaining a gain criterion of 0.6 with moderate criteria. Based on the data above, it illustrates that the developed learning media have an impact on students' critical thinking skills. The impact of changes in critical thinking skills on students is caused by the use of developed learning media, the developed media creates the situations and learning stages that stimulate better of students' critical thinking skills. In detail the post-test results based on critical thinking skills indicators as presented in table 1.

No	Critical thinking skill indicators	Average score
1.	Providing a simple explanation	8.3
2.	Identifying the assumption	6.7
3.	Concluding	7.1
4.	Analyzing	6.6
5.	Evaluating	7

TABLE 1. The scores of each critical thinking skill indicators

Based on the table 1, the indicators for analyzing obtain the lowest average score, meaning that students' ability to carry out analysis still requires assistance and further research can be carried out. Meanwhile, the average value of the indicator that obtain the highest score is the first indicator that is providing a simple explanation. The students are able to understand well and are able to give a brief explanation of the information presented by the media. It means that the media developed is very communicative and easy to understand. On average, it can be concluded that the application of android media has improved students' critical thinking skills.

The use of thinking stages in the evaluation is a step in training students' critical thinking skills. The results are in line with the results of the study that thinking skills need guided practice because students rarely transfer these thinking skills themselves. In order the items written can require high-level thinking, then each item should be given a basic question (stimulus) in the form of a source/reading material [13, 14]. The study also stated that the use of android applications was effective in increasing interest, student learning outcomes in physics material, and critical thinking skills [15 -17].

CONCLUSION

Based on the results of the discussion, it can be concluded that the developed physics learning media is valid, feasible and effective to improve students' critical thinking skills. Therefore, the media facilitates the students with the opportunity in data analyzing which trains and improve the students' critical thinking skill through discussion.

REFERENCES

- 1. S. Pelkey, B. Stelmach, D. Hunter, Canadian J.of Educ. Adm. and Policy 196, 16-33 (2021)
- 2. R. McKee, M. Bowman, Learning Professional 41, 56-60 (2020)
- 3. S. Mahanal, M. Tendrita, F. Ramadhan, N. Ismirawati, S. Zubaidah, Anatolian J. of Edu. 2, 21-39 (2017)
- 4. N. Khoiri, A. Rusilowati, Wiyanto, Sulhadi, R. Jafar, J. of Phys: Conf. Ser. 1567, 032091 (2020)
- 5. N. Songkram, S. Chootongchai, Edu. and Inf. Tech. 25 4297-315 (2020)
- 6. R. Tavares, V. R. Marques, L. Pedro, Edu. Sci. 11, 79 (2021)
- 7. I. R. Gafurov, M. R. Safiullin, Akhmetshin, M. Elvir, A. R. Gapsalamov, Vasilev, L. Vladimir, Int. J. of Higher Edu. 9, 71-85 (2020)
- 8. D. W. Winarti, S. M. Patahuddin, *Math. Edu. Res. Group of Australasia* Paper presented at the Annual Meeting of the Mathematics Education Research Group of Australasia (MERGA) (40th, Melbourne, Victoria, Australia) (2017)
- 9. M. D. Gall, J. P. Gall, and W. R. Borg, *Educational Research an Introduction* (7th ed.).(Pearson Education, Boston, 2003)
- 10. S. Thiagarajan, D. S. Sammel, and M. Sammel, Instructional, Development for Training Teacher of Exceptional Children (Indiana University, Minnesota, 1974).
- 11. T. Plomp and N. Nieveen, Educational design research (Enschede, Netherlands, 2013).
- 12. A. Syawaludin, Gunarhadi, Rintayati, Peduk, Int. J. of Instruction 12, 331-44 (2019)
- 13. H. J. Kim, P. Yi, J. Hong, Edu. Sci. 10 47 (2020)
- 14. S. Moya, M. Camacho, Int. J. of Mobile and Blended Learning 13, 63-80 (2021)
- 15. V. I. Michalakis, M. Vaitis, A. Klonari, Edu. Sci. 10, 382 (2020)
- 16. V. W. Childress, Tech. and Eng. Teacher 76, 25-31 (2017)
- 17. M. Icen, Int. J. of Educ. Method. 6, 631-42 (2020)