PAPER NAME **AUTHOR**

9. Tri Utami Jurnal UNNES.pdf Tri Utami

WORD COUNT **CHARACTER COUNT**

20464 Characters **3687 Words**

PAGE COUNT **FILE SIZE**

333.0KB 9 Pages

SUBMISSION DATE REPORT DATE

Jun 14, 2022 2:54 PM GMT+7 Jun 14, 2022 2:56 PM GMT+7

30% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

25% Internet database

· Crossref database

• 15% Submitted Works database

- 14% Publications database
- Crossref Posted Content database

Excluded from Similarity Report

· Bibliographic material

Manually excluded sources



JISE 11 (3) 2022: 332-340

Journal of Innovative Science Education



http://journal.unnes.ac.id/sju/index.php/jise

Implementation of the Interactive E-LKPD for Biotechnology Materials with the Argument-Driven Inquiry (ADI) Model Oriented to Improving the Argumentation Ability of Middle School Students

Tri Utami [⊠], Neni Hasnunidah, Abdurrahman Abdurrahman, Chansyanah Diawati

Pascasarjana, Universitas Lampung, Indonesia

Article Info

Article History: Received Accepted Published

Keywords: argumentation ability, argument-driven inquiry, biotechnology, E-LKPD

Abstract

14 This study aims to describe the effect of implementing interactive e-LKPD on biotechnology materials with the Argument-Driven Inquiry in improving argumentation skills. This study involved 60 grade IX students in a public junior high school in South Lampung, Lampung Province. Quantitative method with non-equivalence pretest-posttest control group has been applied with 0 students in the experimental group and 30 students in the control group. Students in the experimental group get learning assisted by interactive biotechnology e-LKPD with the Argument-Driven Inquire while students in the control group are taught using Discovery Learning. The esults showed that students who were taught using the Argument Driven Inquiry had N-Gain (g= 0.63) than students in the Discovery Learning (g= 0.28). Furthermore, the effectiveness of biotechnology learning using the Argument-Driven Inquiry shows a high category (ES = 0.90). This shows that the interactive e-LKPD with the Argument-Driven Inquiry effective for improving argumentation skills.

Jl. Prof. Dr. Ir. Sumantri Brojonegoro No.1, Gedong Meneng, Kec. Rajabasa, Kota Bandar Lampung, Lampung, Indonesia 35141

E-mail: triutamiut30@gmail.com

p-ISSN 2252-6412 e-ISSN 2502-4523

 $^{^{\}bowtie}$ correspondence :

INTRODUCTION

Entering the 21st century, the development of science and technology has many challenges in global competition that cannot be separated from the quality of education (Abidin, Mulyati, & Yunansah, 2017). The development educational science requires quality 49 numan resources with various abilities (Wustenberg et al., 2014). By. Therefore, today's learning must be able to develop 21st century abilities, namely critical thinking, communication, collaboration and creativity (Pritasari et al., 2016)One of the communication skills is the ability to argue which is the main thing that underlies students to learn how to think, act, and communicate which can be strengthened by the presence of data or evidence (Noer et al., 2020). Argumentation can change learning that focuses on memorization activities towards learning activities that involve students in scientific practice by building and justifying knowledge claims (Supeno & Endang, 2015; Berland & Reiser, 2009). The ability to argue makes students have logical reasoning, clear and rational explanations of the things they learn about scientific phenomena that occur in everyday life based on scientific theories/concepts (Osborne, 2010).

Argumentation skills are important to be empowered in learning. Arguments are still rarely ased in science education and laboratory activities (Driver et al., 2000; Jimenez, Rodrigues, & Duschl, 2000). The discussions were still weak and some students were not involved in arguing (Zohar & Nemet, 2002; Jimenez, Rodrigues & Duschl, 2000; Sampson et al., 2011). In addition, in research conducted by Afgani et al., (2020) it is stated that some teachers (55-60%) in Bandar Lampung are aware that the argumentation ability of students is still low. One of the learning models that can train scientific argumentation skills is Argument Driven Inquiry (ADI). According to Sampson et al., (2011), the ADI learning model is designed to help students understand the procedures for making scientific explanations, generalizing scientific facts, using data to answer scientific questions and ultimately reflecting on the work they have done. The ADI model has the potential to develop argumentation skills in the biology learning process (Hasnunidah, 2016).

Marhamah et al., (2017) mat the implementation of the ADI model in learning is able to improve students argumentation skills from level 1 to level 3. In addition, the research conducted by Khusnayain et al., (2013) using the ADI model LKS can obtain a higher scientific argumentation skill score than the conventional model.

Learning model Argument Driven Inquiry appropriate to use in learning the subject matter of biotechnology because this material has a problem or real physical phenomena that are often encountered in everyday life, so that students have no difficulty in making scientific investigations. biotechnology is a branch of biology that studies the utilization and improvement of the potential of living things for human welfare (Amalina et al, 2018). Biotechnology is an interdisciplinary field involving various disciplines including biology, chemistry, biochemistry, molecular biology, genetics, immunology and microbiology. The scope of biotechnology is very broad which includes agricultural biotechnology, biotechnology, industrial biotechnology, and marine biotechnology (Wardani, Wijayanti, & Widyastuti, 2020). Learning the basic material of Biotechnology in science subjects Curriculum 2013 SMP/MTs class IX, students need to achieve basic competencies KD 3.9 Applying the concept of biotechnology and its role in human life and KD 4.9 Making one of the conventional biotechnology products that exist in surrounding environment.

The application of the ADI model in learning the subject matter of Biotechnology which is directed at students' activities in investigation, argumentation, writing, and review requires appropriate worksheets. Student Worksheets (LKPD) are teaching materials that contain material, summaries and assignments that have been packaged with learning instructions make it easier for students to learn and understand learning materials (Candra et al., 2016). According to Kristyowati (2018), LKPD is very important given to students to be more active in learning, improve critical and creative thinking skills and be able to collaborate in accordance with the demands of the 21st century. LKPD can be used as a good guide in facilitating student learning activities and their creativity, as well as

an effort to equip knowledge and skills so that student learning success can be achieved (Kistiono & Muslimin, 2017). Although the *Argument-Driven Inquiry* has been widely applied in various science lessons, there are still few that are implemented with the help of electronic teaching materials (LKPD), especially during the COVID-19 pandemic. This research focuses on efforts to improve argumentation skills on the topic of biotechnology.

METHODS

The research design used by the researcher is the *Nonequivalent Control Group Design*. The experimental class uses the ADI model and the control class uses the *Discovery Learning*. The drawings of the design are as follows:

Table 1. Research Design

Group	Pretest	Treatment	Posttest
Experiment	O_1	X	O_2
Control	O_3	-	O_4

Description

O₁: Pretest experimental class

O₃: Pretest control class

X : Learning treatment with interactive e-LKPD

with Argument-Driven-Inquiry
O₂: Pretest experimental class

O4: Posttest control class

Diagrammatically the treatment of the two classes is described as follows:

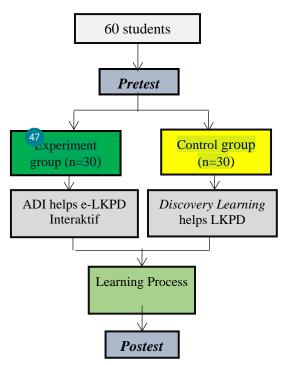


Figure 1. Quasi Experimental Diagram

The instrument used in this research is a *pretest* and *posttest* which has been validated with a score The counts are 0.661, 0.711, 0.554 and 0.854, respectively, so that they meet the valid criteria. Also, the reliable value is 0.613 with

moderate criteria. For this reason, measuring the quality of students' argumentation in the learning process can be measured using the assessment developed by Hazeltine (2017) which is presented in Table 2.

Table 2. Quality of Argumentation Ability

	4	J	2	1
Claim	The claim is easily distinguishable and is well written	The claim is well written, but could use some clarifying.	The claim is not quite clear, and needs developing.	The claim is indistinguishable or doesn't exist.
Grounds	he grounds to your argument are clear, concise, and easy to identify.	The grounds to your argument are easily identified, but need some clarifying.	The grounds to your argument are murky and need some development.	The grounds to your argument aren't displayed or aren't relevant.
Warrant	The warrant is well written, easily identifiable, and connects the claim and grounds of your argument efficiently.	The warrant is clearly identifiable, but could use some clarifying.	The warrant is anclear, but there is something connecting your claims and grounds.	The warrant loesn't connect your claim to your grounds or it isn't easily identifiable.
Backing	Evidence supports the warrant.	Lvidence that supports the warrant, but could use some clarifying to show connection as evidence.	Evidence that supports the warrant but the connections need to be clearer.	Evidence that supports the warrant is not identifiable or does not support the warrant.

RESULTS AND DISCUSSION

The effect of learning by using the interactive e-LKPD product for biotechnology materials with the ADI model to improve students' argumentation skills as measured by using *pretest-posttest* with the average results which an be seen in Figure 1. Furthermore, the data from the *pretest-posttest* then tested for normality, homogeneity and *N-Gain*. In addition, the

differences between the two groups of experimental and control data were identified using the *independent sample t-test*. was calculated *effect size* to determine the size of the effect of using interactive e-LKPD with the ADI model. The results of the average *pretest* and *posttest* can be seen in Figure 2. And the increase in the level of argumentation ability can be seen in Figure 3 for the experimental group and Figure 3 for the control group.

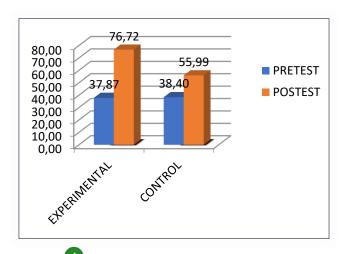


Figure 2. Average of retest and Posttest in the experimental and control groups

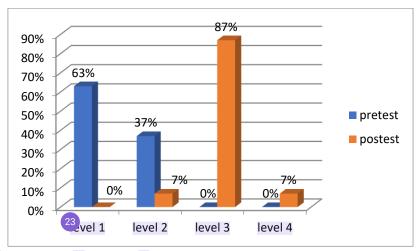


Figure 3. Percentage of Increase in Argumentation Ability of Experimental Group Students

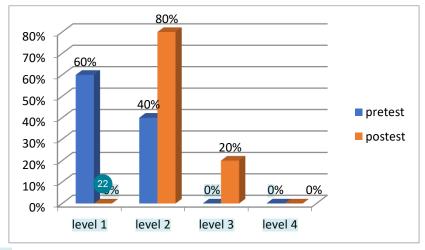


Figure 4. Percentage of Increase in Argumentation Ability of Control group Students

The average value obtained was then analyzed using normality test, homogeneity test, *N Gain, T-Test* and *Effect size* to determine the

difference between the two groups of data. The results of the analysis test results can be seen in Table 3.

Table 3. Normality Test, Homogeneity Test, Average N-Gain, t-Test and Effect Size

Class	Normalit	y test	Homoger	neity test	<i>X</i> N-	ndependent	Effect
Class	Pretest	Postest	Pretest	Postest	Gain	Sample t-Test	Size
Experiment	0.062	0.141	— 0.812	0.460	0.63	Sig.(2-tailed) 0,00	0.90
Control	0.109	0.399	— 0.812	0.400	0.28	< 0.05	0.90

The implementation of the interactive e-LKPD for biotechnology materials with the ADI model is seen from the increase in argumentation ability which is supported by the ' pre-post studentsThe student learning process is carried out with zoom meetings and face-to-face activities. Zoom meetings are carried out by the teacher in giving appreciation, identifying tasks, collecting data and making tentative arguments with discussion in a breakout room according to their respective groups. In the first activity of task identification, students seemed interested and actively involved in learning. Furthermore, the second and third stages, namely collecting data and making tentative arguments, were carried out by grouping students in breakout room and the teacher guiding students in managing and analyzing data accompanied by explanations, evidence and reasons. The learning process carried out using zoom meetings has problems, namely students have difficulty accessing the internet. This is due to network limitations for students who live in areas where internet networks are difficult.

The fourth activity is the argumentation session, students carry out activities directly giving their arguments in groups. Furthermore, in the fifth stage, namely the preparation of reports, students are asked to make reports ased on the results of the investigations that have been carried out. Report generation is typed on a piece of paper. The sixth stage is report review, which is done by collecting reports and then the report is given an assessment by colleagues. The report review process is carried out with instructions and directions by the teacher. After the review, the seventh stage is the process of revising the report. In this process students are asked to improve reports on the results of the investigations that have been made and assessed by their peers. Then the last stage, namely the reflective discussion stage at this stage concludes about what they have learned during the investigation. From several stages of the ADI learning model that has been

implemented using this interactive e-LKPD biotechnology material.

The implementation of interactive e-LKPD in improving argumentation skills is seen from the results of the *pretest* and *posttest*. In addition, it is also seen from the value of n-Gain and effect size to find out the difference in the experimental class as a class that treats learning implementation using interactive e-LKPD and the control sess uses learning that teachers usually apply. The results of the analysis of the data obtained by the average pretest of 37.87 and posttest of 76.72 in the experimental class, while the average value of pretest and posttest in the control class is 38.40. and 55.99. Based on the results of the average pretest and posttest of the experimental and control classes, it can be seen that the experimental class has a higher increase in value than the control class. In addition test ^N-Gain the experimental class are 0.63 and the control class is 0.28. The results of the acquisition of the average value of the two classes an be concluded that the percentage gain of the experimental class is greater than that of the control class.

Increasing the level of argumentation based on Figure 3 and Figure 4, 1 is known that the level of argumentation in the experimental class with the percentage of pretest level 1 is 63% and level 2 is 37%, while in *posttest* level 2 is 7%, level 2 is 87% and level 4 is 7%. The percentage level the control class obtained the results of the pretestt, namely level 1 of 60% and level of 40%. While the posttest is level 2 by 80% and level 3 by 20%. Sased on this percentage value, it can be concluded that the experimental class students obtained a higher increase, namely level 1 to level 3_compared to control class students who obtained an increase in level from level 1 to level 2. This was due to the application of learning using interactive e-LKPD with ADI model which has stages of learning to train students' argumentation skills. Thus, the application of the ADI model in the experimental class allows students to write Claims well using several clarifications (Claim), arguments are easily

identified (Grounds), can identify clearly and are easily clarified (Warramt), and backing made has supported warrants using several clarification to show evidence (Backing). This is in accordance with research conducted by Shofiyatun et al. (2017) that learning by applying the Argument-Driven Inquiry (ADI) model has a significant effect on increasing students' argumentation skills. According to (Lismawati et al., 2021) the increase in the level of argumentation in the experimental class has a higher value due to the investigation process carried out using the ADI model. In addition, Putra., et al (2019) also ased on their research obtained the results of the BNT test, the difference in the average value of argumentation skills in the ADI model and the guided inquiry model was 33.25 and 10.4, respectively. That is, ne achievement of argumentation skills in students using the ADI model is higher.

Test effect size obtained a value of 0.90 according to Cohen (2007) effect size in the high category. This shows that students' ability to argue is influenced by the implementation of learning using interactive e-LKPD products with biotechnology materials using the ADI model. This is in line with research conducted by Marhamah, Nurlaela & Setiawati (2017) that learning with the ADI model increases the level of argumentation from 1 to level 3. In addition, Nurrahman's research (2018) that students' argumentation skills using the ADI learning model are significantly higher. higher than the average *n-Gain* argumentation ability of students using conventional learning.

CONCLUSION

implementation of interactive biotechnology e-LKPD with the Argument-Driven Inquiry model is effective in improving the argumentation ability of the referred students from the significant difference in the results of the average pretest-posttest score which shows the average score of the experimental class is higher than that of the experimental class. control class. The use of interactive e-LKPD with the ADI model has succeeded in boosting the low involvement of students in learning science during the Covid-19 pandemic, so that the increase in thinking and

practicing activities during biotechnology learning has changed positively. In addition, science learning programs with interactive e-LKPD have the potential as *scaffolding* in stimulating students' higher-order thinking skills in the digital literacy era.

REFERENCES

- Abidin, Y., Mulyati, T., & Yunansah, H. (2017). Pembelajaran Literasi. Bumi Aksara.
- Afgani, T., Hasnunidah, N., & Sikumbang, D. (2020). Pengaruh Model Pembelajaran Argument-Driven Inquiry (ADI) Dan Gender Terhadap Keterampilan Argumentasi Siswa. *Assimilation: Indonesian Journal of Biology Education*, 8(1), 1–10. https://doi.org/10.17509/aijbe.v1i2.1304
- Amalina, N. S., Amin, M., & Lukiati, B. (2018). Evaluasi Kebutuhan Modul Bioteknologi Berbasis Problem Based Learning untuk Mahasiswa Jurusan Biologi. Jurnal Pendidikan: Teori, Penelitian, Dan Pengembangan, 3(10), 1343-1346. http://journal.um.ac.id/index.php/jptpp/ article/view/11669
- Berland, L. K., & Reiser, B. J. (2009). Making sense of argumentation and explanation. *Science Education*, *93*(1), 26–55. https://doi.org/10.1002/sce.20286
- Candra, Yogi, P., Djamas, D., & Gusnedi. (2016).

 Pengaruh Lembar Kerja Peserta Didik (LKPD)

 Berbasis Model Pembelajaran Terpadu Tipe

 Sequenced Terhadap Kompetensi Siswa Pada

 Mata Pelajaran IPA Kelas VIII Di SMP Negeri

 3 Pariaman. 8, 137–144.
- Driver, R., Newton, P., & Osborne, J. (2000). Establishing the norms of scientific argumentation in classrooms. *Science Education*, 84(3), 287–312. https://doi.org/10.1002/(sici)1098-237x(200005)84:3<287::aid-sce1>3.0.co;2-a
- Hasnunidah, N. (2016). Pengaruh Argument-Driven
 Inquiry dengan Scaffolding Terhadap
 Keterampilan Argumentasi, Keterampilan
 Berpikir Kritis, dan Pemahaman Konsep
 Biologi Dasar Mahasiswa Jurusan Pendidikan

- MIPA Universitas Lampung. (Disertasi). Universitas Negeri Malang.
- Hazeltine. (2017). *Toulmin Argument Rubric*. 1. https://www.ccusd93.org/cms/lib/AZ02 204140/Centricity/Domain/1089/Toulm in Rubric.pdf
- Jimenez-Aleixandre, M. P., Rodriguez A. B., & Duschl, R. (2000). *Doing the lesson or doing science. Argument in high school genetics.* 6(84), 757–792. https://doi.org/https://doi.org/10.1002/1098-237X(200011)84:6<757::AID-SCE5>3.0.CO;2-F
- Khusnayain, A., Abdurrahman, & Suyatna, A. (2013). Pengaruh Skill Argumentasi Menggunakan Model Pembelajaran Problem Based Learning (PBL) Terhadap Literasi Sains Siswa. *Jurnal Pendidikan Fisika*, 1(4), 69–76.
- Kistiono, Taufik, M. (2017). Desain Lembar Kerja Peserta (LKPD) IPA Berbasis Saintifik untuk Meningkatkan Pemahaman Konsep di Kelas VII, VIII, dan Kelas IX SMP/MTs. *Prosiding Seminar Nasional Pendidikan IPA 2017*, 1(1), 704–715.
- Kristyowati, R. (2018). Lembar Kerja Peserta Didik (LKPD) IPA Sekolah Dasar Berorientasi Lingkungan. *Prosiding Seminar* Dan Diskusi Nasional Pendidikan Dasar 2018, 282–288.
- Lismawati., Hasnunidah, N., & Abdurrahman., A. (2021). Design and Validation of Science Student Worksheet based on Argument Driven Inquiry to Improve Argumentation Skills for Junior High School Students. *Jurnal IPA & Pembelajaran IPA*, 5(3), 250–258. https://doi.org/10.24815/jipi.v5i3.22079
- Marhamah, O. S., Nurlaelah, I., & Setiawati, I. (2017). Penerapan Model Argument-Driven Inquiry (Adi) Dalam Meningkatkan Kemampuan Berargumentasi Siswa Pada Konsep Pencemaran Lingkungan Di Kelas X Sma Negeri 1 Ciawigebang. Quagga: Jurnal Pendidikan Dan Biologi, 9(02), 45. https://doi.org/10.25134/quagga.v9i02.7 47

- Model, P., & Adi, A. I. (2017). Meningkatkan Kemampuan Berargumentasi Siswa Pada Konsep Pencemaran Lingkungan Di Kelas X SMA.

 https://doi.org/10.25134/quagga.v9i02.7 47.Abstrak
- Noer, H. A., Setiono, S., & Pauzi, R. Y. (2020). Profil Kemampuan Argumentasi Siswa Smp Pada Materi Sistem Pernapasan. *Jurnal Pelita Pendidikan*, 8(2), 138–144. https://doi.org/10.24114/jpp.v8i2.17702
- Nurrahman, A., Kadaritna, N., & Tania, L. (2018). Efektivitas Model Pembelajaran ADI dalam Meningkatkan Keterampilan Argumentasi Siswa Berdasarkan Kemampuan Akademik. 3(1), 1–13.
- Osborne, J. (2010). Arguing to learn in science: The role of collaborative, critical discourse. *Science*, *328*(5977), 463–466. https://doi.org/10.1126/science.1183944
- Pritasari, Ade Cyntia., Dwiastuti, Sri , dan Probosari, Rezky, M. (2006). Peningkatan Kemampuan Argumentasi melalui Penerapan Model Problem Based Learning pada Siswa Kelas X MIA 1 SMA Batik 2 Surakarta Tahun Pelajaran 2014/2015. Pendidikan Biologi, 8(1), 1–7.
- Putra, D. J., Hasnunidah, N., & Surbakti, A. (2019). Pengaruh Argument Driven Inquiry Terhadap Keterampilan Berpikir Kritis pada Materi Sistem Pencernaan. *Jurnal Bioterdidik*, 7(1), 1–10. http://repository.lppm.unila.ac.id/id/eprint/11084
- Sampson, V., Grooms, J., & Walker, J. P. (2011).

 Argument-Driven Inquiry as a way to help students learn how to participate in scientific argumentation and craft written arguments: An exploratory study. *Science Education*, 95(2), 217–257. https://doi.org/10.1002/sce.20421
- Supeno., Nur, M., & Susantini, E. (2015).

 Pengembangan Lembar Kerja Siswa
 Untuk Memfasilitasi Siswa Dalam Belajar
 Fisika Dan Berargumentasi Ilmiah.

 Seminar Nasional Fisika Dan
 Pembelajarannya, 36–40.
- Wardani, Krisna, A., Wijayanti, Dita S., Widyastuti, E. (2020). *Pengantar Bioteknologi*. UB Press.

- Wüstenberg, S., Stadler, M., Hautamäki, J., & Greiff, S. (2014). The role of strategy knowledge for the application of strategies in complex problem solving tasks. *Technology, Knowledge and Learning, 19*(1–2), 127–146.
- https://doi.org/10.1007/s10758-014-9222-8
- Zohar, A., & Nemet, F. (2002). Fostering students' knowledge and argumentation skills through dilemmas in human genetics. *Journal of Research in Science Teaching*, *39*(1), 35–62. https://doi.org/10.1002/tea.10008

30% Overall Similarity

Top sources found in the following databases:

- 25% Internet database
- · Crossref database
- 15% Submitted Works database
- 14% Publications database
- Crossref Posted Content database

TOP SOURCES

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

ccusd93.org Internet	4%
journal.unj.ac.id Internet	2%
jurnal.unsyiah.ac.id Internet	2%
eprints.eudl.eu Internet	1%
Monash University on 2022-04-15 Submitted works	<1%
link.springer.com Internet	<1%
ejournal.radenintan.ac.id Internet	<1%
ijpsat.ijsht-journals.org Internet	<1%

e-journal.hama Internet	zanwadi.ac.id
gssrr.org Internet	
fultonschools Submitted works	on 2020-09-04
Andi Thahir, R a Crossref	ahma Diani, Deby Permana. "Advance Organizer Model in
eudl.eu Internet	
jppipa.unram.a	ac.id
Mahfud, C Her Crossref	mawan, D A Pradana, H D Susanti. "Developing a Proble
Riza Fatimah 2 Crossref	Zahrah, Winarti Dwi Febriani. "A CONTEXTUAL PROBLEM.
repository.lppi Internet	m.unila.ac.id
" Design of Eng Crossref	lish educational games and SPSS analysis on applicatio
jurnallensa.we	eb.id

Universitas Pendidikan Indonesia on 2019-07-26 Submitted works	
Universiti Sains Malaysia on 2014-08-08 Submitted works	
mafiadoc.com Internet	
Notre Dame Prepatory High School on 2016-01-21 Submitted works	
Notre Dame Prepatory High School on 2016-01-22 Submitted works	
smartlib.umri.ac.id Internet	
Jonathan F. Osborne. "Scientific argument and explanation: A n Crossref	ecessa
Saiful Amin, Sumarmi Sumarmi, Syamsul Bachri, Singgih Susilo Crossref	, Abdul
Syiah Kuala University on 2018-08-02 Submitted works	
etheses.uin-malang.ac.id Internet	
journal.ia-education.com Internet	
State Islamic University of Alauddin Makassar on 2020-07-27	

Teresa Ibáñez Orcajo, Mercedes Martínez Aznar. "Solving Problems Crossref	in <1%
animals.about.com Internet	<1%
scilit.net Internet	<1%
H N Lukma, D Setyawan, Chosinawarotin. "Effectiveness of animatic	on <1%
Padrul Jana, Nurchasanah Nurchasanah, Syita Fatih 'Adna. "E-Learni Crossref	ing <1%
SMA Alfa Centauri on 2021-11-26 Submitted works	<1%
Syiah Kuala University on 2022-05-13 Submitted works	<1%
Universitas Brawijaya on 2020-11-02 Submitted works	<1%
adoc.pub Internet	<1%
conference.eadtu.eu Internet	<1%
ejournal.undiksha.ac.id Internet	<1%
garuda.kemdikbud.go.id Internet	<1%

ijisrt.com Internet	<1%
journal.ubm.ac.id Internet	<1%
wprim.whocc.org.cn Internet	<1%
coursehero.com Internet	<1%
tojet.net Internet	<1%
University of Maine on 2021-05-03 Submitted works	<1%
University of Wollongong on 2019-04-17 Submitted works	<1%
Victor Sampson, Joi Phelps Walker. "Argument-Driven Crossref	Inquiry as a Way <1%

Excluded from Similarity Report

• Bibliographic material

• Manually excluded sources

EXCLUDED SOURCES

Diana Vivanti Sigit, Ade Suryanda, Shafira Ramadhanty Adityaningsih. "The Crossref	e pe <1%
Universitas Negeri Semarang on 2022-04-17 Submitted works	<1%
docplayer.info Internet	<1%
UIN Sunan Ampel Surabaya on 2020-12-20 Submitted works	<1%
UIN Sunan Ampel Surabaya on 2020-12-20 Submitted works	<1%
vdocuments.site Internet	<1%
scribd.com Internet	<1%
repositori.uin-alauddin.ac.id Internet	<1%