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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah (Prosiding) : Effects of repetition rate on the identification of elements in gemstone using the LIBS method

Nama/ Jumlah Penulis : 4 orang

Status Pengusul : ~~Penulis pertama~~ / Penulis ke 4 / Penulis Korespondensi **

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- b. ISBN/ISSN : 1742-6588, 1742-6596
- c. Thn Terbit, Tempat Pelaks. : 2020, Semarang Indonesia
- d. Penerbit/Organiser : IOP Publishing
- e. Alamat Repository/Web : <https://iopscience.iop.org/journal/1742-6596>
- Alamat Artikel : <https://iopscience.iop.org/article/10.1088/1742-6596/1524/1/012025/pdf>
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Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional ☒	Nasional ☐	
a. Kelengkapan unsur isi prosiding (10%)	3		2,5
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,3
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,5
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,5
Total = (100%)	30		27,7
Nilai Pengusul = 40% x 27,7 = 11,08			

Catatan Penilaian artikel oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur prosiding:

Prosiding memiliki kesesuaian antar bagian dengan prosedur penulisan yang ditentukan dan memiliki kelengkapan unsur prosiding yang cukup baik.

2. Ruang lingkup dan kedalaman pembahasan:

Pembahasan telah dilakukan sesuai dengan hasil riset yang di dasarkan pada gap penelitian yang dikemukakan.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Data dan informasi yang digunakan dalam penulisan cukup mutakhir, sebaiknya ditambah literatur yang cukup dan terbaru sesuai dengan topik penelitian.

4. Kelengkapan unsur dan kualitas terbitan/ prosiding:

Jurnal memiliki kelengkapan yang baik, diterbitkan oleh kepanitiaan yang terpercaya dan berpengalaman, memiliki similaritas yang cukup rendah.

Semarang, 20 April 2021

Reviewer 1



Prof. Dr. Suryono, S.Si., M.Si.

NIP. 197306301998021001

Unit Kerja : Fisika

Bidang Ilmu: Fakultas Sains dan Matematika

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a. Kelengkapan unsur isi prosiding (10%)	3		2,7
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,3
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,3
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,5
Total = (100%)	30		27,8
Nilai Pengusul = 40% x 27,8 = 11,12			

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1. Kesesuaian dan kelengkapan unsur isi jurnal:

Isi jurnal sangat sesuai dan lengkap dari komponen-komponen yang ada abstrak, pendahuluan, prosedur eksperimen, hasil dan pembahasan, lalu kesimpulan dan daftar pustaka yang digunakan.

2. Ruang lingkup dan kedalaman pembahasan:

Paper ini membahas tentang pengaruh tingkat pengulangan pada identifikasi elemen dalam batu permata menggunakan metode LIBS.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Data-data/informasi serta metodologi yang digunakan mutakhir.

4. Kelengkapan unsur dan kualitas terbitan:

Karya ini diterbitkan dalam prosiding internasional dengan unsur-unsur yang lengkap serta kualitas yang baik.

Semarang, 04 Juli 2021

Reviewer 2



Dr. Eng. Eko Hidayanto, S.Si., M.Si.

NIP. 197301031998021001

Unit Kerja : Fisika

Bidang Ilmu: Fakultas Sains dan Matematika

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

Judul Karya Ilmiah (Artikel) : Effects of repetition rate on the identification of elements in gemstone using the LIBS method

Jumlah Penulis : 4 orang

Status Pengusul : ~~Penulis pertama~~/ Penulis ke 4/ ~~Penulis Korespondensi~~ **

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	2,5	2,7	2,6
b. Ruang lingkup dan kedalaman pembahasan (30%)	8,3	8,3	8,3
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	8,5	8,3	8,4
d. Kelengkapan unsur dan kualitas penerbit (30%)	8,5	8,5	8,5
Total = (100%)	27,7	27,8	27,75
Nilai untuk Pengusul : (40% x 27,75) = 11,10			

Semarang, 24 Februari 2021

Reviewer 1



Prof. Dr. Suryono, S.Si., M.Si.

NIP. 197306301998021001

Bidang ilmu/Unit kerja : Fakultas Sains dan Matematika/Fisika

Reviewer 2



Dr. Eng. Eko Hidayanto, S.Si., M.Si.

NIP. 197301031998021001

Bidang ilmu/Unit kerja : Fakultas Sains dan Matematika/Fisika



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Natural Science and Its Application (9th ISNPINSA)**

**Held on 22 October 2019 at Gets Hotel, Semarang, Indonesia
with paper entitled as follows:**

Effects of repetition rate on identification of elements in gemstone using the LIBS method



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Effects of repetition rate on the identification of elements in gemstone using the LIBS method

Bagaskara A., Soesanto Q.M.B., Sugito H., Khumaeni A. ✉

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Department of Physics, Faculty of Science and Mathematics, Diponegoro University, Jl. Prof. Soedarto, SH, Tembalang, Semarang, 50275, Indonesia

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In material science, there are several methods for detecting elemental content in a material (sample) such as X-Ray Fluorescence (XRF), (X-Ray Diffraction) XRD, (Scanning Electron Microscope) SEM, (Transmission Electron Microscope) TEM), etc. Non-metallic samples such as gemstone can be detected by XRF and XRD methods. But in this method, the sample must get special treatment such as being crushed and converted into powder form. In this study, LIBS was used to identify elements in a gemstone. The laser-induced breakdown spectroscopy (LIBS) method is an alternative method for solving deficiencies in the previous study. The results show the same elements contained in the gemstone can clearly be detected. The elements are also confirmed by using the standard technique of X-ray fluorescence and the result revealed that the elements are consistent as in the case of the LIBS technique. © Published under licence by IOP Publishing Ltd.

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Polypropylene and High Density Polyethylene by Nanosecond Infrared Laser
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🔍 Khumaeni, A.; Department of Physics, Faculty of Science and Mathematics,
Diponegoro University, Jl. Prof. Soedarto, SH, Tembalang, Semarang, Indonesia;
email:khumaeni@fisika.undip.ac.id

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Effects of repetition rate on the identification of elements in gemstone using the LIBS method

A Bagaskara¹, Q M B Soesanto¹, H Sugito¹ and A Khumaeni¹

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Journal of Physics: Conference Series, Volume 1524, The 9th International Seminar on New Paradigm and Innovation of Natural Sciences and its Application 22 October 2019, Central Java, Indonesia

Citation A Bagaskara *et al* 2020 *J. Phys.: Conf. Ser.* **1524** 012025

khumaeni@fisika.undip.ac.id

¹ Department of Physics, Faculty of Science and Mathematics, Diponegoro University Jl. Prof. Soedarto, SH, Tembalang, Semarang 50275, Indonesia

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Abstract

In material science, there are several methods for detecting elemental content in a material (sample) ^{PDF} such as X-Ray Fluorescence (XRF), (X-Ray Diffraction) XRD, (Scanning Electron Microscope) ^{Help} SEM, (Transmission Electron Microscope) TEM), etc. Non-metallic samples such as gemstone can be detected by XRF and XRD methods. But in this method, the sample must get special treatment such as being crushed and converted into powder form. In this study, LIBS was used to identify elements in a gemstone. The laser-induced breakdown spectroscopy (LIBS) method is an alternative method for solving deficiencies in the previous study. The results show the same elements contained in the gemstone can clearly be detected. The elements are also confirmed by using the standard technique of X-ray fluorescence and the result revealed that the elements are consistent as in the case of the LIBS technique.

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International Seminar on New Paradigm and Innovation of Natural Sciences and its Application (ISNPINSA) is annual conferences organized by Faculty of Sciences and Mathematics (FSM), Diponegoro University (UNDIP), Semarang, Central Java, Indonesia. This seminar has been successfully conducted since 2011 and therefore becoming an annual event since then. The objectives of ISNPINSA are to facilitate brain storming and state of the art information in field of sciences and mathematics; to increase innovation of technology that can be applied in industries; to contribute in formulating strategy to increase the role of science for community; and to stimulate collaboration between industries, researchers and government to increase community welfare. The theme of 9th ISNPINSA in 2019 is **“CONTRIBUTION OF SCIENCE TOWARD INDUSTRY 4.0 ERA”**. This



and Energy sustainability, strengthen the collaboration between Scientists either from Indonesia or other countries, stimulated a new research partnership and contributed in formulating policies to increase the important roles of science for community. The Seminar will cover all research and development in the following fields—but not limited to:

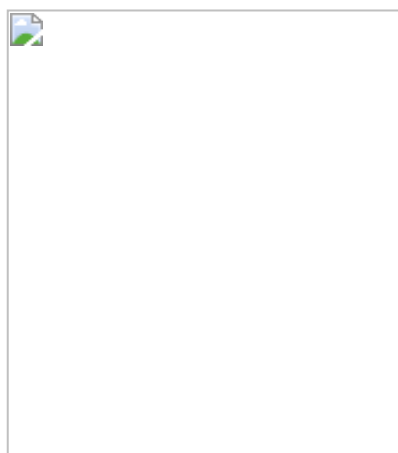
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3. Biology and Applied Biology
4. Chemistry and Applied Chemistry
5. Statistics and Applied Statistics
6. Informatics
7. Biomedical Science and Its Application
8. Biochemistry and Molecular Biology
9. Applied Ecology, Environmental Science and Sustainability
10. Earth Science and Natural Resources Management for environmental Sustainability

Date and Venue

October 22, 2019

Gets Hotel Semarang - Jl. MT. Haryono No.312 - 316, Sarirejo, Kec. Semarang Timur, Kota Semarang, Jawa Tengah 50124

Keynote Speakers



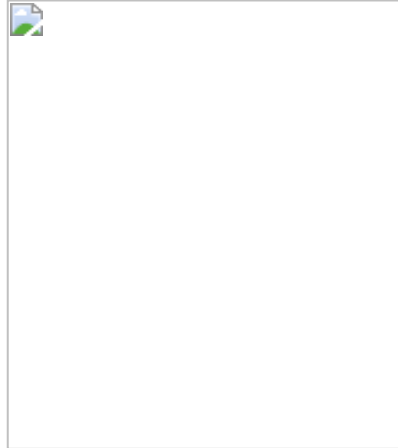
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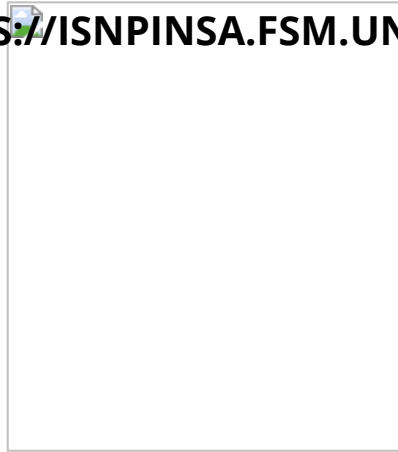
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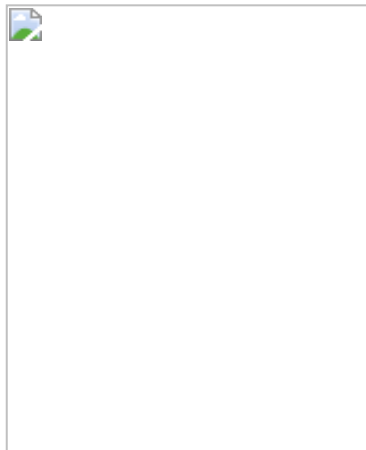
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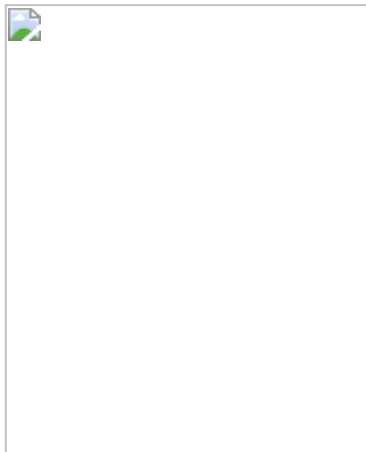


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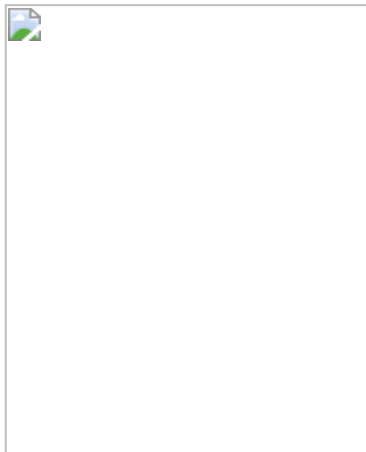


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Department of Mathematics Diponegoro University

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Important Dates

- **August 30, 2019**
Registration Ends
 - **September 20, 2019**
Abstract & Full Paper Submission Ends*
 - **September 20, 2019**
Early Bird Registration
 - **October 22, 2019**
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