

Judul Artikel : Synthesis and Characterization Materials M-Barium Hexaferrite Doping Ions Co-Mn Nano Particle

Penulis : Susilawati, Aris Doyan dan Sahlam

Nama Seminar/Konferensi/Simposium : 3rd International Conference on Functional Materials Science 2016

Penyelenggara/Penerbit : IOP Publishing Ltd

Waktu/Tempat Pelaksanaan : 20 May 2017/Sanur-Bali, Indonesia

Halaman : 012006-1 -012006-5

ISBN/ISSN : *ISBN:978-0-7354-1469-3*

Web Prosiding : <https://iopscience.iop.org/issue/1757-899X/196/1>

URL Dokumen : <https://iopscience.iop.org/article/10.1088/1757-899X/196/1/012016/pdf>

DOI : <http://doi.org/10.1088/1757-899X/196/1/012016>

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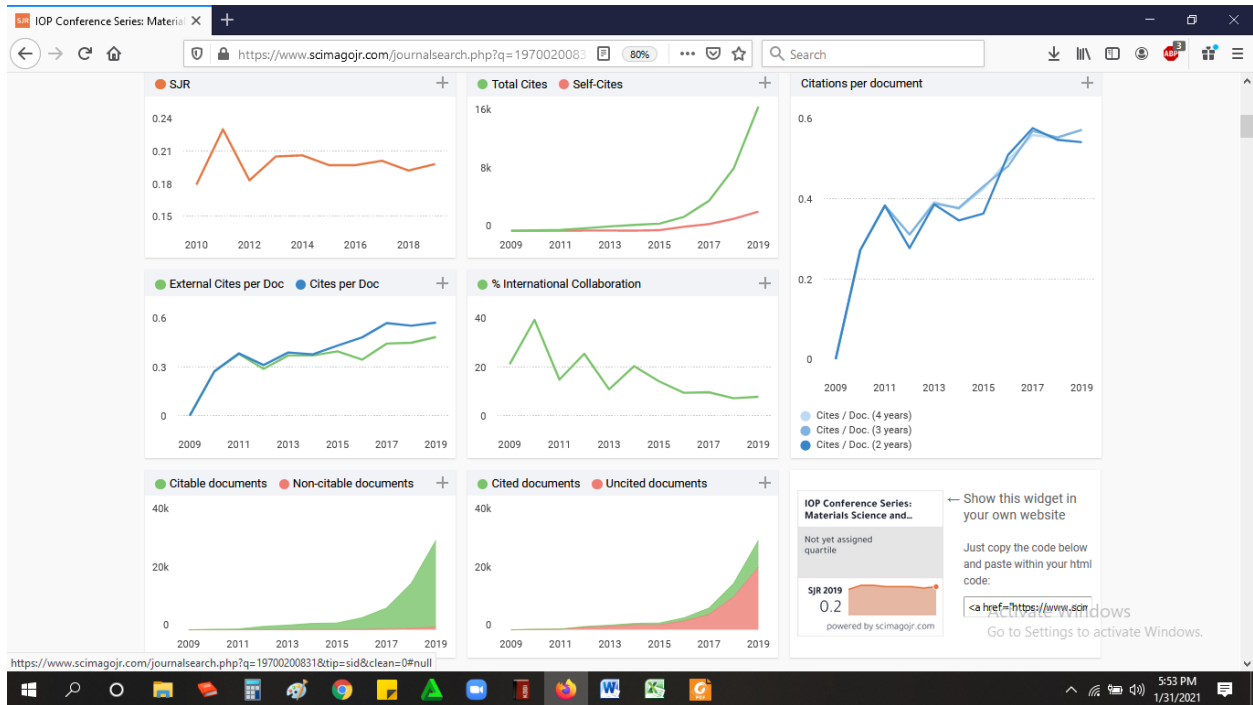
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Synthesis and Characterization Materials M-Barium Hexaferrite Doping Ions Co-Mn Nano Particle

Susilawati¹, A Doyan² and Sahlam³

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[IOP Conference Series: Materials Science and Engineering, Volume 196, 3rd International Conference on Functional Materials Science 2016 19–20 October 2016, Sanur-Bali, Indonesia](#)

Citation Susilawati et al 2017 *IOP Conf. Ser.: Mater. Sci. Eng.* 196 012016

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Article information

Abstract

This research has been success in the synthesis of M-Barium hexaferrite (BaM) doping Co-Mn ions using coprecipitation method are expected to be applied as a base material in the coating RADAR. M-Barium hexaferrite (BaM) are $BaFe_{12-2x}Co_xMn_xO_{19}$ synthesized with various concentrations ($x = 0.0, 0.1, 0.2, 0.3$) and the calcinations temperature ($T = 400^\circ C, 600^\circ C, 800^\circ C$). The materials characterization using a X-Ray Diffraction (XRD), Transmission Electron Microscope (TEM), Inductance Capacitance and resistance (LCR) meter, and Vibrating Sample Magnetometer (VSM) Instruments. The measurement

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Synthesis and Characterization Materials M-Barium Hexaferrite Doping Ions Co-Mn Nano Particle

Susilawati, A Doyan, Sahlam

¹Magister Science, Post Graduate of Mataram University, Mataram, Indonesia

E-mail: susilawatihambali@yahoo.co.id

Abstract. This research has been success in the synthesis of M-Barium hexaferrite (BaM) doping Co-Mn ions using coprecipitation method are expected to be applied as a base material in the coating RADAR. M-Barium hexaferrite (BaM) are $BaFe_{12-2x}Co_xMn_xO_{19}$ synthesized with various concentrations ($x = 0.0, 0.1, 0.2, 0.3$) and the calcinations temperature ($T = 400^\circ C, 600^\circ C, 800^\circ C$). The materials characterization using a X-Ray Diffraction (XRD), Transmission Electron Microscope (TEM), Inductance Capacitance and resistance (LCR) meter, and Vibrating Sample Magnetometer (VSM) Instruments. The measurement results using XRD shows the material has a hexagonal crystalline structure. The measurement results using a TEM show a sample of nano crystal materials with grain diameters up to 40 nm and spacing of the crystal lattice. The measurement results using a LCR-meter shows the electric conductivity of 1.15×10^{-6} S/cm to BaM without doping, 3.75×10^{-6} S/cm to 0.1 doping concentration calcination temperature of $400^\circ C$, and $1,23 \times 10^{-5}$ S/cm to 0.3 doping concentration calcination temperature of $800^\circ C$, thus including semiconductor materials. The magnetic properties of materials using a VSM test results show the value of coercivity of 0.1 T; remanence value of 0.06 emu/ g; and the saturation value of 0.42 emu/g. The results above show BaM Co-Mn metal doping potential as anti-radar material.

1. Introduction

The mechanism is not detecting an object by radar to be based on two aspects that is the places designed with the geometry of angular radar absorbing structure (RAS), so that the reflection of electromagnetic waves cannot be recaptured by the receiver, and the airframe is covered by absorbent material radar wave, radar absorbing materials (RAM) Barium in the form of M-Barium hexaferrite $BaFe_{12}O_{19}$ [1]. A material can absorb radar when it interacts with the electric field of the wave, so many developed materials that are magnetic. The materials that have the ability to absorb radar include M-barium hexaferrite $BaFe_{12}O_{19}$ [2], because of the nature of magnetocrystalline anisotropy is high, it is necessary to engineering material properties such as conductivity, coercivity, saturation magnetization, magnetization remanence, and the Curie temperature to fit the needs by giving Fe ion doping with other elements such as Co, Zn, Ni, Mn, Ti, and others up to a certain amount. Giving doping is not expected to cause changes in the structure of the base material $BaFe_{12}O_{19}$ considering the dimensions of the doped material and almost the same doping [3]. Research is growing rapidly with a variety of methods to obtain barium M-Barium hexaferrite (BaM) in nano size, because the particle size largely determines the magnetic characteristics of the BaM. The method used is the sol-gel, crystallization gas, ball milling, coprecipitation, aerosol, precipitation of hydrothermal and mechanical integration. The coprecipitation is one method of synthesis of inorganic compounds based on the deposition of more than one substance



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E-mail dengan ICFMS 2016

The screenshot shows a Yahoo! Mail interface. The search bar contains the text "Temukan pesan, dokumen, foto, atau orang". The email list shows an email from "ICFMS Bali" with the subject "IOP Conference Proceedings". The email content is as follows:

Dear All 3rd-ICFMS2016,
We hereby inform that the IOP Conference Proceedings: Materials Science and Engineering have been published on line by Mei 20, 2017.
All participants can download the files at <http://iopscience.iop.org/issue/1757-899X/196/1>
With best regards,
Togar SARAGI
OC 3rd-ICFMS 2016

The email is dated "Sen, 22 Mei 2017 jam 10.10". The interface includes a left sidebar with folders like "Email Masuk", "Belum Dibaca", "Draft", "Terakhir", "Arsip", "Spam", "Sampah", and "Folder Baru". A right sidebar contains an advertisement for "Creative Cloud" by Adobe.

The screenshot shows a Yahoo! Mail interface. The search bar contains the text "Temukan pesan, dokumen, foto, atau orang". The email list shows an email from "ICFMS Bali" with the subject "Review IOP-ICFMS 2016". The email content is as follows:

Dear Dr. Susilawati,
Attached file is the result of Peer Review of your paper presented in 3rd ICFMS 2016.
The paper will be published in IOP Conf. Series: Materials Science and Engineering (MSE)
Please revise your manuscript following reviewer's comment and submit your revise version before **January 13, 2017**.
Thank you for your cooperation.
Best Regard,
Editor-Proceeding of 3rd ICFMS 2016

The email is dated "Sel, 3 Jan 2017 jam 19.32". Two attachments are visible: "16-FORM P... .pdf" (212.1KB) and "JPCSEa... .docx" (535KB). The interface includes a left sidebar with folders like "Email Masuk", "Belum Dibaca", "Draft", "Terakhir", "Arsip", "Spam", "Sampah", and "Folder Baru". A right sidebar contains an advertisement for "Go from now" with a trash can icon.

Re: Abstract susilawati

Dari: ICFMS Bali (3rd.icfms2016@gmail.com)

Kepada: susilawatihambali@yahoo.co.id

Tanggal: Selasa, 2 Agustus 2016 13.06 WITA

Dear: Dr. Susilawati Hambali

We would like to thank you for submitted your Extended Abstracts.

Please prepare your Full Paper in accordance with the template.

The procedure to download the template of Full Paper are listed below:

- a. go to: <http://situs.opi.lipi.go.id/icfms2016/>
- b. click on "Proceeding" item
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See you soon in Sanur Bali.

Thank you very much.

With best regards,

Togar SARAGI

Chairman of ICFMS2016

2016-08-01 12:07 GMT+07:00 Susilawati Hambali <susilawatihambali@yahoo.co.id>:

My Article susilawati

Dari: Susilawati Hambali (susilawatihambali@yahoo.co.id)

Kepada: 3rd.icfms2016@gmail.com

Cc: arisdoyan@yahoo.co.id

Tanggal: Selasa, 23 Agustus 2016 14.44 WITA

Dear, leadership ICFMS 2016 conference

Herewith I submit my articles to be accepted as a presenter at the 2016
icfms in sanur bali
thank you

susilawati, Ph.D

Full paper

Dari: Susilawati Hambali (susilawatihambali@yahoo.co.id)

Kepada: 3rd.icfms2016@gmail.com

Cc: arisdoyan@yahoo.co.id

Tanggal: Rabu, 24 Agustus 2016 10.23 WITA

Dear, leadership ICFMS 2016 conference
Herewith I submit my articles to be accepted as a presenter at the 2016 icfms in sanur bali
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susilawati, Ph.D



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Invitation Letter of ICFMS 2016

Dari: ICFMS Bali (3rd.icfms2016@gmail.com)

Kepada: susilawatihambali@yahoo.co.id

Tanggal: Senin, 5 September 2016 06.11 WITA

Dear participant,

Attached file is an invitation letter, acceptance letter including some important information for our conference of ICFMS 2016.

Please prepare your full paper in strict accordance with the camera ready format and it must be submitted to 3rd.icfms2016@gmail.com before **September 26, 2016**.

Please feel free to contact us if you need our assistance.

See you soon in Sanur Bali.

Sincerely yours

Lusi Safriani

OC-ICFMS 2016



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3. Template for Full Paper ICFMS 2016.doc
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3rd International Conference on Functional Materials Science 2016
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October 19-20, 2016, Bali, Indonesia
<http://situs.opi.lipi.go.id/icfms2016/>

INVITATION LETTER

To **Susilawati**

On behalf of the organizing committee of 3rd International Conference on Functional Materials Science 2016 (ICFMS 2016), we would like to invite you to participate in ICFMS 2016, to be held in Bali, Indonesia on October 19-20, 2016.

We are pleased to confirm that your paper entitled: **Synthesis and Characterization Materials M-Heksaferrite Doping Ion Co-Mn Nano Particle**, has been accepted to be presented in ICFMS 2016.

Please refer to **Conference Program** and **Presentation Guideline** for preparing your presentation.

All presented and accepted manuscripts from the ICFMS 2016 will be published in [IOP Conference Series: Materials Science and Engineering \(MSE\)](#), which is abstracting and indexing in ISI Web of Science (Conference Proceedings Citation Index), Scopus, EI Compendex, among others. Your login credentials for uploading your manuscript will be sent to your e-mail.

We are looking forward to seeing you in Bali.

Best Regard,

Dr. Togar Saragi, M.Si.
Chairman of Organizing Committee



3rd International Conference on Functional Materials Science 2016
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October 19-20, 2016, Bali, Indonesia
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ACCEPTANCE LETTER

To **Susilawati**

On behalf of the organizing committee of 3rd International Conference on Functional Materials Science 2016 (ICFMS 2016), we would like to invite you to participate in ICFMS 2016, to be held in Bali, Indonesia on October 19-20, 2016.

We are pleased to confirm that your paper entitled: **Synthesis and Characterization Materials M-Heksaferrite Doping Ion Co-Mn Nano Particle**, has been accepted to be presented as a contributed speaker in the **oral session**.

Please refer to **Conference Program** and **Presentation Guideline** for preparing your presentation.

We are looking forward to seeing you in Bali.

Best Regard,

Dr. Togar Saragi, M.Si.
Chairman of Organizing Committee



3rd International Conference on Functional Materials Science 2016
Trends in Functional Materials: From Fundamental to Applications
October 19-20, 2016, Bali, Indonesia
<http://situs.opi.lipi.go.id/icfms2016/>

Important Information

- Please prepare your extended abstract in strict accordance with the camera ready format. Template of extended abstract is attached and must be submitted to **3rd.icfms2016@gmail.com** before **September 8, 2016**.
- full paper in strict accordance with the camera ready format by downloading the **TEMPLATE OF FULL PAPER** from “**Proceeding - Instructions for abstract and full paper preparation**” in conference web (<http://situs.opi.lipi.go.id/icfms2016/>). and must be submitted to **3rd.icfms2016@gmail.com** before **September 26, 2016**.
- Duration of presentation in **Oral Session** is 15 minutes including 5 minutes for discussion. The following facilities will be provided digital projector and laptops with Windows OS and Microsoft Office Power Point 2010 (we prefer presentations on CD or USB flash memory)
- Registration Fees:

Participants/Delegates	Early Bird Rate Before August 20, 2016	Normal Rate August 20, 2016 on wards
International With Paper	USD 300	USD 350
International Without Paper	USD 75	USD 75
International Extra One Paper	USD 200	USD 200
Local With Paper	IDR 2,250,000	IDR 2,500,000
Local Without Paper	IDR 1,250,000	IDR 1,250,000
Local Extra One Paper	IDR 1,000,000	IDR 1,000,000
Accompanying Person	USD 75	USD 75

Note: *) **Extra page: USD 30 (IDR 300,000) per page**

***) **USD=United State Dollar, IDR: Indonesian Rupiah**

Payment Entitlements

- Participants/delegates are charged based on their institution/affiliation not nationality of first author.
- Cancellations are not allowed, and return of payment is not possible.
- Extra one paper is only applicable for the same first author.



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- The Registration Fee should be excluded the transfer fee and bank charges. Bank transfer fee/charge should be paid by the participants.
- Presenters who do not pay in full by **15 September 2016** will not be included in the schedule and their abstract will not be printed in the Program and Abstract Book.
- Registration fee includes seminar materials, banquet, lunch, morning and afternoon teas, attending all technical sessions and publication in IOP Conference Series: Materials Science and Engineering (MSE).
- At least one author for each accepted full paper must register.

Method of Payment

Payment can be made by Bank Transfer to the following bank account.

- Account Name : **Lusi Safriani**
- Account Number : **0022950297**
- Swift code : **BNINIDJA**
- Bank Name : **BNI UNPAD BANDUNG**

Please send a confirmation of payment (copy proof of payment) to

lusi.safriani@phys.unpad.ac.id

Confirmation Letter of ICFMS 2016

Dari: ICFMS Bali (3rd.icfms2016@gmail.com)

Kepada: setianto@phys.unpad.ac.id; shyendee95@gmail.com; susilawatihambali@yahoo.co.id;
t.susilawati@phys.unpad.ac.id; widyaiswari_utami@yahoo.com; valentinus.paramarta@gmail.com;
vika.marcelina@gmail.com; viktor.dezhin@mail.ru; winamovic@yahoo.com; y.yuliah@phys.unpad.ac.id;
yogi.kristiantogl@gmail.com; yoyok@physics.its.ac.id; laks102@yahoo.com; wdwipratiwi@yahoo.com

Tanggal: Sabtu, 17 September 2016 23.23 WITA

Dear participant,

We are now arranging the program for our conference. All participant will be as contributed speakers in oral session.

We would like to confirm about your presence on ICFMS 2016. Please fill confirmation letter for presence and payment fee and send it back to 3rd.icfms2016@gmail.com before **September 23, 2016**.

Participant who do not confirm about presence and payment fee by **September 23, 2016** will not be included in the schedule and their abstract will not be printed in the Program and Abstract Book.

Best regards,

Lusi Safriani
OC ICFMS 2016

Review IOP-ICFMS 2016

Dari: ICFMS Bali (3rd.icfms2016@gmail.com)

Kepada: susilawatihambali@yahoo.co.id; arisdoyan@yahoo.co.id

Tanggal: Selasa, 3 Januari 2017 19.32 WITA

Dear Dr. Susilawati,

Attached file is the result of Peer Review of your paper presented in 3rd ICFMS 2016.
The paper will be published in IOP Conf. Series: Materials Science and Engineering (MSE)
Please revise your manuscript following reviewer's comment and submit your revise version before **January 13, 2017**.

Thank you for your cooperation.
Best Regard,
Editor-Proceeding of 3rd ICFMS 2016



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FORM Peer Review

Article from International Conference on Functional Materials Science 2016

Title : **Synthesis And Characterization Materials M-Hexaferrite Doping Ion Co-Mn Nano Particle**
 Authors : **Susilawati, A. Doyan and Sahlam**

Key Point	Criteria	Yes	No
Technical criteria	1. Scientific merit: notably scientific rigour, accuracy and correctness.	√	√
	2. Clarity of expression; communication of ideas; readability and discussion of concepts.		√
	Sufficient discussion of the context of the work, and suitable referencing		√
Quality criteria	1. Originality: is the work relevant and novel?	√	√
	2. Motivation: does the problem considered have a sound motivation? All papers should clearly demonstrate the scientific interest of the results.		√
	3. Repetition: have significant parts of the manuscript already been published?	√	√
	4. Length: is the content of the work of sufficient scientific interest to justify its length?		√
Presentation criteria	1. Title: is it adequate and appropriate for the content of the article?		√
	2. Abstract: does it contain the essential information of the article? Is it complete? Is it suitable for inclusion by itself in an abstracting service?		√
	3. Diagrams, figures, tables and captions: Are they essential and clear?		√
	4. Text and mathematics: are they brief but still clear? If you recommend shortening, please suggest what should be omitted.		√
	5. Conclusion: does the paper contain a carefully written conclusion, summarizing what has been learned and why it is interesting and useful?		√
Comments: Since almost all parts of manuscript are not well written, it is hard to follow the manuscript. The first step is the manuscript should be rewrite by improve the language <ul style="list-style-type: none"> • The title should be changed an included 'Barium M-hexaferrite', not only material M-hexaferrite'. • The abstract is not only contain essential information • The experimental step should be clear and need to be improved • FTIR, XRD data should be redraw and resize to make them clear and better if all graphs are drawn using a similar template 			

Review IOP

Dari: ICFMS Bali (3rd.icfms2016@gmail.com)

Kepada: susilawatihambali@yahoo.co.id; arisdoyan@yahoo.co.id

Tanggal: Senin, 27 Februari 2017 20.58 WITA

Yth. Ibu Susi,

Berikut saya attachkan paper yang sudah di edit oleh editor.

Makalah ibu masih terlalu panjang untuk batas yang telah ditentukan yaitu 4 halaman.

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terimakasih sebelumnya.

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salam

Editor



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Submitted to IOP Conf. Proc. Series: MSE

Dari: ICFMS Bali (3rd.icfms2016@gmail.com)

Kepada: yamamuro@issp.u-tokyo.ac.jp; nozue@phys.sci.osaka-u.ac.jp; ardiansyah.taufik@ui.ac.id; rosari.saleh@ui.ac.id; arisdoyan@yahoo.co.id; dwi_nj92@yahoo.com; hsosiat@gmail.com; ananda.nugraheni@yahoo.com; deeahayudaratika@gmail.com; widyaiswari_utami@yahoo.com; malikabits@physics.its.ac.id; risdiana@phys.unpad.ac.id; zainuri@physics.its.ac.id; susilawatihambali@yahoo.co.id; putradewangga99@gmail.com; nastiti.elwindari41@ui.ac.id; zaenalw18@gmail.com; kurniasari.luluk@yahoo.com; wdwipratiwi@yahoo.com; siti.lara@sci.ui.ac.id; prantasi@gmail.com; chafiefah@gmail.com; mindrapratiwi@gmail.com; djokohp71@yahoo.co.id; shifa.nabila17@gmail.com; hsaryanto@gmail.com; rana.hafizhah@ui.ac.id; valentinus.paramarta@gmail.com; ys_maniar@yahoo.com; sahrul.hidayat@phys.unpad.ac.id; christinmartha45@gmail.com; ayi.bahtiar@phys.unpad.ac.id; yoyok@physics.its.ac.id; rupiasih@unud.ac.id; iman.rahayu@unpad.ac.id; sitinikmatin@yahoo.co.id; donanta.dhaneswara@ui.ac.id; dita@nano.phys.sci.osaka-u.ac.jp; t.saragi@phys.unpad.ac.id; fitriyuliasari712@gmail.com; vika.marcelina@gmail.com; a.aprilia@phys.unpad.ac.id; nugroho@fi.itb.ac.id; a.andri@phys.unpad.ac.id; lusi.safriani@phys.unpad.ac.id; fitrilawati@phys.unpad.ac.id; desynicola@gmail.com

Tanggal: Rabu, 1 Maret 2017 16.50 WITA

Dear All Participants of 3rd ICFMS2016 Bali,

We have already submitted 51 papers (selected and reviewed papers) presented at 3rd ICFMS 2016 held in Bali Indonesia October 19-20, 2016 via FTP (to <ftp.iop.org>).

Now, we are waiting respond and review process from IOP publisher.

We hope all submitted papers will be accepted by IOP's reviewers and published at IOP Conf. Proc. Series: Materials Science and Engineering.

With best regards,

OC 3rd ICFMS2016

IOP Conference Proceedings

Dari: ICFMS Bali (3rd.icfms2016@gmail.com)

Kepada: t.saragi@phys.unpad.ac.id; risdiana@phys.unpad.ac.id; yamamuro@issp.u-tokyo.ac.jp; nozue@phys.sci.osaka-u.ac.jp; rosari.saleh@gmail.com; arisdoyan@yahoo.co.id; dwi_nj92@yahoo.com; hsosiat@gmail.com; ananda.nugraheni@yahoo.com; zainuri@physics.its.ac.id; deeahayudaratika@gmail.com; bkuru@fisika.ui.ac.id; darminto@physics.its.ac.id; yogi.kristiantogl@gmail.com; lusi.safriani@phys.unpad.ac.id; susilawatihambali@yahoo.co.id; fitrilawati@phys.unpad.ac.id; putradewangga99@gmail.com; nastiti.elwindari41@ui.ac.id; zaenalw18@gmail.com; kurnia.physics@yahoo.com; wdwipratiwi@yahoo.com; laraollivia@gmail.com; prantasi@gmail.com; mindrapratiwi@yahoo.com; djokohp71@yahoo.co.id; shifa.nabila17@gmail.com; hsaryanto@gmail.com; rana.hafizhah4@gmail.com; valentinus.paramarta@gmail.com; ys_maniar@yahoo.com; vika.marcelina@gmail.com; sahrul.hidayat@phys.unpad.ac.id; christinmartha45@gmail.com; ayi.bahtiar@phys.unpad.ac.id; yoyok@physics.its.ac.id; rupiasih@gmail.com; iman.rahayu@unpad.ac.id; antoniaprasetyo@gmail.com; sitinikmatin@yahoo.co.id; a.andri@phys.unpad.ac.id; donanta.dhaneswara@ui.ac.id; a.aprilia@phys.unpad.ac.id; dita@nano.phys.sci.osaka-u.ac.jp; chafiefah@gmail.com; fitriyuliasari712@gmail.com; nugroho@fi.itb.ac.id

Tanggal: Senin, 22 Mei 2017 10.10 WITA

Dear All 3rd-ICFMS2016,

We hereby inform that the IOP Conference Proceedings: Materials Science and Engineering have been published online by Mei 20, 2017.

All participants can download the files at <http://iopscience.iop.org/issue/1757-899X/196/1>

With best regards,

Togar SARAGI
OC 3rd-ICFMS 2016