

Judul Artikel : Characterization of Barium M-Hexaferrite with Doping Zn and Mn for Microwaves Absorbent

Penulis : Susilawati, Aris Doyan, Muhammad Taufik, Wahyudi, Eryn Ryantin Gunawan, Annisa Fitriani, Nazarudin

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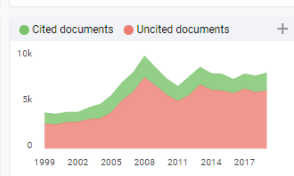
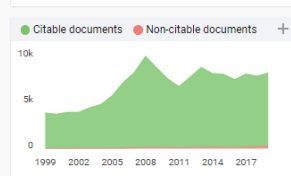
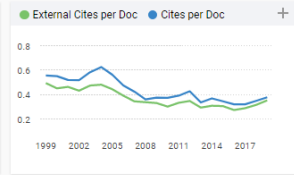
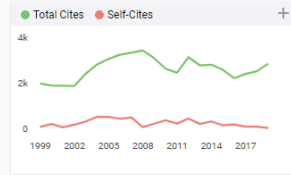
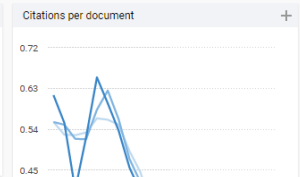
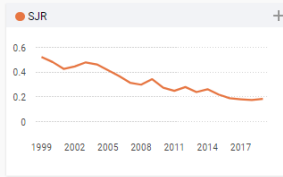
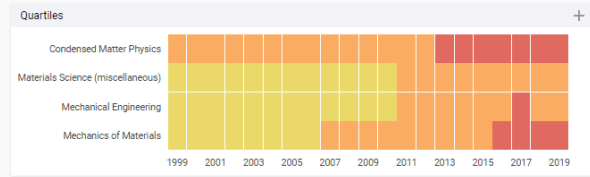
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Characterization of Barium M-Hexaferrite with Doping Zn and Mn for Microwaves Absorbent

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Abstract:

The research was conducted to examine the content of Fe and other metal in natural sand of beach Ampenan, Mataram, Indonesia which is expected to be used as microwave absorbent material. Characterizations of the electrical and magnetic properties Barium M-Hexaferrite (BaM) with Zn-Mn doping ($\text{BaFe}_{12-2x}\text{Zn}_x\text{Mn}_x\text{O}_{19}$) are biosynthesized. Research carried out among others tested the metal content of Fe and other metals, synthesize $\text{BaFe}_{12-2x}\text{Zn}_x\text{Mn}_x\text{O}_{19}$. The samples were characterized using Vibrating Sample Magnetometer (VSM) and Network Vector Analyzer (VNA) for the test properties of electricity and magnetism, as well as the absorption of microwaves. The results from the AAS (Atomic Absorption Spectroscopy) testing showed that each gram of magnetic minerals in the natural sand containing 16.27 mg Fe, which states that the majority of metal components content is 69.80% Fe metal with the Magnetite and Hematite phases. The result from VSM showed that the coercivity value decreased when doping ion concentration and calcination temperature increased (0.16 Tesla at 600°C for $x = 0.0$ and 0.09 Tesla at 800°C for $x = 1.0$). Value of magnetic saturation and the magnetic remanence decreased with increasing ion concentration ($M_s = 4.94 \text{ emu/g}$ at $x = 0.0$ decreased to 0.31 emu/g at $x = 1.0$) and $M_r = 3.43 \text{ emu/g}$ for $x = 0.0$ decreased to 0.06 emu/g at $x = 1.0$. These indicates that the sample has been soft magnetic. The result from VNA showed that the electrical conductivity values measured in the range 8.0-15.0 GHz indicate that the sample is a semiconductor ($1.62 \times 10^{-2} \text{ S/cm}$). The result from VNA showed that the microwave absorption properties increased at higher concentration of doping ions and

Characterization of Barium M-Hexaferrite, doping, microwave, absorbent.

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Characterization of Barium M-Hexaferrite with Doping Zn and Mn for Microwaves Absorbent

Susilawati^{1,a*}, Aris Doyan^{1,b}, Muhammad Taufik^{1,c}, Wahyudi^{1,d}
and Eryn Ryantin Gunawan^{2,e}, Annisa Fitriani^{3,f}, Nazarudin^{4,g}

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Keyword: Absorbent, Barium M-Hexaferrite, Characterization, Doping, Microwave.

Abstract. The research was conducted to examine the content of Fe and other metal in natural sand of beach Ampenan, Mataram, Indonesia which is expected to be used as microwave absorbent material. Characterizations of the electrical and magnetic properties Barium M-Hexaferrite (BaM) with Zn-Mn doping ($\text{BaFe}_{12-2x}\text{Zn}_x\text{Mn}_x\text{O}_{19}$) are biosynthesized. The research carried out among others tested the metal content of Fe and other metals, synthesize $\text{BaFe}_{12-2x}\text{Zn}_x\text{Mn}_x\text{O}_{19}$. The samples were characterized using Vibrating Sample Magnetometer (VSM) and Network Vector Analyzer (VNA) for the test properties of electricity and magnetism, as well as the absorption of microwaves. The results from the AAS (Atomic Absorption Spectroscopy) testing showed that each gram of magnetic minerals in the natural sand containing 16.27 mg Fe, which states that the majority of metal components content is 69.80% Fe metal with the Magnetite and Hematite phases. The result from VSM showed that the coercivity value decreased when doping ion concentration and calcination temperature increased (0.16 Tesla at 600°C for $x = 0.0$ and 0.09 Tesla at 800°C for $x = 1.0$). The value of magnetic saturation and the magnetic remanence decreased with increasing ion concentration ($M_s = 4.94$ emu/g at $x = 0.0$ decreased to 0.31 emu/g at $x = 1.0$) and $M_r = 3.43$ emu/g for $x = 0.0$ decreased to 0.06 emu/g at $x = 1.0$. These indicates that the sample has been soft magnetic. The result from VNA showed that the electrical conductivity values measured in the range 8.0-15.0 GHz indicate that the sample is a semiconductor (1.62×10^{-2} S/cm). The result from VNA showed that the microwave absorption properties increased at higher concentration of doping ions and the calcination temperature would increase the value of Reflection Loss (RL). Maximum RL value of the sample is -14.37 dB at 15 GHz and the absorption coefficient of 96.34%. The $\text{BaFe}_{10.8}\text{Zn}_{0.6}\text{Mn}_{0.6}\text{O}_{19}$ sample can be applied as a microwave absorbent material on X-band to Ku-band frequency.

Introduction

Natural iron sand is an abundant natural material available in Indonesia. The distribution is very wide, spread along the banks of the Indian Ocean, from the province of Aceh to the island of Lombok [1], such as the West Coast of Sumatra, the South Coast of Java, Kalimantan, Sulawesi, Nusa Tenggara, and the Maluku Islands, but so far the related exploration activities have not been done thoroughly and systematically [2]. Lombok Island with a long coastline of 2.333 km, of course, has natural iron sand potential to be developed. The beach sand of Ampenan, Mataram City, is very black, so it is suspected of having high natural iron sand content, but the utilization of natural iron sand is currently less than optimal because it is only used as a mixture of cement, in fact, iron sand contains iron oxide which has the potential to be processed into various products with high selling value [3].

Reviewer's Report

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Paper Information

Manuscript Title	Characterization of Barium M-Hexaferrite with Doping Zn and Mn for Microwaves Absorbent
Manuscript Authors	Susilawati ^{1, a*} , ArisDoyan ^{2, b*} , Muhammad Taufik ³ , Wahyudi ⁴ and Eryn Ryantin Gunawan ⁵ , Annisa Fitriani ⁶ , Nazarudin ⁷

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We look forward to meeting you in Indonesia.

Best regards,

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Please contact us if you need assistance.

See you soon at Sanur Bali.

Sincerely yours,

Lusi Safriani
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Physics Department
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Congratulation!

On behalf of 4th International Conference on Functional Materials Science (4th ICFMS 2018), we announce that your abstract is **ACCEPTED** to be presented as **ORAL PRESENTATION**. The 4th ICFMS 2018 will be held in Prama Sanur Beach Bali Hotel on November 13-15, 2018.

Attached file is an invitation letter, acceptance letter including some important information for our conference of the 4th ICFMS 2018.

We are now preparing Book of Abstract and Program Schedule. For that purpose, we would like to ensure that you have already submitted your extended abstract to our website reg.fms-net.org.

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4. **Information about the type of oral presentation will be announced on November 2, 2018.**

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INVITATION LETTER

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We are pleased to confirm that your paper entitled: **Characterization of Barium M-Hexaferrite with Doping Zn and Mn for Microwaves Absorbent**, has been accepted to be presented in ICFMS 2018.

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

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We are looking forward to seeing you in Bali.

Best Regard,

Prof. Darminto

Chairman of Organizing Committee

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On behalf of the organizing committee of 4th International Conference on Functional Materials Science 2018 (ICFMS 2018), we would like to invite you to participate in ICFMS 2018, to be held in Bali, Indonesia on November 13-15, 2018.

We are pleased to confirm that your paper entitled: **Characterization of Barium M-Hexaferrite with Doping Zn and Mn for Microwaves Absorbent**, 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,

Prof. Darminto

Chairman of Organizing Committee

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4th International Conference on Functional Materials Science 2018

Trends in Functional Materials: From Fundamental to Applications

November 13-15, 2018 – Bali, Indonesia

<https://fms-net.org/icfms-2018/>

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- Participants/delegates are charged based on their institution/affiliation not nationality of first author.
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Susilawati Ph.D <susilawatihambali@unram.ac.id>

Decision of Your Abstract for Oral Presentation in 4th ICFMS 2018 in conjunction with 2nd RIKEN Symposium

2 pesan

4th.ICFMS 2018 <4th.icfms2018@gmail.com>

4 November 2018 14.16

Kepada: susilawatihambali@unram.ac.id

Dear Participant(s)

We would like to inform you that your abstract entitled "Characterization of Barium M-Hexaferrite with Doping Zn and Mn for Microwaves Absorbent" has been decided to be presented in **SHORT ORAL PRESENTATION**.

Please prepare your presentation slides in **2 minutes**. In addition, participant(s) also have to **prepare a complete standing X banner** for more discussion in Poster Session. The size of a standing X banner is 60 cm in width and 160 cm in height. The banner must be equipped with the banner stand. Please bring this standing X banner at the conference.

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

See you soon in Sanur Bali.

Sincerely yours,

Organizing Committee
The 4th ICFMS 2018

Susilawati Ph.D <susilawatihambali@unram.ac.id>

5 November 2018 08.51

Kepada: 4th.icfms2018@gmail.com

[Kutipan teks disembunyikan]



Susilawati Ph.D <susilawatihambali@unram.ac.id>

Manuscript of ICFMS 2018

1 pesan

International Conference on Functiona... <9783035714968@scientific.net>
Balas Ke: "International Conference on Functiona..." <9783035714968@scientific.net>
Kepada: Susilawati Susilawati <susilawatihambali@unram.ac.id>

26 November 2018 15.51

Dear Dr. Susilawati Susilawati,

We delivered our special thanks for participating in International Conference on Functional Materials Science (ICFMS) 2018 at Bali November 13-15, 2018.

The next step is preparing your manuscript presented in ICFMS 2018 to be published in Key Engineering Material. For submitting your manuscript, please follow the steps below:

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3. Please note that manuscript submission closes on December 5, 2018.

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Best regards,
Risiana



Susilawati Ph.D <susilawatihambali@unram.ac.id>

Results of Reviewing process

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International Conference on Functiona... <9783035714968@scientific.net>

28 Januari 2019 10.55

Balas Ke: "International Conference on Functiona..." <9783035714968@scientific.net>

Kepada: Susilawati Susilawati <susilawatihambali@unram.ac.id>

Dear all Authors,

On behalf of editor of Key Engineering Materials (KEM) for manuscript from ICFMS 2018, we delivered our special thanks for submitting your manuscript to publish in KEM. We already finished reviewing process. Now, we will move to the next step to revise the manuscript by authors. Please revise your manuscript until February 13, 2019.

Thank you for your cooperation.

Editor of KEM for Manuscript from ICFMS 2018.



Susilawati Ph.D <susilawatihambali@unram.ac.id>

Paper ICFMS 2018 – Check List

1 pesan

4th.ICFMS 2018 <4th.icfms2018@gmail.com>

27 Maret 2019 10.46

Kepada: susilawatihambali@unram.ac.id, aris_doyan@unram.ac.id

Yth. Authors,

Kami telah melakukan pengecekan isi dari paper author dan tim yang dipresentasikan pada ICFMS 2018. Untuk selanjutnya kami mohon author untuk melakukan pengecekan ulang format penulisan dan isi paper tersebut. Kami sertakan paper author yang telah kami check dan sebagai panduan kami sertakan daftar check list yang harus diisi agar paper authpr dapat sesuai dengan format yang disediakan oleh KEM.

- 1 Paper yang telah di cek isi dan disesuaikan formatnya dengan check list tersebut (dalam bentuk word dan pdf), **mohon untuk diupload kembali ke laman web author di scientific.net.**
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Author dapat melakukan upload paper dengan format file word dan pdf di laman author di scientific.net sampai dengan tanggal **10 April 2019**.

Terimakasih atas kerjasamanya,
Salam
Editor

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Susilawati Ph.D <susilawatihambali@unram.ac.id>

Paper ICFMS 2018-Check list

6 pesan

Risdiana <risdiana@phys.unpad.ac.id>

26 Maret 2019 11.56

Kepada: aris_doyan@unram.ac.id, susilawatihambali@unram.ac.id, ahmad_hardjono@yahoo.com, Syifasarahzahra138@gmail.com, taufik@unram.ac.id

Yth. Pak Aris Doyan dan Tim,

Kami telah melakukan pengecekan isi dari paper author dan tim yang dipresentasikan pada ICFMS 2018. Untuk selanjutnya kami mohon author untuk melakukan pengecekan ulang format penulisan dan isi paper tersebut. Kami sertakan paper author yang telah kami check dan sebagai panduan kami sertakan daftar check list yang harus diisi agar paper itu dapat sesuai dengan format yang disediakan oleh KEM.

1. Paper yang telah di cek isi dan disesuaikan formatnya dengan check list tersebut (dalam bentuk word dan pdf), **mohon untuk diupload kembali ke laman web author di scientific.net.**
2. Mohon untuk mengirimkan kembali daftar check list yang telah diisi ke alamat email : risdiana@phys.unpad.ac.id

Author dapat melakukan upload paper dengan format file word dan pdf di laman author di scientific.net sampai dengan tanggal **10 April 2019**.


Terimakasih atas kerjasamanya,

Salam

Editor

=====
 Prof. Dr. Risdiana, M. Eng.
 Department of Physics
 Faculty of Mathematics and Natural Science
 Universitas Padjadjaran
 Jl. Raya Bandung Sumedang km. 21
 Jatinangor- Sumedang West Jawa 45363 Indonesia
 E-mail: risdiana@phys.unpad.ac.id
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Susilawati Ph.D <susilawatihambali@unram.ac.id>

26 Maret 2019 11.59

Kepada: Risdiana <risdiana@phys.unpad.ac.id>

Assalamualaikum, maaf pak Prof saya mau tanya bagaiman dengan paper an Susilawati, bagaimana statusnya, mohon maaf, terimakasih

[Kutipan teks disembunyikan]

Risdiana <risdiana@phys.unpad.ac.id>

26 Maret 2019 12.03

Kepada: "Susilawati Ph.D" <susilawatihambali@unram.ac.id>

Waalaikum salam,

sedang progress di check bu.
insya allah akan kita kirimkan segera hasil pengecekan dari reviewernya.
salam

=====
Prof. Dr. Risdiana, M. Eng.
Department of Physics
Faculty of Mathematics and Natural Science
Universitas Padjadjaran
Jl. Raya Bandung Sumedang km. 21
Jatinangor- Sumedang West Jawa 45363 Indonesia
E-mail: risdiana@phys.unpad.ac.id
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[Kutipan teks disembunyikan]

Susilawati Ph.D <susilawatihambali@unram.ac.id> 26 Maret 2019 12.06
Kepada: Risdiana <risdiana@phys.unpad.ac.id>

Terimakasih Pak Prof
[Kutipan teks disembunyikan]

Susilawati Ph.D <susilawatihambali@unram.ac.id> 5 April 2019 20.21
Kepada: Risdiana <risdiana@phys.unpad.ac.id>

Assalamualaikum Prof sudah saya kirimkan file perbaikan artikel saya, apakah sudah diterima, terimakasih
[Kutipan teks disembunyikan]

Risdiana <risdiana@phys.unpad.ac.id> 5 April 2019 21.28
Kepada: "Susilawati Ph.D" <susilawatihambali@unram.ac.id>

Walaikum salam,
Sudah diterima Bu..
Masih ada yang salah posisi keyword. Harusnya di atas abstract Bu bukan di bawah abstract seperti kebanyakan paper
Salam

[Kutipan teks disembunyikan]



Susilawati Ph.D <susilawatihambali@unram.ac.id>

Information about Publication-ICFMS 2018

1 pesan

Risidiana <risidiana@phys.unpad.ac.id>

27 Juni 2019 17.48

Kepada: adam@sci.ui.ac.id, affandi_fk@yahoo.co.id, agungi@gmail.com, sholih@physics.its.ac.id, ahmad.taufiq.fmipa@um.ac.id, Andri Abdurrochman <a.andri@phys.unpad.ac.id>, Aris Doyan <aris_doyan@unram.ac.id>, asnaeni_ansar@yahoo.co.id, Atiek Noviyanti <atiek.noviyanti@unpad.ac.id>, Ayi Bahtiar <ayi.bahtiar@phys.unpad.ac.id>, budhip67@gmail.com, zaki icha <bkuru07@gmail.com>, Budi Adiperdana <budi.adiperdana@phys.unpad.ac.id>, budi.eka@ui.ac.id, kresnamurti321@gmail.com, dadan.hamdani16@mhs.physics.its.ac.id, desynicola@gmail.com, diajengindraswaryp@gmail.com, Dicky Rezky Munazat <dicky.rezky@sci.ui.ac.id>, dyah.hikmawati@yahoo.co.id, eka_suarso@yahoo.com, Eka Lutfi Septiani <eka.septiani@uisi.ac.id>, erfisika92@gmail.com, fandi.prasetya@uisi.ac.id, Fiqhri Heda Murdaka <fiqhrihedamurdaka@gmail.com>, fitriyuliasari712@gmail.com, Annisa Aprilia <a.aprilia@phys.unpad.ac.id>, gabriela.aristia@fu-berlin.de, gatut yudoyono <gyudoyono22@gmail.com>, khambali67@gmail.com, Iman Rahayu <iman.rahayu@unpad.ac.id>, irwan.ramli@riken.jp, julia.angel.ugm09@gmail.com, dita.puspita.sari.t1@shibaura-it.ac.jp, sumadaketut@gmail.com, LINDA SILVIA <lindaa.silviaa@gmail.com>, Lusi Safriani <lusi.safriani@phys.unpad.ac.id>, lusia silfia <lusia_silfia@yahoo.co.id>, malikabits@physics.its.ac.id, Mochamad Zainuri <mochamadzainuri1964@gmail.com>, momangyusuf@gmail.com, muh darwis umar <darwis_umar@ugm.ac.id>, redomhammad.ramadhan@riken.jp, Norman Sjakir <n.sjakir@phys.unpad.ac.id>, nowo Riveli <nowo@phys.unpad.ac.id>, nurhasmi909@gmail.com, nurrismapuspitasari@gmail.com, Harison Rozak <harisonrozak7@gmail.com>, Okky Putri Prastuti <okky.prastuti@uisi.ac.id>, Prantasi Harmi Tjahjanti Tasi <prantasi@gmail.com>, dosen01545@unpam.ac.id, Retno Asih <retnoasih166@gmail.com>, Riesma Tasomara <r.tasomara@ymail.com>, SAHRUL HIDAYAT <sahrul@unpad.ac.id>, siswanto siswanto <siswanto@fst.unair.ac.id>, fatimahsamsul02@gmail.com, Siti Nur Affi Ahmad <siti.nur.affi.ahmad@gmail.com>, s.setiadji@uinsgd.ac.id, prayogi.sp@gmail.com, sriemuljani.tk@upnjatim.ac.id, suciwinarsih@riken.jp, suminar_pratapa@physics.its.ac.id, Sunaryono Fmipa <sunaryono.fmipa@um.ac.id>, "Susilawati Ph.D" <susilawatihambali@unram.ac.id>, tetti_manik@unlam.ac.id, Togar Saragi <t.saragi@phys.unpad.ac.id>, triwi@physics.its.ac.id, uminuraini36@gmail.com, widyaiswari_utami@yahoo.com, vera khoirunisa <vevekho@gmail.com>, Fadhilah Zaharim <wannurfadhilahzaharim@gmail.com>, Fahmi Astuti <fahmistt09@gmail.com>, "Moch. Yan Pandu Akbar" <yan.fi.sitb@gmail.com>, yati maryati <yatimaryati26@gmail.com>, YOGA MALIK <yoga14001@mail.unpad.ac.id>, yohanes.gunanto@uph.edu, yoyok@physics.its.ac.id, Yuli Andriani <yuli.andriani@unpad.ac.id>, yuliakiranalahsmin012@gmail.com, yuni.kurniati@uisi.ac.id, mohammad zaenal arifin <zaenalw18@gmail.com>, agun001@lipi.go.id, "M. Aziz Majidi, Ph.D." <aziz.majidi@sci.ui.ac.id>, ramlan@unsri.ac.id, muljadi2002@yahoo.com, suprapu@gmail.com, Budhy Kurniawan <bkuru@fisika.ui.ac.id>, Darminto <darminto@physics.its.ac.id>, 理研ポストマン <nabedon@riken.jp>

Dear all,

The committee of the 4th International Conference on Functional Materials Science (ICFMS 2018) delivered our special thanks for participating in our conference and for submitting your manuscript for publication.

We want to inform you that all papers were selected, reviewed and checked by editors, reviewers and scientific teams from the publisher (Trans.Tech Publisher).

In all parts, we try to get a high-quality manuscript. The scientific team from TTP also decided on the quality and scope of each manuscript. So, we want to inform you that after accepted by the editor, the scientific teams still had some comments and rejecting some papers. We intensively communicated with some authors and also with scientific teams of TTP.

Yesterday, we got information from TTP that they already decided to accept 82 selected papers to publish in their periodical journal.

The publisher decided to publish all selected papers in **Material Science Forum (MSF)** rather than publish it in **Key Engineering Materials (KEM)**. After checking the quality of our manuscripts, the publisher believed that MSF is better than KEM.

Both MSF and KEM are Q3 and indexing by some major indexing machines such as Scopus and ISI (Web of Science). Some advantages of MSF compared with KEM are listed below:

1. Publication Type--> **KEM: Book series** and **MSF: Journals.**
2. H index--> **KEM: 48, MSF:68**

After discussing with all editors, We agreed with the decision of a publisher to publish our manuscript in MSF. We really hope The publisher decision and our decision can give some advantages to all authors.

30/1/2021

Email Universitas Mataram - Information about Publication-ICFMS 2018

Best regard,
Risdi

=====
Prof. Dr. Risdiana, M. Eng.
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Faculty of Mathematics and Natural Science
Universitas Padjadjaran
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Susilawati Ph.D <susilawatihambali@unram.ac.id>

Scientific.Net - Volume publication Materials Science Forum Vol. 966

1 pesan

Trans Tech Publications <authors@scientific.net>
Kepada: Susilawati <susilawatihambali@unram.ac.id>

6 Agustus 2019 17.28

**Materials Science & Engineering**
Online periodicals

Dear Susilawati,

We would like to thank you all: participants, authors and reviewers for the great work you did to help produce this new book.

[Functional Properties of Modern Materials II](#)

<https://www.scientific.net/MSF.966>

Please forward this mail to your colleagues who might be interested in this field of research.

Thank you very much for your time and support.

Kind regards,

Scientific Team

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Functional Properties of Modern Materials II

30/1/2021

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This volume contains selected and peer-reviewed papers presented in the 4th International Conference on Functional Materials Science 2018 (ICFMS 2018, Bali, Indonesia, November 13-15, 2018). The scope of this volume is advanced and various functional materials, including functional ceramics, polymers and composites, materials for energy storage and conversion, bio- and food technologies...

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