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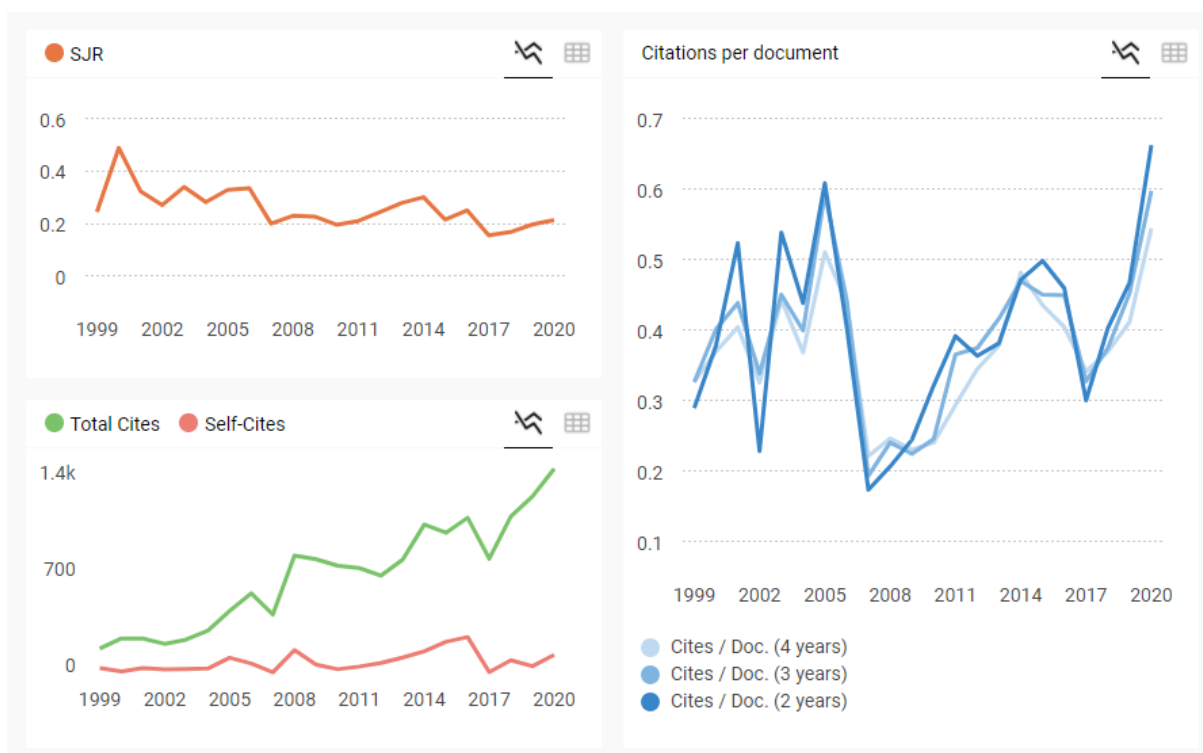
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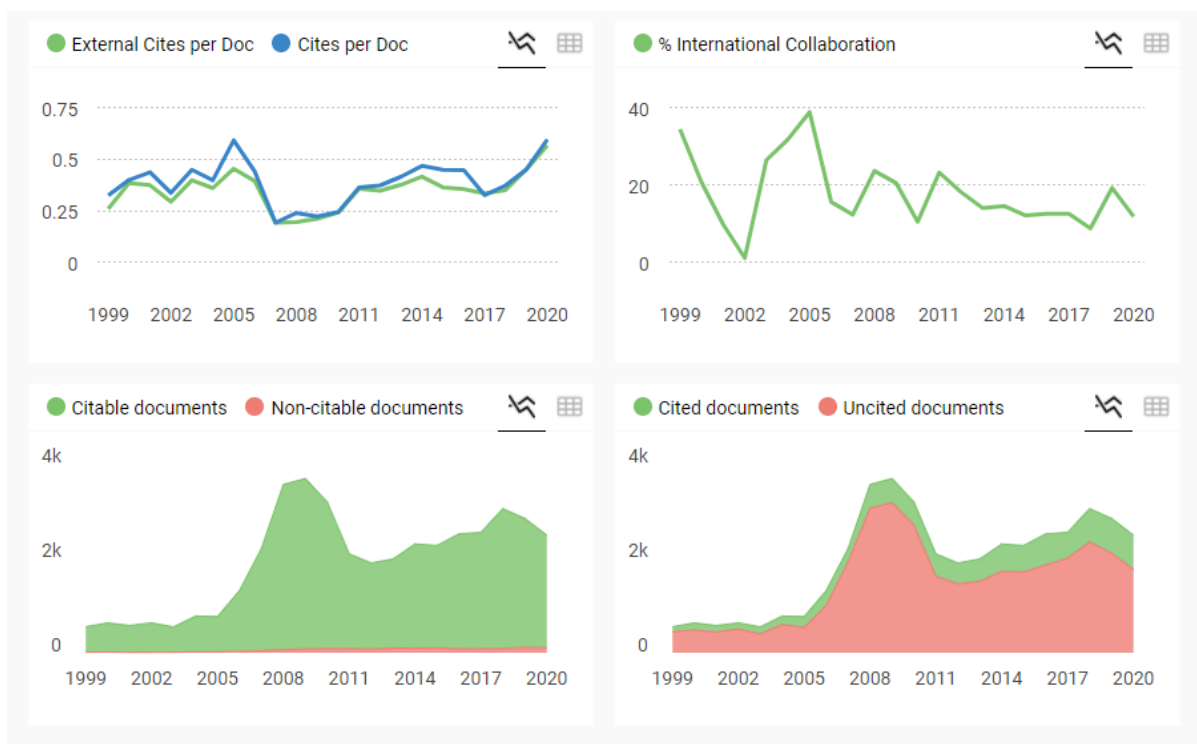
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## The Optical Properties of Thin Films Tin Oxide with Triple Doping (Aluminum, Indium, and Fluorine) for Electronic Device

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**Abstract:**  
Tin oxide (SnO<sub>2</sub>) thin film is a form of modification of semiconductor material in nanosize. The thin film study aims to analyze the effect of triple doping (Aluminum, Indium, and Fluorine) on the optical properties of SnO<sub>2</sub>: (Al + In + F) thin films. Aluminum, Indium, and Fluorine as doping SnO<sub>2</sub> with a mass percentage of 0, 5, 10, 15, 20, and 25% of the total thin-film material. The addition of Al, In, and F doping causes the thin film to change optical properties, namely the transmittance and absorbance values changing. The transmittance value is 67.50, 73.00, 82.30, 87.30, 94.6, and 99.80 which is at a wavelength of 350 nm for the lowest to the highest doping percentage, respectively. The absorbance value increased with increasing doping percentage at 300 nm wavelength of 0.52, 0.76, 0.97, 1.05, 1.23, and 1.29 for 0, 5, 10, 15, 20, and 25% doping percentages, respectively. The absorbance value is then used to find the gap energy of the SnO<sub>2</sub>: (Al + In + F) thin film of the lowest doping percentage to the highest level i.e. 3.60, 3.55, 3.51, 3.47, 3.42, and 3.41 eV. Thin-film activation energy also decreased with values of 2.27, 2.04, 1.85, 1.78, 1.72, and 1.51 eV, respectively for an increasing percentage of doping. The thin-film SnO<sub>2</sub>: (Al + In + F) which experiences a gap energy reduction and

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**Keywords:** Aluminum, Fluorine, Indium, Optical Properties of Thin Films, Tin Oxide.

**Abstract.** Tin oxide (SnO<sub>2</sub>) thin film is a form of modification of semiconductor material in nano size. The thin film study aims to analyze the effect of triple doping (Aluminum, Indium, and Fluorine) on the optical properties of SnO<sub>2</sub>: (Al + In + F) thin films. Aluminum, Indium, and Fluorine as doping SnO<sub>2</sub> with a mass percentage of 0, 5, 10, 15, 20, and 25% of the total thin-film material. The addition of Al, In, and F doping causes the thin film to change optical properties, namely the transmittance and absorbance values changing. The transmittance value is 67.50, 73.00, 82.30, 87.30, 94.6, and 99.80 which is at a wavelength of 350 nm for the lowest to the highest doping percentage, respectively. The absorbance value increased with increasing doping percentage at 300 nm wavelength of 0.52, 0.76, 0.97, 1.05, 1.23, and 1.29 for 0, 5, 10, 15, 20, and 25% doping percentages, respectively. The absorbance value is then used to find the energy gap of the SnO<sub>2</sub>: (Al + In + F) thin film of the lowest doping percentage to the highest level i.e. 3.60, 3.55, 3.51, 3.47, 3.42, and 3.41 eV. Thin-film activation energy also decreased with values of 2.27, 2.04, 1.85, 1.78, 1.72, and 1.51 eV, respectively for an increasing percentage of doping. The thin-film SnO<sub>2</sub>: (Al + In + F) which experiences a energy gap reduction and activation energy makes the thin film more conductive because electron mobility from the valence band to the conduction band requires less energy and faster electron movement as a result of the addition of doping.

### Introduction

Industry 4.0 is characterized by an increase in a variety of technologies that are the result of the hard work of researchers. It is undeniable that these developments require a variety of supporting

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### Introduction

Industry 4.0 is characterized by an increase in a variety of technologies that are the result of the hard work of researchers. It is undeniable that these developments require a variety of supporting materials, one of which is a semiconductor material. The semiconductor material is a material that has a unique characteristic that is flexible, in one condition as a conduit and other conditions can not function as a conduit [1].

The effort made by researchers to maximize the function of semiconductor materials is to modify the shape of the material in the form of thin films. Utilization of thin layers of semiconductor materials including TCO (transparent Conducting Oxide) which is used in transparent electrodes [2], LEDs (Light emitted diode) [3], solar cells [4], LCD [5], gas sensors, [6], etc. Various types of materials used in the synthesis of thin films are aluminum, tungsten disulfide [7], titanium dioxide [8], and tin oxide [9].

The sensitivity of a thin layer is strongly influenced by the value of the energy bandgap of the thin layer. The lower the value of the energy bandgap layer, the more sensitive the material is to conduct current or as a conductor [10]. The energy band gap value of the tin oxide thin layer is still quite high at around 3.62 eV [11], so it needs to be modified by adding another atom to the material. Several other atoms were added namely, aluminum-zinc [12], Ferrum [13], fluorine [14], and indium [15]. The thin layer of tin oxide doped by aluminum has a less transparent surface, as does the addition of fluorine doping. To improve the transparent color of the tin oxide thin layer an investigation was carried out by adding aluminum, fluorine, and indium together as a transparent color enhancer.

## Experimental

This research was conducted in several stages, namely synthesis, characterization, and analysis. In the first stage, the synthesis is carried out starting from making sol-gel, preparation of glass substrate, making layers by coating the glass substrate using sol-gel solution, and finally is maturation [16]. The second step, thin layer characterization was carried out to obtain data on the optical properties of the layer using thermoscientific Uv-Vis, and the data obtained also showed morphological appearance and percentage of composition contained in the thin film obtained with SEM-EDX. The third stage, the analysis of optical properties data, the morphological appearance, and the percentage of thin-film content.

Thin-film  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  consist of pure  $\text{SnO}_2$ , 95%  $\text{SnO}_2$  doped with a mixture of 5%  $\text{Al}+\text{F}+\text{In}$  with a percentage of 33.3% each from 5% mixture,  $\text{SnO}_2$  90% doped with a mixture of 10%  $\text{Al}+\text{F}+\text{In}$  with a percentage of 33.3% each from 10% mixture, 85%  $\text{SnO}_2$  were doped with a mixture of 15%  $\text{Al}+\text{F}+\text{In}$  with a percentage of 33.3% each from 15% mixture, 80%  $\text{SnO}_2$  mixed with a mixture of 20%  $\text{Al}+\text{F}+\text{In}$  with a percentage of 33.3% each of the 20% mixture, and 75%  $\text{SnO}_2$  were doped with a mixture of 25%  $\text{Al}+\text{F}+\text{In}$  with a percentage of 33.3% each from the 25% mixture. The thin-film were synthesized using a sol-gel method that is placed on the surface of the glass and the layer smoothing process is rotated using a spin coater [17]. The synthesis was carried out with several variations of doping material, namely 0, 5, 10, 15, 20, and 25%. Thin-film material that has been attached evenly to the glass surface is then heated at a temperature of 150 °C using a furnace for 1 hour for all doping concentrations.

The optical properties of the coating are obtained from the thin Uv-Vis thermoscientific which includes the transmittance and absorbance of the thin film. The absorbance value is then used to obtain the energy band gap value [18] and thin-film activation energy [19]. The energy value of the thin layer gap is classified into two, namely direct energy bandgap and indirect energy bandgap. The amount of energy band gap is obtained from the eq. 1 [20].

$$\alpha(h\nu)hv = C(h\nu - E_g)^n \quad (1)$$

Note:  $\alpha$  is the absorbance coefficient,  $h\nu$  is the incident energy of the photon,  $C$  is a constant,  $n = 1/2$  for direct and  $n = 2$  for indirect band-gap energy [21].

Energy gap is also obtained through the graph method  $(\alpha h\nu)^n$  to the photon energy. The bandgap energy is shown by the slope of the photon energy graph concerning  $(\alpha h\nu)^n$ . While the thin-film activation energy is obtained from  $1/m$  or one per photon energy gradient graph towards  $\ln \alpha$ , where  $\alpha$  were founded from equation  $\alpha = 2.303A/d$  (note:  $A$  is absorbance,  $d$  is thickness).

## Result and Discussion

The synthesis of  $\text{SnO}_2$  thin film with three aluminum, fluorine and indium doping materials with doping variations causes the thin film to become more transparent, as doping concentrations increase. More clearly the results of the synthesis can be seen in Fig.1.

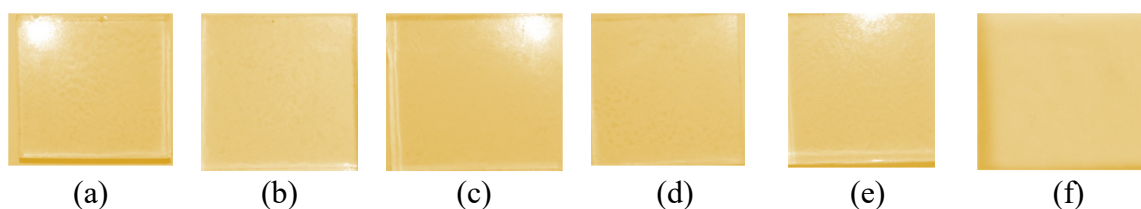


Fig. 1 Thin film  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  (a) 100: 0%, (b) 95: 5%, (c) 90: 10%, (d) 85: 15%, (e) 80: 20%, (f) 75: 25 %.

The optical properties of  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  thin film characterized by UV-Vis Spectrophotometer obtained transmittance and absorbance values as shown in Fig. 2.



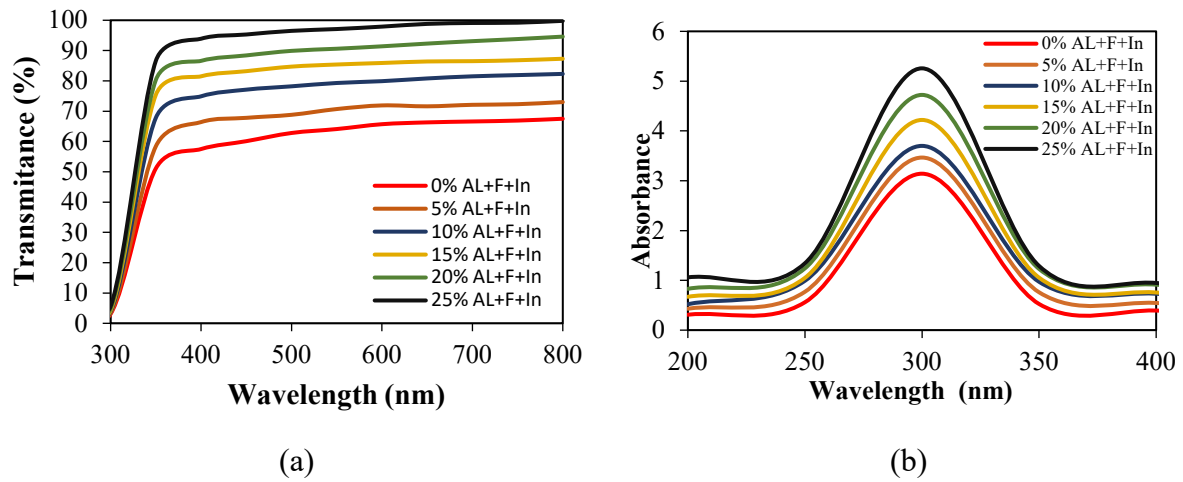


Fig. 2 Optical properties of  $\text{SnO}_2$  and  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  thin films in 60 nm, (a) Transmittance of one layer, (b) Absorbance of one layer.

The transmittance value of  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  consist of thin films in the wavelength range of 300-800 nm are shown in Fig. 2a. The value of transmittance for the percentage of doping 0-25% is 67.50, 73.00, 82.30, 87.30, 94.6, and 99.80% respectively. This means that the higher the amount of doping aluminum, fluorine, and indium the higher the transmittance value produced [22].

The absorbance value of  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  thin films in the wavelength range of 300-800 nm is shown in Fig. 2b. The absorbance value for doping percentage is 0-25%, each of them is 0.52, 0.76, 0.97, 1.05, 1.23, and 1.29. This means that the higher the amount of aluminum, fluorine, and indium doping additions the higher the absorbance value produced [23].

Based on eq. 1, obtained direct and indirect energy gaps allowed  $\text{SnO}_2$  dan  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  thin layer by tauc plot method as shown in the Fig. 3.

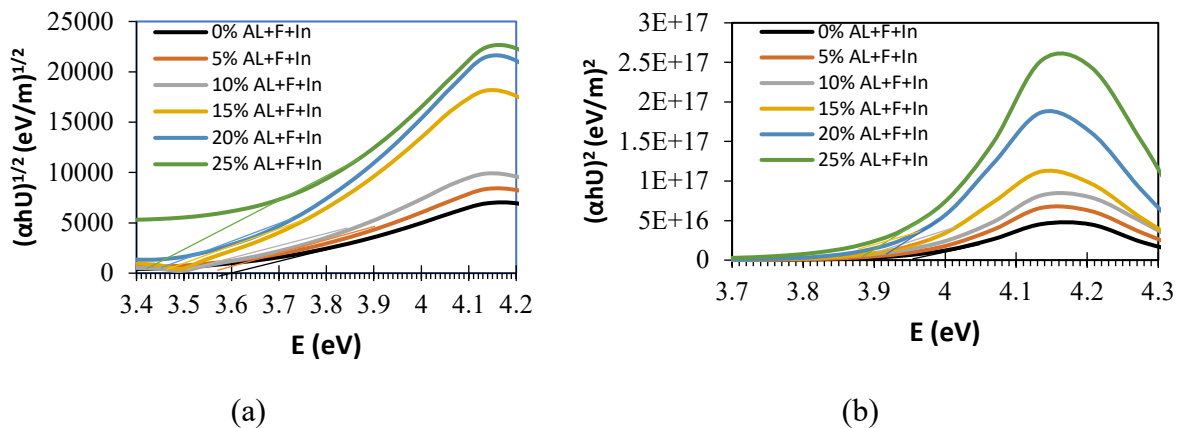


Fig. 3 The energy band gap of  $\text{SnO}_2$  and  $\text{SnO}_2:(\text{Al}+\text{F}+\text{In})$  thin films. (a) direct allowed, (b) indirect allowed.



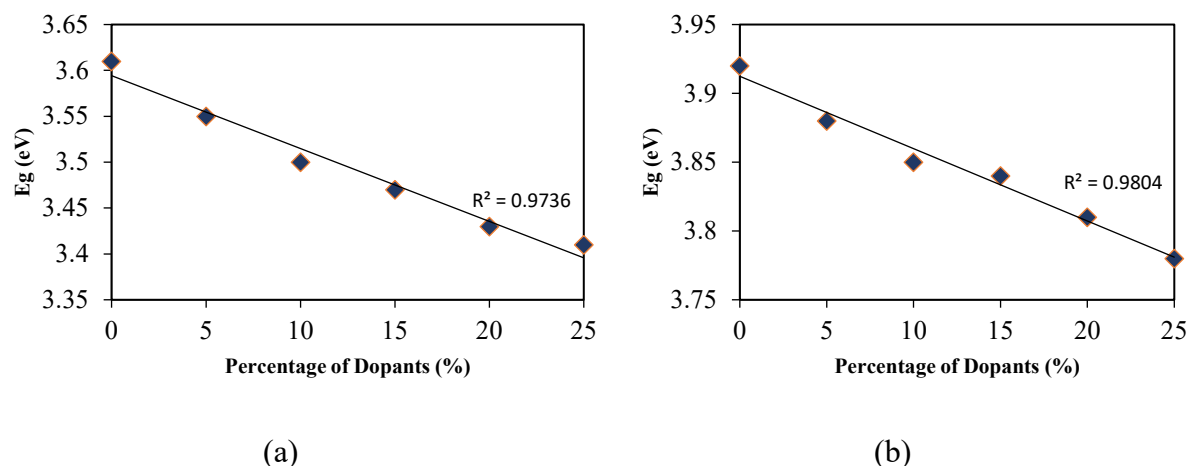


Fig. 4 The relationship between the percentage of aluminum, fluorine and indium doping with energy bandgap (a) direct allowed, (b) indirect allowed.

The relationship between the percentage of doping with the energy band gap is shown in Fig. 4. Fig. 4a is the energy band gap direct allowed, while Fig. 4b represents the energy band gap indirect allowed. The value of the energy band gap direct allowed for doping percentage is 0-25%, each of them is 3.60, 3.55, 3.51, 3.47, 3.43, and 3.41 eV, while energy bandgap indirect allowed values are 3.92, 3.89, 3.88, 3.84, 3.81, and 3.78 eV. This shows that the addition of aluminum, fluorine and indium doping can cause a decrease in the value of the bandgap thin film that were founded from slope of graph photon energy versus  $(\alpha h\nu)^n$ . This means that the smaller the percentage of doping aluminum, fluorine, and indium energy bandgap produced the greater [24, 25]. The decrease in the bandgap energy value indicates that the electron jump from the valence band to the conduction band will be easier.

The value of  $\ln \alpha$  and activation energy  $\text{SnO}_2 : (\text{Al}+\text{F}+\text{In})$  thin film, were follow Arrhenius plot is shown in Fig. 5.

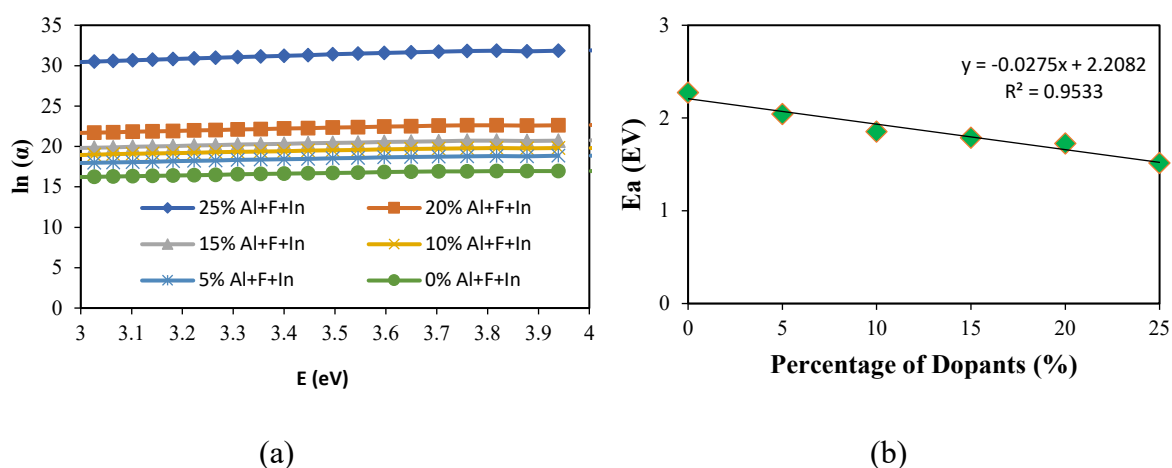


Fig. 5 Characteristics of optical properties of  $\text{SnO}_2$  and  $\text{SnO}_2 : (\text{Al}+\text{F}+\text{In})$  thin films. (a)  $\ln(\alpha)$ , (b) activation energy.

Activation energy values obtained for the percentage of doping aluminum, fluorine and indium 0, 5, 10, 15, 20 and 25% are respectively 2.27, 2.04, 1.85, 1.78, 1.72, and 1.51 eV. In general, the activation energy decreases with increasing doping value. This value means that the electron mobile more quickly in semiconductor material to conduct electricity.

## Conclusions

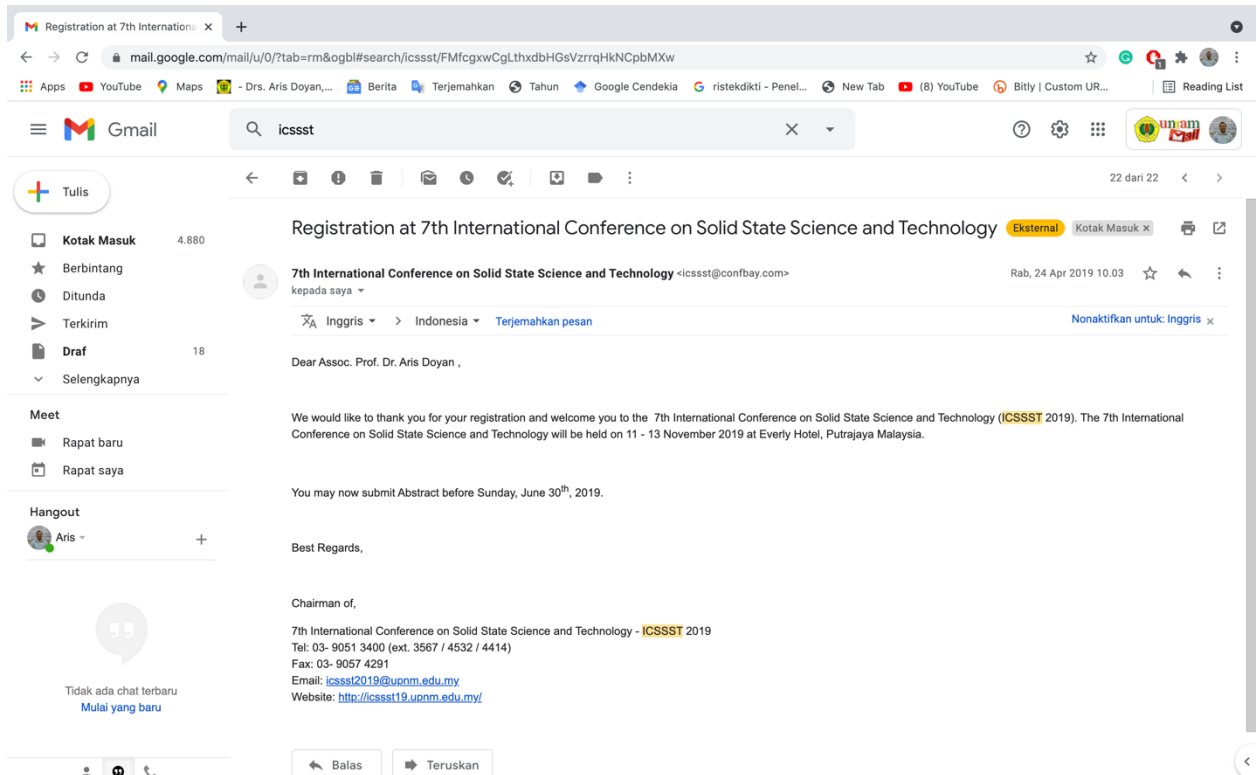
A thin layer of  $\text{SnO}_2$  was doped with aluminum, fluorine, and indium ( $\text{SnO}_2: \text{Al} + \text{F} + \text{In}$ ). The optical properties of the layer consist of transmittance, absorbance, energy bandgap, and activation energy. The value of transmittance for the percentage of doping 0-25% increased from 67.50 to 99.80% at 350 nm wavelength, as well as the absorbance increased from 0.52-1.29 at 300 nm wavelength. Besides that the energy bandgap and the resulting activation decreased with an increasing number of doping aluminum, fluorine, and indium.

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# Corresponding Author dengan Pihak ICSST 2019



The screenshot shows a Gmail interface with a search bar containing "icsst". The email is titled "Registration at 7th International Conference on Solid State Science and Technology" and is marked as "Eksternal". The sender is "7th International Conference on Solid State Science and Technology <icsst@confbay.com>". The email content includes a welcome message, a thank you for registration, and information about the conference dates (November 11-13, 2019) and location (Everly Hotel, Putrajaya Malaysia). It also mentions the abstract submission deadline (Sunday, June 30th, 2019) and provides contact information for the Chairman of the conference.

Registration at 7th International Conference on Solid State Science and Technology Eksternal Kotak Masuk x

7th International Conference on Solid State Science and Technology <icsst@confbay.com> Rab, 24 Apr 2019 10.03 ☆ ↶ ⋮

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Inggris ▾ > Indonesia ▾ Terjemahkan pesan Nonaktifkan untuk: Inggris x

Dear Assoc. Prof. Dr. Aris Doyan ,

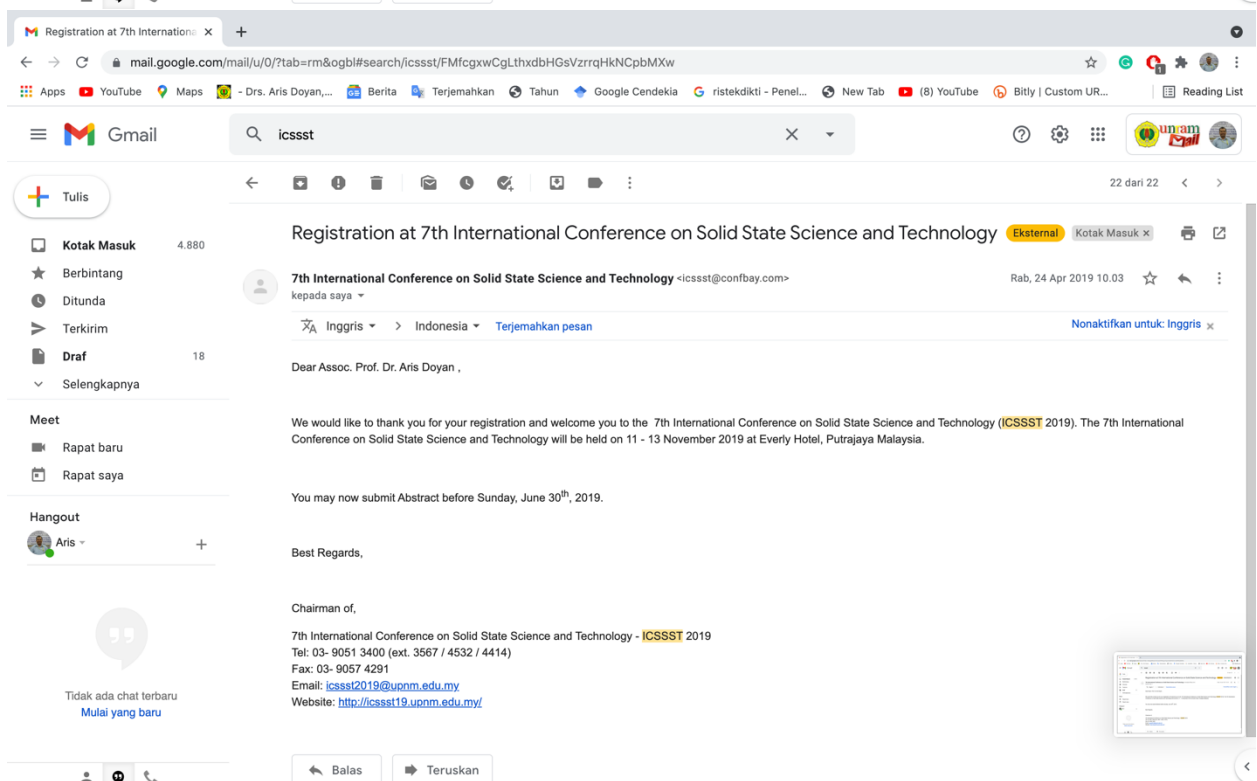
We would like to thank you for your registration and welcome you to the 7th International Conference on Solid State Science and Technology (ICSST 2019). The 7th International Conference on Solid State Science and Technology will be held on 11 - 13 November 2019 at Everly Hotel, Putrajaya Malaysia.

You may now submit Abstract before Sunday, June 30<sup>th</sup>, 2019.

Best Regards,

Chairman of,

7th International Conference on Solid State Science and Technology - ICSST 2019  
Tel: 03- 9051 3400 (ext. 3567 / 4532 / 4414)  
Fax: 03- 9057 4291  
Email: [icsst2019@upnm.edu.my](mailto:icsst2019@upnm.edu.my)  
Website: <http://icsst19.upnm.edu.my/>



This is a duplicate of the screenshot above, showing the same email content and interface elements.

Registration at 7th International Conference on Solid State Science and Technology Eksternal Kotak Masuk x

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Dear Assoc. Prof. Dr. Aris Doyan ,

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You may now submit Abstract before Sunday, June 30<sup>th</sup>, 2019.

Best Regards,

Chairman of,

7th International Conference on Solid State Science and Technology - ICSST 2019  
Tel: 03- 9051 3400 (ext. 3567 / 4532 / 4414)  
Fax: 03- 9057 4291  
Email: [icsst2019@upnm.edu.my](mailto:icsst2019@upnm.edu.my)  
Website: <http://icsst19.upnm.edu.my/>

7th ICSSST 2019 - Aris Doyan, Ph.D

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Jum, 21 Jun 2019 11:40

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Dear Assoc. Prof. Dr. Aris Doyan,

You are kindly reminded that the deadline of the Abstract Submission, June 30th, 2019, is approaching. Therefore, we would appreciate it very much if you could submit your abstract at your earliest convenience before the deadline.

To submit abstract and for the latest information on the conference, please visit our website at: <http://icssst19.upnm.edu.my/>

We are looking forward to receiving your abstract submission.

Thank you.

Best Regards,  
ICSSST 2019 Administration  
Email: [icssst2019@upnm.edu.my](mailto:icssst2019@upnm.edu.my)  
Website: <http://icssst19.upnm.edu.my/>

Noted with thanks. Thank you for the information. Yes, thank you for the reminder.

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Wan Yusmawati Wan Yusoff [yusmawati@upnm.edu.my](mailto:yusmawati@upnm.edu.my) [lewat@upnm.onmicrosoft.com](mailto:lewat@upnm.onmicrosoft.com)

kepada saya, [susilawatihambali@unram.ac.id](mailto:susilawatihambali@unram.ac.id)

Melayu Indonesia Terjemahkan pesan Nonaktifkan untuk: Melayu x

Assalamualaikum PM Dr Aris & PM Dr Susilawati,

Bersama-sama ini disertakan poster 7th ICSSST 2019 yang latest. Mohon hebahkan pada yang berminat.

TQVM.

"DUTY, HONOUR, INTEGRITY"

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Dr. Wan Yusmawati binti Wan Yusoff  
Senior Lecturer  
Department of Physics  
Centre for Defence Foundation Studies  
National Defence University of Malaysia  
Kem Sungai Besi  
57000 Kuala Lumpur, MALAYSIA.  
Tel: 603-90513400 ext 3567  
E-mail: [yusmawati@upnm.edu.my](mailto:yusmawati@upnm.edu.my)

7th International Conference on Solid State Science and Technology

7th ICSST 2019 - Abstract Submission ICSST2019-138 Kotak Masuk

7th International Conference on Solid State Science and Technology <icsst@confbay.com> Sab, 3 Agu 2019 23.17

Inggris > Indonesia [Terjemahkan pesan](#) [Nonaktifkan untuk: Inggris](#)

Dear Assoc. Prof. Dr. Aris Doyan ,

Thank you for submitting your abstract / extended abstract entitled "The Optical Properties of Thin Films Tin Oxide with Triple Doping (Aluminum, Indium, and Fluorine) for Electronic Device". Your reference number for this submission is **ICSST2019-138**. The abstract will be reviewed and result will be notified soonest possible.

As a reminder, 7th International Conference on Solid State Science and Technology will be held on 11 - 13 November 2019 at Everly Hotel, Putrajaya Malaysia.

Please remember to quote the conference name and reference number (ID) in any form of communications with us.

Yours sincerely,

7th ICSST 2019 Secretariat  
Tel: 03- 9051 3400 (ext. 3567 / 4532 / 4414)  
Fax: 03- 9057 4291  
Email: [icsst2019@upnm.edu.my](mailto:icsst2019@upnm.edu.my)  
Website: <http://icsst19.upnm.edu.my/>

7th ICSST 2019 - Notification of Acceptance ICSST2019-138 Kotak Masuk

7th International Conference on Solid State Science and Technology <icsst@confbay.com> Sel, 6 Agu 2019 21.03

Inggris > Indonesia [Terjemahkan pesan](#) [Nonaktifkan untuk: Inggris](#)

Dear Assoc. Prof. Dr. Aris Doyan ,

On behalf of 7th ICSST 2019 Committee, we are pleased to inform you that your submitted abstract (ICSST2019-138) entitled "The Optical Properties of Thin Films Tin Oxide with Triple Doping (Aluminum, Indium, and Fluorine) for Electronic Device", has been reviewed and accepted for this conference. You are therefore requested to submit the full paper for Reviewing process before **Monday, November 11<sup>th</sup>, 2019**.

[Submit full paper now.](#)

You are strictly advised to adhere to the conference template which can be downloaded from the conference website.

We look forward to receive your full paper very soon.

Again, thank you very much for your submission.

Yours sincerely,

7th ICSST 2019 Secretariat

7th ICSST 2019 - Invoice - ar... X

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Dear Assoc. Prof. Dr. Aris Doyan,

The invoice for Paper ID "ICSST2019-138" at the 7th International Conference on Solid State Science and Technology is attached.

We look forward to seeing you and thank you for your support to 7th International Conference on Solid State Science and Technology.

7th ICSST 2019 Secretariat  
Telp: 03- 9051 3400 (ext. 3567 / 4532 / 4414)  
Fax: 03- 9057 4291  
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7th ICSST 2019: Preliminary feedback form Eksternal Kotak Masuk X

ICSST 2019 <icsst2019@upnm.edu.my>  
kepada amiezahari@yahoo.com, Siti, Mohd, Mazlinda, hamimah@uthm.edu.my, Aaliyawani, ikhmal007@gmail.com, nasuharaflen1@gmail.com, a.hawa.jasni@gmail.com, asyikins

Jum, 4 Okt 2019 07.59

Inggris > Indonesia Terjemahkan pesan Nonaktifkan untuk: Inggris X

Dear Authors of 7th ICSST 2019,

On behalf of the 7th ICSST committee, we would like to congratulate you on your acceptance of submitted papers in 7th International Conference on Solid State Sciences and Technology 2019. We are glad to welcome you to our conference on 11th - 13th November 2019 at The Everly Hotel, Putrajaya.

Please help us getting your feedback by filling the google form below. It will help us to serve you better. Thank you!

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Please contact us if you have any questions regarding the submission, payment and conference: [icsst2019@upnm.edu.my](mailto:icsst2019@upnm.edu.my)

We really appreciate your interest in participating in 7th ICSST 2019. See you in Putrajaya!

Kind regards,  
Secretariat,  
7th ICSST 2019

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Materials Technology Challenge x +

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### Materials Technology Challenges 3.0 (MTC 3.0) Eksternal Kotak Masuk x

ICSST 2019 <icsst2019@upnm.edu.my> Sel, 22 Okt 2019 10:27 ☆ ↶ ⋮  
kepada amiezahari@yahoo.com, Siti, Mohd, Mazlinda, hamimah@uthm.edu.my, Aaliyawani, ikhmal007@gmail.com, nasuharaflen1@gmail.com, a.hawa.jasni@gmail.com, asyikins

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ICSST 2019 has shared a OneDrive for Business file with you. To view it, click the link below.  
[template.zip](#)

Dear Authors of 7<sup>th</sup> ICSST 2019,

You are eligible to participate in the MASS Materials Technology Challenges 3.0 (MASS MTC 3.0). The MASS MTC 3.0 is a platform for researchers to showcase their research, exchange ideas and improve communication skills while competing for gold, silver and bronze medals.

- To register: Please fill up the following form:  
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- All payment must be made to:  
Bank Name: CIMB BANK BERHAD  
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kepada amiezahari@yahoo.com, Siti, Mohd, Mazlinda, hamimah@uthm.edu.my, Aaliyawani, ikhmal007@gmail.com, nasuharaflen1@gmail.com, a.hawa.jasni@gmail.com, asyikins

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Dear Authors of 7<sup>th</sup> ICSST 2019,

On behalf of the 7<sup>th</sup> ICSST committee, we would like to congratulate you on your acceptance of submitted papers in 7<sup>th</sup> International Conference on Solid State Sciences and Technology 2019. We are glad to welcome you to our conference on 11<sup>th</sup> - 13<sup>th</sup> November 2019 at The Everly Hotel, Putrajaya.

Please help us getting your feedback by filling the google form below. It will help us to serve you better. Thank you!

<https://docs.google.com/forms/d/e/1FAIpQLSdHqPXAYeq9mUQyl-R4iNsNh8qfPEHfKZo3wPD9If7xM6KaQ/viewform>

Please contact us if you have any questions regarding the submission, payment and conference: [icsst2019@upnm.edu.my](mailto:icsst2019@upnm.edu.my)

We really appreciate your interest in participating in 7<sup>th</sup> ICSST 2019. See you in Putrajaya!

Kind regards,  
Secretariat,  
7th ICSST 2019

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kepada amiezahari@yahoo.com, Siti, Mohd, Mazlinda, hamimah@uthm.edu.my, aaliyawani, ikhmal007@gmail.com, nasuharafen1@gmail.com, a.hawa.jasni@gmail.com, asyiking

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Dear all 7th ICSST 2019 participant.

For those who submit their accommodation booking through ICSST 2019 website (<http://icsst19.upnm.edu.my/>),

Please contact back ICSST 2019 secretariat and include booking detail in the email which include:

1. Name
2. Phone number
3. Email address

We really appreciate your attention toward this request.

Kind regard,  
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ICSST 2019 <icsst2019@upnm.edu.my> Kam, 19 Des 2019 12:53  
kepada aaliyawani, abdullahi.ismail@uniabuja.edu.ng, abtalmasoodi@gmail.com, ahmed, Ain, aintrah@gmail.com, Noor, alindasamsuri@gmail.com, amhamza419@gmail.com, A

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Dear 7th ICSST 2019 participants,

Thank you for your participation in the 7th International Conference on Solid State Science and Technology (7th ICSST 2019). We hope you enjoy the conference.

As has been stated in the website <https://submit.confbay.com/conf/icsst2019>, the dateline for full paper submission is around the corner (30 December 2019).

Since you have selected SSP for your paper publication, we would like to inform that you will receive an email from [scientific.net](http://scientific.net). Please follow the instruction given in the email. If you have any enquiries, feel free to contact us.

Best regards,  
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International Conference on Solid State Science and Technology

mail.google.com/mail/u/0/?tab=rm&ogbi#search/icsst/FMfcgxwGCQZDqjMFGjrNJVWhsjqRBTTh

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Please remind, the dateline of full paper submission is on **30 December 2019** (Monday). Thank you.

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Status kependudukan ☐ penduduk ☐ bukan penduduk

Nama ARS. ARIS DOYAN, MSi, Ph.D

Alamat & nomor telepon JL. Suren Bangay II no 20 kedoya

alamat & telephone number

METODE TRANSKASI (wajib diisi)

method of transaction ☐ tunai ☒ debit rekening ☐ cek/bilyet giro

Bank Terarik drawee bank No cek/BG cheque number

Bank Terarik drawee bank No cek/BG cheque number

Bank Terarik drawee bank No cek/BG cheque number

Bank Terarik drawee bank No cek/BG cheque number

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diisi apabila pembawa formulir bukan Pengirim filled out by the bearer of this form is not the applicant

Nama

nama

Alamat & nomor telepon

NIK / Paspor (WNA)

ID number

Bank Terarik drawee bank

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Bank Terarik drawee bank

Bank Terarik drawee bank

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