# Selective optical chemosensors of $Fe^{3+}$ ions using 1*H*-indole-2,3-dione

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## Selective Optical Chemosensors of Fe<sup>3+</sup> Ions using 1*H*-Indole-2,3-dione

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Abstract: 1*H*-Indole-2,3-dione has attracted many attentions in the field of organic synthesis due to its easy modification with other organic compounds. On the other hand, 1*H*-indole-2,3-dione compound could also be used as chemosensor agent because it contains amide and carbonyl functional groups, which are able for binding as well as chelating metal ions. In the present work, we reported that 1*H*-indole-2,3-dione compound exhibits high sensing capability as well as high selective detection of Fe<sup>3+</sup> ions through enhancement of its absorption peak at ultraviolet region. Particularly, a series of 0.5 mM of metal ions (Na<sup>+</sup>, K<sup>+</sup>, Ba<sup>2+</sup>, Ca<sup>2+</sup>, Co<sup>2+</sup>, Cu<sup>2+</sup>, Hg<sup>2+</sup>, Mg<sup>2+</sup>, Mn<sup>2+</sup>, Ni<sup>2+</sup>, Pb<sup>2+</sup>, Zn<sup>2+</sup>, Au<sup>3+</sup>, Al<sup>3+</sup>, Fe<sup>3+</sup> and La<sup>3+</sup>) in distilled water was simply mixed with 0.05 mM of 1*H*-indole-2,3-dione in distilled water. Afterward, their UV-Vis spectral changes were recorded by using UV-Vis spectrophotometer. It was found that 1*H*-indole-2,3-dione itself gave two main absorption peaks at 242 and 302 nm. When the Fe<sup>3+</sup> ions were added, the intensity of both absorption peaks was remarkably increased. From the UV-Vis titration experiment, limit of detection value was found to be 17.8  $\mu$ M while limit of quantitation was found as 59.3  $\mu$ M. This finding shows that the 1*H*-indole-2,3-dione gives a promising platform for fluorescent chemosensor agent for sensing of Fe<sup>3+</sup> ion.

#### **INTRODUCTION**

Host-guess chemistry remains as an active research trends over the past several years [1-4]. Among them, nitrogen heterocyclic compounds have been extensively employed for their unique physicochemical properties [5]. Isatin or 1*H*-indole-2,3-dione was first obtained from the oxidation of indigo dye by acid oxidation such as nitric and chromic acids. The chemical structure of 1*H*-indole-2,3-dione is displayed in Figure 1. The 1*H*-indole-2,3-dione has been applied in many fields such as anticancer [6], antibacterial [7], corrosion [8], and chemosensor agent [9,10]. Furthermore, 1*H*-indole-2,3-dione has been utilized as raw material for organic synthesis because the phenyl ring, carbonyl and amide groups can be modified to form Schiff base, *N*-Mannich base, and other complex compounds [11-13].

Chemosensor from 1*H*-indole-2,3-dione derivatives as ligands, nanomaterials and nanocomposites were often reported due to their selectivity and sensitivity [14,15]. Besides that, as nanomaterial and nanocomposite, 1*H*-indole-2,3-dione derivatives have advantages such as high thermal stability, large pore size and high surface area [16,17].

Proceedings of the 5th International Symposium on Applied Chemistry 2019 AIP Conf. Proc. 2175, 020062-1–020062-7; https://doi.org/10.1063/1.5134626 Published by AIP Publishing. 978-0-7354-1922-3/\$30.00 Several researchers have used 1*H*-indole-2,3-dione derivatives for sensing  $Al^{3+}$  [16],  $Hg^{2+}$  [17],  $Fe^{3+}$  [18] and  $Cd^{2+}$  [19] ions. Dhara *et al.* in 2014 synthesized Schiff base derivative from 1*H*-indole-2,3-dione rhodamine scaffold and tested as a chemosensor to detect  $Al^{3+}$  ions [16]. This chemosensor showed high sensitivity in DMSO/H<sub>2</sub>O (1:9 v/v) solvent, however several synthesis routes are necessary to synthesize 1*H*-indole-2,3-dione rhodamine scaffold. Lashgari *et al.* (2017) have reported that the grafting of commercial 1*H*-indole-2,3-dione with SBA-15 with (3-chloropropyl)trimethoxysilane as a linker and measured their emission with spectrofluorometer [17]. These nanocomposites were dispersed in water and used for sensing  $Hg^{2+}$  ions. It is well-known that the homogeneity from nanocomposite chemosensor is the main drawback for reproducible sensing method. Hence, it is necessary to develop a sensing method which employs a homogeneous system. Moreover, to the best our knowledge, commercially available 1*H*-indole-2,3-dione is promising to be applied as a chemosensor agent due to the presence of carbonyl and amide groups as well-known metal ion binding sites [20,21]. Therefore, in the present work, we reported the investigation of sensing  $Fe^{3+}$  ions in aqueous media using 1*H*-indole-2,3-dione as a chemosensor by evaluation of its selectivity and sensitivity.



FIGURE 1. The structure of 1H-indole-2,3-dione

#### **EXPERIMENTAL SECTION**

#### General

1*H*-indole-2,3-dione (97%) and all other metals in chloride/nitrate salts were purchased from Sigma-Aldrich and were used as they are. The absorbance spectra were measured using spectrophotometer JASCO V-760 while the fluorescence spectra were measured using spectrofluorometer JASCO FP-8500ST. All measurements were performed using a quartz cuvette as a sample holder with 1 cm width.

#### Procedure

#### Optical Properties Study of 1H-Indole-2,3-dione

1*H*-indole-2,3-dione was dissolved in distilled water to obtain 0.1 mM concentration. After that, UV-Vis spectrum of 1*H*-indole-2,3-dione as the ligand were measured in the range of 200-800 nm. Fluorescent spectrum of this compound was particularly recorded using 3D measurement for each excitation-emission to the intensity in the range of 200-800 nm for every 10 nm.

#### The Spectroscopy Study of 1H-Indole-2,3-dione

Metal ions in chloride and nitrate salts were dissolved in distilled water for obtaining each metal ions stock solutions in 1 mM concentration. The spectroscopy study of 1*H*-indole-2,3-dione was carried out by contacting 1 mM of 1*H*-indole-2,3-dione (0.15 mL) with various of metal ion solution (0.15 mL) and distilled water to obtain the final volume of 3 mL. All absorbance spectra were recorded by using spectrophotometer UV-Vis.

#### Absorbance Spectral Titrations Study of 1H-Indole-2,3-dione

The UV-Vis titrations were conducted to calculate the limit of detection (LOD) and also limit of quantification (LOQ). The stock solution of 0.05 mM of the 1*H*-indole-2,3-dione was prepared by dissolving in distilled water.

Similarly, a 100 mM stock solution of  $Fe^{3+}$  was prepared separately in distilled water. The  $Fe^{3+}$  ions concentration was varied starting from 0.01, 0.025, 0.05, 0.075, .0.1, 0.25, 0.5 to 0.75 and 1 mM. Both solutions were mixed to obtain a solution with 3 mL as the total volume of the mixture, and then the changes in their UV-Vis spectra were recorded.

#### The Selectivity Study of 1H-Indole-2,3-dione

The selectivity study of 1*H*-indole-2,3-dione was performed to evaluate the capability of 1*H*-indole-2,3-dione to detect  $Fe^{3+}$  ions in the presence of other metal ions. The 0.5 mM of  $Fe^{3+}$  ions solution, 0.5 mM of other metal ions and 0.5 mM 1*H*-indole-2,3-dione solution in distilled water were mixed for this evaluation. The absorbance spectrum of the mixture was measured by UV-Vis spectrophotometer.

#### **RESULTS AND DISCUSSION**

#### **Optical Properties Study**

The photophysical properties of 1*H*-indole-2,3-dione were also systematically examined by using spectrofluorometer and spectrophotometer UV-Vis. The UV/visible absorption spectrum and 3D fluorescent spectrum were shown in Figure 2a-b. The UV-Vis spectrum in Figure 2a shows four absorption peaks at 208, 242, 302, and 418 nm. Absorption maxima at 208, 242, and 302 nm correspond to the  $\pi \rightarrow \pi^*$  transition of the aromatic ring,  $\pi \rightarrow \pi^*$  carbonyl C-2, and  $\pi \rightarrow \pi^*$  carbonyl C-3, respectively. A weak absorption band at 418 nm correspond to the nitrogen and oxygen lone pair electrons ( $n \rightarrow \pi^*$  transition) [22]. The 3D fluorescent spectrum of 1*H*-indole-2,3-dione in Figure 2b shows the blank area in the region 200-800 nm for the emission and excitation wavelength. This result indicates that 1*H*-indole-2,3-dione in distilled water does not have fluorescence phenomena due to the formation of aggregation (Aggregation-caused Quenching) [23]. The aggregation caused by overlaps in two  $\pi$ -conjugated systems ( $\pi$ - $\pi$  stacking) between benzene ring from two 1*H*-indole-2,3-dione molecules. From the aforementioned above, in this work, the sensing method of 1*H*-indole-2,3-dione was evaluated through UV-Vis spectrometry method.



FIGURE 2. (a) The UV-Vis absorption and (b) the fluorescent 3D spectra of 1H-indole-2,3-dione 0.05 mM

#### The Spectroscopy Studies

The spectroscopy studies were used to evaluate the sensing capability of 1*H*-indole-2,3-dione as a chemosensor. Particularly, the selectivity profile of 1*H*-indole-2,3-dione sensor against different metal ions were also investigated. The UV-Vis spectral changes of the 1*H*-indole-2,3-dione solution after addition of various metal ions solution, such as Na<sup>+</sup>, K<sup>+</sup>, Ba<sup>2+</sup>, Ca<sup>2+</sup>, Co<sup>2+</sup>, Cu<sup>2+</sup>, Hg<sup>2+</sup>, Mg<sup>2+</sup>, Mn<sup>2+</sup>, Ni<sup>2+</sup>, Pb<sup>2+</sup>, Zn<sup>2+</sup>, Au<sup>3+</sup>, Al<sup>3+</sup>, Fe<sup>3+</sup> and La<sup>3+</sup> show in Figure 3a. As shown in the Figure 3a, it is interesting to note that only Fe<sup>3+</sup> ions were able to induce strong absorption peaks at 242 and 302 nm due to complexation phenomenon between 1*H*-indole-2,3-dione at carbonyl group with Fe<sup>3+</sup> ions.

After the addition of metal ions, the color of the solution was changed from pale-yellow to bright yellow as shown in Figure 3b- Hence, the changes in UV-Vis spectrum of 1H-indole-2,3-dione solution for sensing Fe<sup>3+</sup> ions were well supported by its color as bright yellow.

#### **Titrations Study**

The UV-Vis titration spectral changes of 1*H*-indole-2,3-dione in the presence of different concentrations of Fe<sup>3+</sup> ions were recorded to calculate the LOD and LOQ [24]. As showed in Figure 4a, it was clearly showed that the addition of Fe<sup>3+</sup> ions with higher concentration (0.01-1 mM) gave a gradual increment of the absorption intensity at 242 and 302 nm. Thus, from the calibration curve, a linear correlation between the concentration of Fe<sup>3+</sup> and the absorption intensity was achieved as shown in Figure 4b. The linear equation of dI/Io = 8.9643 [Fe<sup>3+</sup>] + 0.132 was obtained with 0.9985 as the correlation coefficient. It was found that the LOD and LOQ values were 17.8 and 59.3  $\mu$ M, demonstrating that 1*H*-indole-2,3-dione is a potential chemosensor agent to detect Fe<sup>3+</sup> ions even at lower concentration (good sensitivity). Compared to other previous results, the LOD and LOQ of 1*H*-indole-2,3-dione is the best as shown in Table 1.



FIGURE 3. (a) The UV-Vis absorbtion spectral changes of 1*H*-indole-2,3-dione (0.05 mM) in distilled water in response to various metal ions with concentration of 0.5 mM and (b) their color changes upon addition of 10 equiv. of different metal



**FIGURE 4.** (a) The UV-vis absorption spectral changes of 1*H*-indole-2,3-dione (0.05 mM) in distilled water upon gradual addition of Fe<sup>3+</sup> ion with concentration 0.01, 0.025, 0.05, 0.075, 0.1, 0.25, 0.5, 0.75 and 1 mM and (b) the calibration curve plot of 1*H*-indole-2,3-dione by Fe<sup>3+</sup> ions presented in the form of ( $\Delta$ I/I<sub>0</sub>) vs [Fe<sup>3+</sup>]

#### The Selectivity Study

The sensing capability of 1*H*-indole-2,3-dione toward  $Fe^{3+}$  ions in the presence of other competing metal ions is pivotal parameter to evaluate its performance. Therefore, the interference study was critical to be investigated by addition of  $Fe^{3+}$  ions with the presence of other metal ions into a 1*H*-indole-2,3-dione solution. The absorption spectral changes of the mixture were recorded and shown as Figure 5 in its bar chart. As shown in Figure 5, the presence of other metal ions did not show remarkable interference to the absorption of change of 1*H*-indole-2,3-dione toward  $Fe^{3+}$ ions. These results demonstrate that 1*H*-indole-2,3-dione as a chemosensor is highly selective to  $Fe^{3+}$  ions even with the involving of interferences from other metal ions.



FIGURE 5. The competitive study of isatin with Fe<sup>3+</sup> and the presence of other metal ions. black bar: absorption intensity of blank (1*H*-indole-2,3-dione (0.05 mM) in distilled water. Blue bar: absorption intensity of 1*H*-indole-2,3-dione (0.05 mM) with other metal ions (0.5 mM) in distilled water. Red bar: absorption intensity of 1*H*-indole-2,3-dione (0.05 mM) with Fe<sup>3+</sup> ions (0.5 mM) and the addition of the respective competing cations (0.5 mM) in distilled water

Chemosensor	Limit of Detection	Testing Media	Reff.
	32.2 μM	DMSO/H2O (v/v=70:30)	[25]
HO OTO	51.7 μM	HEPES buffer, pH 7.4, 1% DMSO	[26]
	8760 μM	МеОН	[27]
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	17.0 μΜ	H <sub>2</sub> O	Present work

TABLE 1. The comparation of the analytical performance between isatin-Fe<sup>3+</sup> with other recently reported sensors

#### CONCLUSION

In conclusion, 1*H*-indole-2,3-dione is potential to be used as a selective chemosensor for Fe<sup>3+</sup> ions by utilizing a UV-Vis spectrophotometer for the evaluation of its absorption spectral changes. Among all evaluated monovalent, divalent and trivalent metal ions (Na<sup>+</sup>, K<sup>+</sup>, Ba<sup>2+</sup>, Ca<sup>2+</sup>, Co<sup>2+</sup>, Cu<sup>2+</sup>, Hg<sup>2+</sup>, Mg<sup>2+</sup>, Mn<sup>2+</sup>, Ni<sup>2+</sup>, Pb<sup>2+</sup>, Zn<sup>2+</sup>, Au<sup>3+</sup>, Al<sup>3+</sup>, Fe<sup>3+</sup> and La<sup>3+</sup>), the a complex between 1*H*-indole-2,3-dione and Fe<sup>3+</sup> ions could selectively increase the absorption band of the ligand at 242 and 302 nm at carbonyl absorption band. This interaction provides limit of detection in 17.8  $\mu$ M and limit of quantification in 59.3  $\mu$ M that are more sensitive than previously reported ones. Moreover, the solution appearance of the complex between 1*H*-indole-2,3-dione and Fe<sup>3+</sup> ion gave a bright yellow color to support the presence of the binding which was clearly visible to the naked eye for direct recognition. Such interaction does not significantly influence by the presence of other metal ions as interferences, which is remarkable for the development of chemosensors. Hence, these findings are pivotal for further investigation on design a selective chemosensor based on nitrogen heterocyclic moieties.

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#### REFERENCES

- 1. Y. M. Zhang, J. X. Su, Q. Li, W.J. Qu, X. Zhu, Y.L. Leng, S.F. Xin, H. Yao, Q. Lin, T.B. and Wei, Supramol. Chem. 29, 411-416 (2017).
- 2. D. J. Discenza, E. Culton, N. Ferderame, J. Lynch, N. Serio and M. Levine, Chemosensors. 5, 34-49 (2017).
- 3. Y. S. Kurniawan, M. Anwar and T.D. Wahyuningsih, Mater. Sci. Forum 911, 135-141 (2017).
- 4. Y. S. Kurniawan, R. R. Sathuluri, K. Ohto, W. Iwasaki, H. Kawakita, S. Morisada, M. Miyazaki and Jumina, Sep. Purif. Technol. **211**, 925-934 (2019).
- 5. A.S. Hutama, H. Huang and Y.S. Kurniawan, Spectrochim. Acta Part A Mol. Biomol. Spectrosc. 221, 117152 (2019).
- 6. S. Ke, L. Shi and Z. Yang, Bioorganic Med. Chem. Lett. 25, 4628-4631 (2015).
- 7. M.R.G. Fahmi, L. Khumaidah, T.K. Ilmiah, A. Fadlan and M. Santoso, IOP Conf. Ser. Mater. Sci. Eng. 349, 012039 (2018).
- Y. Kharbach, F.Z. Qachchachi, A. Haoudi, M. Tourabi, A. Zarrouk, C. Jama, L.O. Olasunkanmi, E.E. Ebenso and F. Bentiss, J. Mol. Liq. 246, 302-316 (2017).
- 9. P. Marimuthu and A. Ramu, Sensors Actuators, B Chem. 266, 384-391 (2018).
- 10. A.K. TG, V. Tekuri, M. Mohan and D.R. Trivedi, Sensors Actuators, B Chem. 284, 271-280 (2019).
- A.G. Bharathi Dileepan, T. Daniel Prakash, A. Ganesh Kumar, P. Shameela Rajam, V. Violet Dhayabaran and R. Rajaram, J. Photochem. Photobiol. B Biol. 183, 191-200 (2018).
- 12. D. İşibol, S. Karahan and C. Tanyeli, Tetrahedron Lett. 59, 541-545 (2018).
- 13. C. Balachandran, J. Haribabu, K. Jeyalakshmi, N.S.P. Bhuvanesh, R. Karvembu, N. Emi and S. Awale, J. Inorg. Biochem. 182, 208-221 (2018).
- 14. V. Raju, S.K.A. Kumar, D.S. Abbareddy, M. Rao and S. Sahoo, Sens. Lett. 15, 266-275 (2017).
- 15. N. Lashgari, A. Badiei and G. Mohammadi Ziarani, Appl. Organomet. Chem. 32, 1-8 (2018).
- 16. A. Dhara, A. Jana, N. Guchhait and S. K. Kar, J. Lumin. 154, 369-375 (2014)
- 17. N. Lashgari, A. Badiei, G. Mohammadi Ziarani and F. Faridbod, Anal. Bioanal. Chem. 409, 3175-3185 (2017).
- M.R.G. Fahmi, A.T.N. Fajar, N. Roslan, L. Yuliati, A. Fadlan, M. Santoso and H.O. Lintang, Open Chem 17, 438-447 (2019).
- 19. P. G. Mahajan, D.P. Bhopate, G.B. Kolekar and S.R. Patil, Sensors Actuators, B Chem. 220, 864-872 (2015).
- 20. A. Kundu, S. Pathak, and A. Pramanik, Asian J. Org. Chem. 2, 869-876 (2013).
- S. S. Swathy, R. Selwin Joseyphus, V.P. Nisha, N. Subhadrambika and K. Mohanan, Arab. J. Chem. 9, S1847-S1857 (2016).
- 22. P. Tisovský, R. Šandrik, M. Horváth, J. Donovalová, J. Filo, M. Gáplovský, K. Jakusová, M. Cigáň, R. Sokolík and A. Gáplovský, Molecules **22**, 1961-1983 (2017).
- 23. X. Ma, R. Sun, J. Cheng, J. Liu, F. Gou, H. Xiang and X. Zhou, J. Chem. Educ. 93, 345-350 (2016).
- 24. D. A. Armbruster, and T. Pry, Clin. Biochem. Rev. 29, S29-S52 (2008).
- 25. Y. Z. Chen, Y.R. Bhorge, A.J. Pape, R.D. Divate, Y.C. Chung and Y.P. Yen, J. Fluoresc. 25, 1331-1337 (2015).
- 26. O. García-Beltrán, B.K. Cassels, C. Pérez, N. Mena, M.T. Núñez, N.P. Martínez, P. Pavez and M.E. Aliaga, Sensors 14, 1358-1371 (2014).
- 27. M. H. Kao, C. F. Wan and A. T. Wu, Luminescence 32, 1561-1566 (2017).

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AIP Conference Proceedings 2175, 020003 (2019); https://doi.org/10.1063/1.5134567	
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Performance of phenolic wastewater degradation with ozonation and catalytic ozonation technique in multi injection bubble column reactor	
Sarah Vania Ghaisani, Dionisius Parsaoran Wahyudi, Enjarlis, Eva Fathul Karamah and Setijo Bismo	
AIP Conference Proceedings <b>2175</b> , 020004 (2019); https://doi.org/10.1063/1.5134568	
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No Access . November 2019

#### Removal of organic and inorganic (phenolic and iron compound) pollutants from wastewater using DBD cold plasma reactor

Ratu Anissa Cahyani, Yulia Endah Permata, Eva Fathul Karamah and Setijo

AIP Conference Proceedings 2175, 020005 (2019); https://doi.org/10.1063/1.5134569

SHOW ABSTRACT

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#### No Access . November 2019

#### Biodiesel synthesis in DBD plasma reactor using hot mixture of castor oil and used palm oil - Methanol

Kania Zara, Sesia Fitri Anisa, Shafira Nabilla and Setijo Bismo AIP Conference Proceedings 2175, 020006 (2019); https://doi.org/10.1063/1.5134570

#### No Access . November 2019

SHOW ABSTRACT

#### Application of edible film from heatmoisture treated sweet potato starch on the quality of pineapple dodol

Novita Indrianti and Lia Ratnawati

AIP Conference Proceedings 2175, 020007 (2019); https://doi.org/10.1063/1.5134571

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Physicochemical, structural and morphological properties of some arrowroot (Maranta arundinacea) accessions growth in Indonesia

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#### Formulation of instant porridge by using natural folic acid fortificant as a complementary infant feeding

Agustine Susilowati, Yati Maryati and Aspiyanto AIP Conference Proceedings 2175, 020014 (2019); https://doi.org/10.1063/1.5134578

SHOW ABSTRACT

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#### No Access . November 2019

#### Synthesis N-palmitoyl lysine from palmitate acid and L-lysine used mixed solvent: Effect of temperature and reaction time

M. Syukri, N. R. Purba, B. R. Hutajulu, D. Alfizah, A. Hutagalung and Z. Masyithah

AIP Conference Proceedings **2175**, 020015 (2019); https://doi.org/10.1063/1.5134579

SHOW ABSTRACT

#### No Access . November 2019

#### Recovering organic acids fermented beetroot (*Beta vulgaris* L.) through microfiltration to prevent increase of natural cholesterol

Agustine Susilowati, Aspiyanto, Puspa D. Lotulung, Yati Maryati and Hani Mulyani

AIP Conference Proceedings **2175**, 020016 (2019); https://doi.org/10.1063/1.5134580

SHOW ABSTRACT

#### lo Access . November 2019

#### The performance of microfiltration membrane of total polyphenol from fermented beetroot (Beta vulgaris L.) to prevent natural oxidation

Aspiyanto, Agustine Susilowati, Puspa D. Lotulung, Yati Maryati and Hani Mulyani

AIP Conference Proceedings 2175, 020017 (2019); https://doi.org/10.1063/1.5134581

SHOW ABSTRACT

#### No Access . November 2019

#### Evaluation of antioxidant activity of formulated functional drinks derived from katuk (*Sauropus androgynous*) leaf extracts: Optimization using response surface methodology (RSM)

Yati Maryati, Agustine Susilowati, Aspiyanto, Hani Mulyani, Nina Artanti and Setyani Budiari

AIP Conference Proceedings **2175**, 020018 (2019); https://doi.org/10.1063/1.5134582

SHOW ABSTRACT

#### No Access . November 2019

#### Characterizations of activated zeolite using hydrolysis method

Halimatuddahliana Nasution, Hamidah Harahap, Setiaty Pandia, Danil Maha Putra and M. Thoriq Al Fath

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2049 (2018) 2051 (2018)	~	Benefits of fermented beet ( <i>Beta vulgaris</i> L.) against digestive infection <i>Escherichia coli</i> and free radicals prevention
2048 (2018)	~	Hani Mulyani, Yati Maryati, Euis Filailla, Agustine Susilowati, Puspa D. N. Lotulung and Aspiyanto Aspiyanto
2045 (2018)	~	AIP Conference Proceedings <b>2175</b> , 020025 (2019); https://doi.org/10.1063/1.5134589
2046 (2018)	~	
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2031 (2018)	~	
2047 (2018)	~	Fabrication of zinc oxide nanostructure as
2029 (2019)		antibacterial agent
20/7 (2018)	·	AIP Conference Proceedings 2175, 020026 (2019); https://doi.org/10.1063/0.5134590
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2038 (2018)	Ň	activation using KOH and acetone from low density polyethylene (LDPE) wastes
2035 (2018)	~	Yuliusman Yuliusman, Mega Puspitasari and Azmia Rizka Nafisah
2036 (2018)	~	AIP Conference Proceedings <b>2175</b> , 020027 (2019); https://doi.org/10.1063/1.5134591
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2024 (2018)	~	Modification of low-density polyethylene
2022 (2018)	~	dioxide for carbon monoxide and
2028 (2018)	~	hydrocarbon adsorption Yuliusman, Mega Puspita Sari and Azmia Rizka Nafisah
2027 (2018)	~	AIP Conference Proceedings <b>2175</b> , 020028 (2019); https://doi.org/10.1063/1.5134592
2034 (2018)	~	
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2026 (2018)	~	
2025 (2018)	~	Secondary metabolite compound isolated
2032 (2018)	~	from the leaves of <i>Macaranga magna</i> Turrill
2023 (2018)	~	AIP Conference Proceedings 2175, 020029 (2019); https://doi.org/10.1063/1.512453
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2013 (2018)	~	No Access . November 2019 The effect of drying methods on chemical
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2018 (2018)	~	Woro Setiaboma, Dita Kristanti and Ainia Herminiati
2016 (2018)	~	AIP Conference Proceedings <b>2175</b> , 020030 (2019); https://doi.org/10.1063/1.5134594
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2011 (2018)	~	No Access . November 2019

2012 (2018)	~	Freeze-uneu chitosan matrices for slow-
2010 (2018)	~	release of acetogenins extracted from soursop ( <i>Annona muricata L</i> .) leaves
2008 (2018)	<b>~</b>	Kamarza Mulia, Farah Fauzia and Elsa Krisanti
2000 (2010)		AIP Conference Proceedings 2175, 020031 (2019); https://doi.org/10.1063/1.5134595
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2006 (2018)	~	A No Access November 2019
2004 (2018)	~	A TGA-DSC of the thermal decomposition
2005 (2018)	~	Cu-Mg catalyst precursor with various compositions
2001 (2018)	~	Hendriyana and Lulu Nurdini
2002 (2018)	~	AIP Conference Proceedings <b>2175</b> , 020032 (2019); https://doi.org/10.1063/1.5134596
1999 (2018)	~	
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1997 (2018)	~	The plant defence inducer activity of Anacardium occidentale Linn, Azadiracta
1998 (2018)	~	indica A. Juss. and Zingiber officinale Rose
1992 (2018)	~	extracts against <i>Cowpea mild mottle virus</i> infecting soybean
1996 (2018)	~	Wuye Ria Andayanie, Praptiningsih G. Adinurani, Wahidin Nuriana and Ne Ermawaty
1994 (2018)	~	AIP Conference Proceedings <b>2175</b> , 020033 (2019); https://doi.org/10.1063/1.5134597
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#### No Access . November 2019

#### Moisture effective diffusivity in Kepok Kuning banana (*Musa paradisiacal formatypica*) during convective drying by considering its shrinkage phenomenon

Teuku Beuna Bardant, Arief Amier Rahman Setiawan, Rakhman Sarwono and Sri Reny Dewi Safitri

AIP Conference Proceedings 2175, 020037 (2019); https://doi.org/10.1063/1.5134601

SHOW ABSTRACT

No Access . November 2019

#### Performance evaluation and operation cost analysis of electrolytes application in electrocoagulation process applied to peat wastewater treatment

Ajeng Arum Sari, Nandar Suwanto, Adelia Anju Asmara, Novita Ariani, Arief A. R. Setiawan, Joko Waluyo, Muryanto and Sudarno

AIP Conference Proceedings **2175**, 020038 (2019); https://doi.org/10.1063/1.5134602

SHOW ABSTRACT

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#### No Access . November 2019

#### Antifungal activity of essential oil from root bark of sintok wood (*Cinnamomum sintoc* Blume) against *Pleurotus ostreatus*

Renhart Jemi, Nuwa and Elitha Octaviani AIP Conference Proceedings **2175**, 020039 (2019); https://doi.org/10.1063/1.5134603

#### No Access . November 2019

SHOW ABSTRACT

Formulation and characterization of betaine-based deep eutectic solvent for extraction phenolic compound from spent coffee grounds

Elsa Anisa Krisanti, Kelvin Saputra, Muhammad Maula Arif and Kamarza Mulia AlP Conference Proceedings 2175, 020040 (2019);

https://doi.org/10.1063/1.5134604

#### No Access . November 2019

SHOW ABSTRACT

#### Optimization of palmitic acid extraction from palm oil with betaine-based natural deep eutectic solvent using response surface methodology

Kamarza Mulia, Elgusta Masanari, Ida Zahrina, Bambang Susanto and Elsa Anisa Krisanti

AIP Conference Proceedings **2175**, 020041 (2019); https://doi.org/10.1063/1.5134605

SHOW ABSTRACT

No Access . November 2019

In vitro release study of sambiloto (*Andrographis paniculata*) extract

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### Muhamad Sahlan, Katerina Evelyn, Diah Kartika Pratami and Kamarza Mulia AIP Conference Proceedings 2175, 020042 (2019); https://doi.org/10.1063/1.5134606 SHOW ABSTRACT : No Access . November 2019 The use of ammonia-elphidium (A-E) index in Jakarta Bay and Semarang coastal waters, Indonesia Ricky Rositasari, Rachma Puspitasari, Suratno and Triyoni Purbonegoro AIP Conference Proceedings 2175, 020043 (2019); https://doi.org/10.1063/1.5134607 : SHOW ABSTRACT B No Access . November 2019 Synthesis of CuO-TiO<sub>2</sub> nano-composite for formaldehyde degradation application Jessica Farah, Muhammad Ibadurrohman and Slamet AIP Conference Proceedings 2175, 020044 (2019); https://doi.org/10.1063/1.5134608 SHOW ABSTRACT : 🔒 No Access . November 2019 Modified cassava flour (mocaf) wastewater treatment using electrocoagulation reactor Muryanto Muryanto, Ishmar Balda, Eka Mardika Handayani and Ajeng Arum Sari AIP Conference Proceedings 2175, 020045 (2019); https://doi.org/10.1063/1.5134609 SHOW ABSTRACT : lo Access . November 2019 **Reduction of beta-carotene with thermal** activated bentonite in Illipe butter from Nanga Yen, Kalimantan Barat Bagas Zaki Muhammad, Muhammad Arif Darmawan and Misri Gozan AIP Conference Proceedings 2175. 020046 (2019): https://doi.org/10.1063/1.5134610 SHOW ABSTRACT ÷ No Access . November 2019 The material origin of the particulate organic matter (POM) in the Eastern Indonesian waters A'an J. Wahyudi, Hanny Meirinawati, Hanif B. Prayitno, Suratno, Dewi Surinati and Udhi E. Hernawan AIP Conference Proceedings 2175, 020047 (2019); https://doi.org/10.1063/1.5134611 SHOW ABSTRACT :

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diabetic herbal drug

No Access . November 2019

1894 (2017)	~	Bioconversion of quercetin glucosides from Dendrophthoe pentandra leaf using Asperaillus accuelatus I SO4-3
1892 (2017)	~	Asperginus acueretus LSO4-5 Rizna Triana Dewi, Yasmin Ekapratiwi, Andini Sundowo, Novita Ariani, Tria
1895 (2017)	~	Yolanda and Euis Filaila AIP Conference Proceedings 2175, 020048 (2019);
1890 (2017)	~	https://doi.org/10.1063/1.5134612
1891 (2017)	~	SHOW ABSTRACT :
1887 (2017)	~	
1882 (2017)	~	Do Access . November 2019
1886 (2017)	~	Selective betalain impregnation from red amaranth extract onto titanium dioxide
1885 (2017)	~	nanoparticles
1889 (2017)	~	Yehezkiel Steven Kurniawan, Kristine Anggraeni, Renny Indrawati and Leny Yuliati
1888 (2017)	~	AIP Conference Proceedings <b>2175</b> , 020049 (2019); https://doi.org/10.1063/1.5134613
1878 (2017)	~	
1883 (2017)	~	SHOW ABSTRACT :
1874 (2017)	~	A No Access November 2019
		Effect of maltodextrin concentration on the
1884 (2017)	<b>`</b>	characteristic of phycocyanin powder as a functional food
1880 (2017)	~	Siti Agustina, Novi Nur Aidha and Eva Oktarina
1877 (2017)	~	AIP Conference Proceedings <b>2175</b> , 020050 (2019); https://doi.org/10.1063/1.5134614
1881 (2017)	~	
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1879 (2017)	~	0
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1876 (2017)	~	The effect of bleaching treatment on the
1876 (2017) 1871 (2017)	~ ~	The effect of bleaching treatment on the mechanical strength of PP-Kenaf composite
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	~	No Access . November 2019
1854 (2017)	~	Method development for determination of trace organochlorine pesticides residues in
1851 (2017)	~	a water matrix by using gas chromatography mass spectrometry (GCMS)
1855 (2017)	~	method Dillani Putri Ramadhaningtyas and Nurhani Aryana
1856 (2017)	~	AIP Conference Proceedings 2175, 020054 (2019); https://doi.org/10.1063/1.5134618
1853 (2017)	~	
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1849 (2017)	~	<b>A</b>
1841 (2017)	~	Synthesis and characterization of modified
1848 (2017)	~	marine algal biomass using zero-valent iron (ZVI) particle for Cd and Pb removal
1840 (2017)	~	Fitri Budiyanto, Ajeng Arum Sari, Lestari, Sandi Permadi, Asep Bayu, Harmesa and Deny Yoqaswara
1847 (2017)	~	AIP Conference Proceedings <b>2175</b> , 020055 (2019); https://doi.org/10.1063/1.5134619
1832 (2017)	~	
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1844 (2017)	~	A No Access November 2019
1842 (2017)	~	Bioremediation of oil-contaminated
1845 (2017)	~	sediment by hydrocarbonoclastic bacterial consortium immobilized in different types of
1839 (2017)	~	<b>Carrier</b>
1843 (2017)	~	AlP Conference Proceedings 275, 020056 (2019);
1838 (2017)	~	nttps:// doi.org/10.1065/1.5154620
1837 (2017)	~	SHOW ABSTRACT :
1834 (2017)	~	
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1075 (2017)	~	activator to the characteristics of melinjo shell (Gnetum genom) activated carbon
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1835 (2017)         1833 (2017)         1831 (2017)         1828 (2017)         1829 (2017)         1827 (2017)         1826 (2017)         1825 (2017)         1825 (2017)         1820 (2017)         1820 (2017)         1821 (2017)         1820 (2017)         1820 (2017)         1820 (2017)         1838 (2017)         1818 (2017)		Apriliana Dwijayanti, Safril Kartika and Yuliusman AIP Conference Proceedings 2175, 020057 (2019); https://doi.org/10.1063/1.5134621 SHOW ABSTRACT : The effect of chitosan into paper properties in papermaking Muryeti, Faraqh Eka Pratiwi, Risqi Tri Yuniastuti and Estuti Budimulyani AIP Conference Proceedings 2175, 020058 (2019); https://doi.org/10.1063/1.5134622 SHOW ABSTRACT : SHOW ABSTRACT : SHOW ABSTRACT : SHOW ABSTRACT : SHOW ABSTRACT : SHOW ABSTRACT : SHOW ABSTRACT :
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1778 (2016)	~	Nuryatini Hami Yosi Aristiawan
1782 (2016)	~	AIP Conference https://doi.org

🔒 No Access . November 2019
Crystalinity index evaluation of
Dondrocolumus asperfibers through
Denarocalumus asper libers through
variation of chemical treatment
E. Yuanita, Ismojo, H. K. Adi and M. Chalid
AIP Conference Proceedings 2175, 020060 (2019);
https://doi.org/10.1063/1.5134624
SHOW ABSTRACT
🔒 No Access . November 2019
Comparison study on morphology and
comparison study on morphology and
mechanical properties of starch, lightin,
cellulose – based polyurethane foam
E. Kustiyah, D. A. Setiaji, I. A. Nursan, W. N. Syahidah and M. Chalid
AIP Conference Proceedings 2175, 020061 (2019);
https://doi.org/10.1063/1.5134625
SHOW ABSTRACT
🔒 No Access . November 2019
Selective ontical chemosensors of Ee <sup>3+</sup> ions
using 1 <i>H</i> -indolo_2 Z-diono
using In-Indole-2,5-dione
Muhammad Riza Ghulam Fahmi, Yehezkiel Steven Kurniawan, Leny Yuliati
and Hendrik O. Lintang
ALD Conference December 2175 020002 (2010)
Alp Conference Proceedings 2175, 020062 (2019);
All Conterence Proceedings 2175, 020062 (2019); https://doi.org/10.1063/1.5134626
All Conterence Proceedings 2175, 020062 (2019); https://doi.org/10.1063/1.5134626
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Certified reference materials for calibration of conductivity meter at the measuring of electrolytic conductivity in water: Preparation and its measurement

Nuryatini Hamim, Fransiska Sri Herwahyu Krismastuti, Ayu Hindayani and Yosi Aristiawan

AIP Conference Proceedings 2175, 020065 (2019);

https://doi.org/10.1063/1.5134629

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No Access - November 2019 Concentration, spatial distribution, and source apportionment of polycyclic aromatic hydrocarbons (PAHs) in marine surface sediments from Cirebon coastal water, West Java, Indonesia

Khozanah, Deny Yogaswara, Ita Wulandari, Edward, Dwi Hindarti and Dede Falahudin

AIP Conference Proceedings **2175**, 020066 (2019); https://doi.org/10.1063/1.5134630

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## Charge analysis of monomer hydrogenated graphene

Gagus Ketut Sunnardianto

AIP Conference Proceedings 2175, 020067 (2019); https://doi.org/10.1063/1.5134631

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No Access . November 2019

#### Synthesis hybrid bio-polyurethane foam from biomass material

Achmad Nandang Roziafanto, Made Subekti Dwijaya, Rima Yunita, Majid Amrullah and Mochamad Chalid

AIP Conference Proceedings **2175**, 020068 (2019); https://doi.org/10.1063/1.5134632

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#### No Access . November 2019

Supplementation of ginger and cinnamon extract into goat milk kefir

Fitri Setiyoningrum, Gunawan Priadi and Fifi Afiati AIP Conference Proceedings 2175, 020069 (2019);

https://doi.org/10.1063/1.5134633

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#### No Access . November 2019

#### Sol-gel method for synthesis of Li<sup>+</sup>stabilized Na- $\beta$ "-alumina for solid electrolytes in sodium-based batteries

Anisa I. Agustina, Karl Skadell, Cornelius L. Dirksen, Matthias Schulz and Samuel P. Kusumocahyo

AIP Conference Proceedings **2175**, 020070 (2019); https://doi.org/10.1063/1.5134634

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#### No Access . November 2019

Effect of reaction temperature and sodium tripolyphosphate (STPP)/ starch ratio on phosphorylation of sweet potato (*Ipomoea batatas* L.) starch

Asaf Kleopas Sugih, Amelia Dewi, Devina Yukano and Henky Muljana

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#### AIP Conference Proceedings **2175**, 020071 (2019); https://doi.org/10.1063/1.5134635

SHOW ABSTRACT

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## Effect of hydrogen gas pressure on biofuel characteristics in hydrogenation reaction of non-oxygenated fraction of bio-oil

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Dijan Supramono, Elizabeth Verdiana Listiono and Mohammad Nasikin
AIP Conference Proceedings 2175. 020072 (2019):

SHOW ABSTRACT

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https://doi.org/10.1063/1.5134636

#### Combination of ozone, H<sub>2</sub>O<sub>2</sub>, and adsorption using granular activated carbon for shampoo synthetic wastewater treatment

Fidelis Ayodya Amba, Natasha Vidi Salsabila and Eva Fathul Karamah AIP Conference Proceedings 2175, 020073 (2019);

https://doi.org/10.1063/1.5134637

SHOW ABSTRACT

#### No Access . November 2019

#### Synthetic shampoo liquid waste treatment with ozonation: Case study with peroxone and activated carbon

Natasha Vidi Salsabila, Fidelis Ayodya Amba, Eva Fathul Karamah and Setijo Bismo

AIP Conference Proceedings **2175**, 020074 (2019); https://doi.org/10.1063/1.5134638

SHOW ABSTRACT

No Access . November 2019

## Cellulose triacetate synthesis from empty fruit bunches of oil palm's cellulose

Aniek Sri Handayani, Chrisvynlia, Theo Doohan, Marcelinus Christwardana and Enjarlis AlP Conference Proceedings 2175, 020075 (2019); https://doi.org/10.1063/1.5134639

SHOW ABSTRACT

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#### No Access . November 2019

#### Effect of stirring speed on characteristics of biofuel in catalytic hydrogenation of nonoxygenated bio-oil

Dijan Supramono, Billi and Mohammad Nasikin AIP Conference Proceedings 2175, 020076 (2019); https://doi.org/10.1063/1.5134640

#### No Access . November 2019

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Modification of synthetic carpet using chitosan-titania nanocomposite for self-cleaning purposes

1000 (2015)		Mohamad Iman Sulaeman, Muhammad Ibadurrohman and Slamet
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1699 (2015)	×	
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1692 (2015)	×	Formulation and evaluation of serum from
1095 (2015)	•	aging base material
1693 (2015)	~	Melati Septiyanti, Lilis Liana, Sutriningsih, Bayu Kumayanjati and Yenny Meliana
1691 (2015)	~	AIP Conference Proceedings <b>2175</b> , 020078 (2019); https://doi.org/10.1063/1.5134642
1689 (2015)	~	
1694 (2015)	~	SHOW ABSTRACT :
1687 (2015)	~	_
1690 (2015)	~	No Access . November 2019
1688 (2015)	~	strains for bioaugmentation on oil polluted
1686 (2015)	~	Yeti Darmayati and Lies Indah Sutiknowati
1685 (2015)	~	AIP Conference Proceedings <b>2175</b> , 020079 (2019); https://doi.org/10.1063/1.5134643
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1682 (2015)	~	Do Access . November 2019
1681 (2015)	~	The effect of calcination temperature on the
1680 (2015)	~	synthesis of magnetic silica nanoparticles from geothermal sludge
1677 (2015)	~	Windi Azizah Fitri, Lien Sururoh and S. N Aisyiyah Jenie
1677 (2015) 1679 (2015)	* *	Windi Azizah Fitri, Lien Sururoh and S. N Alsyiyah Jenie AIP Conference Proceedings 2175, 020080 (2019); https://doi.org/10.1063/1.5134644
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<ul> <li>1677 (2015)</li> <li>1678 (2015)</li> <li>1676 (2015)</li> <li>1675 (2015)</li> <li>1674 (2015)</li> <li>1673 (2015)</li> <li>1670 (2015)</li> <li>1670 (2015)</li> <li>1666 (2015)</li> <li>1668 (2015)</li> <li>1665 (2015)</li> <li>1667 (2015)</li> </ul>		Windi Azizah Fitri, Lien Sururoh and S. N Aisyiyah Janie AIP Conference Proceedings 2175, 020080 (2019); https://doi.org/10.1063/1.5134644 SHOW ABSTRACT :
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