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# JURNAL STRATEGI MENUJU BEREPUTASI INTERNASIONAL

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Disampaikan pada Webinar Jurnal menuju Reputasi Internasional yang diselenggarakan oleh Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Islam Indonesia, Yogyakarta

Surabaya, 13 Agustus 2022



# OUTLINE



**01** Overview terkait jurnal, Index dan syarat minimum scopus

**02** Percepatan Jurnal bereputasi internasional melalui strategi *top down*

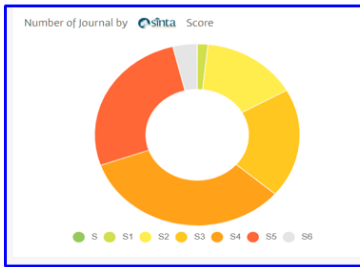
**03** Pre-Evaluation scopus dan Coaching Clinic pada Jurnal



# 1. Overview terkait jurnal, Index dan syarat minimum scopus



# Perkembangan Jurnal Ilmiah Nasional



S1	S2	S3	S4	S5	S6	TOTAL
99	910	1163	1992	1595	229	5988

Source 2021: <https://sinta.ristekbrin.go.id/>

4985 Journals  
indexed by SINTA

Data 6 Juni 2020

## 10 KAMPUS TERBAIK INDONESIA VERSI QS WORLD UNIVERSITY RANGKINGS 2022

- Universitas Gadjah Mada
- Universitas Indonesia
- Institute Teknologi Bandung
- Universitas Airlangga
- IPB University
- Institut Teknologi Sepuluh November
- Universitas Padjajaran
- Universitas Bina Nusantara
- Universitas Diponegoro
- Telkom University

### World University Rankings: Methodology

What information is collected, and how is this used to compile the ranking?

- 40%** Academic reputation: Based on a global survey of academics.
- 10%** Employer reputation: Based on a global survey of graduate employers.
- 20%** Faculty/student ratio: An indication of commitment to teaching.
- 20%** Citations per faculty: An indication of research impact.
- 5%** International student ratio: Measuring international diversity of the student community.
- 5%** International staff ratio: Measuring international diversity of the academic faculty.

Country	Rankings
Indonesia	17
Other	28
Other	5
Other	20
Other	26
Other	1953
Other	483
Other	57
Other	1.849
Other	848
Other	7.817

Grand Total	4.754.894	239.625	21.638	33.298	5.307	8.084	267	7.817
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peringkat  
pada Dunia

sehingga butuh wadah



# Ada 3 kriteria strategi menuju terindeks scopus

## 1. Kriteria non technical

1. **Mindset**
2. **Commitment**
3. **Superteam not Superman**
4. **Awareness**
5. **Scopus target**
6. **Routine Meeting**

## 2. Memenuhi syarat minimum

1. Memenuhi 16 Prinsip Best Practice yang dikehendaki DOAJ pada Jurnal Ilmiah
2. Memenuhi syarat diatas 90 persen Pre-evaluation of Scopus submission

## 3. kriteria technical

1. Geographical diversity of Editor/ Reviewer/ Author
2. International Conference
3. Academics Peer list and Guest lecturer
4. Update Jurnal melalui Komunitas Medsos dan Seminar
5. Apply In press dan in progress menuju publikasi regular
6. Colaboration author
7. Modifikasi Policy of journal pada jurnal sebidang

# Roadmap to Scopus

The screenshot shows the ARJUNA system interface with a sidebar menu and a main content area displaying submission schedules for two issues of 'JURNAL ILMIAH PERIKANAN DAN KELAUTAN (JIPK)'. Issue 1 (Mar 2021) shows a timeline from submission to publication. Issue 2 (Feb 2019) shows a similar timeline, including accreditation steps.

Start issue  
01-04-18

Submitted: 08-02-19  
Accepted: 27-08-19

Submitted: 17-06-19  
Accepted: 29-07-19

Submitted: 08-02-18  
Rejected: 08-09-18

Submitted: 30-10-20  
Accepted: 07-12-20

The diagram illustrates the Scopus Title Evaluation Tracking process. A vertical timeline shows stages: Submission Received (30-Sep-2020), Validated, Enrichment completed, Ready to be released to CSAS, Under review by the CSAB, and Review complete (07-Dec-2020). A large blue circle highlights the period from 'Validated' to 'Ready to be released to CSAS', labeled '2 bulan 7 hari'.

The screenshot shows the journal's website with the cover of 'VOL 10, NO 1 (2018): JURNAL ILMIAH PERIKANAN DAN KELAUTAN' highlighted with a red box. The website includes navigation links, contact information, and a list of editorial members.



The screenshot shows the DOAJ website for 'Jurnal Ilmiah Perikanan dan Kelautan JIPK'. It provides details such as ISSN (2085-5842), a website link, and information about publication fees (70 USD) and open access policies.





# Istilah dalam Jurnal

1. Jurnal: terbitan berkala ilmiah
2. Manuscript : naskah yang akan diterbitkan di jurnal ilmiah
3. Artikel: naskah yang telah terbit di jurnal ilmiah
4. Jurnal nasional: ditulis, dievaluasi dan diedarkan secara nasional
5. Jurnal internasional : ditulis, dievaluasi dan diedarkan secara internasional dan minimal terindeks Scopus atau Thomson Reuters
6. Scopus adalah sebuah pangkalan data pustaka yang menindeks abstrak dan sitasi artikel jurnal ilmiah yang dimiliki oleh penerbit terkemuka dunia, Elsevier
7. Jurnal internasional Bereputasi: terindeks Scopus dan mempunyai Impact Factor Scimago, Journal Ranking (SJR) minimal 0,100

# Pembagian Lembaga Pengindeks (Berdasar Aturan Akreditasi)

## Rendah

- Google Scholar, ISJD, IPI, World Cat, Moraref dan yang setara.
- Tidak menggunakan kualifikasi tertentu agar bisa terindeks

## Menengah

- DOAJ, REPEC. ERIC, PubMed, EBSCO, Web of Science (ESCI) dan yang setara,
- Memerlukan seleksi kebijakan dan seleksi formal lainnya

## Tinggi

- SCOPUS. Web of Science (SSCI, SCIE), dan yang setara
- Memerlukan seleksi konten dan kebijakan jurnal



# Level Jurnal Internasional Berdasarkan Pemerintah

## Jurnal Internasional

- Ber-ISSN
- Penulis min. 2 negara berbeda setiap terbit
- Editor dan Reviewer berbagai Negara
- Berbahasa PBB
- Terindeks di Lembaga Pengindeks Menengah atau Tinggi

## Jurnal Internasional Bereputasi

- Ber-ISSN
- Penulis min. 2 negara berbeda setiap terbit
- Editor dan Reviewer berbagai Negara
- Berbahasa PBB
- Terindeks di Lembaga Pengindeks Tinggi
- Memiliki **Faktor Dampak**

# 16 Principles of Transparency & Best Practice in Scholarly Publishing (3<sup>rd</sup> Version)

1. Website
2. Name of Journal
3. Peer review process
4. Ownership and management
5. Governing body
6. Editorial team/  
contact information
7. Copyright and Licensing
8. Author fees
9. Process for identification of  
and dealing with  
allegations of research  
misconduct
10. Publication Ethics
11. Publishing schedule
12. Access
13. Archiving
14. Revenue sources
15. Advertising
16. Direct marketing



# “International” Journal (Global Perspective)



## SCOPUS

<https://www.elsevier.com/solutions/scopus/content/content-policy-and-selection>

### Journal Policy

- Convincing editorial concept/policy
- Type of peer-review
- Diversity geographic distribution of editors
- Diversity geographic distribution of authors

### Quality of Content

- Academic contribution to the field
- Clarity of abstracts
- Quality and conformity with stated aims & scope
- Readability of articles

### Journal Standing

- Citedness of journal articles in Scopus
- Editor standing

### Regularity

- No delay in publication schedule

### Online Availability

- Content available online
- English-language journal home page
- Quality of home page

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<http://suggestor.step.scopus.com/suggestTitle/step1.cfm>

# Independent Content Selection Advisory Board (CSAB)



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Canada  
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CSAB Chair – *Law, Crime, Criminology and*



**Professor Chris van Kessel**  
University of California  
USA  
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# PERKIRAAN BOBOT

## SCOPUS SELECTION PARAMETERS

### 1. JOURNAL POLICY (35%)

- Convincing Editorial Concept/Policy
- Diversity in Geographical Distribution of Editors
- Diversity in Geographical Distribution of Authors
- All cited References in Roman script?
- English language abstract is available?
- Level/Type of Peer Review Process

### 2. CITEDNESS (25%)

- Citedness of journal articles in Scopus
- Citedness of Editors in Scopus (Editor Standing)

### 4. ONLINE AVAILABILITY (10%)

- Content available online?
- English language homepage available?
- Quality of Journal Homepage

### 3. CONTENT (20%)

- Academic Contribution to Field
- Clarity of Abstract
- Conformity Abstract with journal aims & scope stated
- Readability of articles

### 5. REGULARITY (10%)

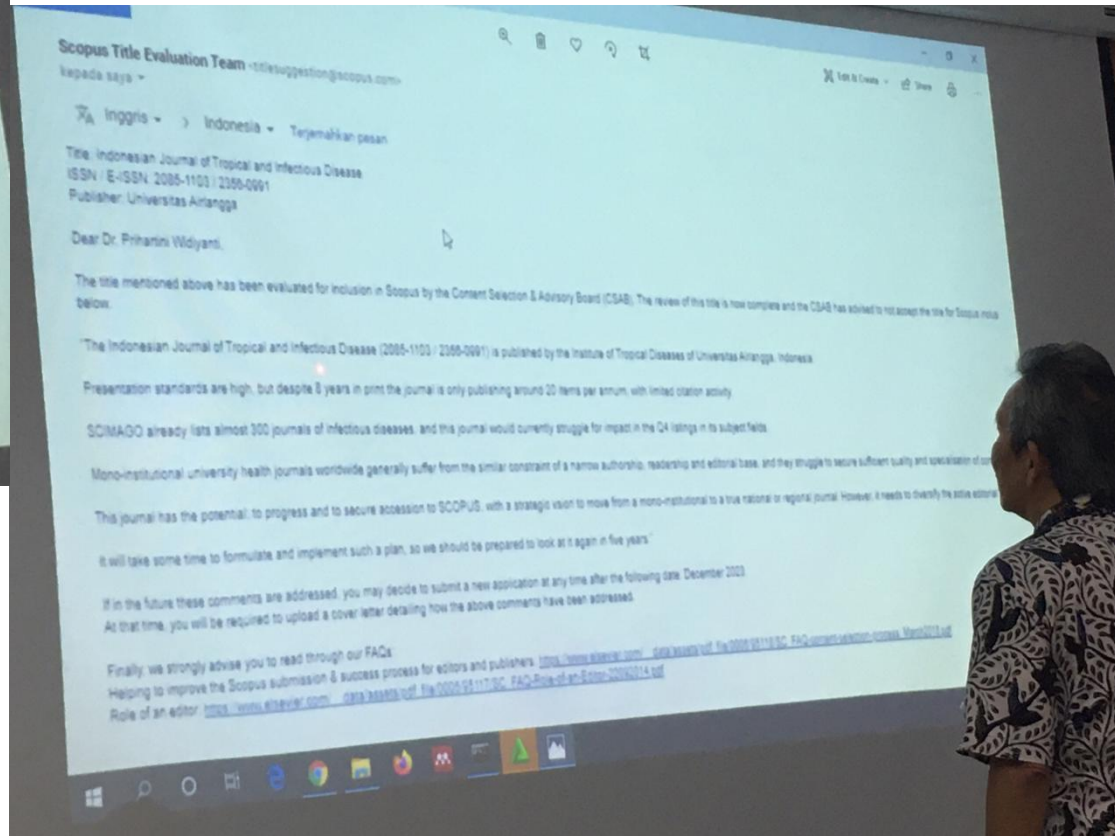
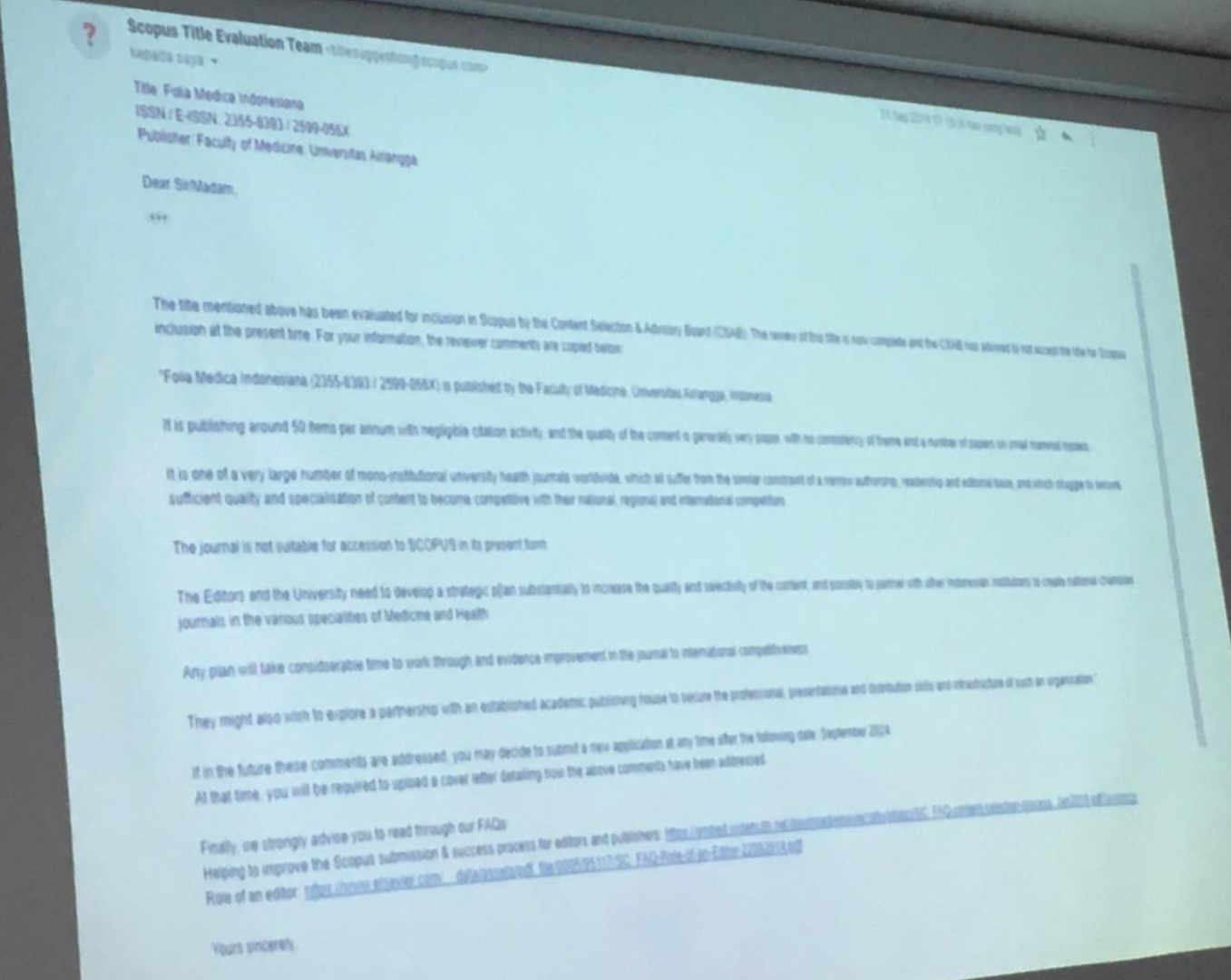
- No delay or interruptions in publication schedule



ELSEVIER

Scopus

# Embargo 2-3 tahun



<b>Journal policy</b>	<ul style="list-style-type: none"><li>• Convincing editorial policy</li><li>• Type of peer review</li><li>• Diversity in geographical distribution of editors &lt;&lt; PALING SUSAH 1</li><li>• Diversity in geographical distribution of authors &lt;&lt; PALING SUSAH 2</li></ul>
<b>Quality of content</b>	<ul style="list-style-type: none"><li>• Academic contribution to the field</li><li>• Clarity of abstracts</li><li>• Quality and conformity with stated aims &amp; scope</li><li>• Readability of articles</li></ul>
<b>Journal standing</b>	<ul style="list-style-type: none"><li>• Citedness of journal articles in Scopus ,&lt;&lt;&lt; PALING SUSAH 3</li><li>• Editor standing</li></ul>
<b>Regularity</b>	<ul style="list-style-type: none"><li>● No delays or interruptions in the publication schedule</li></ul>
<b>Online availability</b>	<ul style="list-style-type: none"><li>• Full journal content available online</li><li>• English language journal home page available</li><li>• Quality of journal home page</li></ul>



# MINIMUM SCOPUS SELECTION CRITERIA (Eligibility Criteria)

1. The title should publish peer-reviewed content and have a publicly available description of the peer review process
  2. The title should be published on a regular basis (have a ISSN number / the International ISSN Centre)
  3. The content should be relevant and readable for an international audience (English language of abstracts and article titles)
  4. The journal should have references in Roman script
  5. The journal should have a publication ethics and publication malpractice statement
- Additionally: journal needs to have a publication history of at least two years before it can be reviewed for Scopus coverage
  - Please note that the full-text of titles covered in Scopus can be in any language as long as the title, abstracts and keywords are in English. Currently journals that have full-text content in 40 different languages are covered in Scopus.

# Aspek Manajemen memiliki prosentase tertinggi



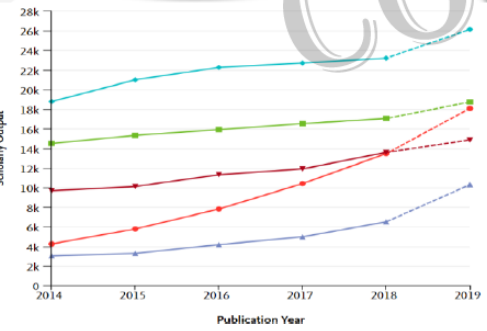
## STANDAR MUTU JURNAL ILMIAH



Nasional (Akreditasi)



Standar Mutu Jurnal Ilmiah



Internasional (Indeksasi: Scopus/ Web of Science)

- Minimum criteria**
- Peer-review
  - English abstracts
  - Regular publication
  - References in Roman script
  - Publication ethics statement

Bagian	Unsur Penilaian	Skor/ Bobot
A	PENAMAAN TERBITAN BERKALA ILMIAH	3
B	KELEMBAGAAN PENERBIT	4
C	PENYUNTINGAN DAN MANAJEMEN PENGELOLAAN TERBITAN	17
D	SUBSTANSI ARTIKEL	39
E	GAYA PENULISAN	12
F	PENAMPILAN	8
G	KEBERKALAAN	6
H	PENYEBARLUASAN	11
	<b>JUMLAH</b>	<b>100</b>

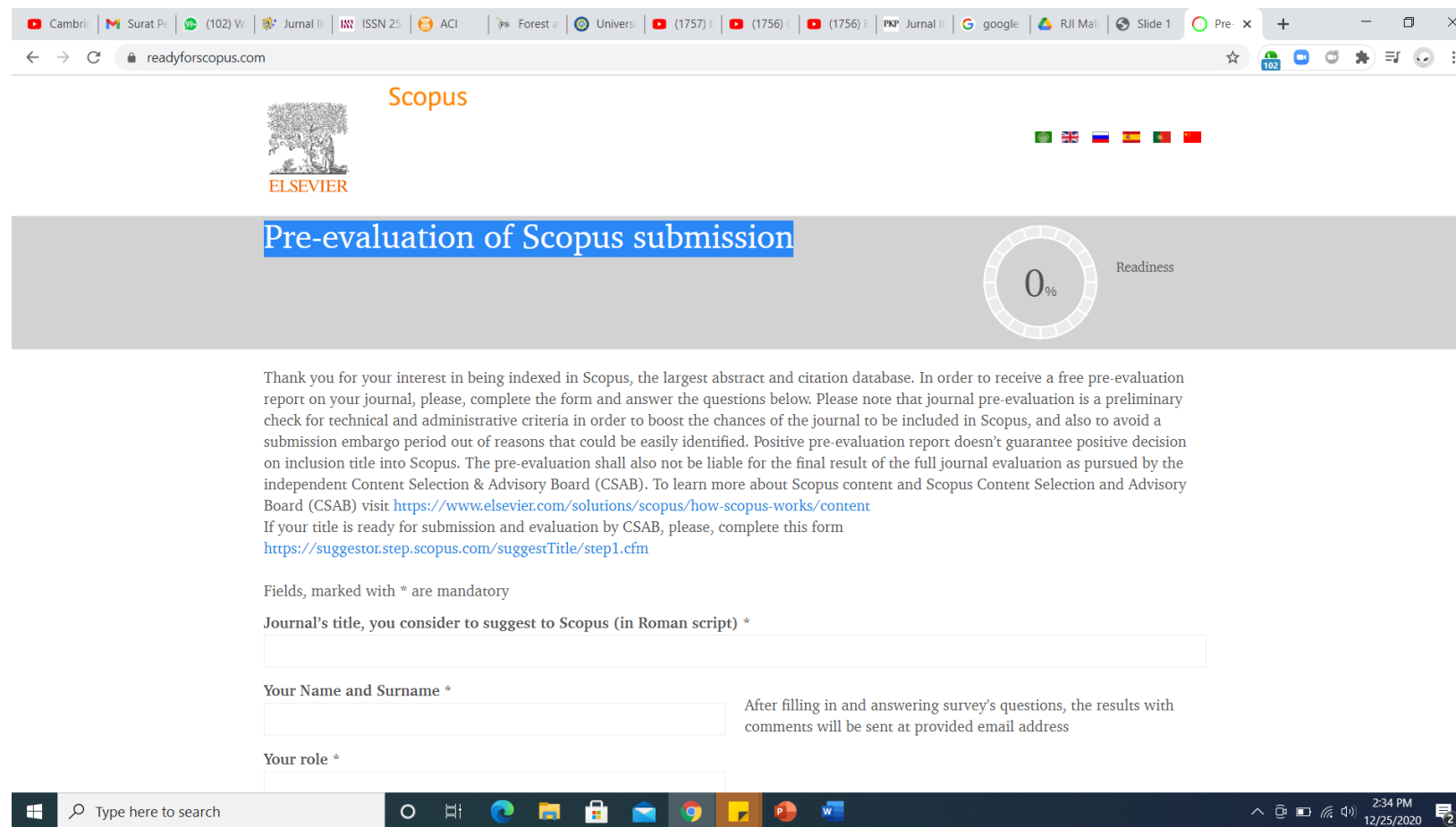
<b>Journal policy</b>	<ul style="list-style-type: none"> <li>Convincing editorial concept/policy</li> <li>Level of peer-review</li> <li>Diversity in geographic distribution of editors</li> <li>Diversity in geographic distribution of authors</li> </ul>
<b>Quality of content</b>	<ul style="list-style-type: none"> <li>Academic contribution to the field</li> <li>Clarity of abstracts</li> <li>Quality and conformity with stated aims &amp; scope</li> <li>Readability of articles</li> </ul>
<b>Journal standing</b>	<ul style="list-style-type: none"> <li>Citedness of journal articles in Scopus</li> <li>Editor standing</li> </ul>
<b>Regularity</b>	<ul style="list-style-type: none"> <li>No delay in publication schedule</li> </ul>
<b>Online availability</b>	<ul style="list-style-type: none"> <li>Content available online</li> <li>English-language journal home page</li> <li>Quality of home page</li> </ul>

Evaluation of Sinta	Management aspects	Article content Aspects
	51 %	49 %

Evaluation of Scopus	Management aspects	Article content Aspects
	83 %	17 %

# Pre-evaluation of Scopus submission

- <https://www.readyforscopus.com/>



The screenshot shows a web browser window with the URL [readyforscopus.com](https://www.readyforscopus.com/). The page features the Elsevier logo and the Scopus logo. A prominent blue banner reads "Pre-evaluation of Scopus submission". To the right of the banner is a circular progress indicator showing 0% readiness. Below the banner, there is a paragraph of text explaining the pre-evaluation process and providing a link to the CSAB website. The form below includes fields for "Journal's title, you consider to suggest to Scopus (in Roman script) \*", "Your Name and Surname \*", and "Your role \*". A note states: "After filling in and answering survey's questions, the results with comments will be sent at provided email address".

Scopus

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Pre-evaluation of Scopus submission

0% Readiness

Thank you for your interest in being indexed in Scopus, the largest abstract and citation database. In order to receive a free pre-evaluation report on your journal, please, complete the form and answer the questions below. Please note that journal pre-evaluation is a preliminary check for technical and administrative criteria in order to boost the chances of the journal to be included in Scopus, and also to avoid a submission embargo period out of reasons that could be easily identified. Positive pre-evaluation report doesn't guarantee positive decision on inclusion title into Scopus. The pre-evaluation shall also not be liable for the final result of the full journal evaluation as pursued by the independent Content Selection & Advisory Board (CSAB). To learn more about Scopus content and Scopus Content Selection and Advisory Board (CSAB) visit <https://www.elsevier.com/solutions/scopus/how-scopus-works/content>  
If your title is ready for submission and evaluation by CSAB, please, complete this form <https://suggestor.step.scopus.com/suggestTitle/step1.cfm>

Fields, marked with \* are mandatory

Journal's title, you consider to suggest to Scopus (in Roman script) \*

Your Name and Surname \*

Your role \*

After filling in and answering survey's questions, the results with comments will be sent at provided email address



# Pre Evaluation of Scopus Submission

- Scopus Criteria 1: The Journal has a minimum of 2-year publication history
- Scopus Criteria 2: Journal has a unique title, not identical to one we already index in Scopus
- Scopus Criteria 3: The journal is peer-reviewed
- Scopus Criteria 4: Abstracts, titles, and keywords are in English; authors – in Roman script
- Scopus Criteria 5: References are presented in Roman script
- Scopus Criteria 6: Journal is published regularly and per publishing schedule
- Scopus Criteria 7: Ethics and malpractice statement is available at journal's website
- Scopus Criteria 8: Journal has ISSN and/or e-ISSN/ISSN-L
- Scopus Criteria 9: Journal has dedicated website in English
- Scopus Criteria 10: Guide for authors are available in English at journal's website
- Scopus Criteria 11: Aims and Scope are available at journal's website
- Scopus Criteria 12: Geographical diversity
- Scopus Criteria 13: Journal's documents are cited by Scopus sources
- Scopus Criteria 14: Journal's Editors are experts in subject area, covered by the journal
- Scopus Criteria 15: Journal has DOI

There are 16 key criteria to be indexed in Scopus - 83% of the criteria are **management aspects** and 17% are **article content aspects**

**Management  
Aspects 1-15 (83%)**

**Content Quality  
Aspects 16 (17%)**

- Scopus Criteria 16: Content quality
  - 16.1 The journal consistently publishes articles that are scientifically sound & relevant to an international academic or professional audience in this field
  - 16.2 The content of the articles is consistent with the stated scope and aims of the journal and consistently of high academic quality
  - 16.3 Tables and figures in articles are clear and well configured within article content (are not just copied-pasted from Excel)
  - 16.4 The language and grammar of articles are good. Content of the articles is logically structured, easily readable and understandable
  - 16.5 The abstracts are clear, easily readable and provide an excellent comprehensive summary of the article of sufficient length

# HOW IMPORTANT IS THE TITLE OF THE JOURNAL?

- The **title/name of journal** denotes clearly the **links to the aims and scope** of the journal and the expected content
- If setting up a new journal with an appropriate name, it is very important to check for **journals with similar names**, in order to ensure that there is no confusion with these and your own in the major databases.

# Daftar Jurnal yang accepted Scopus hanya 1 bulan

<a href="http://www.goodlingua.com/">http://www.goodlingua.com/</a>					<a href="http://www.goodlingua.com/">http://www.goodlingua.com/</a>
Nama Jurnal	Q	APC	H	Negara	Bidang Ilmu
A Z ITU Journal of Faculty of Architecture	Q1	-	7	Turkey	Visual Arts and Performing Arts (Q1); Architecture (Q2); Urban Studies (Q3); Civil and Structural Engineering (Q4)
Acta Ethnographica Hungarica	Q2	€900	6	Hungary	Music (Q2); Cultural Studies (Q3); Demography (Q4)
Actuators	Q2	1600 CHF	20	Switzerland	Control and Systems Engineering (Q2); Control and Optimization (Q3)
Annals of Actuarial Science	Q2	-	5	United Kingdom	Economics and Econometrics (Q2); Statistics and Probability (Q3); Statistics, Probability and Uncertainty (Q3)
Accounting and the Public Interest	Q3	-	10	United States	Accounting (Q3)
Agriculture and Forestry	Q3	-	4	Montenegro	Nature and Landscape Conservation (Q3); Agronomy and Crop Science (Q4); Food Science (Q4); Forestry (Q4); Plant Science (Q4); Soil Science (Q4)
AIMS Environmental Science	Q3	-	4	United States	Environmental Science (miscellaneous) (Q3)
China Ocean Engineering	Q3	-	-	United States	Mechanical Engineering (Q2); Ocean Engineering (Q2); Oceanography (Q3); Renewable Energy, Sustainability and the Environment (Q3)
International Journal of Electric and Hybrid Vehicles	Q3	-	-	United Kingdom	Automotive Engineering (Q3); Fuel Technology (Q3); Renewable Energy, Sustainability and the Environment (Q4)
International Journal of Renewable Energy Research	Q3	-	-	Turkey	Energy Engineering and Power Technology (Q3); Renewable Energy, Sustainability and the Environment (Q3)
Nukleonika	Q3	-	-	Poland	Instrumentation (Q3); Nuclear Energy and Engineering (Q3); Safety, Risk, Reliability and Quality (Q3); Waste Management and Disposal (Q3); Condensed Matter Physics (Q4)
Oil and Gas Science and Technology	Q3	FREE	-	France	Chemical Engineering (miscellaneous) (Q2); Energy Engineering and Power Technology (Q3); Fuel Technology (Q3)
Petroleum Chemistry	Q3	-	-	Russian Federation	Chemical Engineering (miscellaneous) (Q3); Chemistry (miscellaneous) (Q3); Energy Engineering and Power Technology (Q3); Fuel Technology (Q3); Geochemistry and Petrology (Q3)
Acta Crystallographica Section E: Crystallographic Communications	Q3	\$450	13	United Kingdom	Chemistry (miscellaneous) (Q3); Materials Science (miscellaneous) (Q3); Condensed Matter Physics (Q4)
Acta Crystallographica. Section C, Structural chemistry	Q3	\$1,600-\$3,600	17	United States	Condensed Matter Physics (Q3); Materials Chemistry (Q3); Medicine (miscellaneous) (Q3); Physical and Theoretical Chemistry (Q3); Inorganic Chemistry (Q4)
Acta Informatica Medica	Q3	€500	20	Bosnia and Herzegovina	Medicine (miscellaneous) (Q3)
Acta Metallurgica Slovaca	Q3	FREE	13	Slovakia	Metals and Alloys (Q3)
Acta Pharmaceutica Scientia	Q3	-	19	Turkey	Pharmaceutical Science (Q3)
Acta Scientiarum Mathematicarum	Q3	€240-€360, 0A	15	Hungary	Analysis (Q3); Applied Mathematics (Q3)
Hungarian Journal of Legal Studies	Q3	€900	3	Hungary	Law (Q3)
Pollack Periodica	Q3	€900	11	Hungary	Civil and Structural Engineering (Q3); Computer Science Applications (Q3); Materials Science (miscellaneous) (Q3); Modeling and Simulation (Q3); Software (Q3)
Society and Economy	Q3	€900	11	Hungary	Sociology and Political Science (Q3); Business and International Management (Q4); Economics, Econometrics and Finance (miscellaneous) (Q4); Industrial Relations (Q4); Public Administration (Q4)
Studia Slavica Academiae Scientiarum Hungaricae	Q3	€900	3	Hungary	History (Q3); Cultural Studies (Q4); Language and Linguistics (Q4); Linguistics and Language (Q4)
Style	Q3	€ 34,95	18	United States	Literature and Literary Theory (Q3)
Surface Engineering and Applied Electrochemistry	Q3	34,95 €	16	Russian Federation	Industrial and Manufacturing Engineering (Q3); Surfaces, Coatings and Films (Q3); Surfaces and Interfaces (Q4)
American Journal of Case Reports	Q3	USD 995	18	United States	Medicine (miscellaneous) (Q3)
International Journal of Cognitive Research in Science, Engineering and Technology	Q3	FREE	9	Serbia	Education (Q3); Cognitive Neuroscience (Q4); Experimental and Cognitive Psychology (Q4)
Computational Social Networks	Q3	€ 860.00/\$1195	12	Switzerland	Computer Science Applications (Q3); Human-Computer Interaction (Q3); Information Systems (Q3); Modeling and Simulation (Q3)
Egyptian Journal of Botany	Q3	FREE	3	Egypt	Biotechnology (Q3); Cell Biology (Q4); Ecology (Q4); Ecology, Evolution, Behavior and Systematics (Q4); Genetics (Q4); Plant Science (Q4)
Energia Elettrica	Q4	400-500 EUR	-	Italy	Civil and Structural Engineering (Q4); Electrical and Electronic Engineering (Q4); Energy Engineering and Power Technology (Q4)
Energy Engineering: Journal of the Association of Energy Engineers	Q4	600 USD	-	United States	Building and Construction (Q4); Energy Engineering and Power Technology (Q4); Renewable Energy, Sustainability and the Environment (Q4)
Journal of Applied Engineering Science	Q4	350 EUR	-	Serbia	Civil and Structural Engineering (Q3); Engineering (miscellaneous) (Q3); Mechanical Engineering (Q3); Safety, Risk, Reliability and Quality (Q3); Transportation (Q3); Renewable Energy, Sustainability and the Environment (Q4)
Journal of Nuclear Energy Science and Power Generation Technology	Q4	919 USD/5 pages (add page)	-	United Kingdom	Energy Engineering and Power Technology (Q4); Nuclear and High Energy Physics (Q4); Nuclear Energy and Engineering (Q4); Waste Management and Disposal (Q4)
Acta Bioethica	Q4	\$1,500	8	Chile	Health Policy (Q4); Health (social science) (Q4)
Acta Gastroenterologica Latinoamericana	Q4	FREE	17	Argentina	Gastroenterology (Q4)
Acta Haematologica Polonica	Q4	-	10	Poland	Hematology (Q4); Oncology (Q4)
Acta Medica Bulgarica	Q4	FREE	5	Germany	Medicine (miscellaneous) (Q4)
Acta Phlebologica	Q4	-	9	Italy	Cardiology and Cardiovascular Medicine (Q4)
Acta Physica Polonica B, Proceedings Supplement	Q4	-	20	Poland	Physics and Astronomy (miscellaneous) (Q4)
Acta Phytopathologica et Entomologica Hungarica	Q4	€900	20	Hungary	Insect Science (Q4); Plant Science (Q4)
Acta Stomatologica Naissi	Q4	-	8	Serbia	Dentistry (miscellaneous) (Q4)
Activitas Nervosa Superior Rediviva	Q4	-	9	Slovakia	Neuroscience (miscellaneous) (Q4)
Asia-Pacific Journal of Molecular Biology and Biotechnology	Q4	70 USD	19	Malaysia	Biotechnology (Q4); Molecular Biology (Q4)
Sustainability	Q4	-	-	United States	Education (Q3); Geography, Planning and Development (Q3); Management, Monitoring, Policy and Law (Q3); Renewable Energy, Sustainability and the Environment (Q4)
Baghdad Science Journal	Q4	\$150.00	6	Iraq	Agricultural and Biological Sciences (miscellaneous) (Q4); Biochemistry, Genetics and Molecular Biology (miscellaneous) (Q4); Chemistry (miscellaneous) (Q4); Computer Science (Q4)





ISSN PORTAL The Global Index for Continuing Resources

FREE ACCESS

ISSN :2528-0759  
Linking ISSN (ISSN-L): 2085-5842  
Cancelled ISSN-L: 2528-0759

Links  
URL: e-journal.unai...  
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## Research Article

### Fatty Acid Profiling of *Moina* sp. Preserved in Cryoprotective Agents at Low Temperature

Muhammad Fathi Sofian<sup>1</sup>, Hanan Yusuf<sup>2</sup>, Abu Hena Mustafa Kamal<sup>1</sup>, and Nurul Ulfah Karim<sup>1\*</sup>

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and the photoperiod was set at L:D=12:12 using triphosphor fluorescent lights with a light intensity of >2000 lux. Water quality parameters were monitored and measured using YSI meter (Professional Plus 13M100665, USA). The samples were collected using scoop net of mesh size 120 µm and immediately transferred into zip lock bag. Samples were subjected to 5, 10, and 15% of the cryoprotective agent; glycerol, ethylene glycol, and dimethyl sulfoxide before being stored at -40°C (Panasonic MDF-U5412 Biomedical Plasma Freezer, Malaysia) for 1-3 months. All samples were transported to Universiti Malaysia Terengganu for further analysis.

#### 2.2 Extraction of Total Lipid

Total lipids were extracted from the samples according to Airina and Jamaludin (2012) with a slight modification. Approximately 2.0±0.1 g of *Moina* sp. were added into the chloroform-methanol solvent (2:1 v/v) with ratio weight: solvent of 1:20. The samples were homogenized three times for 5 min at 7000-8000 rpm (IKA T18 Digital Ultra Turax, Germany). All samples were cooled at 4°C for 1 hour before being added with 4 ml of 0.034% MgCl<sub>2</sub> per g of samples. All samples were incubated overnight to separate the organic (containing the extracts of total lipids) and aqueous layers. The upper layer (aqueous) were discarded meanwhile the lower layer (organic) were rinsed with chloroform-methanol solvent (2:1 v/v). Evaporation of the lower phase demonstrated the total lipid fraction. The solvent was removed using a rotary evaporator under a vacuum at 40°C. These extracts, representing the total lipids, were weighed and dissolved once again in chloroform-methanol solvent (2:1 v/v). The total lipid was expressed as g 100 mg<sup>-1</sup>.

#### 2.3 Fatty Acid Analysis

Fatty acid analysis was performed by using two consecutive steps, (1) preparation of fatty acid methyl ester (FAME) and (2) chromatographic analysis.

##### 2.3.1 Fatty acid methyl ester (FAME) synthesis

Fatty acid methyl ester (FAME) was synthesized with the extraction-transesterification method described by Majid *et al.* (2003). Approximately 20±0.1 mg of samples were added into the solution mixture of methanol, sulphuric acid, and chloroform (17:3:20 v/v/v). All samples were placed in water bath at 90°C for 30 min. Samples were left to cool at room temperature. The samples weight were recorded before being added with 1 ml of distilled water. Samples were thoroughly homogenized with vortex until an obvious formation of two phases were seen. The lower phase containing FAME was transferred into a clean bottle and dried with

anhydrous sodium sulfate Na<sub>2</sub>SO<sub>4</sub>.

##### 2.3.2 Fatty acid methyl ester (FAME) analysis by Gas Chromatography Mass Spectrometer (GCMS)

Fatty acid compositions of lipid extracts were determined using gas chromatography to corresponding methyl esters. FAME was obtained by transesterification lipid extracts. The gas chromatograph analysis of methylated fatty acids was performed on a Shimadzu GC-2010 Plus Shimadzu equipped with a BPX70 capillary column with a diameter of 0.22 mm and a length of 60 m. The carrier gas is helium with velocity of 25 cm sec<sup>-1</sup>. The initial temperature was set at 120°C and increased at 3°C per min to 250°C. The injection and detector temperature was set at 250°C. The mass spectrum from the chromatograph was compared with NBS and NIST Mass Spectra Library. FAME was also identified with their retention time to commercial FAME standard (GC18-91).

##### 2.4 Statistical Analysis

Statistical analysis was conducted in SPSS Ver 21 (IBM Corp, Armonk, New York). Fatty acid, and proximate analysis data were analysed by one-way ANOVA. All data analysis was checked for normality distribution through Shapiro-Wilk test, only data that fulfil normality requirement proceed with One-way ANOVA followed by Scedffe's post-hoc test. If the data analysed did not fulfil the distribution requirement, non-parametric analysis was performed with Kruskal Wallis test. Any difference was considered significant when p<0.05.

## 3. Results and Discussion

### 3.1 Results

#### 3.1.1 Fatty acid profiling in frozen *Moina* sp.

The fatty acid content of frozen *Moina* sp. decreased with prolonged storage duration (Table 1). The total saturated fatty acid (SFA) content of *Moina* sp. stored for 1 month (M1) was recorded at 22.27±0.72 mg g<sup>-1</sup> (Table 1). A decreasing trend was observed for *Moina* sp. frozen at -40°C after M2 (14.60±1.69 mg g<sup>-1</sup>) and M3 (14.77±5.37 mg g<sup>-1</sup>). A similar trend was found in MUFA contents that were decreased with prolonged storage duration; from M1 (16.06±0.83 mg g<sup>-1</sup>) to M2 (4.39±0.65 mg g<sup>-1</sup>) till M3 (9.96±5.77 mg g<sup>-1</sup>) but not significant (p>0.05). Total PUFA content was decreased but not significant from value of 13.69±0.55 mg g<sup>-1</sup> at M1 to 8.66±3.52 mg g<sup>-1</sup> after M3 of storage period (Table 1).

The storage duration showed no significant effects on DHA, ΣPUFA/SFA and ΣPUFA+MUFA/SFA ratio

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## Authors' Contributions

All authors have contributed to the final manuscript. The contribution of each author as follows, Karim, N.U.; conceptualization, methodology, formal analysis, writing original draft preparation, writing review and editing, supervision, project administration, and funding acquisition. Yusuf, H.; methodology, resources, and funding acquisition. Sofian, M.F.; formal analysis, investigation, data curation, and writing original draft preparation. Abu Hena M.K.; writing review and editing. All authors have read and agreed to the published version of the manuscript.

## Conflict of Interest

The authors declare no conflict of interest. The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript, or in the decision to publish the results.

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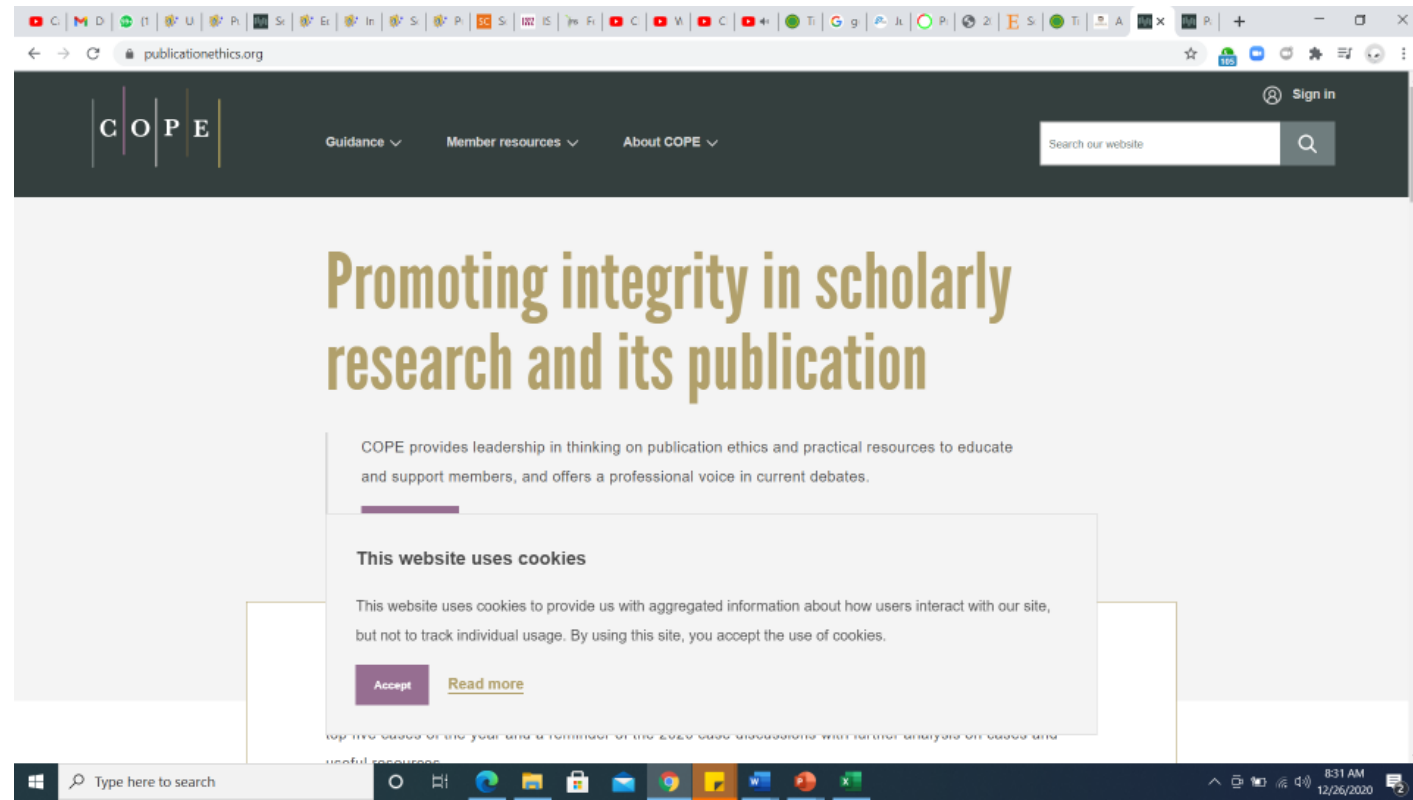
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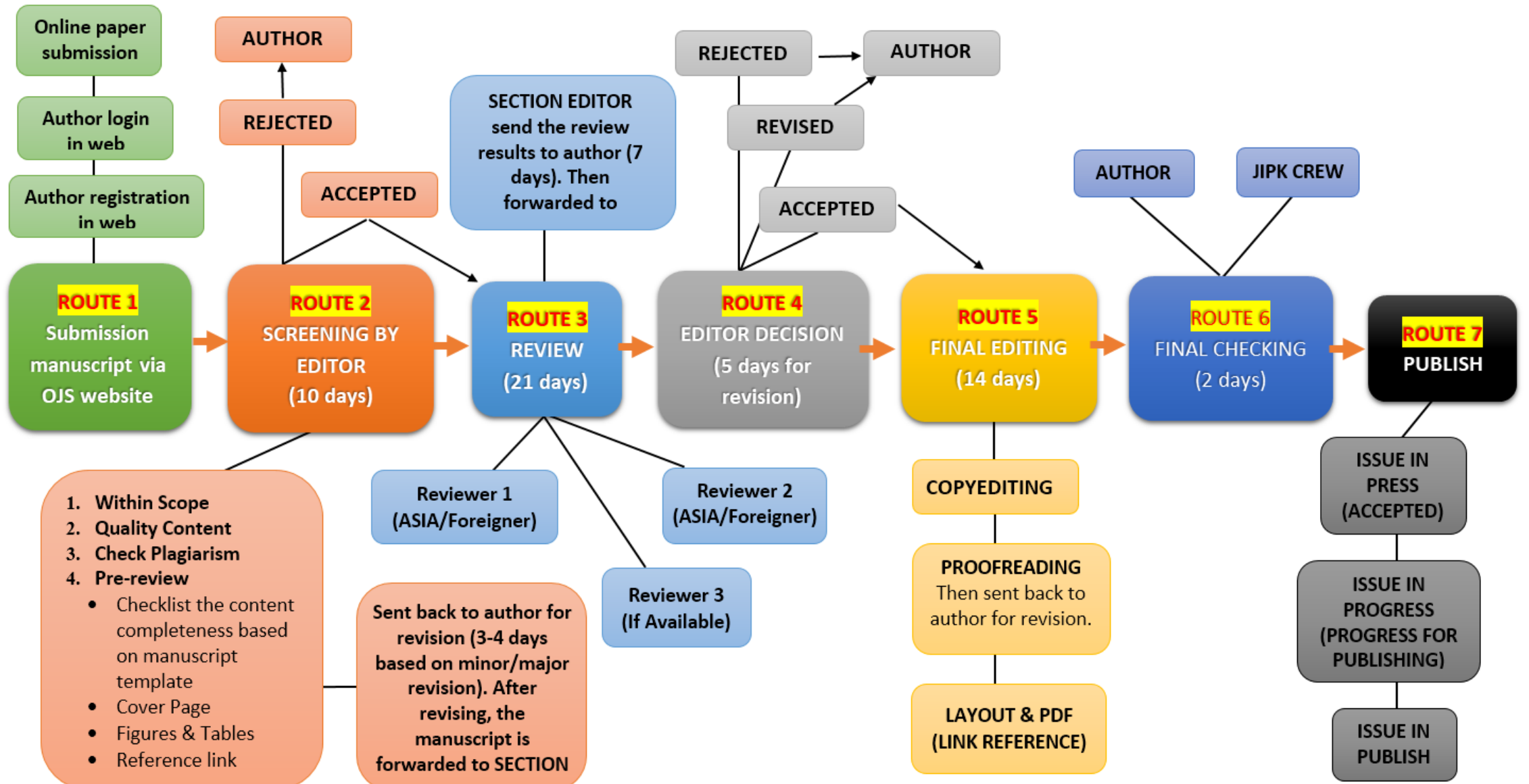
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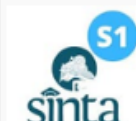
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- Shellfish aquaculture
- Reproduction, recruitment and distribution of bivalve mollusks
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2. Arief, M., Fitriani, N., & Subekti, S. (2014). The effect of different probiotic administration to commercial feed on growth and feed efficiency of Sangkuriang catfish (*Clarias sp.*). *Jurnal Ilmiah Perikanan Dan Kelautan*, 6 (1), pp. 49-53. Cited 6 times.

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No more than 6 paragraphs. The Introduction alerts readers to literature relevant to the research discovery so that the originality of the research cannot be easily assigned. Also, the introduction must state the intent of the research in the form of a research question or hypothesis. Therefore, no confusion arises as to what advance in fisheries and marine is being sought. Footnotes to the text are not allowed. Please add a blue highlight in author citations

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**2. Complete state of the art or review minimum 10 Journals international at least 10 years currently related your research,**

**E.g.:**

Most of grouper culture was held in marine and brackish water ponds. However, recent study reported that goliath (*Epinephelus itajara*) potentially can be cultivated in freshwater. The aquaculture of goliath grouper has not been well established, because the seeds or juveniles are mainly supplied by wild catch (Chapman *et al.*, 2014). In contrary, the aquaculture of tiger grouper (*E. fuscoguttatus*) has been well established because the seeds can be supplied from the hatcheries (Rimmler *et al.*, 2004). Cheng *et al.* (2013) reported that tiger grouper tolerated to freshwater although they did not mention their survival time period. To our knowledge, there are very few data concerning the freshwater rearing of a well-established cultured grouper species.

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However all previous studies were focused on the morphological description of the new species of Cherax. To our knowledge, very few studies have been conducted concerning the growth of crayfish in their natural habitat. Measuring individual body length and weight is a basic procedure in the scientific study of a species. The length-weight relationship (LWR) is a useful tool to estimate growth rate and size of the population (Lindqvist and Lathi, 1983).

.....  
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**4. The objective of the study, and the outcome of the study (if available).**

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The objectives of the present study are to measure the level of total mercury (tHg) in whole tissues of cockles (*A. granosa* and *A. antiquata*) harvested from estuaries of WLI, to evaluate its hazard level in relation to the maximum residual limit for human consumption, to estimate the weekly intake, and to compared it with the provisional tolerable weekly intake (PTWI).

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*2.1 Material*

(sub-chapter is italicized in upper case at the beginning of the word, spaced 1 space from the chapter title). The materials used are written in this section. If you include materials and equipments, the brand and type should be included for the equipment: Incubator bacteria (MCO-5AC, Panasonic, USA) and material: medium *trypticase soy agar* (TSA; Becton Dickinson, Sparks, MD, USA). In social research, material information does not need to be included.

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[1] This experiment was performed on the basis of approval by the laboratory animals use the research ethics committee of faculty of veterinary medicine [2019/23/UA], Airlangga University, Indonesia



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Scientific Journal of Fisheries and Marine

## Research Article

### Fatty Acid Profiling of *Moina* sp. Preserved in Cryoprotective Agents at Low Temperature

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Dimethyl Sulfoxide (DMSO)

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## Abstract

*Moina* sp. is an important feed for larval and post-larval rearing of aquaculture species. Preservation of *Moina* sp. using various preservation agents and techniques is known to be less time-consuming procedure in maintaining large number of feed in hatchery management. Hence, this study was carried out to determine the changes of fatty acid (FA) composition of *Moina* sp. preserved at 5, 10 and 20% in glycerol (GLY), ethylene glycol (EG), and dimethyl sulfoxide (DMSO) for 1 to 3 months (M1-M3). *Moina* sp. without cryoprotectant agents stored at -40°C as controls. Saturated fatty acid (SFA), polyunsaturated fatty acid (PUFA),  $\Sigma \omega 6$  and  $\Sigma \omega 3$  of *Moina* sp. preserved with 5, 10 and 20% GLY decreased with prolonging storage. FA of *Moina* sp. preserved with 5, 10 and 20% EG showed a significant reduction only after M3. Monounsaturated fatty acid (MUFA) and PUFA of *Moina* sp. preserved with 5, 10 and 20% DMSO increased significantly ( $p < 0.05$ ) after M3. *Moina* sp. preserved in 5% DMSO maintain the docosahexaenoic acid (DHA) level, which could be a potential method for long-term preservation.

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and the photoperiod was set at L:D=12:12 using triphosphor fluorescent lights with a light intensity of >2000 lux. Water quality parameters were monitored and measured using YSI meter (Professional Plus 13M100665, USA). The samples were collected using scoop net of mesh size 120  $\mu$ m and immediately transferred into zip lock bag. Samples were subjected to 5, 10, and 15% of the cryoprotective agent; glycerol, ethylene glycol, and dimethyl sulfoxide before being stored at -40°C (Panasonic MDF-U5412 Biomedical Plasma Freezer, Malaysia) for 1-3 months. All samples were transported to Universiti Malaysia Terengganu for further analysis.

### 2.2 Extraction of Total Lipid

Total lipids were extracted from the samples according to Aurina and Jamaludin (2012) with a slight modification. Approximately 2.0 $\pm$ 0.1 g of *Moina* sp. were added into the chloroform-methanol solvent (2:1 v/v) with ratio weight: solvent of 1:20. The samples were homogenized three times for 5 min at 7000-8000 rpm (IKA T18 Digital Ultra Turax, Germany). All samples were cooled at 4°C for 1 hour before being added with 4 ml of 0.034% MgCl<sub>2</sub> per g of samples. All samples were incubated overnight to separate the organic (containing the extracts of total lipids) and aqueous layers. The upper layer (aqueous) were discarded meanwhile the lower layer (organic) were rinsed with chloroform-methanol solvent (2:1 v/v). Evaporation of the lower phase demonstrated the total lipid fraction. The solvent was removed using a rotary evaporator under a vacuum at 40°C. These extracts, representing the total lipids, were weighed and dissolved once again in chloroform-methanol solvent (2:1 v/v). The total lipid was expressed as g 100 mg<sup>-1</sup>.

### 2.3 Fatty Acid Analysis

Fatty acid analysis was performed by using two consecutive steps, (1) preparation of fatty acid methyl ester (FAME) and (2) chromatographic analysis.

#### 2.3.1 Fatty acid methyl ester (FAME) synthesis

Fatty acid methyl ester (FAME) was synthesized with the extraction-transesterification method described by Majid *et al.* (2003). Approximately 20 $\pm$ 0.1 mg of samples were added into the solution mixture of methanol, sulphuric acid, and chloroform (17:3:20 v/v/v). All samples were placed in water bath at 90°C for 30 min. Samples were left to cool at room temperature. The samples weight were recorded before being added with 1 ml of distilled water. Samples were thoroughly homogenized with vortex until an obvious formation of two phases were seen. The lower phase containing FAME was transferred into a clean bottle and dried with

anhydrous sodium sulfate Na<sub>2</sub>SO<sub>4</sub>.

#### 2.3.2 Fatty acid methyl ester (FAME) analysis by Gas Chromatography Mass Spectrometer (GCMS)

Fatty acid compositions of lipid extracts were determined using gas chromatography to corresponding methyl esters. FAME was obtained by transesterification lipid extracts. The gas chromatograph analysis of methylated fatty acids was performed on a Shimadzu GC-2010 Plus Shimadzu equipped with a BPX70 capillary column with a diameter of 0.22 mm and a length of 60 m. The carrier gas is helium with velocity of 25 cm sec<sup>-1</sup>. The initial temperature was set at 120°C and increased at 3°C per min to 250°C. The injection and detector temperature was set at 250°C. The mass spectrum from the chromatograph was compared with NBS and NIST Mass Spectra Library. FAME was also identified with their retention time to commercial FAME standard (GC18-91).

#### 2.4 Statistical Analysis

Statistical analysis was conducted in SPSS Ver 21 (IBM Corp, Armonk, New York). Fatty acid, and proximate analysis data were analysed by one-way ANOVA. All data analysis was checked for normality distribution through Shapiro-Wilk test, only data that fulfil normality requirement proceed with One-way ANOVA followed by Scheffe's post-hoc test. If the data analysed did not fulfil the distribution requirement, non-parametric analysis was performed with Kruskal Wallis test. Any difference was considered significant when  $p < 0.05$ .

## 3. Results and Discussion

### 3.1 Results

#### 3.1.1 Fatty acid profiling in frozen *Moina* sp.

The fatty acid content of frozen *Moina* sp. decreased with prolonged storage duration (Table 1). The total saturated fatty acid (SFA) content of *Moina* sp. stored for 1 month (M1) was recorded at 22.27 $\pm$ 0.72 mg g<sup>-1</sup> (Table 1). A decreasing trend was observed for *Moina* sp. frozen at -40°C after M2 (14.60 $\pm$ 1.69 mg g<sup>-1</sup>) and M3 (14.77 $\pm$ 5.37 mg g<sup>-1</sup>). A similar trend was found in MUFA contents that were decreased with prolong storage duration; from M1 (16.06 $\pm$ 0.83 mg g<sup>-1</sup>) to M2 (4.39 $\pm$ 0.65 mg g<sup>-1</sup>) till M3 (9.96 $\pm$ 5.77 mg g<sup>-1</sup>) but not significant ( $p > 0.05$ ). Total PUFA content was decreased but not significant from value of 13.69 $\pm$ 0.55 mg g<sup>-1</sup> at M1 to 8.66 $\pm$ 3.52 mg g<sup>-1</sup> after M3 of storage period (Table 1).

The storage duration showed no significant effects on DHA,  $\Sigma$ PUFA/SFA and  $\Sigma$ PUFA+MUFA/SFA ratio

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## Authors' Contributions

All authors have contributed to the final manuscript. The contribution of each author as follows, Karim, N.U.; conceptualization, methodology, formal analysis, writing original draft preparation, writing review and editing, supervision, project administration, and funding acquisition. Yusuf, H.; methodology, resources, and funding acquisition. Sofian, M.F.; formal analysis, investigation, data curation, and writing original draft preparation. Abu Hena M.K.; writing review and editing. All authors have read and agreed to the published version of the manuscript.

## Conflict of Interest

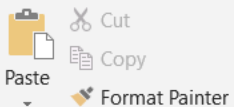
The authors declare no conflict of interest. The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript, or in the decision to publish the results.

## Funding Information

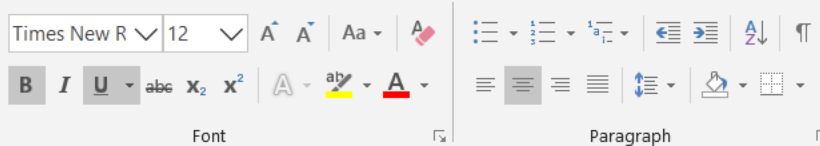
This research was funded by Fisheries Research Institute, Glemi Lemi, Negeri Sembilan, Malaysia. The APC was funded by Universiti Malaysia Terengganu.

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					Cover Page	Author declaration				
1		Rozi	20-Nov-19	8 januari 2020	tidak ada	tidak ada			Revisi Author	EFFECT OF COCONUT LEAVES, COCONUT PALM ( <i>COCOS NUCIFERA</i> )
2	12826	Dwi Yuli	20-Nov-19	8 januari 2020	tidak ada	tidak ada	18 April 2019-	41%	Dikembalikan	MANFAAT EKSTRAK BAWANG TIWAI ( <i>Eleutherine americana</i> ) SEBAGAI P
3	14053	dwithah	20-Nov-19	8 januari 2020	tidak ada	tidak ada	02 Juli 2019-		proses	Pemanfaatan Ekstrak Paku Uban ( <i>Nephrolepis Biserrata</i> ) Sebagai Molting Stimulan K
4	14356	Ghoyatul	20-Nov-19	8 januari 2020	tidak ada	tidak ada	12 Juli 2019-	21%	Dikembalikan	Hubungan persentase penutupan karang dan rugositas terumbu karang dengan kepadat
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10		Luthfiana	20-Nov-19	8 januari 2020	ada	ada			revisi	Fish Feed Formulation with the Addition of Sludge of Dairy Wastewater and Ferme
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2. bertanggung jawab menyelesaikan proses naskah hingga sampai ke editor terakhir (bu Wahyu dan Prof Sri)										
3. update kinerja editor diusahakan setiap minggu dan jika ada editor A sudah update kinerja maka update editor selanjutnya mengikuti form dari update editor A agar data update tetap berjalan										
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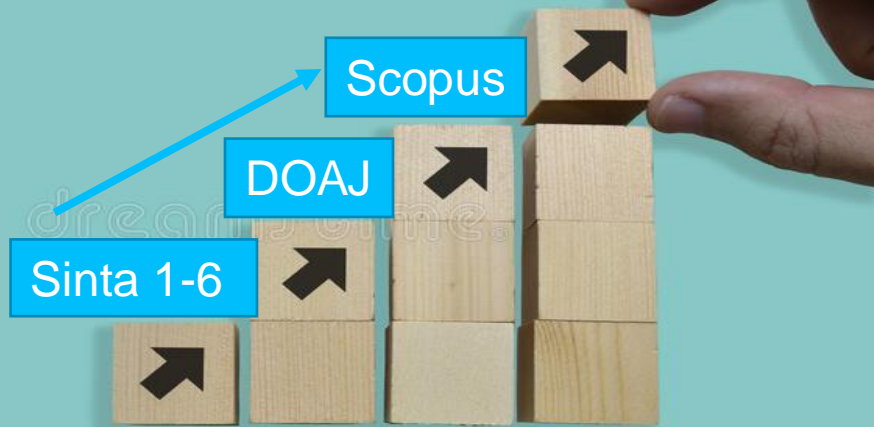
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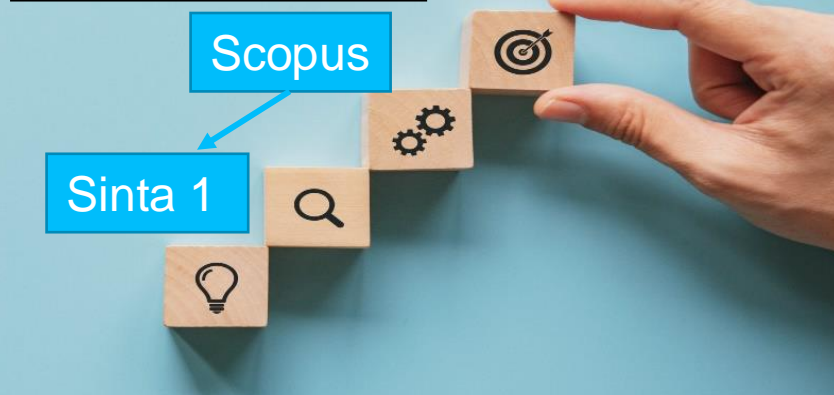


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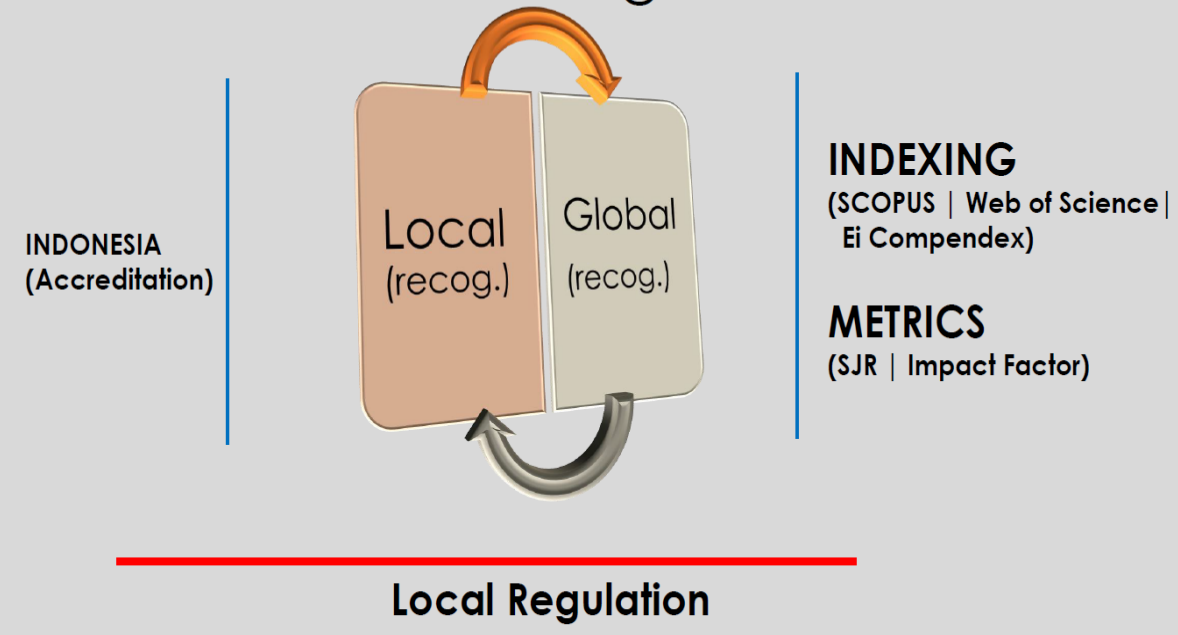
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## Strategi top down

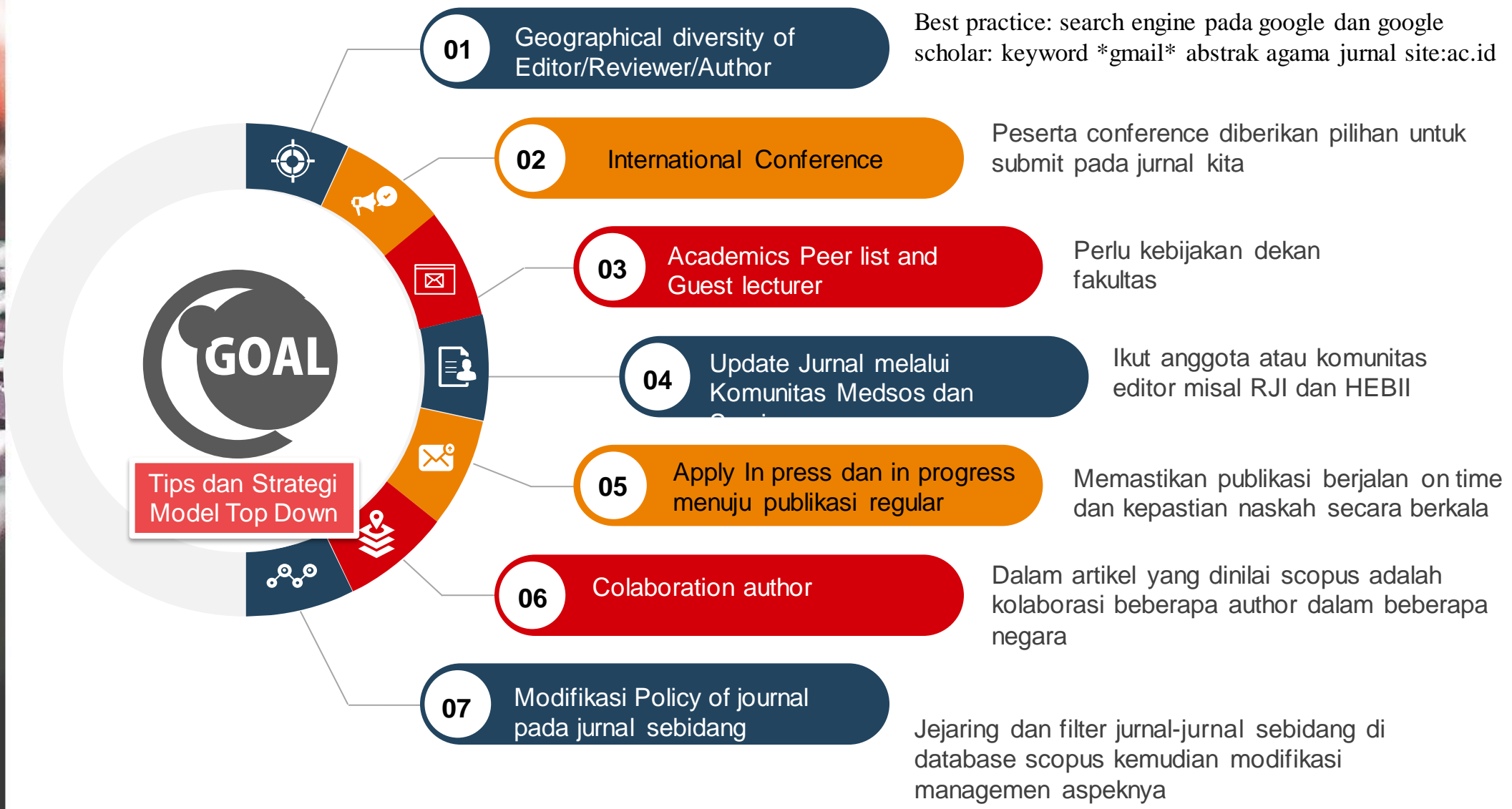


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**Geographical diversity of Editor/Reviewer/Author**



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- Bahasa (Languages)
- SafeSearch
- Penelusuran lanjutan
- Histori penelusuran
- Data Anda di Penelusuran
- Bantuan penelusuran
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Setelan Penelusuran

Hasil penelusuran

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3. NEW LINE



**strategi 2.**

**International Conference**



# International Conference

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## CALL FOR PAPERS

# INCOFIMS 2020

The 3<sup>rd</sup> International Conference on Fisheries and Marine Sciences  
**Challenges and strategies for the development of sustainable aquaculture and fisheries**

September 10<sup>th</sup>, 2020 **ONLINE**

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**Prof. Andrew Greig Jeffs**  
University of Auckland,  
New Zealand



**Prof. Saleem Mustafa**  
Borneo Marine Research Institute,  
Universiti Malaysia Sabah



**Dr. Gunanti Mahasri, Ir., M.Si**  
Faculty of Fisheries and Marine,  
Universitas Airrangga



**Prof. Dr. Mirni Lamid, MP**  
Dean of Faculty of Fisheries and Marine  
Universitas Airrangga

**OPENING SPEECH**

**INVITED SPEAKERS**



**Dr. Melissa Martin**  
Universiti Malaysia Terengganu,  
Malaysia



**Dr. Jennifer Verdun**  
Murdock University, Perth,  
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**Dr. Vivi Endar Herawati, S.Pi., M.Si**  
Universitas Diponegoro,  
Indonesia



**Achmad Zamreni, S.Pi., M.Sc., Ph.D**  
Research Center for Marine and  
Fisheries Socio-economic,  
Jakarta, Indonesia



**Dr. Adriana Monica S., Ir., M.Kes**  
Department of Marine  
Faculty of Fisheries and Marine,  
Universitas Airrangga

**TOPICS**

- Aquaculture Technology
- Fish Nutrition
- Fish Diseases
- Marine Science
- Aquatic Resource Management
- Fisheries Management
- Fisheries Socio-Economics

**IMPORTANT DATES**

**ABSTRACT SUBMISSION**  
July 14<sup>th</sup> – August 14<sup>th</sup>, 2020

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August 17<sup>th</sup>, 2020

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August 18<sup>th</sup> – September 8<sup>th</sup>, 2020

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**PRESENTATION DATE**  
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LOCAL STUDENT	IDR 50.000
LOCAL PARTICIPANTS (NON-STUDENT)	IDR 150.000
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Director General of Aquaculture  
Ministry of Marine Affairs and Fisheries  
Republic of Indonesia



**Assoc. Prof. Felipe Polivanov Ottoni, Ph.D**  
Universidade Federal do Maranhão,  
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**Asst. Prof. Dr. Narongrit Muangmai**  
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Faculty of Fisheries, Kasetsart University  
Thailand



**Prof. M. Amin Alamjshah, Ir., M.Si., Ph.D**  
Dean of Faculty of Fisheries and Marine  
Universitas Airrangga  
Indonesia

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**INVITED SPEAKERS**



**Bayu Priyambodo, Ph.D**  
Pegiat Lobster Indonesia



**Dr. Shahariz Hashem**  
Bangladesh Agricultural University



**Shizuka Ohara, Ph.D**  
Hiroshima University



**Adhitya Wicaksono M.Sc., ALS, MRSB**  
General Biologi Indonesia Foundation



**Muhamad Amin, S.Pi., M.Sc., Ph.D**  
Department of Aquaculture  
Faculty of Fisheries and Marine  
Universitas Airrangga

**TOPICS**

- Aquaculture Technology
- Fish Nutrition
- Fish Disease
- Marine and Aquatic Sciences
- Estuarine and Coastal Ecosystems
- Fisheries Management
- Fisheries Socio-economics

**IMPORTANT DATES**

**ABSTRACT SUBMISSION**  
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August 26<sup>th</sup> – September 20<sup>th</sup>, 2021

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August 17<sup>th</sup> - 23<sup>rd</sup>, 2021

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REGISTRATION FEE		
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**strategi 3.**

**Academics Peerlist and guest lecturer**



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**strategi 4.**

**Update Jurnal melalui Komunitas Medsos dan seminar**



## Review

## The COVID-19 pandemic: Impacts on cities and major lessons for urban planning, design, and management

Ayyoob Sharifi<sup>a,b,c,\*</sup>, Amir Reza Khavarian-Garmsir<sup>d</sup><sup>a</sup> Hiroshima University, Graduate School of Humanities and Social Sciences, Japan<sup>b</sup> Hiroshima University, Graduate School of Advanced Science and Engineering, Japan<sup>c</sup> Network for Education and Research on Peace and Sustainability (NERPS), Japan<sup>d</sup> Department of Geography and Urban Planning, Faculty of Geographical Sciences and Planning, University of Isfahan, Isfahan, Iran

## HIGHLIGHTS

- Literature on the impacts of COVID-19 on cities is reviewed.
- Evidence related to four thematic areas is synthesized.
- Existing evidence is mainly related to air quality and environmental factors.
- Significant improvements in air and water quality have been observed.
- Poor, marginalized, and vulnerable groups are disproportionately affected by the impacts of COVID-19.

## ARTICLE INFO

## Article history:

Received 12 August 2020

Received in revised form 11 September 2020

Accepted 12 September 2020

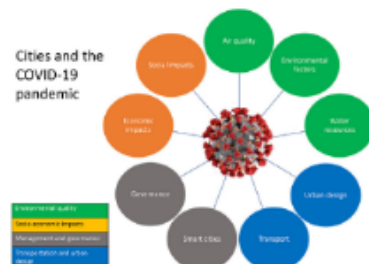
Available online 18 September 2020

Editor: Jay Gan

## Keywords:

COVID-19  
Smart cities  
Environmental factors  
Air quality  
Urban planning  
Pandemics

## GRAPHICAL ABSTRACT



## ABSTRACT

Since the early days of the COVID-19 crisis the scientific community has constantly been striving to shed light on various issues such as the mechanisms driving the spread of the virus, its environmental and socio-economic impacts, and necessary recovery and adaptation plans and policies. Given the high concentration of population and economic activities in cities, they are often hotspots of COVID-19 infections. Accordingly, many researchers are struggling to explore the dynamics of the pandemic in urban areas to understand impacts of COVID-19 on cities. In this study we seek to provide an overview of COVID-19 research related to cities by reviewing literature published during the first eight months after the first confirmed cases were reported in Wuhan, China. The main aims are to understand impacts of the pandemic on cities and to highlight major lessons that can be learned for post-COVID urban planning and design. Results show that, in terms of thematic focus, early research on the impacts of COVID-19 on cities is mainly related to four major themes, namely, (1) environmental quality, (2) socio-economic impacts, (3) management and governance, and (4) transportation and urban design. While this indicates a diverse research agenda, the first theme that covers issues related to air quality, meteorological parameters, and water quality is dominant, and the others are still relatively underexplored. Improvements in air and water quality in cities during lockdown periods highlight the significant environmental impacts of anthropogenic activities and provide a wake-up call to adopt environmentally friendly development pathways. The paper also provides other recommendations related to the socio-economic factors, urban management and governance, and transportation and urban design that can be used for post-COVID urban planning and design. Overall, existing knowledge shows that the COVID-19 crisis entails an excellent opportunity for planners and policy makers to take transformative actions towards creating cities that are more just, resilient, and sustainable.

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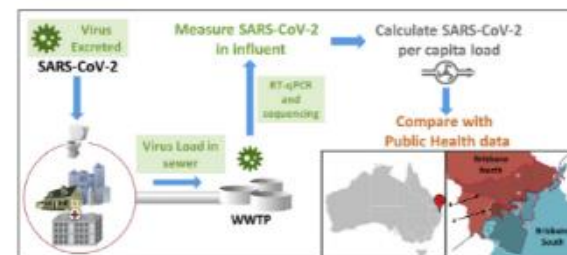
## First confirmed detection of SARS-CoV-2 in untreated wastewater in Australia: A proof of concept for the wastewater surveillance of COVID-19 in the community

Warish Ahmed<sup>a,\*</sup>, Nicola Angel<sup>b</sup>, Janette Edson<sup>b</sup>, Kyle Bibby<sup>c</sup>, Aaron Bivins<sup>c</sup>, Jake W. O'Brien<sup>d</sup>, Phil M. Choi<sup>d</sup>, Masaaki Kitajima<sup>e</sup>, Stuart L. Simpson<sup>f</sup>, Jiaying Li<sup>d</sup>, Ben Tschärke<sup>d</sup>, Rory Verhagen<sup>d</sup>, Wendy J.M. Smith<sup>g</sup>, Julian Zaugg<sup>b</sup>, Leanne Dierens<sup>b</sup>, Philip Hugenholz<sup>b</sup>, Kevin V. Thomas<sup>d</sup>, Jochen F. Mueller<sup>d</sup><sup>a</sup> CSIRO Land and Water, Ecosciences Precinct, 41 Boggo Road, QLD 4102, Australia<sup>b</sup> Australian Centre for Ecogenomics, School of Chemistry and Molecular Biosciences, The University of Queensland, St Lucia, QLD 4072, Australia<sup>c</sup> Department of Civil & Environmental Engineering & Earth Science, University of Notre Dame, 156 Fitzpatrick Hall, Notre Dame, IN 46556, USA<sup>d</sup> Queensland Alliance for Environmental Health Sciences (QAEHS), The University of Queensland, 20 Cornwall Street, Woolloongabba, QLD 4103, Australia<sup>e</sup> Division of Environmental Engineering, Faculty of Engineering, Hokkaido University, North 13 West 8, Kita-ku, Sapporo, Hokkaido 060-8628, Japan<sup>f</sup> CSIRO Land and Water, Lucas Heights, NSW 2234, Australia<sup>g</sup> CSIRO Agriculture and Food, Bioscience Precinct, St Lucia, QLD 4067, Australia

## HIGHLIGHTS

- First study that reports the detection of SARS-CoV-2 in wastewater in Australia.
- The presence of SARS-CoV-2 was confirmed by sequencing.
- A median range of 171 to 1090 infected persons was identified in the catchment.
- Further methodological and molecular assay validation will be required.

## GRAPHICAL ABSTRACT



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## ABSTRACT

Infection with SARS-CoV-2, the etiologic agent of the ongoing COVID-19 pandemic, is accompanied by the shedding of the virus in stool. Therefore, the quantification of SARS-CoV-2 in wastewater affords the ability to monitor the prevalence of infections among the population via wastewater-based epidemiology (WBE). In the current work, SARS-CoV-2 RNA was concentrated from wastewater in a catchment in Australia and viral RNA copies were enumerated using reverse transcriptase quantitative polymerase chain reaction (RT-qPCR) resulting in two positive detections within a six day period from the same wastewater treatment plant (WWTP). The estimated viral RNA copy numbers observed in the wastewater were then used to estimate the number of infected individuals in the catchment via Monte Carlo simulation. Given the uncertainty and variation in the input parameters, the model estimated a median range of 171 to 1,090 infected persons in the catchment, which is in reasonable agreement with clinical observations. This work highlights the viability of WBE for monitoring infectious

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E-mail address: [Warish.Ahmed@csiro.au](mailto:Warish.Ahmed@csiro.au) (W. Ahmed).



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**Reproductive Characteristics of the Pond-Farmed Sultan Fish (Leptobarbus hoevenii)**



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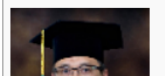
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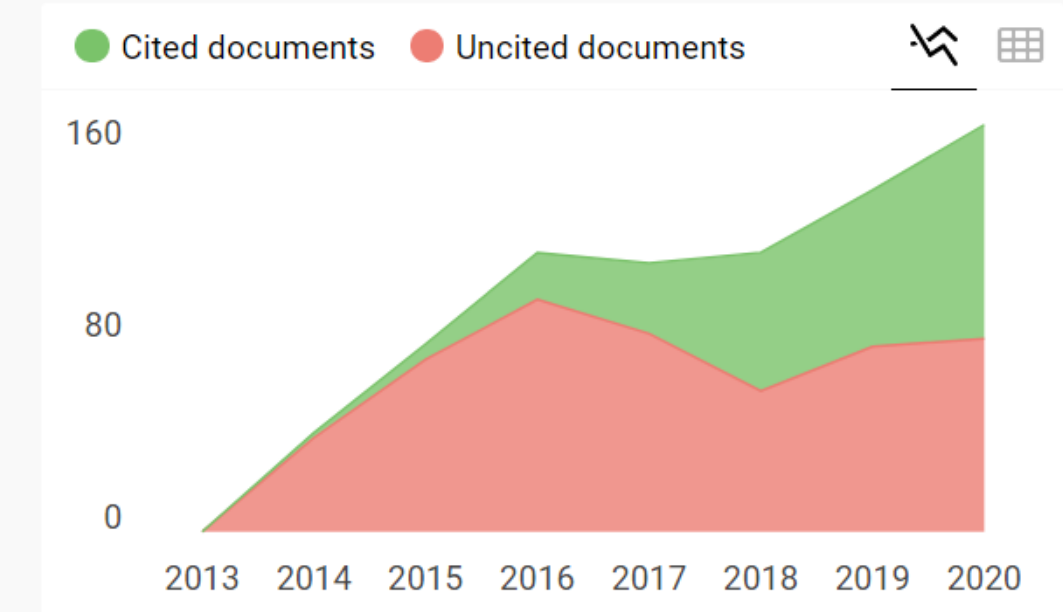
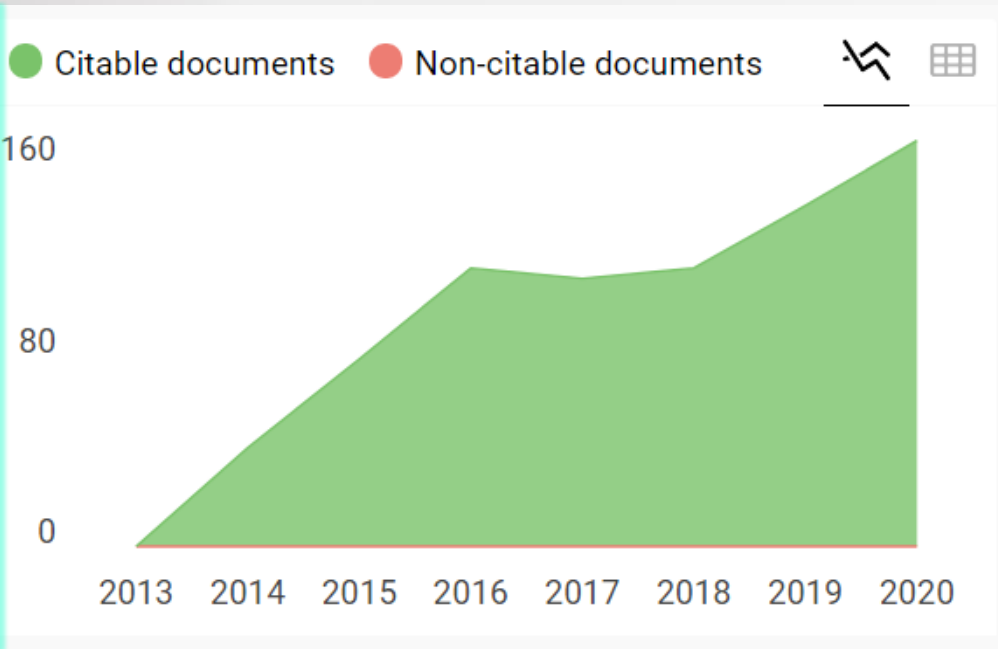


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All articles in this issue (13 articles) were authored/co-authored. 7 Research Articles, 1 Review article, and 5 short communication. by 66 authors from 39 institutions and 10 countries (Indonesia, Tanzania, Belgium, Libya, China, Malaysia, Thailand, India, Taiwan, and Sri Langka).

All article is available online since MARCH 31, 2021

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Research Article

**The Length-Weight Relationship and Condition Factors of Bullet Tuna Landed at the Tanjung Luar Fishing Port, Indonesia**

Evron Asrial<sup>1\*</sup>, Yasir Arapat<sup>1</sup>, Usmā Kurniawan Hadi<sup>2</sup>, Kalih L.A.T.T.W.S<sup>1</sup>, Mita Ayu Liliyanti<sup>2</sup>, Erwin Rosadi<sup>3</sup>, Ruly Isfatul Khasanah<sup>4</sup>, and Ishani Nelunika Rathnayake<sup>5</sup>

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- ICETA 2014 - 12th IEEE International Conference on Emerging eLearning Technologies and Applications, Proceedings  
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60	Jurnal Ilmu Sosial dan Ilmu Politik	journal	0.125 Q4	1	12	1	489	0	1	0.00	40.75	
61	Molekul	journal	0.125 Q4	2	30	23	743	10	22	0.43	24.77	
62	Indonesian Journal of International and Comparative Law	journal	0.113 Q3	1	19	36	0	1	34	0.03	0.00	
63	Indonesian Aquaculture Journal	journal	0.112 Q4	1	12	9	267	2	7	0.22	22.25	
64	Proceedings - International Association for Hydro-Environment Engineering and Research (IAHR)-Asia Pacific Division (APD) Congress: Multi-Perspective Water for Sustainable Development, IAHR-APD 2018	conference and proceedings	0.105	2	0	179	0	11	175	0.06	0.00	
65	Advances in Biomolecular Medicine - Proceedings of the 4th BIBMC (Bandung International Biomolecular Medicine Conference) 2016 and the 2nd ACMM (ASEAN Congress on Medical Biotechnology and Molecular	conference and proceedings	0.101	1	0	29	0	0	27	0.00	0.00	
66	Nurse Media Journal of Nursing	journal		1	27	0	779	0	0	0.00	28.85	
67	Reinwardtia	journal		1	5	0	234	0	0	0.00	46.80	
68	Sains Tanah	journal		1	15	0	494	0	0	0.00	32.93	
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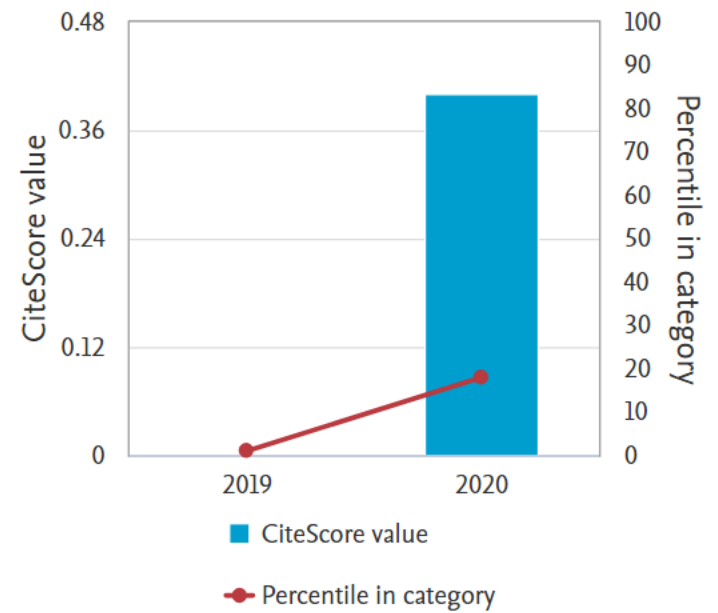
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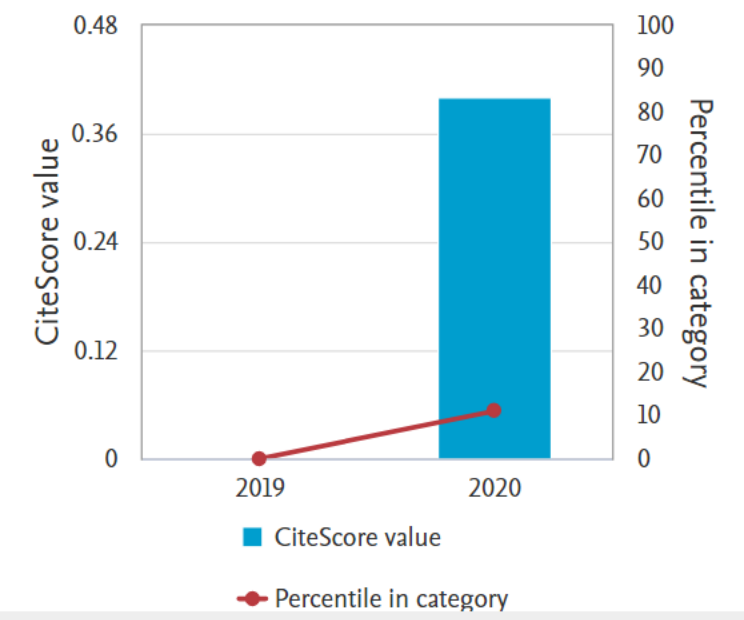
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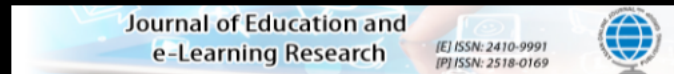
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- Lukman, Istadi, Komang, G. Wiryawan. 2020. Panduan Editorial PengelolaanJurnalIlmiah(Kemenristek)
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