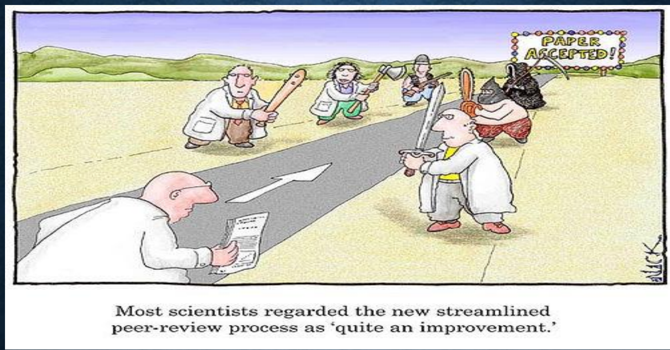
How to Write a High-impact Review Paper



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

LAM SU SHIUNG
Institute of Tropical Aquaculture & Fisheries (Akuatrop),
Universiti Malaysia Terengganu

1

OUTCOMES OF THIS SHARING

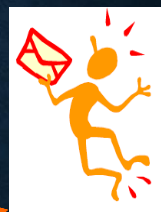
This talk will answer followings questions:

1. Why review papers?
2. What is a review paper?
3. How to write a review paper?
4. Where to submit & How to submit
5. Is there any challenges?

2

OVERVIEW

- Submission of a manuscript to a journal is usually an exciting prospect for researchers, especially younger ones.



- News of acceptance from the Editor is even more exciting.

- **News of rejection is usually very depressing.**

Never give up..

Nobel prize work rejected..

3

PART A:

Background

4

Su Shiung LAM

- **Deputy Director of International Centre,** Office of Deputy Vice Chancellor (Academic and International), *Universiti Malaysia Terengganu (Malaysia)*
- **Professor,** *Pyrolysis Technology Research Group, Institute of Tropical Aquaculture and Fisheries (Akuatrop), Universiti Malaysia Terengganu (Malaysia)*
- **Chair Professor**, *Henan Province (China)*
- **Distinguished Professor**, *Co-Innovation Center of Efficient Processing and Utilization of Forestry Resources, Nanjing Forestry University, University (China)*
- **Visiting Professor**, *Henan Province Engineering Research Center for Biomass Value-added Products, Henan Agricultural University (China)*
- **Visiting Research Fellow**, *Education University of Hong Kong (China)*
- **Ts./P.Tech,** *Professional Technologist, Malaysia Board of Technologies (MBOT) , Green Technology*
- **Certified Environmental Professional/ Competent Person** in Hazardous Waste Management, EiMAS, DOE Malaysia

5

Editorial Role

❖ **Deputy Editor in Chief 副总主编:**
- **Journal of Sustainability Science & Management (Scopus)**

❖ **Editor 主编:**
- **Environmental Pollution (IF: 8.071, Q1)**

❖ **Associate Editor 副主编:**
- **Environmental Geochemistry and Health (IF: 4.609, Q1)**
- **Frontiers in Energy Research (IF: 4.008, Q2)**
- **Energy & Environment (IF: 2.945, Q3)**
- **Environmental Advances (Elsevier)**

❖ **Editorial Board Member:**
- **Bioresource Technology (IF: 9.642, Q1)**
- **Chinese Chemical Letters (IF: 6.779, Q1)**
- **Materials Science for Energy Technologies (MSET) (Scopus)**
- **Renewable and Sustainable Energy Transition (Elsevier)**

❖ **Guest Editor of Special Issue 客座编辑:**
- **Journal of Hazardous Materials (IF: 10.588, Q1)**
- **Bioresource Technology (IF: 9.642, Q1)**
- **Environmental Pollution (IF: 8.071, Q1)**
- **Environmental Research (IF: 6.498, Q1).**
- **Journal of Analytical and Applied Pyrolysis (IF: 5.541, Q1)**

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Readers respond

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nature

CORRESPONDENCE | 22 June 2021

Ancient oaks of Europe are archives — protect them

Christian Sonne, Changlei Xia & Su Shiung Lam

Kongeegen, the King Oak, in Denmark could be up to 2,000 years old.

Ancient oaks of Europe are archives — protect them

Some of the oldest trees in Europe are in danger because they are not being given the necessary level of protection. Oak trees (*Quercus robur*) that are more than 1,000 years old are found in the United Kingdom and in Fennoscandia, which includes Denmark, Sweden and Norway.

For example, Denmark's King Oak (pictured) is one of the world's oldest living trees, dating to around 1,900 years of age. The United Kingdom has the largest collection of ancient oaks, reflecting 1,500 years of ship-building.

The trees contain rings that represent archives of historical climate fluctuations and levels of atmospheric gases, so they can help to answer pressing questions about climate change and ecosystem dynamics (P. M. Kelly *et al. Nature* **340**, 57–60; 1989).

Fennoscandia and the United Kingdom could better safeguard their oaks using mechanisms such as those offered by the European Union's Natura 2000 network of protected areas, or the protections conferred by UNESCO World Heritage sites in the United Kingdom. Otherwise, unsustainable management practices, deforestation, air pollution and climate change could leave these ancient species vulnerable to disease and extinction, with the loss of irreplaceable scientific information and cultural heritage.

Christian Sonne Aarhus University, Roskilde, Denmark.
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Changlei Xia Nanjing Forestry University, Nanjing, China.

Su Shiung Lam University Malaysia Terengganu, Terengganu, Malaysia.

Nature | Vol 594 | 24 June 2021 | 495

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Readers respond

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CORRESPONDENCE · 11 AUGUST 2020

Denmark recycling plan will cut waste by two-thirds

Su Shiung Lam, Aage K. O. Alstrup & Christian Sonne

As one of the European Union's largest energy consumers and greenhouse-gas polluters (go.nature.com/33piuuv), Denmark will launch the EU's most-ambitious recycling plan in July next year. It aims to cut the country's annual amount of waste for incineration from 800 to 250 kilograms per capita, reducing carbon dioxide emissions to 0.7 million tonnes by 2030. Citizens will sort their waste into ten different types.

The move is in part a response to the COVID-19 pandemic and to a new EU directive for environmental sustainability that promotes a circular economy, lower emissions and a reduction in the use of raw materials and hazardous substances (J. B. Zimmerman *et al. Science* **367**, 397–400; 2020). It is hoped that the plan will limit ecosystem damage and the health effects of toxic industrial chemicals. It will also discourage Denmark's unacceptable export of

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SUBJECTS

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Cambridge, Massachusetts, USA.
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*V.D. and A.B declare competing interests; see go.nature.com/2xajnzt

Hua Xu The University of Texas Health Science Center at Houston, Texas, USA.
*L.O.-M. declares competing interests; see go.nature.com3gfcgv

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The move is in part a response to the COVID-19 pandemic and to a new EU directive for environmental sustainability that promotes a circular economy, lower emissions and a reduction in the use of raw materials and hazardous substances (J. B. Zimmerman *et al. Science* 367, 397–400; 2020). It is hoped that the plan will limit ecosystem damage and the health effects of toxic industrial chemicals. It will also discourage Denmark's unacceptable export of waste to low-income countries.

If other countries were to adopt similar practices, the world would align faster with the United Nations Sustainable Development Goals on sustainability and planetary health.

Su Shiung Lam Universiti Malaysia Terengganu.

Aage K. O. Alstrup Aarhus University, Aarhus, Denmark.

Christian Sonne Aarhus University, Roskilde, Denmark.
cs@bios.au.dk

COVID-19: full peer review in hours

The impetus to rapidly disseminate scientific results during a crisis ahead of peer review could cause governments and international organizations to act prematurely – or to be reluctant to act at all. Having struggled with such challenges in our COVID-19 work, we recommend our tested review system, which has an ultrashort submission-to-acceptance time.

One of us (W.S.) runs a workshop every September to identify horizon-scanning issues in conservation, which we aim to report on in *Trends in Ecology and Evolution* the following January. The journal's editor (formerly K.A.L.) agrees a submission date and selects referees. Authors send in a working draft a week before formal submission so that referees have time to prepare their comments. In the first year (2009), the time from formal submission to return of detailed comments was 90 minutes.

The crucial features of this process are advance selection of referees and the provision of a draft manuscript. Agreeing a submission date makes planning easier for referees but is not essential.

Our model could be used for ultrafast peer review of COVID-19 papers (see M. A. Johansson and D. Saderi *Nature* 579, 29; 2020). Setting up a pool of referees dedicated to rapid review of key papers would help relieve pressure on overstretched individuals.

William J. Sutherland University of Cambridge, UK.
w.sutherland@zoo.cam.ac.uk

Katrina A. Lythgoe University of Oxford, UK.

192 | Nature | Vol 584 | 13 August 2020

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Science

Sumatran rhinoceros on the brink of extinction

Su Shiung Lam, Nyuk Ling Ma, Wanxi Peng and Christian Sonne

Science **368** (6494), 958.
DOI: 10.1126/science.abc2202

ARTICLE

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LETTERS

Sumatran rhinoceros on the brink of extinction

Su Shiung Lam[1,2], Nyuk Ling Ma[2,1], Wanxi Peng[1], Christian Sonne[3,1,*]

See all authors and affiliations

Science 29 May 2020:
Vol. 368, Issue 6494, pp. 958
DOI: 10.1126/science.abc2202

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Article Information

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Science
Vol 368, Issue 6494
29 May 2020
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Science

Wildfire puts koalas at risk of extinction

Su Shiung Lam, Courtney Waugh, Wanxi Peng and Christian Sonne

Science **367** (6479), 750.
DOI: 10.1126/science.aba8372

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Wildfire puts koalas at risk of extinction

Su Shiung Lam[1], Courtney Waugh[2], Wanxi Peng[3], Christian Sonne[4,3,*]

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[2]University of Queensland at Brisbane, QLD, Australia and Nord University at Steinkjer, Norway.
[3]Forestry College of Henan Agricultural University at Zhengzhou, China.
[4]Aarhus University at Roskilde, Denmark.
[*] Corresponding author. Email: cs@bios.au.dk
– Hide authors and affiliations

Science 14 Feb 2020:
Vol. 367, Issue 6479, pp. 750
DOI: 10.1126/science.aba8372

Article | Info & Metrics | eLetters | PDF

Article Information

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DOI: https://doi.org/10.1126/science.aba8372
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Print ISSN: 0036-8075
Online ISSN: 1095-9203

Science
Vol 367, Issue 6479
14 February 2020
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Science

European eel population at risk of collapse

Christian Sonne, Wan-xi Peng, Aage K. O. Alstrup and Su Shiung Lam

Science **372** (6548), 1271.
DOI: 10.1126/science.abj3359

Illegal trade and compromised habitats threaten the survival of the European eel (Anguilla anguilla).

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LETTERS

European eel population at risk of collapse

Christian Sonne[1,2,*], Wan-xi Peng[2], Aage K. O. Alstrup[3], Su Shiung Lam[4,2]

[1]Aarhus University, Roskilde, Denmark.
[2]Henan Agricultural University, Zhengzhou, China.
[3]Aarhus University, Aarhus, Denmark.
[4]Universiti Malaysia Terengganu, Terengganu, Malaysia.
[*] Corresponding author. Email: cs@bios.au.dk
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Science 18 Jun 2021:
Vol. 372, Issue 6548, pp. 1271
DOI: 10.1126/science.abj3359

Science
Vol 372, Issue 6548
18 June 2021
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Long Review paper


Renewable and Sustainable Energy Reviews 135 (2021) 110148

Contents lists available at ScienceDirect

Renewable and Sustainable Energy Reviews

ELSEVIER

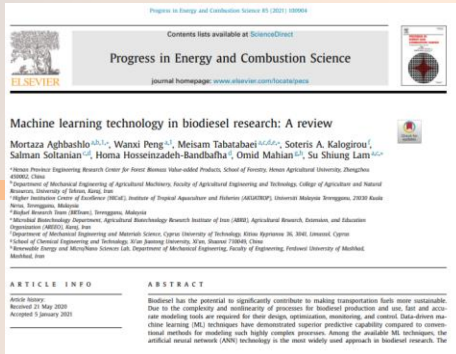
Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach

Shengbo Ge, Peter Nai Yuh Yek, Yoke Wang Cheng, Changlei Xia, Wan Adibah Wan Mahari, Rock Keey Liew, Wanxi Peng, Tong-Qi Yuan, Meisam Tabatabaei, Mortaza Aghbashlo, Christian Sonne, Su Shiung Lam

ARTICLE INFO

ABSTRACT

Renewable and Sustainable Energy Reviews
(**Q1, IF: 14.982, Citations: 15**)


Progress in Energy and Combustion Science 85 (2021) 100904

Contents lists available at ScienceDirect

Progress in Energy and Combustion Science

ELSEVIER

Machine learning technology in biodiesel research: A review

Mortaza Aghbashlo, Wanxi Peng, Meisam Tabatabaei, Soteris A. Kalogirou, Salman Soltanian, Homa Hosseinzadeh-Bandbafha, Omid Mahian, Su Shiung Lam

ARTICLE INFO

ABSTRACT

Biodiesel has the potential to significantly contribute to making transportation fuels more sustainable.

Progress in Energy and Combustion Science
(**Q1, IF: 29.394, Citations: 6**)

13

Long Review paper


Chemical Engineering Journal 397 (2020) 125406

Contents lists available at ScienceDirect

Chemical Engineering Journal

ELSEVIER

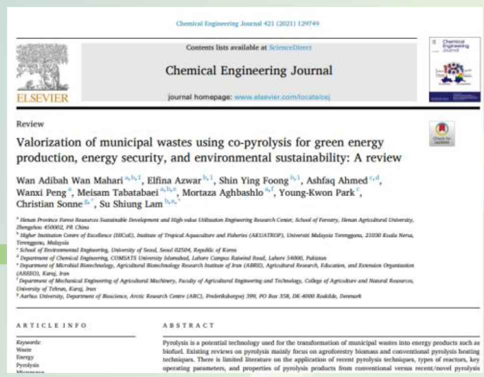
Fractionation and extraction of bio-oil for production of greener fuel and value-added chemicals: Recent advances and future prospects

Yi Herng Chan, Soh Kheang Loh, Bridgid Lai Fui Chin, Chung Loong Yiin, Bing Shen How, Kin Wai Cheah, Mee Kee Wong, Adrian Chun Minh Loy, Yong Ling Gwee, Shirleen Lee Yuen Lo, Suzana Yusup, Su Shiung Lam

HIGHLIGHTS

GRAPHICAL ABSTRACT

Chemical Engineering Journal
(**Q1, IF: 13.273, Citations: 15**)


Chemical Engineering Journal 421 (2021) 129749

Contents lists available at ScienceDirect

Chemical Engineering Journal

ELSEVIER

Review

Valorization of municipal wastes using co-pyrolysis for green energy production, energy security, and environmental sustainability: A review

Wan Adibah Wan Mahari, Elfina Azwar, Shin Ying Foong, Ashfaq Ahmed, Wanxi Peng, Meisam Tabatabaei, Mortaza Aghbashlo, Young-Kwon Park, Christian Sonne, Su Shiung Lam

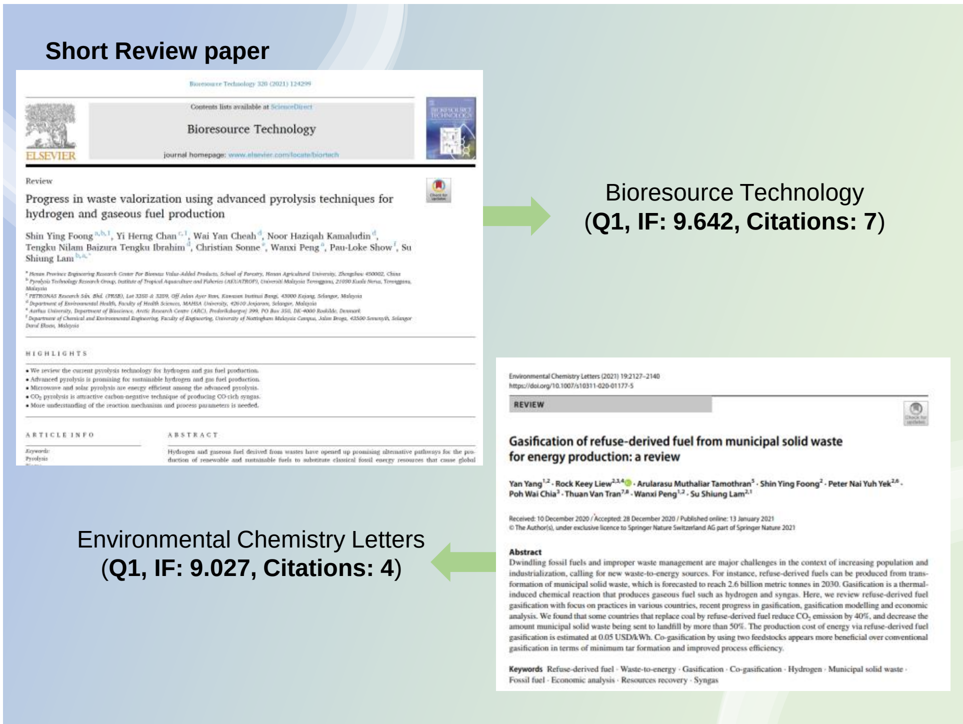
ARTICLE INFO

ABSTRACT

Pyrolysis is a potential technology used for the transformation of municipal wastes into energy products such as biofuel.

Chemical Engineering Journal
(**Q1, IF: 13.273, Citation: 1**)

14


Short Review paper
Bioresource Technology 320 (2021) 124299
Contents lists available at ScienceDirect
Bioresource Technology
journal homepage: www.elsevier.com/locate/biortech
Review
Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production
Shin Ying Foong, Yi Herng Chan, Wai Yan Cheah, Noor Haziqah Kamaludin, Tengku Nilam Baizura Tengku Ibrahim, Christian Sonne, Wanxi Peng, Pau-Loke Show, Su Shiung Lam
HIGHLIGHTS
ARTICLE INFO
ABSTRACT
Bioresource Technology
(Q1, IF: 9.642, Citations: 7)
Environmental Chemistry Letters (2021) 19:2127–2140
https://doi.org/10.1007/s10311-020-01177-5
REVIEW
Gasification of refuse-derived fuel from municipal solid waste for energy production: a review
Yan Yang · Rock Keey Liew · Arularasu Muthaliar Tamothran · Shin Ying Foong · Peter Nai Yuh Yek · Poh Wai Chia · Thuan Van Tran · Wanxi Peng · Su Shiung Lam
Received: 10 December 2020 / Accepted: 28 December 2020 / Published online: 13 January 2021
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Abstract
Dwindling fossil fuels and improper waste management are major challenges in the context of increasing population and industrialization, calling for new waste-to-energy sources. For instance, refuse-derived fuels can be produced from transformation of municipal solid waste, which is forecasted to reach 2.6 billion metric tonnes in 2030. Gasification is a thermal-induced chemical reaction that produces gaseous fuel such as hydrogen and syngas. Here, we review refuse-derived fuel gasification with focus on practices in various countries, recent progress in gasification, gasification modelling and economic analysis. We found that some countries that replace coal by refuse-derived fuel reduce CO2 emission by 40%, and decrease the amount municipal solid waste being sent to landfill by more than 50%. The production cost of energy via refuse-derived fuel gasification is estimated at 0.05 USD/kWh. Co-gasification by using two feedstocks appears more beneficial over conventional gasification in terms of minimum tar formation and improved process efficiency.
Keywords Refuse-derived fuel · Waste-to-energy · Gasification · Co-gasification · Hydrogen · Municipal solid waste · Fossil fuel · Economic analysis · Resources recovery · Syngas
Environmental Chemistry Letters
(Q1, IF: 9.027, Citations: 4)

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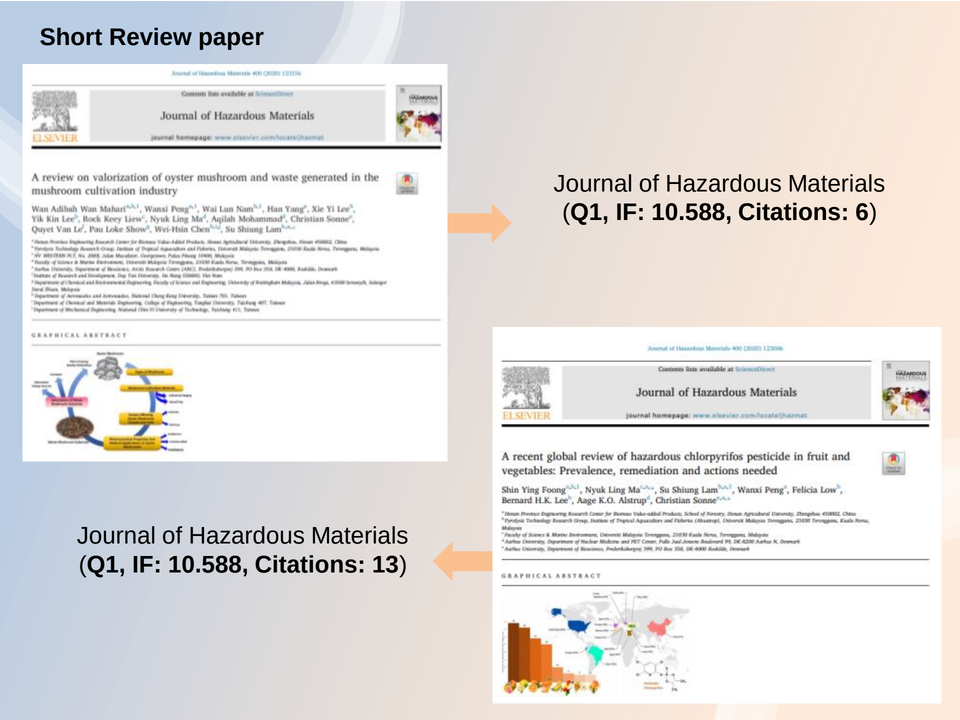
Short Review paper
Journal of Hazardous Materials 400 (2020) 123156
Contents lists available at ScienceDirect
Journal of Hazardous Materials
journal homepage: www.elsevier.com/locate/jhazmat
A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry
Wan Adibah Wan Mahari, Wanxi Peng, Wai Lun Nam, Han Yang, Xie Yi Lee, Yik Kin Lee, Rock Keey Liew, Nyuk Ling Ma, Aqilah Mohammad, Christian Sonne, Quyet Van Le, Pau Loke Show, Wei-Hsin Chen, Su Shiung Lam
GRAPHICAL ABSTRACT
Journal of Hazardous Materials
(Q1, IF: 10.588, Citations: 6)
Journal of Hazardous Materials 400 (2020) 123006
Contents lists available at ScienceDirect
Journal of Hazardous Materials
journal homepage: www.elsevier.com/locate/jhazmat
A recent global review of hazardous chlorpyrifos pesticide in fruit and vegetables: Prevalence, remediation and actions needed
Shin Ying Foong, Nyuk Ling Ma, Su Shiung Lam, Wanxi Peng, Felicia Low, Bernard H.K. Lee, Aage K.O. Alstrup, Christian Sonne
GRAPHICAL ABSTRACT
Journal of Hazardous Materials
(Q1, IF: 10.588, Citations: 13)

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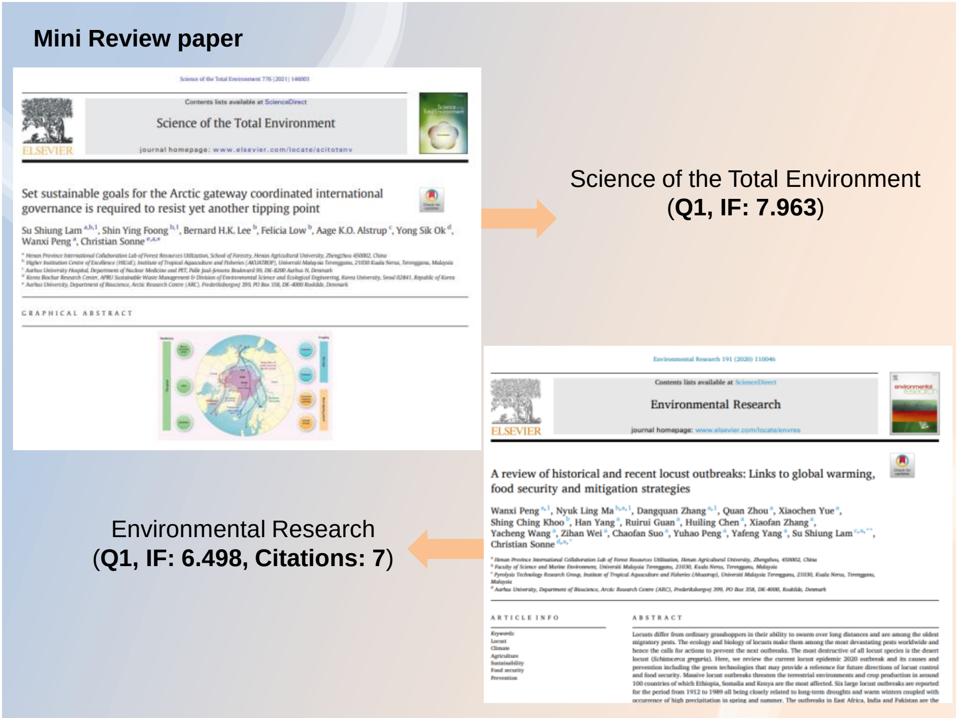
Mini Review paper
Science of the Total Environment
Set sustainable goals for the Arctic gateway coordinated international governance is required to resist yet another tipping point
Su Shiung Lam, Shin Ying Foong, Bernard H.K. Lee, Felicia Low, Aage K.O. Alstrup, Yong Sik Ok, Wanxi Peng, Christian Sonne
GRAPHICAL ABSTRACT
Science of the Total Environment
(Q1, IF: 7.963)
Environmental Research
A review of historical and recent locust outbreaks: Links to global warming, food security and mitigation strategies
Wanxi Peng, Nyuk Ling Ma, Dangquan Zhang, Quan Zhou, Xiaochen Yue, Shing Ching Khoo, Han Yang, Ruirui Guan, Huiling Chen, Xiaofan Zhang, Yacheng Wang, Zihan Wei, Chaofan Suo, Yuhao Peng, Yafeng Yang, Su Shiung Lam, Christian Sonne
ARTICLE INFO
ABSTRACT
Environmental Research
(Q1, IF: 6.498, Citations: 7)

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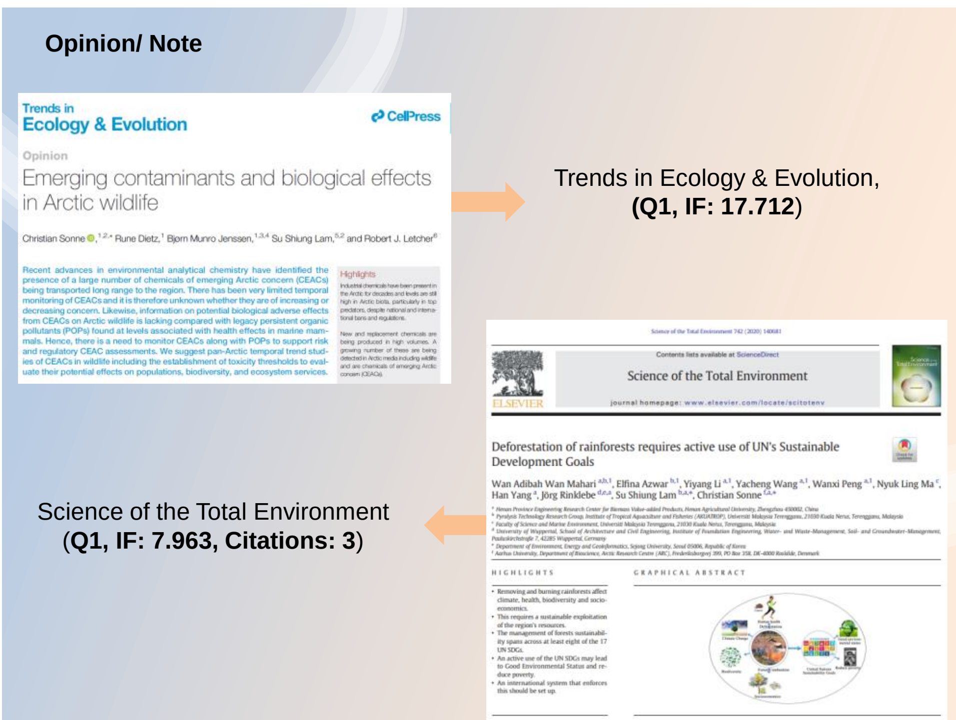
Opinion/ Note
Trends in Ecology & Evolution
CelPress
Opinion
Emerging contaminants and biological effects in Arctic wildlife
Christian Sonne, Rune Dietz, Bjørn Munro Jenssen, Su Shiung Lam, and Robert J. Letcher
Highlights
Trends in Ecology & Evolution,
(Q1, IF: 17.712)
Science of the Total Environment
Deforestation of rainforests requires active use of UN's Sustainable Development Goals
Wan Adibah Wan Mahari, Elfina Azwar, Yiyang Li, Yacheng Wang, Wanxi Peng, Nyuk Ling Ma, Han Yang, Jörg Rinklebe, Su Shiung Lam, Christian Sonne
HIGHLIGHTS
GRAPHICAL ABSTRACT
Science of the Total Environment
(Q1, IF: 7.963, Citations: 3)

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Reviewer for Journal

https://publons.com/researcher/1438933/su-shiung-lam/peer-review/

Journal Title	IF
Progress in Energy and Combustion Science	29.394
Trends in Biotechnology	19.536
Renewable and Sustainable Energy Reviews	14.982
Chemical Engineering Journal	13.273
Critical Reviews in Environmental Science &Technology	12.561
Water Research	11.236
Journal of Hazardous Materials	10.588
Resources, Conservation & Recycling	10.204
Applied Energy	9.746
Energy Conversion and Management	9.709
Bioresource Technology	9.642
Environment International	9.621
Journal of Cleaner Production	9.297
Composites Part B: Engineering	9.078
ACS Sustainable Chemistry & Engineering	8.198
Environmental Science: Nano	8.131
Environmental Pollution	8.071
Energy	7.147

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WHY PUBLISH ?

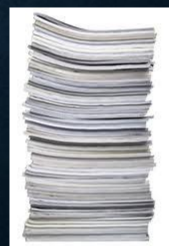
If your research is not published in a journal it does not exist.

It must be possible to find it !!

Prof Gustaf Olsson
Editor-in-Chief
Water Science & Technology

Source: Zaini Ujang, VC, UTM, Presentation on academic writing, February, 2010

Research isn't complete until it's published.
If research isn't shared, it's as if the research hadn't been done.



Work, finish, publish
(Michael Faraday)

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VALUE OF UNPUBLISHED WORK

- Who benefits?
  - Possibly, person who did the work (?)
  - Nobody
- Who is disadvantaged?
  - Other researchers
  - Funding body

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WHY REVIEW PAPERS?

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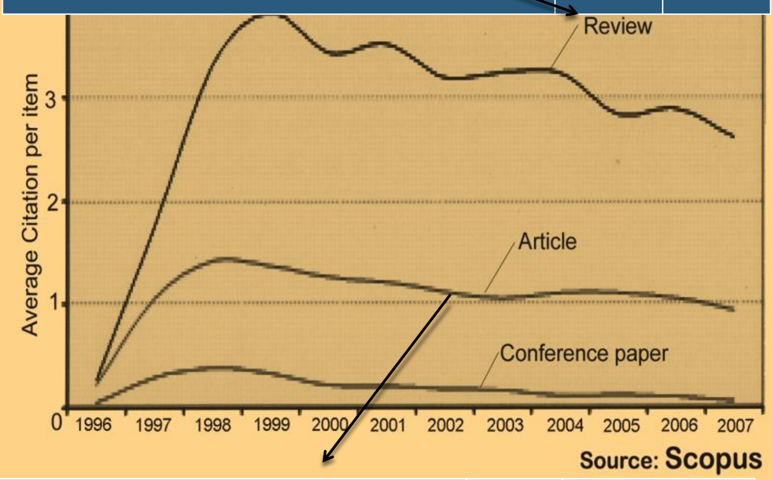
The Hallmarks of Cancer (Cell)	28,000 (citation)	2000 (year published)



Role of ambient temperature, door opening, on refrigerator-freezer energy consumption	18 (citation)	2002 (year published)

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CITATION TREND OF MY REVIEW PAPERS

Publication titles	Total citations	Year published
A review on waste to energy processes using microwave pyrolysis	184	2012
Progress in waste oil to sustainable energy, with emphasis on pyrolysis techniques	166	2016
Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions	111	2020
Progress in biomass gasification technique - With focus on Malaysian palm biomass for syngas production	85	2016
Transformation of biomass into carbon nanofiber for supercapacitor application – A review	74	2018
A critical review of the effects of pretreatment methods on the exergetic aspects of lignocellulosic biofuels	41	2020
Recent technologies for treatment and recycling of used disposable baby diapers	33	2019
Sustainable biofuel and bioenergy production from biomass waste residues using microwave-assisted heating: A comprehensive review	21	2021
Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach	15	2021

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Citation of review articles

Title of article	Journal name	Publication year	Total citations
Biodiesel production: a review	Bioresource Technology	1999	6334
Hydrolysis of lignocellulosic materials for ethanol production: a review	Bioresource Technology	2002	5652
Removal of heavy metal ions from wastewaters: A review	J. Envi. Management	2011	3336
Recent developments in Life Cycle Assessment	J. Envi. Management	2009	1955
Science and technology of novel processes for deep desulfurization of oil refinery streams: a review	Fuel	2003	1542

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Citation of review articles: Civil Engineering

Title of article	Journal name	Publication year	Total citations
Vibration based condition monitoring: A review	Structural health monitoring	2004	1027
Neural networks in civil engineering: 1989-2000	Computer-aided civil and infrastructure engineering	2001	443
Review of NDT methods in the assessment of concrete and masonry structures	NDT & E INTERNATIONAL	2001	453

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SCIENCE: CHEMISTRY/MATERIALS

Title of article	Journal name	Publication year	Total citations
The surface science of titanium dioxide	Surface Science Reports	2003	6927
TiO"2 photocatalysis and related surface phenomena	Surface Science Reports	2008	4562
A review of chitin and chitosan applications	Reactive and Functional Polymers	2000	5046
Recent developments in cathode materials for lithium ion batteries	Journal of Power Sources	2010	1210
Science and technology of novel processes for deep desulfurization of oil refinery streams: a review	Fuel	2003	1542

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Biochemistry, Genetics and Molecular Biology

Title of article	Journal name	Publication year	Total citations
Hallmarks of Cancer: The Next Generation	Cell	2011	28930
Synthesis and surface engineering of iron oxide nanoparticles for biomedical applications	Biomaterials	2005	5765
MicroRNAs - Genomics, Biogenesis, Mechanism, and Function	cell	2004	27111

29

Physics and Astronomy

Title of article	Journal name	Publication year	Total citations
Complex networks: Structure and dynamics	Physics report	2006	8122
Raman spectroscopy in graphene	Physics report	2009	3008
Community detection in graphs	Physics report	2010	6521

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WHY CITATION IS SO IMPORTANT?

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IMPORTANCE OF CITATIONS

- An indicator of IMPACT (usefulness)
- Very important ranking criteria

Citations per faculty (20%)

- Become internationally recognized researcher
- Need for promotion
- Highly cited authors/rewarding (e.g. plenary/keynote/invited speaker, contribute book chapter, joint review paper, grant application, etc)

32

WHAT IS A REVIEW PAPER?

33

what is a review paper?

May review almost anything, typically recent work

Designed to summarize, analyze, evaluate, or synthesize information that has already been published

Must be general/broad

No one has reported before

No original work

34

HOW TO WRITE A REVIEW PAPER?

35

What is a literature review?

- A description of your topic area, supported by references (Own and others work)
- A summary, discussion and critical analysis of academic work related to your research question

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STRUCTURE OF A MANUSCRIPT

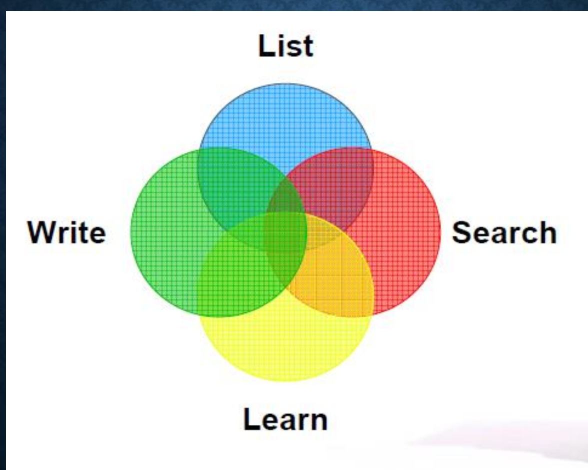
- Title and author (s)
- Abstract
- Keywords
- Nomenclatures
- TOC
- Introduction
- Literature review
- Main body (Building your story)
- Tables/Figures (Number, quality, redundancy, legend, …)
- Conclusions
- Acknowledgements (If any)
- References
  - Format/style
  - Types (Journals, books, reports, conference proceedings)
  - Number?
- Appendix

How many pages?
How many references?

Best way to get a similar published papers on the topic

37

Literature review as a process



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TITLE

- Tell readers what your paper is all about
- The title of the manuscript needs to be short and relevant to the subject matter
- Attract the reader's attention
- General/broad for larger audience
- Avoid jargon and abbreviations

39

Examples of good title

1. Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production
2. Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach
3. A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry

40

Examples of good title

4. Emerging contaminants and biological effects in Arctic wildlife

5. A review of historical and recent locust outbreaks: Links to global warming, food security and mitigation strategies

6. Machine learning technology in biodiesel research: A review

41

Author (s) names

- Author names and affiliations should be in the following format.

Su Shiung Lam [a] , Nyuk Ling Ma [b], Wanxi Peng [c] and Christian Sonne [d]

a) Pyrolysis Technology Research Group, Higher Institution Centre of Excellence (HICoE), Institute of Tropical Aquaculture and Fisheries (AKUATROP), Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Email: lam@umt.edu.my

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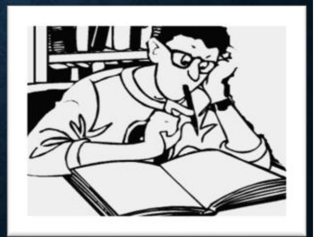
Abstract

Tell readers what you did and the important findings

- The abstract should be *short and precise* giving clear indication of what investigation has been described in the manuscript and the precise conclusion to entice/attract the journal editors/readers.
- It is the summary of the work
- About *200-300 words* should be sufficient.



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Ge, S., Yek, P.N.Y., Cheng, Y.W., Xia, C., Wan Mahari, W.A., Liew, R.K., Peng, W., Yuan, T.Q., Tabatabaei, M., Aghbashlo, M., Sonne, C.**, Lam, S.S.*** 2021. Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. ***Renewable and Sustainable Energy Reviews***, 135. (DOI: 10.1016/j.rser.2020.110148).

Q1, IF 12.110, Published: 2021

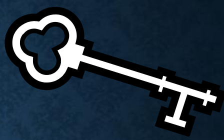
ABSTRACT

Microwave pyrolysis (MP) has emerged as a promising technique to valorize agricultural wastes (AW) into biofuels, comprising biochar, bio-oil, and syngas. To fill the research gap, we review the state-of-the-art MP conversion of AW into value-added biofuels, including the influence of feedstock composition, new reactor designs, operating conditions, catalytic applications, and reaction mechanisms. The techno-economic and environmental impacts are discussed together with key implications for future development. Microwave valorization of AW to biofuels represents an economically viable cum environmentally-benign approach by virtue of (i) high availability of AW, (ii) scalable process, (iii) great potentiality for continuous operation, and (iv) thermochemical process with positive energy ratio. For continuous MP, the microwave heating distribution, products yield, and reactor design have not yet fully explored due to the limited understanding on microwave propagation pattern, materials handling, and varying feedstock compositions. The utilization of AW as biofuels feedstock offers several environmental advantages in terms of improved biomass utilization, enhanced carbon sequestration, and lower sulphur emission. The toxicity of bio-oil can be reduced by adding metal oxide catalysts (CaO, CuO, MgO, and NiO) to lessen its content of polycyclic aromatic hydrocarbons. The process of continuous MP can be optimized by coupling shaftless auger and multiple magnetron to improve the quality of the biofuel, and uniformity of microwave heating. It is envisaged that continuous conversion of AW to biofuels is a sustainable, low carbon footprint, and alternative energy generation route, provided that the appropriate catalyst, effective condenser, and self-purging condition are chosen.

Background → Objective → Methods → Main findings → Conclusion

44

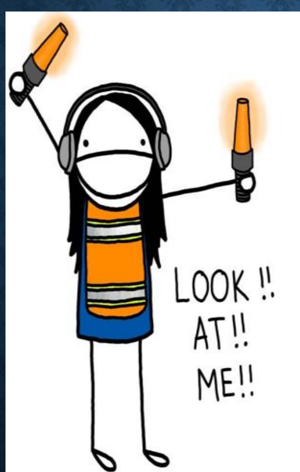
Keywords



Used by indexing and abstracting services:

- They are the labels of your manuscript
- The keywords should *reflect the subject matter* of the manuscript in the same way the title of the manuscript should.
- As such most of the keywords may already be *present in the title*.
- The number of keywords should not be more than *five*.
- Use only established abbreviations (i.e. DNA)

INTRODUCTION



Needs to get readers attention

Cite/give credit to others work

47

Introduction

Provide context to convince readers that you clearly know why your work is important

- The introduction section should contain *brief statement* of the need for the investigation, review of up to date literature and specific objectives.

- This section should reflect the new contents of the review

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INTRODUCTION

Too long
Too general/does not reflect content
No objectives/Objectives are not clear/achievable/measurable
Not focused
Novelty is not highlighted
Latest/ relevant literature

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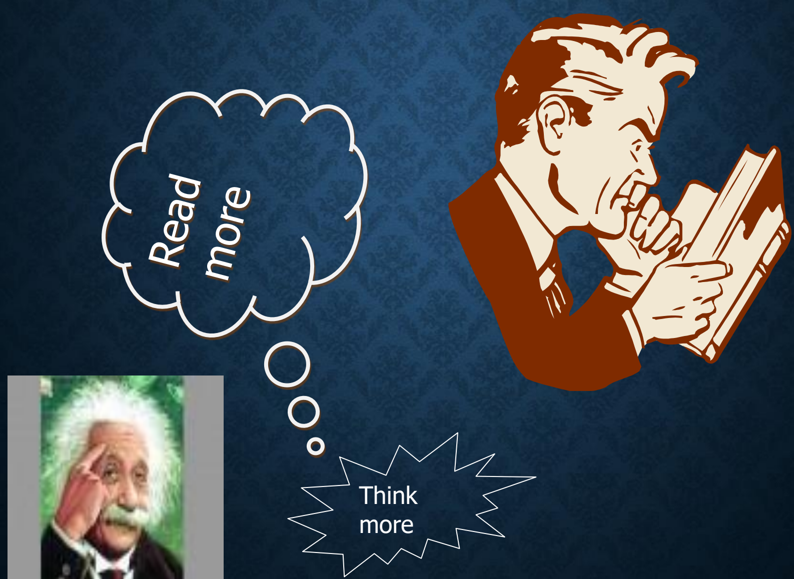
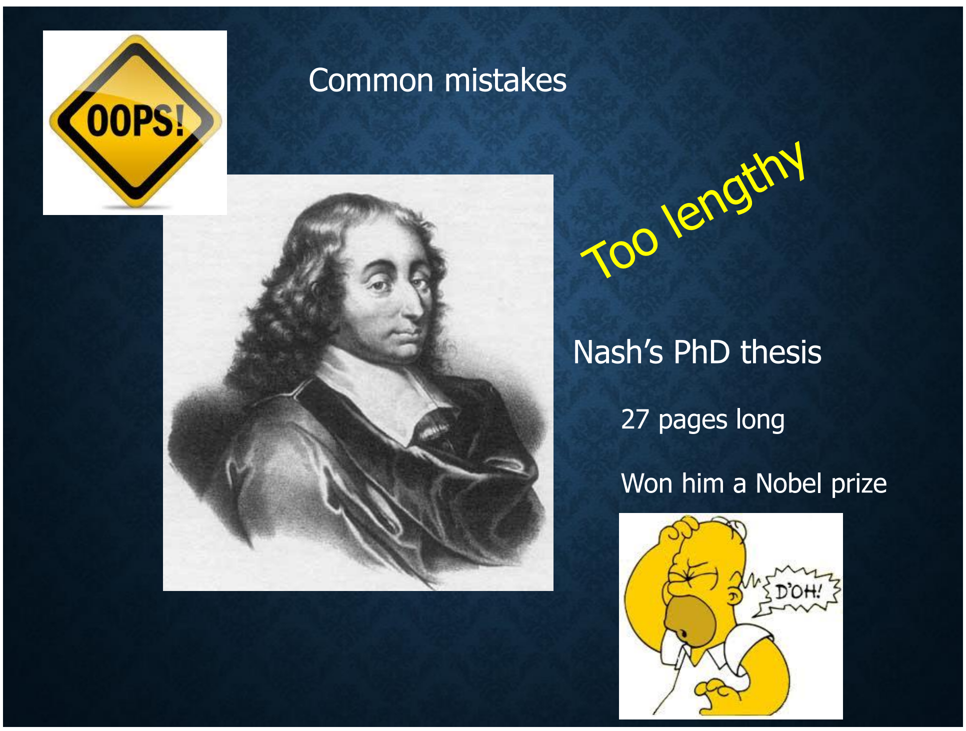
HOW TO GENERATE NEW IDEA



50


Write
more

51


OOPS!
Common mistakes
Too lengthy
Nash's PhD thesis
27 pages long
Won him a Nobel prize
D'OH!

52

Examples in addressing originality (Review paper)

The authors of the paper cited in reference [8] have briefly discussed various solar PV panel cooling technologies.
However, only a few technologies were introduced while the main focus of the paper was on the testing and performance of a developed Ground-Coupled Central Panel Cooling System (GC-CPCS).

In reference [9], the authors presented an overview of various methods that can be employed for cooling photovoltaic cells.
However, when looking closely, it can be seen that the focus of the paper was only on examining the passive, forced air and liquid forced convection cooling methods applied to different solar concentrator systems.

Unlike the above-mentioned review studies, this paper provides a comprehensive review of how different technologies can be used to minimize the negative effects of increased temperature, while trying to improve the performance of a PV panel operating beyond the recommended temperature of the Standard Test Conditions (STC).
Taken from;

Renewable and Sustainable Energy Reviews 79 (2017) 192–203

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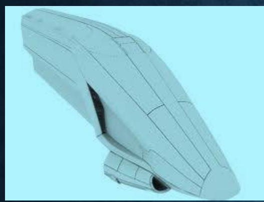
SOURCES OF LITERATURE

- Sciencedirect
- IEEE explore
- Springer
- Taylor and Francis
- Multiscience
- Inderscience
- Wiley
- Yahoo, Google search (put key words)
- Scopus
- Engineering Village
- Pro-quest-digital dissertation
- Ingentaconnect
- Personal communications
- Etc…

54



MAIN BODY

55

TIPS

Depending on the level of expertise and experiences

- one can write a reviewer paper as short as 4-6 pages even with 5-10 references
- It can be up to 100 pages with 300-500 references

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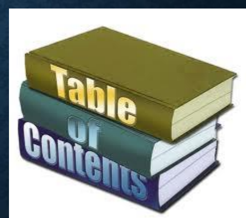
TIPS

- Its quite easy to publish in some Journals
- However, its really very difficult in some journals
- Prepare a Table of Content



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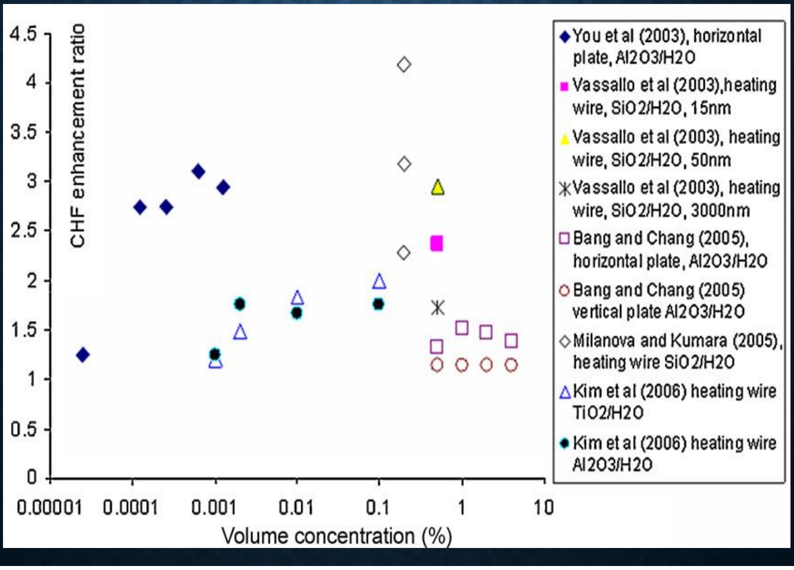
Critical review/Key features

58

Example review Figure



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Example review Figure

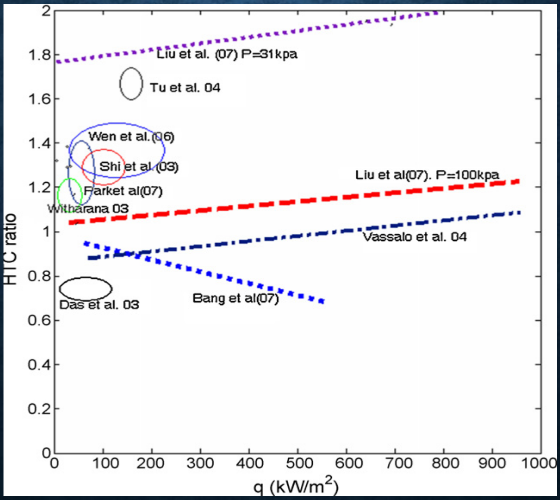

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Table 2
Solar pyrolysis for gaseous fuel production.

Feedstock	Investigated parameter and range					Reactor type and scale	Gas yield	Syngas composition/yield				Reference
	Temperature	Heating rate	Sweeping gas flow rate	Particle size	Reaction time			H_2	CO	CH_4	C_2H_6	
Beech wood	800–2000 °C	50–450 °C/s	4–8 nlpm (Argon)	10 mm × 5 mm (pellet)	5 min	1.5 kW vertical solar furnace	23.8–74.6 wt%	1.8–28.9 mol/kg of wood	5.2–21.2 mol/kg of wood	nd	nd	(Zeng et al., 2015)
Chicken-litter waste	800–1600 °C	10–500 °C/s	9 nlpm (Argon)	280-µm	5 min	1.5 kW lab-scale solar furnace	10–39 wt%	29–46 mol%	26–48 mol%	4–24 mol%	0–5 mol%	(Weldekidan et al., 2020)
Rice husk	800–1600 °C	10–500 °C/s	9 nlpm (Argon)	280-µm & 500 µm	5 min	1.5 kW lab-scale solar furnace	• For 280-µm: 12–39 wt% • For 500-µm: 20–37 wt%	• For 280-µm: 13–50 mol% • For 500-µm: 19–41 mol%	• For 280-µm: 44–50 mol% • For 500-µm: 43–50 mol%	• For 280-µm: 5–12 mol% • For 500-µm: 4–14 mol%	• For 280-µm: 0–2 mol% • For 500-µm: 0–4 mol%	(Weldekidan et al., 2020)
Algal biomass (*E. compressa*)	250–600 °C	20–100 °C/min	3–15 L/min (Nitrogen)	<0.5–2.5 mm	60 min	1.4 kW vertical solar furnace	12–59 wt%	< 5 vol%	25–34 vol%	0–20 vol%	nd	(Rahman, 2020)
Willow wood	600–1600 °C	10, 50 °C/s	9 nlpm (Argon)	0.5–1 mm	5 min	1.5 kW vertical solar furnace	10.8–47.0 wt%	0.16–12.1 mol/kg	1.9–12.9 mol/kg	0.2–1.7 mol/kg	0–0.58 mol/kg	(Zeng et al., 2019)
Cu/willow wood	600–1600 °C	10, 50 °C/s	9 nlpm (Argon)	0.5–1 mm	5 min	1.5 kW vertical solar furnace	10.0–47.0 wt%	0.3–12.2 mol/kg	2.0–14.0 mol/kg	0.3–2.0 mol/kg	0–0.72 mol/kg	(Zeng et al., 2019)
Ni/willow wood	600–1600 °C	10, 50 °C/s	9 nlpm (Argon)	0.5–1 mm	5 min	1.5 kW vertical solar furnace	16.0–47.5 wt%	2.3–11.2 mol/kg	3.8–13.7 mol/kg	0.6–1.9 mol/kg	0–0.56 mol/kg	(Zeng et al., 2019)
Pine sawdust	800–2000 °C	10–150 °C/s	6 nlpm (Argon)	100 µm	5 min	Vertical solar furnace	29.4–63.5 wt%	24–44 mol%	46–52 mol%	4–10 mol%	2–3 mol%	(Li et al., 2016)
Peach pit	800–2000 °C	10–150 °C/s	6 nlpm (Argon)	100 µm	5 min	Vertical solar furnace	20–55 wt%	23–46 mol%	43–47 mol%	5–14 mol%	2–4 mol%	(Li et al., 2016)
Grape stalk	800–2000 °C	10–150 °C/s	6 nlpm (Argon)	100 µm	5 min	Vertical solar furnace	20–55 wt%	42–51 mol%	11–43 mol%	4–26 mol%	2–5 mol%	(Li et al., 2016)
Grape marc	800–2000 °C	10–150 °C/s	6 nlpm (Argon)	100 µm	5 min	Vertical solar furnace	20–55 wt%	49–50 v	32–45 mol%	1–6 mol%	1–4 mol%	(Li et al., 2016)

*nd: not disclosed.

Foong, S.Y., Chan, Y.H., Cheah, W.Y., Kamaludin, N.H., Tengku Ibrahim, T.N.B., Sonne, C., Peng, W., Show, P.L., Lam, S.S. 2021. Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production. **Bioresource Technology**, 320. **Q1, IF : 7.539**

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Table 6
Key findings on fractionation and extraction of bio-oil using other methods.

Method	Feedstock	Eluent	Species isolated	Purity/yield	Observations	Reference
Column chromatography	Bio-oil from sewage sludge via fast pyrolysis	Binary mixture of n-hexane, ethyl acetate or/and methanol	Aromatic organic nitrogen species, alkanenitriles (C13–C18), oleonitrile, lactams and amides	Yield: 5 – 18%	Eight stages of elution	[99]
	Bio-oil from rice husk via fast pyrolysis	• Ethyl acetate; ethanol • Petroleum ether	Phthalate esters	Purity: 62.59–89.63%	Bio-oil was treated via basification–acidification process, followed by water dilution prior to chromatography separation.	[100]
	Bio-oil from wheat stalk via ethanolysis	Benzene/Carbon disulfide (CS2) 1:1	• C8–C30 alkanes • Phenols • Acetophenone	Purity: 97.6% (C8–C30 alkanes), 100% (phenols), 71.2% (acetophenone)	Bio-oil underwent multiple stages of organic solvent extraction prior to chromatography separation.	[101]

Method	Feedstock	Parameters investigated	Species isolated	Concentration in feed	Retention factor	Observations	Reference
Reverse Osmosis (RO) Flat Sheet Membrane	Green pinewood via fast pyrolysis	• Pressure: 1 MPa • Temperature: 21 °C • Flow configuration: Cross flow	• Glucose • Total sugar	• 15.09 wt% (glucose) • 24.97 wt% (total sugar)	• 85% (glucose) • 67% (total sugar)	Extraction step using butanol and ethyl acetate before membrane separation were tested to improve membrane performance. With removal phenolic and other lignin degradation compounds, increased permeate flux (86 to 156 kg/h·m²) and reduced fouling (25 to 13.7) were recorded.	[102]
Nanofiltration (NF) and Reverse Osmosis (RO) Flat Sheet Membranes	Model aqueous fraction of bio-oil (AFBO)	• Pressure: 4-5.8 MPa • Flow configuration: Cross flow	• Glucose • Acetic acid • Hydroxyacetone • Furfural	• 15 wt% (glucose) • 7 wt% (acetic acid) • 4.65 wt% (hydroxyacetone) • 2.3 wt% (furfural)	• 83.1% (glucose) • -16.7% (acetic acid) • -15.9% (hydroxyacetone) • -35.6% (furfural)	Guaiacol and phenol in model AFBO caused irreversible damage to the membranes.	[103]

Method	Feedstock	Parameters investigated	Species isolated	Concentration in feed	% removed	Observations	Reference
Electrosorption	Bio-oil from switchgrass via intermediate pyrolysis	• Potential: 1.4 V • Electrosorption time: 2 h • Regeneration: 20 min	• Acetate • Propionate	• 3.2–433.5 mM (acetate) • 0.4–54.8 mM (propionate)	• 77% (acetate) • 37% (propionate)	Prior to capacitive deionization (CDI), bio-oil was treated with water dilution at different ratios. The acids (acetate and propionate ions) removal was more effective on the bio-oil of a higher water dilution factors due to the limited ion capacity of the electrodes.	[104]

Method	Feedstock	IL	Parameters investigated	Species isolated	Concentration in feed	Extraction rate	Observations	Reference
Liquid-liquid extraction by ionic liquid (IL)	Bio-oil from organosolv lignin via pyrolysis	[Choline][NTf₂]	Ratio of IL to aqueous phase: 0.5:1, pH 6	• Phenol • Cresol • Guaiacol • Syringol • Acetophenone	• 18 wt% (phenol) • 8 wt% (cresol) • 17 wt% (guaiacol) • 5 wt% (syringol) • 11 wt% (acetophenone)	• 78% (phenol) • 88% (cresol) • 82% (guaiacol) • 80% (syringol) • 78% (acetophenone)	IL showed superior extraction rate in two stages compared to ethyl acetate, which requires four stages.	[105]
	Model aqueous fraction of bio-oil	$P_{666,14}$Cl, $P_{666,14}$[N(CN)$_2$], $P_{666,14}$[Phos], Hmim[B(CN)$_4$], Omim[B(CN)$_4$]	• Ratio of IL to aqueous phase: 1:1 • Temperature: 25–60 °C	• Acetic acid • Acetol • Glycolaldehyde	• 10 wt% (acetic acid) • 10 wt% (acetol) • 5 wt% (glycolaldehyde)	• ~92% (acetic acid) • ~47% (acetol) • ~53% (glycolaldehyde)	• Phosphonium ILs showed the highest extraction efficiency for acetic acid and glycolaldehyde, with reasonable affinity for acetol.	[106]

Chan, Y.H., Loh, S.K., Chin, B.L.F., Yiin, C.L., How, B.S., Cheah, K.W., Wong, M.K., Loy, A.C.M., Gwee, Y.L., Lo, S.L.Y., Yusup, S., Lam, S.S. 2020. Fractionation and extraction of bio-oil for production of greener fuel and value-added chemicals: Recent advances and future prospects. **Chemical Engineering Journal**, 397, 125406. **Q1, IF: 10.652**

62

Conclusions

- The conclusions section should contain *short and precise* concluding remarks arising out of the investigation.
- Only the *very important points* should be included in this section.
- It is the concrete achievement/findings of the work
- Should highlight the achievements of objectives

Conclusions

5. Conclusion

This review presents various advanced pyrolysis techniques as potential routes to produce hydrogen and gaseous fuel. Current technologies and waste feedstock used in hydrogen and gaseous fuel production as found in the scientific literature showed that there are six types of advanced pyrolysis technologies and the key parameters that influence gas yield and composition are revealed. These key parameters are type of feedstock, reaction temperature, carrier gas flow rate and feedstock size. Challenge and future direction of advanced pyrolysis technologies have also been discussed to improve the yield and quality of hydrogen and gaseous products.

Foong, S.Y., Chan, Y.H., Cheah, W.Y., Kamaludin, N.H., Tengku Ibrahim, T.N.B., Sonne, C., Peng, W., Show, P.L., Lam, S.S. 2021. Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production. **Bioresource Technology**, 320. **Q1, IF : 7.539**

Acknowledgement (s)

- The acknowledgement is used to give credit to the *funding authorities* of the research work, *collaborators* or *other colleagues* whose names do not appear as co-authors but who made some contribution in producing the material for the manuscript.

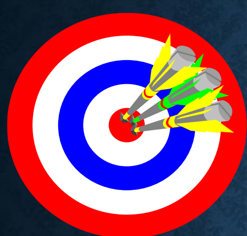
65

STEP BY STEP PROCEDURE TO WRITE A REVIEW PAPER

66

WHERE TO PUBLISH

67

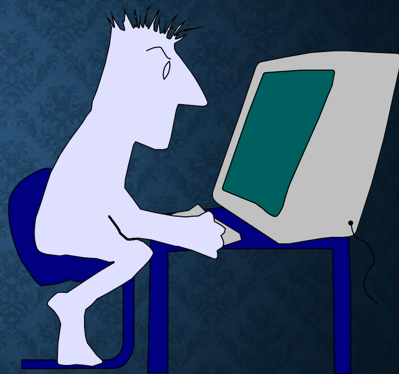


JOURNAL SELECTION PROCESS

Time

68

WHERE TO PUBLISH



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IMPACT FACTORS

"My question is: Are we making an impact?"

70

TOP NOTCH JOURNALS

- The New England Journal of Medicine: IF 94.245
- The Lancet: IF 79.321
- Chemical reviews : IF 60.622
- Nature: IF 49.962
- Science: IF 47.728
- Cell : IF 41.582
- Top journals in my field :
  - Progress in Energy and Combustion Science (IF 29.394)
  - Renewable and Sustainable Energy Reviews (IF 14.982)
  - Chemical Engineering Journal (IF 13.273)
  - Journal of Hazardous Materials (IF 10.588)

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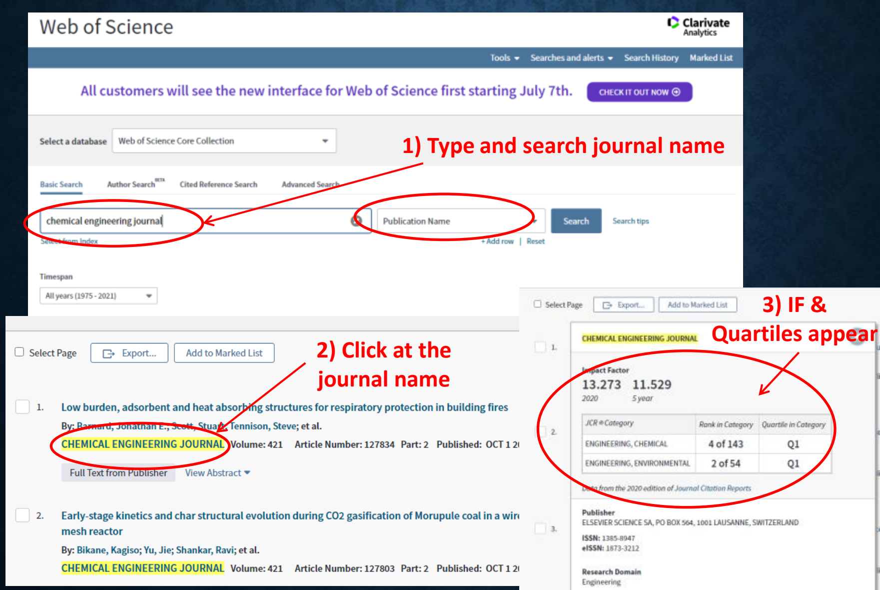

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How to find quick publication list of journals

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Accepted 29 April 2009
Available online 28 May 2009

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73

ARTICLE INFO

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74

Bioresource Technology 320 (2021) 124299

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Review

Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production

Shin Ying Foong[a,b,1], Yi Herng Chan[c,1], Wai Yan Cheah[d], Noor Haziqah Kamaludin[d], Tengku Nilam Baizura Tengku Ibrahim[d], Christian Sonne[e], Wanxi Peng[a], Pau-Loke Show[f], Su Shiung Lam[b,a,*]

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https://doi.org/10.1016/j.biortech.2020.124299
Received 30 August 2020; Received in revised form 14 October 2020; Accepted 15 October 2020
Available online 22 October 2020
0960-8524/

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Where to publish?

- See publication history
- Get experiences by publishing in diverse group journals
- Some journals even initially reject
- Some journals allow submissions and process for a review
- Invite international experts to make team stronger
- **Don't submit many papers by the same author in the same journal!**

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BEST PAPER SELECTION PROCESS

77


TOP 25
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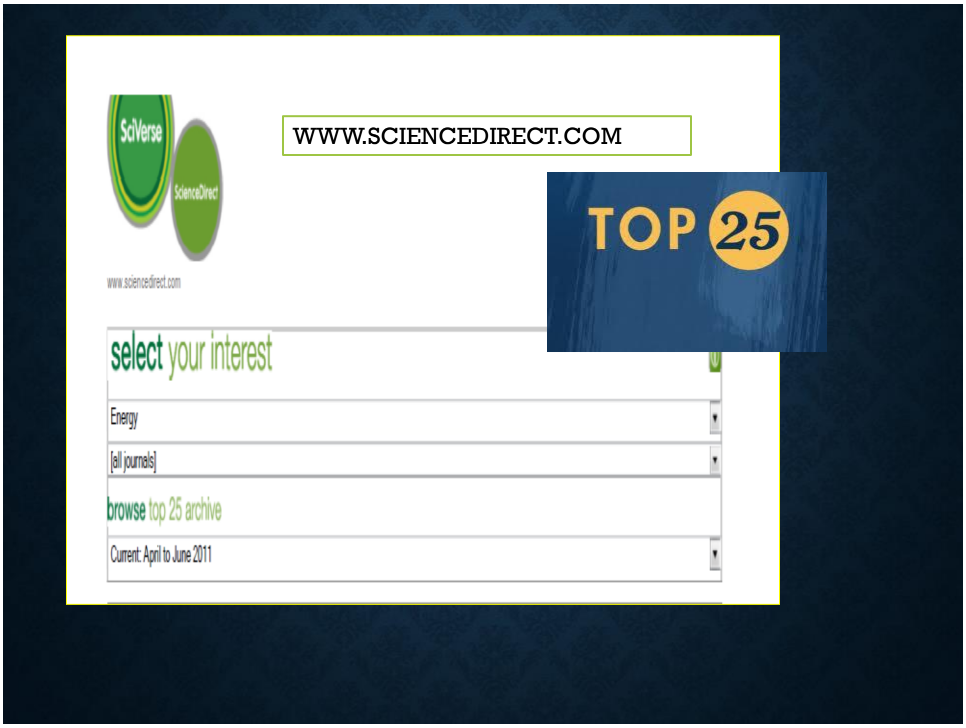
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AppliedEnergy
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Applied Energy, Volume 88, Issue 4, April 2011, Pages 981-1007
Wang, Y.; Chen, K.S.; Mishler, J.; Cho, S.C.; Adroher, X.C.
Cited by SciVerse Scopus (8)
2. A review on biodiesel production using catalyzed transesterification • Review article
Applied Energy, Volume 87, Issue 4, April 2010, Pages 1083-1095
Leung, D.Y.C.; Wu, X.; Leung, M.K.H.
Cited by SciVerse Scopus (54)
3. Biofuels from algae for sustainable development
Applied Energy, Volume 88, Issue 10, October 2011, Pages 3473-3480
Demirbas, M.F.
Cited by SciVerse Scopus (1)
4. Competitive liquid biofuels from biomass • Review article
Applied Energy, Volume 88, Issue 1, January 2011, Pages 17-28
Demirbas, A.
Cited by SciVerse Scopus (15)
5. Biodiesel production by microalgal biotechnology • Review article
Applied Energy, Volume 87, Issue 1, January 2010, Pages 38-46
Huang, G.; Chen, F.; Wei, D.; Zhang, X.; Chen, G.
Cited by SciVerse Scopus (60)
6. Advances and perspectives in using microalgae to produce biodiesel
Applied Energy, Volume 88, Issue 10, October 2011, Pages 3402-3410
Amaro, H.M.; Guedes, A.C.; Malcata, F.X.
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7. Opportunities and challenges for biodiesel fuel • Review article
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Lin, L.; Cunshan, Z.; Vittayapadung, S.; Xiangqian, S.; Mingdong, D.
Cited by SciVerse Scopus (7)
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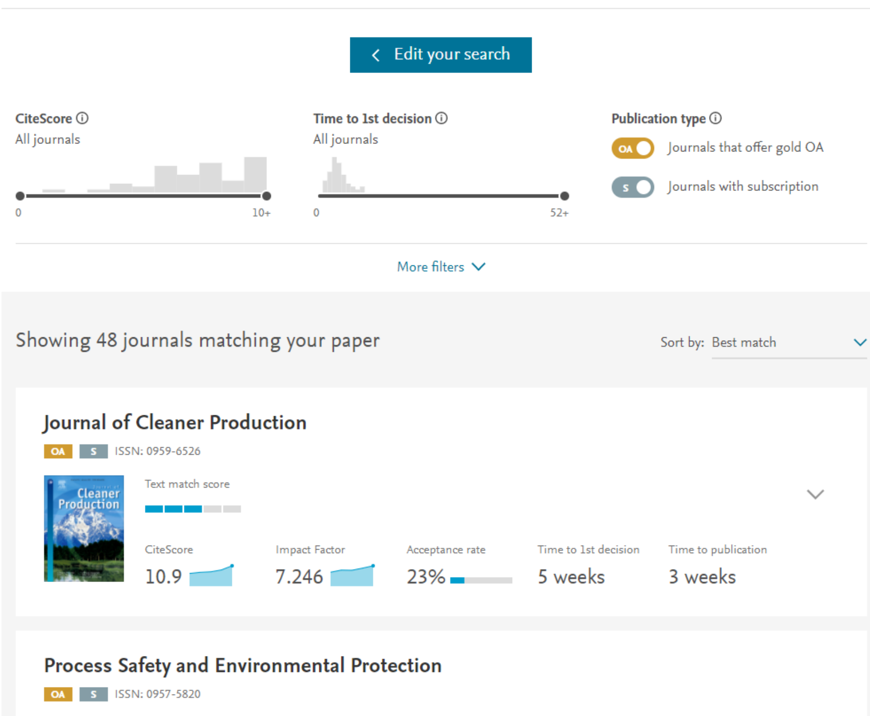
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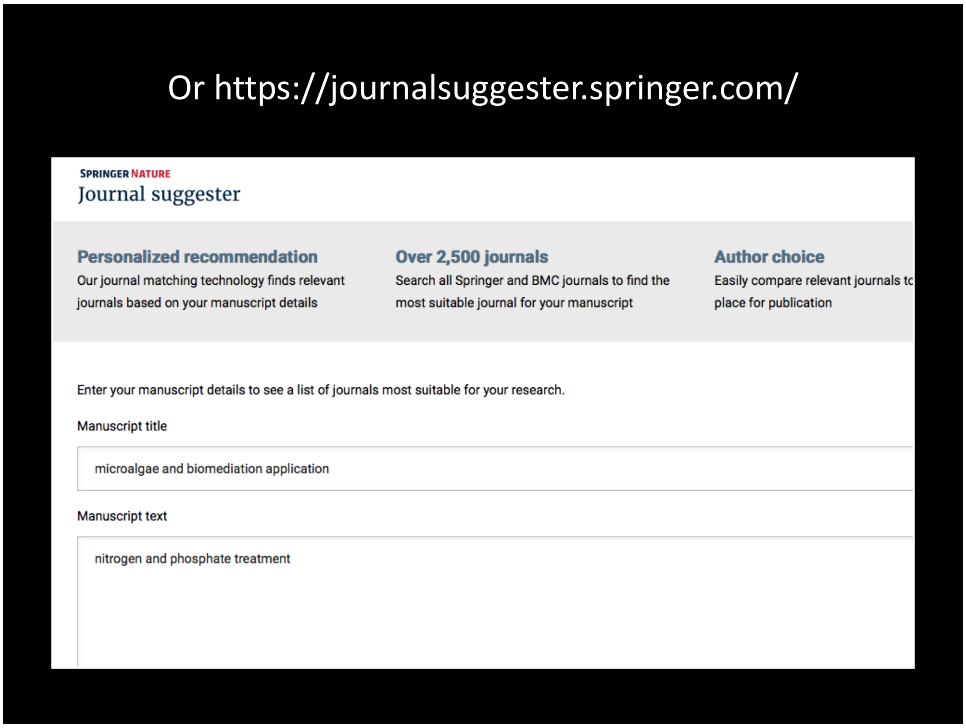
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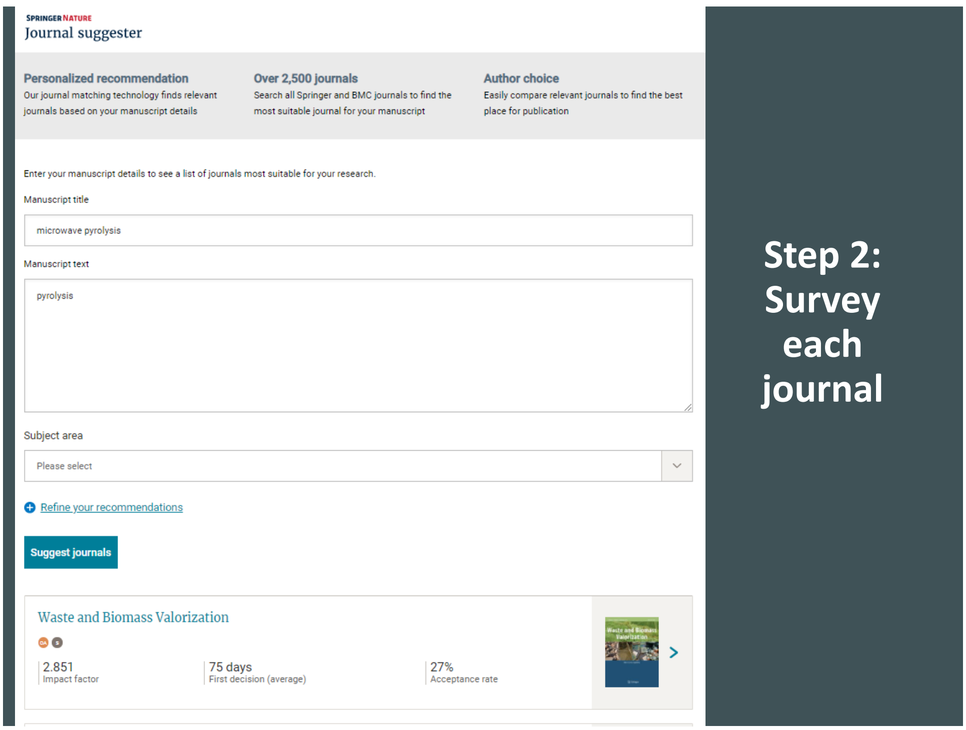
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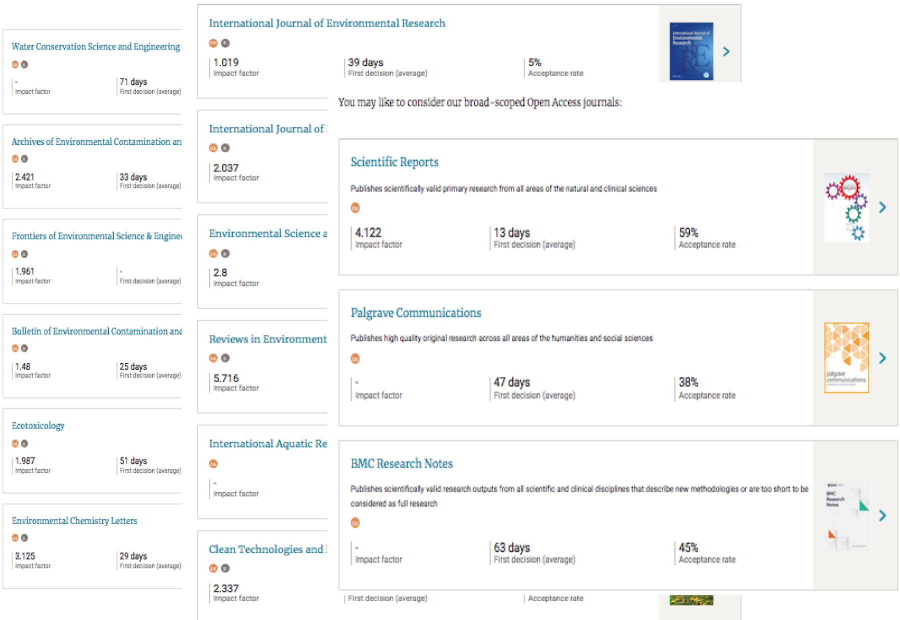

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HOW TO SUBMIT

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SUBMISSION OF A REVIEW MANUSCRIPT

- Some journals accept submission of a review manuscript only by **invitation**
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- Some Journals allow submission of **both** (Original research article and review article)
- Some Journals Editors ask authors **CV** to verify expertise in the field

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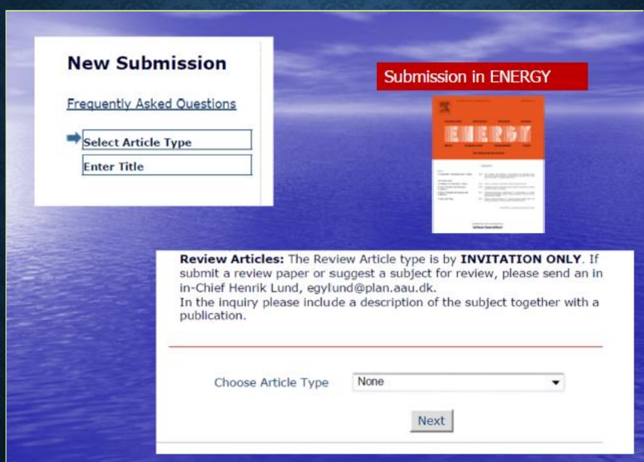

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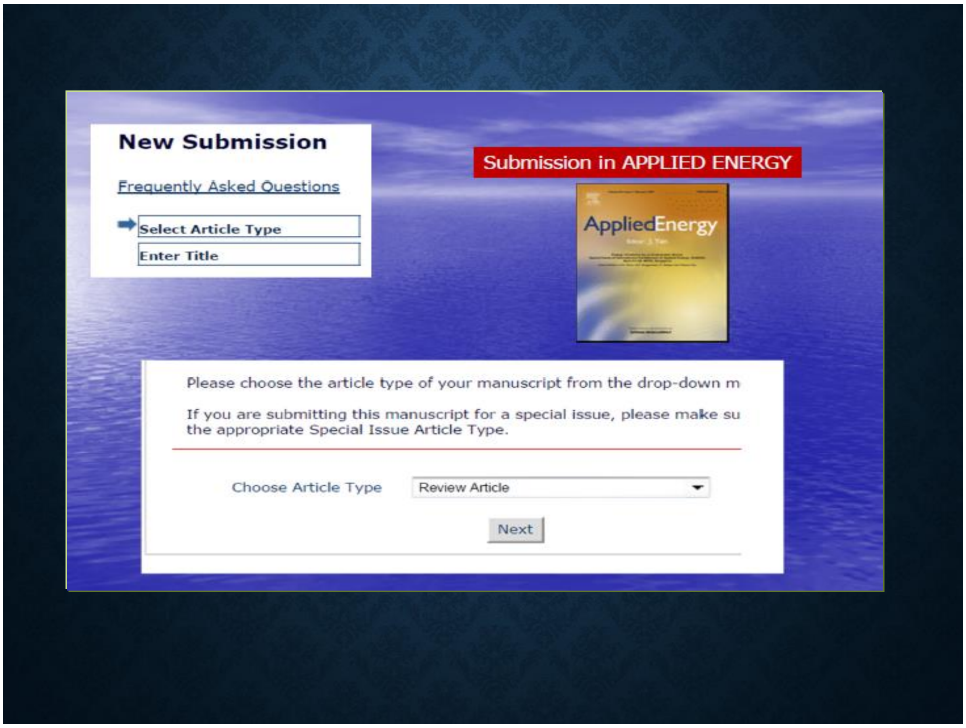

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CHALLENGES IN SUBMITTING REVIEW PAPER

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WHATS ARE CHALLENGES

- Need to be steadfast, patient, never give up
- Sometimes rejected after submission of many times in different journals
- Challenging comments from editors/reviewers
- Identify alternatives
- Lack of expertise

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