

ABBS2021 Abstract and Full Paper Submission Guidelines

1.0 *Where to publish?*

The selected peer reviewed papers will be published in:

- 1) Abstract Proceeding ABBS2021
- 2) International Journal of Hydrogen Energy, ISSN: 0360-3199 (Publisher: Elsevier) - Impact Factor (2020): 4.939.
- 3) Nanomaterials, ISSN 2079-4991 (Publisher: MDPI) - Impact Factor: 4.324. Special Issue "Applications of Fractional Nanofluids in Chemical Processes" [Article processing charge (APC) of 2200 CHF (Swiss Francs)]
- 4) ESCI indexed journal (TBA).
- 5) Chapter in book (TBA).

2.0 *What is the submission procedure?*

The deadline of abstract and full paper submission is 31st August 2021. Abstract and full paper should be sent to the <https://www.ukm.my/abbs/submission/>. All selected manuscripts will be sent for review and submitted to the publishers, if accepted. The participants may choose one of the publications they wish to submit their full paper by filling the **Full Paper Submission Form** (in the last page of this guideline), which has to be attached in the email during the full paper submission. The format of the manuscript must be following exactly the style required (as shown in Section 4.0). The committee will pre-screen the full papers before the submission for review process. Full papers which have been rejected during the pre-screening process will not be considered for other publications.

3.0 *What is the pre-requirement?*

- i. The scientific committee of ABBS2021 will pre-screen all manuscripts to make sure that the papers meet the standard and scope of each publication.
- ii. Manuscripts that do not meet the formatting requirement will not be processed.
- iii. The committee will only process the manuscript after full payment of registration is made.
- iv. One full registration fee is only for one manuscript.
- v. The title of the manuscript shall be similar with the title of the presentation.
- vi. One of the authors must present in the symposium (invited, oral or poster).

4.0 What is the style of the manuscript?

All papers must be in English and submitted in MS Word DOC. The participant should prepare their full paper according to the publication their wish to submit (as below).

i. International Journal of Hydrogen Energy

The International Journal of Hydrogen Energy aims to provide a central vehicle for the exchange and dissemination of new ideas, technology developments and research results in the field of Hydrogen Energy between scientists and engineers throughout the world. The emphasis is placed on original research, both analytical and experimental, covering all aspects of Hydrogen Energy, including production, storage, transmission, utilization, enabling technologies, environmental impact, economic and international aspects of hydrogen and hydrogen carriers such as NH₃, CH₄, alcohols, etc.

The utilization includes thermochemical (combustion), photochemical, electrochemical (fuel cells) and nuclear conversion of hydrogen, hydrogen isotopes and/or hydrogen carriers to thermal, mechanical and electrical energies, and their applications in transportation (including aerospace), industrial, commercial and residential sectors.

When outstanding new advances are made, or when new areas have been developed to a definitive stage, special review articles will be considered. Shorter communications are also welcome.

Guide for Author

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(http://www.elsevier.com/wps/find/journaldescription.cws_home/485?generatepdf=true)

ii. Nanomaterials Special Issue "Applications of Fractional Nanofluids in Chemical Processes"

[Article processing charge (APC) of 2200 CHF (Swiss Francs)]

In the contemporary world, the scarcity of clean drinking water has become a matter of grave concern, as more than one billion people lack access to it globally. Per day, millions of tons of wastewater from industries are being released into water bodies, making the water unhealthy for aquatic life as well as for human use. Thus, there is an urgent need for the

development of highly efficient technologies that can generate safe drinking water by recycling industrial wastewater. Recent scientific advancements have proved that nanotechnology can be highly instrumental in providing effective solutions for this imminent issue of water crisis. Based on the unique and superior properties of the nanostructured materials, highly efficient water treatment technologies have been developed.

Due to the rapid elevation of health standards and the limited water resources, decontamination and disinfection have become a challenging aspect of water/wastewater treatment. Traditional disinfection in water/wastewater treatment is associated with limitations, such as the production of toxic disinfection by-products. With the development of nanofluids, there is more and more interest in using nanofluids in environmental sectors, especially in water/wastewater treatment. Nanofluids are not strong oxidants and are not expected to produce harmful disinfection by-products. Nanofluids exhibit good disinfection properties against a wide range of bacteria, including Gram-negative, Gram-positive and spore bacteria. Several patents disclose the typically used types of nanofluids and their possible disinfection/ decontamination mechanisms.

Recently, mathematical modelling of nanofluids as a novel class of water clean process that plays a vital role in industries and environment has been widely considered by researchers with nice applications. Usually, these models are represented in terms of traditional integer-order partial differential equations (PDEs). Notice that the traditional PDEs cannot interestingly decode the complex behavior of physical water cleaning processes and memory effects. To draw back these defects, the researchers focused on the fractional dynamic systems of fractional nonfluids in water cleaning processes.

Topics:

- Fractional nanofluids in water cleaning with singular/non-singular kernels
- Water process in hybrid nanofluids with (singular/non-singular and local/non-local) kernels
- Innovative fractional applications in nanotechnology, wastewater, filtration, photocatalysis, sensor, and antimicrobial nanomaterials

- Wastewater treatment, nano-engineered material, membrane technology, nanosorbents, adsorption, metal oxide with new fractional derivatives
- Application of reverse osmosis, water softening, water treatment, membrane and fouling in fractional hybrid nanofluids
- Numerical and analytical solutions in water processes of fractional problems for different geometries
- Mathematical models of fractional hybrid nanofluids in materials and bioscience
- Role of fractional hybrid nanofluids in adsorption, activated carbon, wastewater, central composite design

Manuscript Submission Information

Manuscripts should be submitted online at www.mdpi.com by registering and logging in to this website. Once you are registered, click here to go to the submission form. Manuscripts can be submitted until the deadline. All papers will be peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website. Research articles, review articles as well as short communications are invited. For planned papers, a title and short abstract (about 100 words) can be sent to the Editorial Office for announcement on this website.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the Instructions for Authors page. *Nanomaterials* is an international peer-reviewed open access monthly journal published by MDPI.

Please visit the Instructions for Authors page before submitting a manuscript. The Article Processing Charge (APC) for publication in this open access journal is 2200 CHF (Swiss Francs). Submitted papers should be well formatted and use good English. Authors may use MDPI's English editing service prior to publication or during author revisions.

Keywords

- Fractional nanofluids in water cleaning
- Fractional hybrid nanofluids in adsorption
- Fractional hybrid nanofluids in activated carbon and wastewater
- Fractional modelling in filtration and photocatalysis
- Numerical solutions of nano-engineered material problems
- Role of memory in water cleaning process
- Coagulation, flocculation and leachate with non-integer modelling
- Heavy metal, nanoadsorbents and arsenic using fractional dynamic systems

iii. ESCI indexed journal (TBA)

TBA

iv. Book (TBA)

Please submit title and synopsis of the chapter that you would like to propose to cespro@ukm.edu.my before 31st August 2021. The scientific committee will review and reply you within seven (7) days. Once the proposed chapter is approved, guideline for the manuscript preparation will be provided and you can start to prepare the manuscript immediately.

Full Paper Submission Form

(16th ASIAN BIOHYDROGEN AND BIOREFINERY SYMPOSIUM (ABBS2021))

1.	Author's name	:		
2.	Paper ID	:		
3.	Title	:		
4.	Submission preference (Please tick only one)		International Journal of Hydrogen Energy	
			Jurnal Kejuruteraan	
			Book Chapter in Penerbit UKM	
5.	Submission date	:		
6.	Suggested Reviewers	i	Name: Affiliation: Email:	
		ii	Name: Affiliation: Email:	
		iii	Name: Affiliation: Email:	

Important notes:

1. The authors should make sure that the full paper is falling into the scope of the journal. Otherwise, the full paper will not be processed.
2. The committee will pre-screen (e.g. spell-check, grammar-check, format-check etc.) the full papers before proceed to the reviewing process. Full papers which are rejected during the pre-screening process will not be considered for other publications.
3. The deadline of submission of full paper is 31st August 2021
4. Full papers are to be submitted to <https://www.ukm.my/abbs/submission/>.
5. This submission form shall be the FIRST page of your manuscript. DO NOT submit this form as a separate file.
6. The author MUST provide three (3) potential reviewers for the manuscript.