



## 1. Education

Degree	Field	Institution	Year
B.S.	Mechanical Engineering	Sudan University of Science and Technology Khartoum Sudan	2000
M.S.	Mechanical Engineering	Sudan University of Science and Technology Khartoum Sudan	2007
Ph.D.	Mechanical Engineering	University Technology Malaysia. Johor Malaysia Advisor: Pro Dr. Mazlan A W. Thermal Characteristics and Emissions of Gaseous Fuel Flameless Combustion with Tangential Air Inlet.	2014

## 2. Academic Experience

Institution	Rank/Title	Dates
Sudan University of Science and Technology	Head of the Department of engineering studies, Faculty of Technology. Sudan University of Science and Technology	2007-2009
University Technology Malaysia	Research Assistant, Faculty of Mechanical Engineering	2009-2014
National University Sudan	Assistant Professor Mechanical Eng. Department Faculty of Engineering	2015-2018
Sudan University of Science and Technology	Head of Department for Training Faculty of Engineering Sudan University of Science and Technology	2015-- 2017
Sudan University of Science and Technology	Coordinator of Graduate Programs in Mechanical Engineering	2015-2018
Al Baha University	Assistant Professor Mechanical Engineering Department	2018- until now

### **3. Committees' membership**

1. Member Committee, International Conference on Energy and Thermal Sciences Virtual Conference is a platform for researchers, scientists, and academicians to present and publish their research findings online 1st October 2014.
2. Secretary International Conference on Energy and Thermal Sciences Virtual Conference is a platform for researchers, scientists, and academicians to present and publish their research findings online 1st October 2014.
3. Member High Speed Reacting Flow Laboratory at the Faculty of Mechanical Engineering, University Technology Malaysia.

### **4. Research Area**

Combustion, Flameless combustion , Energy ,Exergy Renewable and Sustainable Energy (Biomass , Biofuel , hydropower, Solar, WTE and Phase Change Material (PCM)) Fuel , Environment , Heat and Mass Transfer , Laser Application in Mechanical Engineering and Lowex

### **5. Referee**

1. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering - SAGE Publishing
2. Journal: Energy & Fuels - American Chemical Society (ACS Publications)
3. Journal of Renewable and Sustainable Energy- American Institute of Physics AIP Publishing.
4. International Journal of Energy Engineering - The World Academic Publishing CO.
5. International Journal of Energy Research.  
<https://onlinelibrary.wiley.com/journal/1099114x>
6. Acta Astronautica . <https://www.journals.elsevier.com/acta-astronautica>.
7. Energy - Journal – Elsevier.
8. Energy Storage <https://onlinelibrary.wiley.com/journal>
9. Scientific African - Journals | Elsevier.

## 6. Awards and Academic Recognition

- **Abuelnuor Abdeen Ali Abuelnuor**, Mazlan Abdul Wahid Silver Medal Award....., in Malaysia Technology Expo (MTE) 2014 for the product Low NOx Flameless Combustor Fueled by Biogas From Palm Oil Mill effluent.
- I am a reviewer for 4 International Prestigious Journals from various publishers such as ACS Publications (Energy and Fuel Q1), SAGA Journal of Aerospace Engineering, SAGA and De Gruyter International Journal of Chemical Reactor Engineering.

## 7. Supervision

- M.Sc 14 students – completed,
- B. Eng 43 groups (3 group ongoing)

## 8. Publications

Scopus Author ID	55431247500
Google Scholars	<a href="https://scholar.google.com/citations?user=hhYiGAQAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=hhYiGAQAAAAJ&amp;hl=en</a>
Research Gate	<a href="https://www.researchgate.net/profile/Abuelnuor-Abuelnuor">https://www.researchgate.net/profile/Abuelnuor-Abuelnuor</a>
dblp	<a href="https://publons.com/dashboard/summary/">https://publons.com/dashboard/summary/</a>
ORCID	<a href="http://orcid.org/0000-0003-212-3226">http://orcid.org/0000-0003-212-3226</a>
Scientific Index 2023	<a href="https://www.adscientificindex.com/scientist/abuelnuor-abdeen-ali-abuelnuor/298075#google_vignette">https://www.adscientificindex.com/scientist/abuelnuor-abdeen-ali-abuelnuor/298075#google_vignette</a>

## A. Journals

1. Abuelnuor A. A. Abuelnuor , Mohammednour Gibreel , Mohamed Ali Abuelnuor ,Obai Younis,- Siddig Abuelgasimand Elshahat F. Mohmed. Study of Energy and Exergy of Elgunied Sugar Company Plant in Sudan. Sugar Tech-Springer (Accepted: 8 March 2023) (IF= 1.872 Q3)
2. Adil A.M. Omara Hussein A. Mohammed Ihab Jabbar Al Rikabi Mohamed Ali Abuelnuor Abuelnuor A.A. AbuelnuorMukhtar . Performance improvement of solar chimneys using phase change materials: A review. Solar Energy 2021 (IF= 5.742Q1) November 2021,

3. Adil AM Omara, Abuelnuor AA Abuelnuor, Hussein A Mohammed, Daryoush Habibi, Obai Younis. Improving solar cooker performance using phase change materials: A comprehensive review. *Solar Energy* 2020 (IF= 4.608 Q1)
4. Adil Omara and Abuelnuor **AbuelnuorAbuelnuor Abuelnuor**. Trombe walls with phase change materials: A review. *Energy Storage* <https://doi.org/10.1002/est2.123>. 23 2020
5. **Abuelnuor A. A. Abuelnuor** Khadir Ahmed Khaled M. Saqr Yasser A. M. Nogoud Mohammed E. A. M. Babiker. Exergy analysis of large and impounded hydropower plants: Case study El Roseires Dam (280 MW). *Environmental Progress & Sustainable Energy* 2020. (ISI cited - Impact factor 1.596).
6. Adil A. M. Omara, **Abuelnuor A. A. Abuelnuor**, Hussein A. Mohammed & Mehdi Khiadani. Phase change materials (PCMs) for improving solar still productivity: a review. *Journal of Thermal Analysis and Calorimetry* 10/8/2019. Springer (ISI cited - Impact factor 2.471).
7. Adil A.M. Omara and **Abuelnuor A. A. Abuelnuor** Improving the performance of air conditioning systems by using phase change materials: A review. *International Journal of Energy Research*. <https://doi.org/10.1002/er.4507>. (ISI cited - Impact factor 3.343).
8. **Abuelnuor A. A. Abuelnuor** , Adil A. M. Omara, Khalid M. Saqr and Ibrahim H. I. Elhag Improving indoor thermal comfort by using phase change materials: A review. *International Journal of Energy Research*, <https://doi.org/10.1002/er.4000>. (ISI cited - Impact factor 2.598).
9. Real-time modeling of retractable self-launching glider using spreadsheets. Yasser A. Nogoud, Attie Jonker, Shuhaimi Mansor, **A.A.A. Abuelnuor**, (2017) "Real-time modeling of retractable selflaunching glider using spreadsheets", *Aircraft Engineering and Aerospace Technology*, Vol. 89 Issue: 6, pp.791-796, <https://doi.org/10.1108/AEAT-05-2014-0076>(ISI cited - Impact factor 0.75).
10. **Abuelnuor.A.A.Abuelnuor** et, al. Exergy analysis of garri 2 cobined cycle power plant 180mw. *Renewable & Sustainable Energy Reviews* (ISI cited - Impact factor 8.050).<https://doi.org/10.1016/j.rser.2017.05.077>. Available online 25 May 2017 Volume 79, November 2017, Pages 960–969
11. **Abuelnuor, A.A.A.**, Mazlan A. Wahid, Mohammed, H.A., Saat, A., Combustion Characteristics of Biomass in Flameless Combustion: A Review, *Renewable and Sustainable Energy Reviews*, Elsevier, Volume 33, May 2014, Pages 363-370 (ISI cited - Impact factor 5.627).
12. **Abuelnuor, A.A.A.**, Mazlan A. Wahid, Mohammed, H.A., Saat, A., Flameless combustion role in the mitigation of NOX emission: A reviews (2014) *International Journal of Energy Research*, Published online in Wiley Online Library ([wileyonlinelibrary.com](http://wileyonlinelibrary.com)). DOI: 10.1002/er.3167. (ISI cited - Impact factor 1.987).

13. **A. A. A. Abuelnuor** , Mazlan A. Wahid , A. Saat , M. Osman. Characterization of a Low NO<sub>x</sub> Flameless Combustion Burner Using Natural Gas. *Jurnal Teknologi* 66:2 (2014) 121–125 | [www.jurnalteknologi.utm.my](http://www.jurnalteknologi.utm.my) | eISSN 2180–3722 | (Index by SCOPUS)
14. **Abuelnuor Abdeen Ali Abuelnuor**, Mazlan A. Wahid , Aminuddin Saat,, Mohsin M. Sies<sup>1,d</sup> , Mohamed Osman Abdalla , Seyed Ehsan Hosseini,,A. N. Darus , H.A. Mohammed and A. Dairobi G. Effects of Firing Mode on the Performance of Flameless Combustion: A Review. *Applied Mechanics and Materials* Vol. 388 (2013) pp 206-212 Online available since 2013/Aug/30 at [www.scientific.net](http://www.scientific.net) © (2013) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.388.206. (Index by SCOPUS).
15. **Abuelnuor A. A. A.**, Mazlan A. Wahid, Aminuddin Saat. Mohsin M. Sies, M.K. Elbasheer, Seyed E. Hosseini, A.Dairobi , H.A. Mohammed, A.N. Darus. Review of Numerical Studies on NO<sub>x</sub> Emission in the Flameless Combustion. *Applied Mechanics and Materials* Vol. 388 (2013) pp 235-240 Online available since 2013/Aug/30 at [www.scientific.net](http://www.scientific.net) © (2013) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.388.235 (Index by SCOPUS)
16. **Abuelnuor Abdeen Ali Abuelnuor**, Mazlan Abdul Wahid. Flameless Combustion and the Effect of Air Preheat on the Combustion Performance: A Review. *International Journal on Energy Conversion (IRECON)* Copyright © 2016 Praise Worthy Prize (Index by SCOPUS).
17. Seyed Ehsan Hosseini, Mazlan A. Wahid , **A. A. Ali Abuelnuor**. The Role of Exhaust Gas Recirculation in Flameless Combustion. *Applied Mechanics and Materials* Vol. 388 (2013) pp 262-267 Online available since 2013/Aug/30 at [www.scientific.net](http://www.scientific.net) ©(2013)Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.388.262(Index by SCOPUS).
18. Seyed Ehsan Hosseini, Mazlan A. Wahid, **A. A. Ali Abuelnuor**. Biogas Flameless Combustion: A Review.*Applied Mechanics and Materials* Vol. 388 (2013) pp 273-279 Online available since 2013/Aug/30 at [www.scientific.net](http://www.scientific.net) © (2013) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.388.273 (Index by SCOPUS).
19. Hosseini, Seyed Ehsan and Abdul Wahid, Mazlan and **Ali Abuelnuor, Abuelnuor Abdeen** High temperature air combustion: sustainable technology to low NO<sub>x</sub> formation. *International Review of Mechanical Engineering*, 6 (5). pp. 947-953. ISSN 1970-8734(Index by SCOPUS) (2012).
20. Seyed Ehsan Hosseini, Mazlan A Wahid, **Abuelnuor Abdeen Ali Abuelnuor**. Pollutant reduction and energy saving in industrial sectors by applying high temperature air combustion method. *International Review of Mechanical Engineerin*2012 (Index by SCOPUS).

21. M. K. Elbasheer, Mai A.R.Osman, **Abuelnuor A.**, M.K.A. Rahim, M. E. Ali Conducting Materials Effect on UWB Wearable Textile Antenna.Proceedings of the World Congress on Engineering 2014 Vol I, (Index by SCOPUS).
22. Raid Abid Alwan, Mazlan Abdul Wahid, Mohd Fairus Mohd Yasin, Arkan Al-Taie, **Abuelnuor Abdeen Ali Abuelnuor**. Effects of Equivalence Ratio on Asymmetric Vortex Combustion in a Low NOx Burner. International Review of Mechanical Engineering (I.R.E.M.E.), Vol. 9, N. 5 ISSN 1970 - 8734 September 2015 (Index by SCOPUS).
23. Afiqah Hamzah, **Abuelnuor Abdeen Ali Abuelnuor**, Mazlan Abdul Wahid. Low-NOX combustion of biogas from palm oil mill effluent using flameless combustion. Proceedings of Mechanical Engineering Research Day 2015: MERD'15.

## **B. International Conference Papers**

1. Ihab Jabbar Al Rikabi, Mohamed Ali Abuelnuor, Adil AM Omara, Najib Aminu Ismail, Farid Nasir Ani, **Abuelnuor AA Abuelnuor**. A numerical Study of the Effect of Façade Opening on Nighttime Ventilation of a Low-Energy Building. 2022 8th International Engineering Conference on Sustainable Technology and Development (IEC). ( Publisher IEEE) Publication date 2022.
2. **Abuelnuor Abuelnuor. A.A.**, Mohamed Ali Abuelnuor, Omara Adil A.M., Ihab Jabbar AL Rikabi, Mohammed adil salih ali, Almoez Ibrahim Ahmed awad, Moaz Abd Allah Mohamed Haj Ahmed. Experimental study on pyrolysis of sugarcane bagasse for bioenergy production. 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) )( Publisher IEEE) Publication date 2021.
3. **Abuelnuor Abuelnuor A. A.**, Adil A. M. Omara, Israa k. Salih, Eman K. M. Ahmed, Reham M. Babiker, Abubaker A. M. Mohammedali. Experimental Study on Tomato Drying Using a Solar Dryer Integrated with Reflectors and Phase Change Material  
2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) )( Publisher IEEE) Publication date 2021.
4. Mohamed Elfatih HM Ahmed, Sadah AT Muawad, Abdalaziz KA Ahmed, **Abuelnuor AA Abuelnuor**. Waste to energy: Recovery of alternative energy source from thermal pyrolysis of medical waste in Khartoum, Sudan. 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) )( Publisher IEEE) Publication date 2021.
5. Adil AM Omara, **Abuelnuor AA Abuelnuor**, Ibrahim AI Eshag. Estimation of Solar Radiation of Khartoum City Using ASHRAE Model. 2020 International

Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) )( Publisher IEEE) Publication date 2021.

6. Mohamed Ali Abuelnour, **Abuelnuor AA Abuelnuor**, Ihab Jabbar AL Rikabi, Ahmed ME Ishag, Mohamed A Al-Awad, Omar A Al-Aziz. Experimental investigation on recycling carbon dioxide into fuel using solar thermochemical cycle based on cerium oxide. 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) )( Publisher IEEE) Publication date 2021.
7. Adil AM Omara, Abuelnuor AA Abuelnuor, Osman HA Fadul. Low-Exergy Building Using Renewable Energy for Indoor Thermal Comfort: Experimental Study and Thermodynamic Analysis. 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) )( Publisher IEEE) Publication date 2021.
8. **Abuelnuor AA Abuelnuor**, Adil AM Omara, Hussien MH Musa, Salah M Abaza, Mohammed AE Adam, Moneeb OO Abdalraheem. Experimental Study on Solar Still Desalination System Integrated with Solar Collector and Phase Change Material. 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) )( Publisher IEEE) Publication date 2021.
9. **Abuelnuor AA Abuelnuor**, Abubaker AM Mohammedali, Adil AM Omara, Sara AM Wedaa, Mohammed Omer Abdalwahab Mohammed, Al-Hassan Fadl Alatti Al-Hassan, El-Moez Elgenaid Elamin Mohamed. Evaluation of Thermal Comfort in Academic Buildings at Khartoum Locality: A Case Study. 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) ( Publisher IEEE) Publication date 2021.
10. Sara AM Wedaa, **Abuelnuor AA Abuelnuor**, Sadah AT Muawad, Ammar Mohammed Ali, Adil AM Omara, Abusabah E Elemam. Estimation of Methane Emissions and BioEnergy Recovery Potential from a Sanitary Landfill Using FOD, DM and LandGEM models. 2020 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) ( Publisher IEEE) Publication date 2021.
11. Sadah A. T. Muawada1, Sara A. M. Wedaa, **Abuelnuor A. A. Abuelnuor**, Abusabah E. Elemam, Ammar Mohammed Ali, Ahmed Said Gamer Aldin and Ibrahim Ishag Osman. Waste- to- Energy Production of Alternative Energy Source Using Landfill Technology. 2019 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE)( Publisher IEEE)
12. **Abuelnuor Abdeen Ali Abuelnuor**, Mazlan Abdul Wahid, Aminuddin Saat, Afiqah Hamzah, and Mohsin Mohd. Sies. Characterization of Flameless

Combustion of Natural Gas in a Laboratory Scale Furnace. 6th International Meeting on Advanced Thermofluids (IMAT 2013) Singapore.

- 13. AAA Abuelnuor**, Ibrahim Hafiz Ibrahim Alhag, Adil Anwar Mohamed Omara, Mohamed Khalid Awad, Mohammed Hassan Mohammed. Buildings cooling: An experimental study of Phase Change Materials storage for low energy buildings. International Conference on Communication, Control, Computing and Electronics Engineering (ICCCCEE), 2017 Sudan Publisher IEEE.
- 14.** Adil A. M. Omara , **A A A Abuelnuor** , Muaaz A. A. Dafaallah, Abdalrahman M. A. Ali and Mustafa A. M. Alshoubli Energy and Exergy analysis of solar water heating system integrated with phase change material (PCM). International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) 8/2018 Sudan .Publisher IEEE.
- 15.** Adil A. M. Omara , **A A A Abuelnuor** , Abdrhman O. A. Mohammed, Omer M. A. Sirelkhatim and Awab A. M. SulemanA. An experimental study on using polyethylene glycol (PEG) 600 as phase change material for thermal comfort and energy saving in buildings International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) 8/2018 Sudan .Publisher IEEE.
- 16.** Wael M. A. Ahmedelbdawy, **A A A Abuelnuor** , Adil A. M. Omara and. Sadah Adil Taha . An experimental study on landfill technology to produce an alternative source of energy from organic waste. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE) 8/2018 Sudan .Publisher IEEE.





Rankings for Scientist

University, Subject,  
Country, Region, World

# World Scientist and University Rankings 2023

Al Baha University

## Abuelnuor Abdeen Ali Abuelnuor



		In Al Baha University (60)	In Saudi Arabia (6917)	In Asia (397774)	World (1345156)
	Scores	Rankings			
Total H	15	#11	#2944	#108454	#573255
Last 6 year H	12	#10	#3040	#108568	#544113
Last 6 year H / total H	0.800				
Total i10	16	#13	#3480	#125300	#637407
Last 6 years i10	14	#11	#3137	#111930	#552675
Last 6 years i10 / Total i10	0.875				
Total Citation	756	#13	#3427	#125432	#672492
Last 6 years Citation	592	#10	#2994	#108945	#558117
Last 6 years Citation / Total Citation	0.783				
Engineering & Technology *		#3 (4) *	#819 (1495) *	#32475 (59873) *	#105696 (177197) *
Energy Engineering *		#1 🏆 (1) *	#40 (54) *	#1137 (1612) *	#1934 (2982) *

[www.adscientificindex.com](http://www.adscientificindex.com)

Date : 07.04.2023

\* Source and Methodology: <https://www.adscientificindex.com/scientist.php?id=298075>