

Curriculum Vitae (CV)

Ahmed Abdelghafar Khedr Azab Galahom



Personal Information:

Academic Rank: Associate Professor

Department: Basic science

Specialization: Physics

Position: Lecturer

Google Scholar: <https://scholar.google.com.eg/citations?user=1YxHEX8AAAAJ&hl=ar>

Research Gate: <https://www.researchgate.net/profile/Ahmed-Galahom>

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Nuclear Physics	Zagazig University	2006
M.Sc.	Nuclear Physics	Zagazig University	2011
B.Sc.	Nuclear Physics	Zagazig University	2013

Academic Experience:

Institution: Higher Technological Institute 10thof Ramadan city -Egypt

Rank: Associate Professor

Dates: 2019 till now

Institution: Higher Technological Institute 10thof Ramadan city -Egypt

Rank: Assistant Professor

Dates: 2014-2019

Institution: Higher Technological Institute 10thof Ramadan city -Egypt

Rank: Research Assistant (PhD student)

Dates: 2012-2014

Institution: Higher Technological Institute 10thof Ramadan city -Egypt

Rank: Teaching Assistant

Dates: 2009-2012

Research interests:

- - Nuclear Reactors
- -Nuclear physics
- Nuclear Engineering

Publications:

No	Publications
[1]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Neutronic Analyses for Advanced Boiling Water Reactor (BWR) Model. Tenth Radiation Physics & Protection Conference, 27-30 November 2010, Nasr City - Cairo, Egypt.
[2]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Analysis of Neutronic Characteristics of Uranium Zirconium Hydride Fuel in Advanced Boiling Water Reactor published in Journal of Materials Science and Engineering A , 6 (2013) 437-442.
[3]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Design Boiling Water Reactor Core Model Using MCNPX for Studying the Burnable Poisons and the Axial Enrichment Fuel Effect on the Neutronic Characteristics published in Journal of Nuclear Engineering & Technology , 3, (2013) 7-21.
[4]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Study the neutronic analysis and burnup for BWR fueled with hydride fuel using MCNPX code published in Progress in Nuclear Energy 77 (2014) 65-71.
[5]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Validation of the Monte Carlo Model Designed to Simulate the Neutronic Characteristics of Advanced Boiling Water Reactor Assembly. Journal of Physical Science and Application , 5 (2014) 310-316.
[6]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Study the Effect of Gd ₂ O ₃ on the Neutronic Characteristics of Boiling Water Reactor using MCNPX Code. Journal of Nuclear Engineering & Technology , 5, (2015) 26-32.

[7]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Neutronic analysis and validation of boiling water reactor core designed by MCNPX code. <i>Annals of Nuclear Energy</i> , 76 (2015) 461–468.
[8]	A. Abdelghafar Galahom , I.I. Bashter, Moustafa Aziz. Design of an MCNPX model to simulate the performance of BWRs using thorium as fuel and its validation with HELIOS code. <i>Annals of Nuclear Energy</i> , 77 (2015) 393–401.
[9]	A. Abdelghafar Galahom , Improving the neutronic characteristic of Boiling Water Reactor by using Uranium Zirconium Hydride fuel instead of Uranium Dioxide fuel, the 12th Arab Conference on the Peaceful Uses of Atomic Energy, 2015.
[10]	A. Abdelghafar Galahom . Improving the Neutronic Characteristics of a Boiling Water Reactor by Using Uranium Zirconium Hydride Fuel Instead of Uranium Dioxide Fuel. <i>Nuclear engineering and Technology</i> 48 (2016) 751-757.
[11]	A. Abdelghafar Galahom . Investigation of different burnable absorbers effects on the Neutronic characteristics of PWR assembly. <i>Annals of Nuclear Energy</i> 94 (2016) 22–31.
[12]	A. Abdelghafar Galahom . Minimization of the fission product waste by using thorium based fuel instead of uranium dioxide. <i>Nuclear Engineering and Design</i> 314 (2017) 165–172.
[13]	A. Abdelghafar Galahom , Amr Ibrahim, Moustafa Aziz, S.A. EL-Fiki, S.U. EL-Kameesy. The effect of homogenization on the neutronic parameters and transmutation of GFR-2400 fast reactor fuel assembly. <i>Annals of Nuclear Energy</i> 110 (2017) 215–221.
[14]	A. Abdelghafar Galahom . Study of the possibility of using Europium and Pyrex alloy as burnable absorber in PWR. <i>Annals of Nuclear Energy</i> 110 (2017) 1127–1133.
[15]	A. Abdelghafar Galahom . Amr Ibrahim, Moustafa Aziz, S.A. EL-Fiki, S.U. EL-Kameesy. Analysis of the Neutronic Characteristics of GFR-2400 Fast Reactor Using MCNPX Transport Code. <i>Arab journal of Nuclear science and application</i> . 51 (2018) 177- 188.
[16]	A. Abdelghafar Galahom , Amr Ibrahim, Moustafa Aziz, S.A. EL-Fiki, S.U. EL-Kameesy. Analysis of thorium fuel feasibility in large scale gas cooled fast reactor using MCNPX code. <i>Annals of Nuclear Energy</i> 111 (2018) 460–467.
[17]	A. Abdelghafar Galahom . Reducing the plutonium stockpile around the world using a new design of VVER-1200 assembly. <i>Annals of Nuclear Energy</i> 119 (2018) 279–286.

[18]	A. Abdelghafar Galahom . Simulate the effect of integral burnable absorber on the neutronic characteristics of a PWR assembly. <i>Nuclear Energy and Technology</i> 4 (2018) 287–293.
[19]	A. Abdelghafar Galahom . Improvement of the VVER-1200 Fuel Cycle by Introducing Thorium with Different Fissile Material in Blanket-Seed Assembly. <i>Nuclear Science and Engineering</i> . 193 (2019) 638–651.
[20]	A. Abdelghafar Galahom . Analyze the effect of void fraction on the main operating parameters of the VVER-1200. <i>Arab journal of nuclear sciences and applications</i> . 53 (2020)125-136.
[21]	A. Abdelghafar Galahom . Searching for the optimum number of integral burnable absorber rods (IBAs) used in PWR assembly. <i>International Journal of Nuclear Energy Science and Technology</i> 13 (2019)180-194.
[22]	A. Abdelghafar Galahom . Investigate the possibility of burning weapon-grade plutonium using a concentric rods BS assembly of VVER-1200. <i>Annals of Nuclear Energy</i> 148 (2020) 107758.
[23]	Ahmed Abdelghafar Galahom , A.I. Elazaka, G.V. Tikhomirov, Study the neutronic feasibility of using Zr as an energy regulator instead of traditional methods. <i>International journal of energy research</i> , 2021;45:10012–10023.
[24]	A. Abdelghafar Galahom , Finding a suitable fuel type for the disposal of the accumulated minor actinides in the spent nuclear fuel in PWR, <i>Progress in Nuclear Energy</i> 136 (2021) 103749
[25]	A. Abdelghafar Galahom , Integrated analysis of VVER-1000 fuel assembly fueled with accident tolerant fuel (ATF) materials, <i>Annals of Nuclear Energy</i> 159 (2021) 108330
[26]	A. Abdelghafar Galahom , Investigating the possible advantage of using LM bonded gap instead of helium in Ap-1000 nuclear power reactor, <i>Nuclear Engineering and Design</i> 380 (2021) 111302
[27]	A. Abdelghafar Galahom , A.I. Elazaka, G.V. Tikhomirov, Searching for managing the reactivity and increasing the fuel cycle life in the PWR by an untraditional method, <i>Nuclear Engineering and Design</i> 383 (2021) 111433

[28]	A. Abdelghafar Galahom , Mohamed Y.M. Mohsen, Naima Amrani, Explore the possible advantages of using thorium-based fuel in a pressurized water reactor (PWR) Part 1: Neutronic analysis, <i>Nuclear Engineering and Technology</i> , 54, 2022, 1-10 https://doi.org/10.1016/j.net.2021.07.019
[29]	A. Abdelghafar Galahom , Examine the possibility of increasing the plutonium incineration rate in the current operating pressurized water reactor, <i>Progress in Nuclear Energy</i> 142 (2021) 104026
[30]	A. Abdelghafar Galahom , Mohamed A. E. Abdel-Rahman, Mohamed Y.M. Mohsen, Ensuring the possibility of using thorium as a fuel in a pressurized water reactor (PWR), <i>Nuclear science and Techniques</i> , 2021, 32:137
[31]	A. Abdelghafar Galahom , Ahmed Ismail Elazaka, Georgy Valentinovich Tikhomirov, Vladimir Igorevich Savander, Mohamed A.E. Abdel-Rahman, Investigation of a new approach for regulating the reactivity and achieving economic feasibility using thorium in a blanket-seed assembly of pressurized water reactors, <i>International journal of Energy Research</i> , 16, 2022, 6112-6125.
[32]	A. Abdelghafar Galahom , Mohamed Y.M. Mohsen, Mohamed A.E. Abdel-Rahman, Mohamed Saffaa Hassan, Searching for the most optimum burnable absorbers (BAs) for AP-1000 from the neutronic, thermal-hydraulic, and solid mechanics points of view, <i>Nuclear Engineering and Design</i> 391 (2022) 111728
[33]	A. Abdelghafar Galahom , Amr Ibrahim, Moustafa Aziz, S. A. EL-Fiki, and Comparative analysis between Homogeneous and Heterogeneous models of Gas Cooled Fast Reactor Core (GFR-2400), <i>Independent Journal for Nuclear Engineering (Kerntechnik)</i> , May 12, 2022
[34]	A. Abdelghafar Galahom , Fahim Tighemine, Naima Amrani, Ahmed Boucenna, , Evaluation of Iodine-129 Transmutation Fraction in High Flux Reactors, <i>International Journal of Nuclear Energy Science and Technology</i> , 8(2): 91–96, 2022.
[35]	A. Abdelghafar Galahom , Amr Ibrahim, Integrated analysis to investigate the viability of using Thorium-based fuel instead of traditional fuel in CANDU reactor, <i>Nuclear Engineering and Design</i> 398 (2022) 111969.

Certifications or Professional Registrations:

Honors and Awards:

1. Certificate from Institute of Nuclear Physics and Engineering, MEPHI University-Moscow-Russia, for my taking part in joint research and educational projects between him and the university in the field of nuclear engineering, 2021.
2. Certificate from ROSATOM, Russia, upon the successful completion of the Train-Trainers course “Operation principles and technological Aspects of NPP-2006, VVER Technology Educational issues”, 2021
3. Holds a certificate of ICDL
4. Holds a certificate of “Effective teaching and learning strategies for colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2018.
5. Holds a certificate of “Concepts of quality assurance of education and accreditation to academic leaders in colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2018.
6. Holds a certificate of “Education programs and courses specifications and evaluation of learning outcomes for Higher education institutes” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2018.
7. Holds a certificate of “Self-evaluation of educational programs: colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2021.
8. Holds a certificate of “Exam systems and student assessment for colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2021.
9. Holds many certificates from various scientific journals specialized in the field of nuclear reactors for reviewing many scientific papers, 2016-2022.

Teaching Experience:

Physics (1): “Dimensions and Units - Oscillation- Waves- Sound Waves – Fluid Statics – Fluid Dynamics – Heat and Thermodynamics – First law of Thermodynamics”

Physics (2): “Electrostatics – Electric Field – Gauss Law – Electric Potential – Capacitance – Electric Current and Resistance – Electric Circuit – Magnetic Field”

Physics (3): “ Nature of Light – Interference – Diffraction –Polarization – Light Quanta – Photo Electric Effect – Compton Effect – Blackbody Radiation – The Nuclear Atom – Radioactivity ”

BOOKS

- ❖ Participation in the preparation of the engineering physics book for the preparatory stage.
- ❖ Participation in the preparation of the engineering physics book lab.

REVIEWER

Review more than 90 research articles and PhD thesis in:

- Journal of Hazardous materials, Publisher Elsevier (2 papers).
- Nuclear Science and Technique, Publisher Springer (27 papers).
- International Journal of Energy Research, Publisher John Wiley & Sons (12 papers).
- Annals of Nuclear Energy, Publisher Elsevier (2 papers).
- Progress in Nuclear Energy, Publisher Elsevier (1 papers).
- Science and Technology of Nuclear Installations, Publisher Hindawi (9 papers).
- International Conference on Big Data, Computer Modeling and Simulation Technology (BDCMST2020) 2020, Hangzhou, China (2 papers).
- International journal of Nuclear Energy Science and Technology. Publisher Inderscience (1 papers).
- Energy Sources, Part A: Recovery, Utilization and Environmental Effects, Publisher Taylor & Francis (7 papers).
- Journal of Radiation Research and Applied Sciences, Publisher Taylor & Francis (1 papers).
- Scientific Reports, Publisher Springer (2 papers).
- Eurasian journal of physics and functional materials (1 papers)
- Review a PhD thesis at the Faculty of Science, Ain Shams University “Studies on the neutronics design of water-water energetic reactor”, 2021.

CERTIFICATES

10. Certificate from Institute of Nuclear Physics and Engineering, MPhI University-Moscow-Russia, for my taking part in joint research and educational projects between him and the university in the field of nuclear engineering, 2021.
11. Certificate from ROSATOM, Russia, upon the successful completion of the Train-Trainers course “Operation principles and technological Aspects of NPP-2006, VVER Technology Educational issues”, 2021
12. Holds a certificate of ICDL
13. Holds a certificate of “Effective teaching and learning strategies for colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2018.
14. Holds a certificate of “Concepts of quality assurance of education and accreditation to academic leaders in colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2018.
15. Holds a certificate of “Education programs and courses specifications and evaluation of learning outcomes for Higher education institutes” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2018.
16. Holds a certificate of “Self-evaluation of educational programs: colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2021.

17. Holds a certificate of “Exam systems and student assessment for colleges and institutes of higher education” from the National Authority for Quality Assurance of Education and Accreditation - Council of Ministers, 2021.
18. Holds many certificates from various scientific journals specialized in the field of nuclear reactors for reviewing many scientific papers, 2016-2022.

Reviewed Papers

- 1- Characterization of solid particles sampled from condensates in boiling water reactor, [Nuclear Science and Techniques](#).
- 2- A concept design of supercritical CO₂ cooled SMR operating at isolated micro grid region, [International Journal of Energy Research](#).
- 3- Comparative studies on plutonium utilization in small modular reactor with uranium and thorium oxide fuels, [International Journal of Energy Research](#).
- 4- Sub-channel Analysis for Pb-Bi-cooled direct contact boiling Water Fast Reactor, [International Journal of Energy Research](#).
- 5- An Innovative Approach for a Soluble-Boron-Free SMR Core Design. [International Journal of Energy Research](#).
- 6- Proposal of reload using MOX fuel weapons grade in bwr reactor. [Annals of Nuclear Energy](#).
- 7- Design of Self-Sustainable Small Modular Reactor with Multiple Fissile and Fertile Layers. [International Journal of Energy Research](#).
- 8- Implementation of a Dynamic Monte Carlo Method for Transients Analysis with Thermal-Hydraulic Feedbacks Using MCNPX Code. [Annals of Nuclear Energy](#).
- 9- Large scale energy production with thorium in CANDU reactors using high grade Plutonium as driver fuel. [International Journal of Energy Research](#).
- 10- Benchmarking of DRAGON5/DONGON5 against effective β - fraction of the VVER-1000 reactor in terms of burnup. [Nuclear Science and Techniques](#).
- 11- Neutronic/Thermal-hydraulic Design Features of an Improved Lead-bismuth Cooled Small Modular Reactor. [International Journal of Energy Research](#).
- 12- Feasibility analysis of ⁶⁰Co production in the pressurized water reactors. [Nuclear Science and Techniques](#).
- 13- Influence of ²³⁵U enrichment on moderator temperature coefficient of reactivity (MTC) in a graphite-moderated Molten Salt Reactor (MSR). [Nuclear Science and Techniques](#).
- 14- Gas-Cooled thorium reactor at various fuel loadings and its modification by a Plasma source of extra neutrons, [Nuclear Science and Techniques](#)
- 15- The AP-Th 1000 an advanced concept to use MOX of thorium in a closed fuel cycle, [International Journal of Energy Research](#).
- 16- Core and blanket thermal-hydraulics analysis for the Molten Salt Fast Reactor based on a coupling of OpenMC and OpenFOAM. [Nuclear Science and Techniques](#).

17- Simulation Training Effectiveness Evaluation Based on Fuzzy Comprehensive Evaluation, International Conference on Big Data, Computer Modeling and Simulation Technology

(BDCMST2020) 2020, Hangzhou, China

18- Modeling and Simulation of K2x8five five axis Machine tool based on VERICUT 8.0, International Conference on Big Data, Computer Modeling and Simulation Technology

(BDCMST2020) 2020, Hangzhou, China.



- 19- Thorium Insertion Effect on the Neutronic Performance of the VVER-1000 Reactor, [Science and Technology of Nuclear Instillations](#).
- 20- Burn-up calculation of the neutronic and safety parameters of thorium-uranium mixed oxide fuel cycle in a Westinghouse small modular reactor, [International Journal of Energy Research](#).
- 21- Sensitivity analyses of the use of different reflector materials on the main neutronic parameters of the TRIGA Mark-II research reactor, [International journal of Nuclear Energy Science and Technology](#).
- 22- Calculation and Analysis of the Source Term of the Reactor Core Based on Multivariate Analysis of Variance, [Science and Technology of Nuclear Instillations](#).
- 23- Neutronic Analysis of a Fusion-Fission Hybrid Reactor using innovative light water cell coolants and fuel rods, [Nuclear Science and Techniques](#).
- 24- Analyzing Design Considerations for Disassembly of Spent Nuclear Fuel during Head-end Process of Pyroprocessing, [Science and Technology of Nuclear Instillations](#).
- 25- The First Application of Large Reactivity Measurement through Rod Drop Based on Three Dimensional Space-Time Dynamics. [Nuclear Science and Techniques](#).
- 26- Investigating the Neutronic, Thermal-Hydraulic and Solid Mechanics Analysis for AP-1000 Nuclear Reactor. [Energy Sources, Part A: Recovery, Utilization, and Environmental Effects](#).
- 27- Process optimization of a closed chamber distillation system for the recovery of FLiNaK molten salt. [Nuclear Science and Techniques](#).
- 28- Neutronic evaluation of burnable poisons in very long BWR cores by MCNPX code. [Nuclear Science and Techniques](#).
- 29- Neutronics and burn-up calculations of the (ThO₂-UO₂) pin cell benchmark using DRAGON5 and MCNP6.2 codes with ENDF/B-VIII.0 nuclear data library. [Nuclear Science and Techniques](#).
- 30- Parametric study on minor actinides transmutation in a graphite-moderated TMSR. [International Journal of Energy Research](#).
- 31- Neutronic analysis of fuel design for the long-life core in a pressurized water reactor, [Science and Technology of Nuclear Instillations](#).
- 32- Reducing the Power Peaking of HTR Prismatic Fuel Block Design via the Integration of the Duplex and S&B Method, [International Journal of Energy Research](#).
- 33- Neutronic Performance of the VVER-1000 Reactor Using Thorium Fuel with ENDF/library, [Journal of Radiation Research and Applied Sciences](#).
- 34- Shielding design and dose evaluation for HTR-PM fuel transport pipelines by QAD-CGA program, [Science and Technology of Nuclear Instillations](#).
- 35- Neutronic Design and Analysis of Small 100 MWe Molten Salt Reactor with Th-WGPu Fuel using Several Nuclear Data Libraries, [International Journal of Energy Research](#)
- 36- Assessment of a New Design of the Molten Salt Fast Reactor, [International Journal of Energy Research](#)
- 37- Performance indices optimization of long-lived fission products transmutation in fast reactors, [International Journal of Energy Research](#)
- 38- A comparative analysis of the neutronic performance of thorium mixed with uranium or plutonium in a high-temperature pebble-bed reactor, [International Journal of Energy Research](#).

- 39- Reducing the Power Peaking of HTR Prismatic Fuel Block Design via the Integration of the Duplex and S&B Method, [International Journal of Energy Research](#)
- 40- Micro-analytical XRF Method for the Minimization of Radioactive Waste Generated During Compositional Characterization of Fast Breeder Reactor Fuels, [Journal of Hazardous Materials](#)
- 41- Effect of CO₂ on the potential generation of a secondary organic hazardous pollutant during formaldehyde oxidation over ceria and cobalt co-doped δ -MnO₂ catalyst, [Journal of Hazardous Materials](#)
- 42- Validation of Doppler Temperature Coefficients and Component Power Distribution for the Advanced Neutronic Component Program Kylin V2.0., [Frontiers in Energy Research](#).
- 43- Validation of PWR Neutronics Code Package TORCH V2.0 with Nuclear Power Plant Measurements., [Frontiers in Energy Research](#).
- 44- Neutronic Investigation of Gadolinium-157 and Zirconium-Erbium as Burnable Poisons in the Advanced PWR Assemblies By MCNPX Code., [Scientific Reports](#).
- 45- Investigation of UO₂ fuel efficiency for ABV small modular reactor, [Energy Sources, Part A: Recovery, Utilization and Environmental Effects](#).
- 46- Core Calculations of ABV Small Modular Reactor During Burnup Cycle, [Energy Sources, Part A: Recovery, Utilization and Environmental Effects](#).
- 47- Mathematical modeling of the co-decontamination process in PUREX, [Nuclear Science and Techniques](#).
- 48- Application of homogenization techniques for the inflow transport approximation on LWR analysis, [Nuclear Science and Techniques](#).
- 49- A study on burnup optimization of once-through molten salt reactors using enriched uranium and thorium, [Nuclear Science and Techniques](#).
- 50- A study on burnup optimization of once-through molten salt reactors using enriched uranium and thorium, [Nuclear Science and Techniques](#).
- 51- Experimental study on the penetration characteristics of leaking molten salt in thermal insulation layer of aluminum silicate fiber, [Nuclear Science and Techniques](#).
- 52- Verification of NODAL3 code with PWR MOX/UO₂ core transient benchmark, [Nuclear Science and Techniques](#).
- 53- Preliminary Study on Risk Identification and Assessment Framework for Fusion Radioactive Waste Management, [Science and Technology of Nuclear Installations](#).
- 54- Control Rod Modeling and Worth Calculation for a Typical 1100 Mwe Coastal Nuclear Power Plant Using Wims/d4 and Citation, [Science and Technology of Nuclear Installations](#).
- 55- Study on the Sensitivity and Uncertainty of Nuclear Data to the Reactivity of Linear Breed-and-Burn Fast Reactor Using SCALE6.2 Code, [Science and Technology of Nuclear Installations](#).
- 56- Shielding Design and Dose Evaluation for HTR-PM Fuel Transport Pipelines by QAD-CGA Program, [Science and Technology of Nuclear Installations](#).
- 57- Neutronic Performance of the Vver-1000 Reactor Using Thorium Fuel with Endf/library, [Journal of Radiation Research and Applied Science](#)
- 58- Computational Analysis of a Neutron Trap in the Center of the Wwr-k Reactor Core for Irradiation Tests of Large-sized Objects, [Journal of Radiation Research and Applied Science](#)

- 59- Jacobian-Free Newton Krylov based on the finite difference method for neutronic-thermal hydraulic coupling problem, [International Conference on Energy Engineering and Environmental Protection](#).
- 60- Effect of Neutron Irradiation on the Critical Event of Cleavage Fracture of the Domestic A508-3 Steel, [International Conference on New Material and Chemical Industry \(NMCI\)](#).
- 61- Effect of ZrB₂ and UB₂ Discrete Burnable Absorber Pins on Fuel Reactivity, [Progress in Nuclear Energy, Progress in Nuclear Energy](#).
- 62- Optimization of Plutonium Fuel Loaded on Small 100MWe Molten Salt Reactor Using Several Nuclear Data Libraries, [Nuclear Science and Techniques](#).
- 63- Conceptual design and neutronic analysis of a megawatt level vehicular micro-reactor based on TRISO fuel particles and S-CO₂ direct power generation, [Nuclear Science and Techniques](#).
- 64- An improved method for PWR fuel failure detection using cascade-forward neural network with decision tree, [Frontiers in Energy Research](#).
- 65- Analysis of SMART reactor core for (U-Th)O₂ and MOX fuel hybrid Configurations, [Nuclear Science and Techniques](#).
- 66- Investigating the possibility of extending the BWR cycle length to 15 years of operation with burnable absorbers using MCNPX code, [Scientific Reports](#).
- 67- Optimization on Neutronic Properties for Small Long-life Gas-cooled Fast Reactor with Natural Uranium as Fuel Cycle Input, [International Journal of Energy Research](#).

[My Web Site](#)

- 1- <https://orcid.org/0000-0002-1280-9363>
- 2- <https://scholar.google.com/eg/citations?user=1YxHEX8AAAAJ&hl=ar>
- 3- https://www.researchgate.net/profile/Ahmed_Galahom2
- 4- <https://publons.com/researcher/1228740/ahmed-abdelghafar-galahom/>
- 5- <https://growkudos.com/hub/304457/publications>
- 6- <http://www.citeulike.org/user/agalahom>.