



Sajjad Firas Abdulameer Marhoon Alkafaji

سجاد فراس عبد الامير مرهون الخفاجي

Assistant Professor

PROFILE

civil engineer

ACADEMIC TITLES

2023-02-03 Assistant Professor

PUBLICATIONS (3 7)

- A novel index for assessing the compound drought, heat waves, and air pollution extremes**
Urban Climate 65, 102726, 2026 | 2026 | Cited: 6
- Global monsoon variability in a 1.5° C warming climate: Observational changes and end-century projections**
Atmospheric Research, 108765, 2026 | 2026 | Cited: 2
- Current and Projected Impacts of Climate Change on Arabian Gulf Sea Level Rise**
Advances in Space Research, 2026 | 2026
- Spatially Constrained Copula-Based Clustering for Climate Zone Classification in Borneo**
International Journal of Climatology, e70420, 2026 | 2026
- Magento-double diffusive natural convection in a partially heated wavy porous cavity filled with a radiative hybrid nanofluid: S. Hansda et al.**
Journal of Thermal Analysis and Calorimetry 150 (13), 10489-10512, 2025 | 2025 | Cited: 15
- Thermal performance analysis of parabolic trough solar collectors equipped with elliptical absorber tubes**
Journal of Radiation Research and Applied Sciences 18 (4), 101953, 2025 | 2025 | Cited: 1
- Thermal radiation induced entropy generation in hybrid nanofluid convection under magnetic field in a wavy cavity with localized thermosolutal sources**
Journal of Radiation Research and Applied Sciences 18 (4), 101845, 2025 | 2025 | Cited: 8
- Chitosan-Based Flocculant Heavy Metal Removal Prediction Using Machine Learning Models**
ACS omega 10 (40), 46714-46734, 2025 | 2025 | Cited: 3
- Composite materials in solar energy: a review**
Solar Energy 297, 113606, 2025 | 2025 | Cited: 17
- Magento-double diffusive natural convection in a partially heated wavy porous cavity filled with a radiative hybrid nanofluid: S. Hansda et al.**
Journal of Thermal Analysis and Calorimetry, 1-24, 2025 | 2025 | Cited: 3
- Hydraulic and hydroclimatic impact on dam seepage of civil and structural mechanisms with application of deep learning models**
Results in Engineering 23, 102420, 2024 | 2024 | Cited: 9
- Development of a mathematical model for investigation of hollow-fiber membrane contactor for membrane distillation desalination**
Journal of Molecular Liquids 404, 124907, 2024 | 2024 | Cited: 7
- Influence of vertical openings on the structural behavior of curved beams**
AIP Conference Proceedings 3009 (1), 030124, 2024 | 2024
- Use of Electrolysis to Produce H_2 from Natural and Modified Water**
Energy Technology | 2024

CONTACT

Phone: 07724874251

Email: e09151498@s.uokerbala.edu.iq

e09151498@s.uokerbala.edu.iq

RESEARCH METRICS

h-index (Scopus)	0
h-index (GS)	8
Citations (Scopus)	0
Citations (GS)	275
Documents (Scopus)	0
Documents (GS)	25



15. **Influence of vertical openings on the structural behavior of curved beams**
AIP Conference Proceedings 3009 (1), 2024 | 2024
16. **Iodo-Functionalization of Zr-UiO-67 Metal-Organic Frameworks: An Efficient Strategy for I⁻ Uptake and Selective Detection of I⁻**
Journal of Molecular Structure, 137641, 2024 | 2024
17. **Use of Electrolysis to Produce H₂ from Natural and Modified Water**
Energy Technology 12 (1), 2300918, 2024 | 2024 | Cited: 6
18. **Iodo-functionalization of Zr-UiO-67 metal-organic frameworks: An efficient strategy for I₂ uptake and selective detection of I⁻**
Journal of Molecular Structure 1304, 137641, 2024 | 2024 | Cited: 4
19. **A review of the application of hybrid nanofluids in solar still energy systems and guidelines for future prospects**
Solar Energy 272, 112485, 2024 | 2024 | Cited: 126
20. **Simulation of natural convection of nanofluid inside a square cavity using experimental data by lattice Boltzmann method**
Ain Shams Engineering Journal, 102711, 2024 | 2024
21. **Enhancing solar energy conversion efficiency: Thermophysical property predicting of MXene/graphene hybrid nanofluids via bayesian-optimized artificial neural networks**
Results in Engineering 24, 102858, 2024 | 2024 | Cited: 51
22. **Simulation of natural convection of nanofluid inside a square cavity using experimental data by lattice Boltzmann method**
Ain Shams Engineering Journal 15 (5), 102711, 2024 | 2024 | Cited: 19
23. **Technical and financial feasibility of a chemicals recovery and energy and water production from a dairy wastewater treatment plant**
Scientific Reports 14 (1), 11143, 2024 | 2024 | Cited: 17
24. **Fabrication of Al/BN composite strips and evaluation of fracture toughness and forming limit diagram**
Materials Today Communications 37, 107457, 2023 | 2023 | Cited: 5
25. **An efficient magnetic nanoadsorbent based on functionalized graphene oxide with gellan gum hydrogel embedded with MnFe layered double hydroxide for adsorption of Indigo carmine ...**
International Journal of Biological Macromolecules, 127479, 2023 | 2023
26. **Feedback Linearization and SelfTuning PD Fuzzy Controller for wheeled mobile robot**
2023
27. **DBU hydrogen sulfate bonded to chloropropyl-functionalized bilayer silica-nano-Fe₃O₄: as an efficacious magnetic nanocatalyst for rapid synthesis of pyrido [2, 3-d: 6, 5-d ...**
Research on Chemical Intermediates, 1-19, 2023 | 2023
28. **An efficient magnetic nanoadsorbent based on functionalized graphene oxide with gellan gum hydrogel embedded with MnFe layered double hydroxide for adsorption of Indigo carmine ...**
International Journal of Biological Macromolecules 253, 127479, 2023 | 2023 | Cited: 12
29. **DBU hydrogen sulfate bonded to chloropropyl-functionalized bilayer silica-nano-Fe₃O₄: as an efficacious magnetic nanocatalyst for rapid synthesis of pyrido [2, 3-d: 6, 5-d ...**
Research on Chemical Intermediates 49 (12), 5431-5449, 2023 | 2023 | Cited: 5
30. **Opposing Mixed Convection in an Open Parallelogram Cavity with the Horizontal Channel: Effects of the Heat Source Length and Location**
Journal of Advanced Research in Numerical Heat Transfer 14 (1), 118-135, 2023 | 2023
31. **An efficient magnetic nanoadsorbent based on functionalized graphene oxide with gellan gum hydrogel embedded with MnFe layered double hydroxide for adsorption of Indigo carmine from water**
International Journal of Biological Macromolecules | 2023

32. **DBU hydrogen sulfate bonded to chloropropyl-functionalized bilayer silica-nano-Fe₃O₄ as an efficacious magnetic nanocatalyst for rapid synthesis of pyrido[2,3-d:6,5-d']dipyrimidines**
Research on Chemical Intermediates | 2023
33. **Thermal and environmental optimization of an intercooled gas turbine toward a sustainable environment**
Chemosphere 339, 139624, 2023 | 2023 | Cited: 7
34. **Opposing mixed convection in an open parallelogram cavity with the horizontal channel: effects of the heat source length and location**
J. Adv. Res. Num. Heat Transfer 14 (1), 118-135, 2023 | 2023 | Cited: 6
35. **Effect of Transverse Openings on Structural Behavior of Reinforced Concrete curved Beams**
2022 International Symposium on Multidisciplinary Studies and Innovative ..., 2022 | 2022
36. **Results in Engineering**
0
37. **Use of Electrolysis to Produce H₂ from Natural and Modified Water**
Energy Technology, 2300918, 0