



Adnan hashim abdukkadhim

عدنان هاشم عبد الكاظم حسن الركابي

Lecturer

PROFILE

Male

ACADEMIC TITLES

2019-07-11 Lecturer

2019-07-09 Lecturer

GRADUATE SUPERVISION

no

no (2020)

ADMINISTRATIVE POSITIONS

2023-05-20 - Present Head of the Medical Device Engineering Department

2021-01-17 - 2022-08-17 Director of the Graduate Studies Department

INTERNATIONAL MEMBERSHIPS

• Syndicate of Physicists

PUBLICATIONS (4 2)

- Satellite Observed Groundwater Decline in Southern and Western Iraq**
Sumer Journal for Pure Science 5 (1), 273-283, 2026 | 2026
- A Matlab-Based Graphical user Interface for Change Vector Analysis in Land Cover Change Detection using**
<https://publications.srp-center-services.com/index.php/ijn/article/view/309 ...>, 2026 | 2026
- Ti₂SnC MAX Phase Directly Synthesized by High-Temperature Ball Milling**
Transactions of the Indian Institute of Metals | 2024
- A critical review on phase change materials (PCM) based heat exchanger: Different hybrid techniques for the enhancement**
Journal of Energy Storage 79, 109840, 2024 | 2024 | Cited: 256
- Coherent control of parametric generation of laser beams via intersubband transitions in quantum wells**
Laser Physics Letters 21 (2), 026001, 2024 | 2024 | Cited: 2
- A review of design parameters, advancement, challenges, and mathematical modeling of asphalt solar collectors**
Journal of Thermal Analysis and Calorimetry 149 (1), 41-61, 2024 | 2024 | Cited: 26
- Effect of CoFe2O4 nanoparticles-to-g-C3N4 nanosheets weight ratio on the microstructure, phase, magnetic behavior of g-C3N4-Cobalt ferrite nanocomposite material**
Materials Chemistry and Physics 318, 129143, 2024 | 2024 | Cited: 5

CONTACT

Phone: 07829519595

Email: adnan.hashim@uos.edu.iq

adnan.hashim@alayen.edu.iq

EDUCATION

Doctorate (2017-02-27)

remote sensing and image processing

BAGHDAD university

Master's Degree (2011-05-25)

remote sensing and image processing

BAGHDAD university

RESEARCH METRICS

h-index (Scopus)	9
h-index (GS)	9
Citations (Scopus)	442
Citations (GS)	559
Documents (Scopus)	26
Documents (GS)	34

AWARDS

• Ministerial thanks and appreciation

RESEARCH INTERESTS

• Environmental pollution and climate change



8. **Ti₂SnC MAX Phase Directly Synthesized by High-Temperature Ball Milling**
Transactions of the Indian Institute of Metals, 1-9, 2024 | 2024 | Cited: 7
9. **Ultrasonic synthesis of green lipid nanocarriers loaded with *Scutellaria barbata* extract: a sustainable approach for enhanced anticancer and antibacterial therapy**
Bioprocess and Biosystems Engineering 47 (8), 1321-1334, 2024 | 2024 | Cited: 5
10. **Metal doped nanostructures as catalysts of nitrogen reduction to ammonia**
Silicon 16 (4), 1421-1431, 2024 | 2024 | Cited: 2
11. **Efficient pollutant removal in wastewater using nanosized zero-valent iron: Mechanisms and applications**
Materials Science and Engineering: B 305, 117432, 2024 | 2024 | Cited: 3
12. **Effect of CoFe₂O₄ nanoparticles-to-g-C₃N₄ nanosheets weight ratio on the microstructure, phase, magnetic behavior of g-C₃N₄-Cobalt ferrite nanocomposite material**
Materials Chemistry and Physics | 2024
13. **Microwave-assisted synthesis and development of novel penicillinoate@copper metal-organic frameworks as a potent antibacterial agent**
Frontiers in Chemistry | 2024 | Cited: 17
14. **Ultrasonic synthesis of green lipid nanocarriers loaded with *Scutellaria barbata* extract: a sustainable approach for enhanced anticancer and antibacterial therapy**
Bioprocess and Biosystems Engineering | 2024
15. **Effects of barriers on the thermal enhancement in boiling flow within a ribbed-microchannel using molecular dynamics simulation approach**
Ain Shams Engineering Journal 14 (10), 102195, 2023 | 2023 | Cited: 1
16. **The effects of oxide layer on the joining performance of CuZr metallic glasses**
Transactions of the Indian Institute of Metals 76 (1), 239-247, 2023 | 2023 | Cited: 27
17. **Energy and exergy analysis of a liquid desiccant heat and mass transfer loop with natural convection: The effect of heat sink and heat source temperature**
Case Studies in Thermal Engineering 45, 102833, 2023 | 2023 | Cited: 6
18. **Environmental Impacts of Oil Fields on Agricultural Areas (Case Study, Al-Garraf Oil Field)**
Sumer Journal for Pure Science (ISSN: 2790-7031) 2 (2790-7031), 147-156, 2023 | 2023 | Cited: 1
19. **On mechanical behavior and optimization of elliptical-rectangular absorbers made by ABS and PLA in both experimental and numerical methods**
Journal of the Brazilian Society of Mechanical Sciences and Engineering 45, 2023 | 2023 | Cited: 8
20. **A two-phase simulation for analyzing the hydraulic-thermal performance of Cu-Water nanofluid within a tube enhanced with W- and C-shaped ribs**
Case Studies in Thermal Engineering | 2023 | Cited: 6
21. **Two-dimensional realization of electromagnetically induced phase grating in a quantum dot nanostructure**
Laser Physics 33 (11), 115201, 2023 | 2023 | Cited: 1
22. **Potential application of AIP nanosheet semiconductor in the detection of toxic phosgene, thiophosgene, and formaldehyde gases (Retracted Article)**
Semiconductor Science and Technology | 2022
23. **Roles of CCR10/CCL27-CCL28 axis in tumour development: mechanisms, diagnostic and therapeutic approaches, and perspectives**
Expert Reviews in Molecular Medicine | 2022 | Cited: 42
24. **Zinc (II) complex immobilized on the surface of magnetic nanoparticles modified with phenanthroline: A novel and efficient nanomagnetic reusable catalyst for cross-coupling reaction of aryl iodides with terminal aromatic alkynes**
Synthetic Communications | 2022
25. **New material for addressing charge transport issue in DSSCs: Composite WS₂/MoS₂ high porosity counter electrodes**
Solar Energy 243, 62-69, 2022 | 2022 | Cited: 29

26. **Gram scale, metal-free and selective aerobic oxidation of alcohol and alkyl benzenes using homogeneous recyclable TAlm [MnO₄] oxidative ionic liquid under mild conditions ...**
Journal of Saudi Chemical Society 26 (4), 101487, 2022 | 2022 | Cited: 8
27. **The characterization of cold welding process in CuZr metallic glasses with dissimilar alloying compositions**
Materials Today Communications 31, 103471, 2022 | 2022 | Cited: 13
28. **Zinc (II) complex immobilized on the surface of magnetic nanoparticles modified with phenanthroline: A novel and efficient nanomagnetic reusable catalyst for cross-coupling ...**
Synthetic Communications 52 (15), 1602-1613, 2022 | 2022 | Cited: 5
29. **Thermal and Hydraulic Performances of Carbon and Metallic Oxides-Based Nanomaterials**
Nanomaterials 12 (9), 1545, 2022 | 2022 | Cited: 3
30. **Analyze Urban Area Density As A Measure Of Urban Reconstruction**
2022 International Symposium on Multidisciplinary Studies and Innovative ..., 2022 | 2022 | Cited: 2
31. **Clockwise and counter clockwise 6 & 9 year geostrophic MC (& Rossby) waves in centre of the mechanism of geomagnetic jerks and relevant LODs**
Contributions to Geophysics and Geodesy 52 (1), 127-155, 2022 | 2022
32. **The effect of conjugated linoleic acid supplementation on oxidative stress markers: A systematic review and meta-analysis of randomized controlled trials**
Clinical Nutrition ESPEN 49, 121-128, 2022 | 2022 | Cited: 36
33. **Thermal analysis of hydration process in the vicinity of the Copper matrix using molecular dynamics simulation for application in thermal engineering**
Energy Reports 8, 7468-7475, 2022 | 2022 | Cited: 34
34. **RETRACTED: Potential application of AIP nanosheet semiconductor in the detection of toxic phosgene, thiophosgene, and formaldehyde gases**
Semiconductor Science and Technology 37 (9), 095015, 2022 | 2022 | Cited: 5
35. **Gram scale, metal-free and selective aerobic oxidation of alcohol and alkyl benzenes using homogeneous recyclable TAlm[MnO₄] oxidative ionic liquid under mild conditions: Microwave/ ultrasonic-assisted to carboxylic acid**
Journal of Saudi Chemical Society | 2022
36. **New material for addressing charge transport issue in DSSCs: Composite WS₂/MoS₂ high porosity counter electrodes**
Solar Energy | 2022
37. **Optimal preparation time in the vermicompost production process**
Food Science and Technology 42, e03622, 2022 | 2022 | Cited: 1
38. **Thermal and Hydraulic Performances of Carbon and Metallic Oxides-Base**
<https://www.mdpi.com/journal/nanomaterials> 12 (<https://www.mdpi.com/journal ...>, 2022 | 2022
39. **Apply Effective Method to Determine the Best Suggested Camping Area for Military Units at Undulating Areas Using DEM During the Rainy Season and Floods**
Journal of Education for Pure Science-University of Thi-Qar 9 (1), 259-270, 2019 | 2019
40. **Estimating snow cover area in south of Turkey using the Normalized Difference Snow Index (NDSI) form MODIS Satellite Images**
<https://iopscience.iop.org/article/10.1088/1742-6596/1279/1/012047/meta>, 2019 | 2019 | Cited: 8
41. **Assessment of Lycopene Effects on Herpes Simplex - 1 in Tissue Culture**
Research Journal of Pharmaceutical, Biological and Chemical Sciences | 2015
42. **location the active generating area of dust storm on Iraq land using remote sensing data**
<http://scbaghdad.edu.iq/library/Physics/MS.C/2011/Locating%20the%20Active ...>, 2012 | 2012