



Abdullah Hasan Jabbar

عبدالله حسن جبار

PUBLICATIONS (92)

CONTACT

Email: abdullah.hasan.j@sawauniversity.edu.iq

abdullah.hasan.j@sawauniversity.edu.iq

RESEARCH METRICS

h-index (Scopus)	0
h-index (GS)	23
Citations (Scopus)	0
Citations (GS)	1460
Documents (Scopus)	0
Documents (GS)	92



- Fluorouracil drug-adsorbed T-AlN nanosheet as a promising drug delivery vehicle for anti-cancer treatment**
Materials Chemistry and Physics, 132591, 2026 | 2026
- Corrosion protection performance of eco-friendly inhibitor for zinc metal surface: Computational modeling**
Chemical Physics 598, 112812, 2025 | 2025 | Cited: 4
- Synthesis and Applications of Conductive Polyaniline Rice Husk Ash Silica Nanocomposites: A Comprehensive Review**
Chemistry and Biochemistry: Research Progress Vol. 4, 150-173, 2025 | 2025
- Design and supported of gold nanoparticles over the chitosan-gellan polymers as a novel catalyst for Suzuki coupling reactions**
Journal of Organometallic Chemistry 1037, 123725, 2025 | 2025 | Cited: 1
- Benchmarking the high conductive two-dimensional layered structured NbS₂, ZrS₂, ReS₂ and NbSe₂ materials with zero energy bandgap (E_g) for photocatalytic application: a DFT study**
Royal Society Open Science 12 (3), 241560, 2025 | 2025 | Cited: 1
- Application of B3S Monolayer as a Promising Anode in K-Ion Batteries**
Chemistry Africa 7 (5), 2881-2887, 2024 | 2024 | Cited: 5
- Eco-friendly choline acetate/propionate ionic liquids as novel green electrolytes for high performance supercapacitors**
Ionics 30 (6), 3617-3625, 2024 | 2024 | Cited: 6
- Fe₃O₄@Diamine-CuI Nanocomposite: A Novel and Highly Reusable Nanomagnetic Catalyst for Ecofriendly Synthesis of Triaryl Imidazoles**
Polycyclic Aromatic Compounds 44 (2), 1309-1325, 2024 | 2024 | Cited: 7
- Development of B3O3 monolayer as a highly sensitive sensor for detection of acetone molecule: A DFT analysis**
Sustainable Chemistry for the Environment 5, 100079, 2024 | 2024 | Cited: 10
- Investigações de resistência à incrustação de produtos de algas marinhas**
Brazilian Journal of Biology 84, e263386, 2024 | 2024
- Innovative biomass waste heat utilization for green hydrogen production: A comparative and optimization study of steam and organic rankine cycles**
Process Safety and Environmental Protection 190, 148-174, 2024 | 2024 | Cited: 11
- OsO₄ detection by a Ni-decorated boron nitride nanocluster: a density functional theory study**
Bulletin of Materials Science 47 (3), 191, 2024 | 2024
- Correction: Application of B3S Monolayer as a Promising Anode in K-Ion Batteries**
Chemistry Africa 7 (9), 5119-5119, 2024 | 2024
- Retraction notice to: "Design a promising non-precious electro-catalyst for oxygen reduction reaction in fuel cells"[Int J Hydrogen Energy 48 (2023) 6308–6316]**
Journal of Molecular Structure 1306, 15, 2024 | 2024
- Versatility of a 2D carbon allotrope with tetrarings in oxygen activation reactions**
Materials Science and Engineering: B 309, 117625, 2024 | 2024 | Cited: 1
- A DFT study of natural-based materials kaempferol and apigenin for hazardous CO and CO₂ gas detection**
Nano-Structures & Nano-Objects 38, 101197, 2024 | 2024 | Cited: 2
- Fouling resistance investigations of seaweed products**
Brazilian Journal of Biology 84, e263386, 2024 | 2024 | Cited: 3

18. **Bandgap engineering and tuning of electronic and optical properties of hetero-atoms-doped-graphene composites by density functional quantum computing for photocatalytic ...**
Catalysis Letters 154 (6), 2658-2669, 2024 | 2024 | Cited: 25
19. **Manufacturing of bimetal 1060/5083 composites via accumulative press bonding**
Journal of applied research and technology 21 (4), 707-712, 2023 | 2023
20. **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: 26
21. **Determination of the Effect of Zinc Acetate as a Doped Substance on the Properties of Cadmium Sulfide Nanomaterials by using a Hydrothermal Interaction Technique**
International Journal of Physics Research and Applications 6 (2), 160-164, 2023 | 2023 | Cited: 5
22. **Insights into the electronic properties of coumarins: a comparative study photocatalytic degradation of methylene blue**
Phys Chem Res 11 (2), 437-447, 2023 | 2023 | Cited: 20
23. **A comparative DFT study of electronic and optical properties of Pb/Cd-doped LaVO₄ and Pb/Cd-LuVO₄ for electronic device applications**
Computational Condensed Matter 34, e00773, 2023 | 2023 | Cited: 21
24. **An Integrative Review on Artificial Intelligence for Iraq's Hospital Health Care**
The Metascience 1 (1), 2023 | 2023 | Cited: 5
25. **Insights into the electronic properties of coumarins: A comparative study synthesis and characterization of Fe₂O₃/Mn₂O₃ magnetic nanocomposites for the photocatalytic ...**
Physical Chemistry Research 11 (2), 437-447, 2023 | 2023 | Cited: 5
26. **The effective and sustainable application of a green amino acid-based corrosion Inhibitor for Cu metal**
Chemical Physics Impact 7, 100316, 2023 | 2023 | Cited: 14
27. **Utility of (MgO) 12 nanocage as a chemical sensor for recognition of amphetamine drug: a computational inspection**
Chemical Physics Impact 7, 100382, 2023 | 2023 | Cited: 17
28. **Testing and evaluation of the corrosion behavior of Aluminum/Alumina bulk composites fabricated via combined stir casting and APB process**
Advances in materials research: AMR 12 (4), 263-271, 2023 | 2023 | Cited: 7
29. **Evaluation of structural, morphological, optical, and electrical properties of zinc oxide semiconductor nanoparticles with microwave plasma treatment for electronic device ...**
Journal of Materials Research and Technology 19, 2126-2134, 2022 | 2022 | Cited: 66
30. **RETRACTED: Optimal variable estimation of a Li-ion battery model by fractional calculus and bio-inspired algorithms**
Journal of Energy Storage 54, 105323, 2022 | 2022 | Cited: 19
31. **Noise reduction and mammography image segmentation optimization with novel QIMFT-SSA method**
Computer Optics | 2022 | Cited: 15
32. **The characterization of cold welding process in CuZr metallic glasses with dissimilar alloying compositions**
Materials Today Communications 31, 103471, 2022 | 2022 | Cited: 13
33. **Role of thermal history on atomic structure and ductility of ion-irradiated metallic glasses**
Modelling and Simulation in Materials Science and Engineering 30 (2), 025002, 2022 | 2022 | Cited: 4
34. **Double chelation of Iron through dimer formation of favipiravir: Density functional theory analysis**
Main Group Chemistry, 1-9, 2022 | 2022 | Cited: 3
35. **Effect of spatial heterogeneity on level of rejuvenation in Ni₈₀P₂₀ metallic glass**
Chinese Physics B 31 (9), 096401, 2022 | 2022 | Cited: 2
36. **Hub location-allocation in computer-based networks under disruption using whale optimization algorithm**
Industrial Engineering & Management Systems 21 (3), 503-515, 2022 | 2022 | Cited: 150

37. **Enhancement in structural, morphological, and optical properties of copper oxide for optoelectronic device applications**
Nanotechnology Reviews 11 (1), 2827-2838, 2022 | 2022 | Cited: 79
38. **First principal calculations to investigate structural, electronic, optical, and magnetic properties of Fe₃O₄ and Cd-doped Fe₂O₄**
Computational Condensed Matter 30, e00629, 2022 | 2022 | Cited: 32
39. **Effect of laser irradiated silver doped polystyrene/polyethylene terephthalate (PET) thin film for solar cell applications**
RSC advances 12 (51), 32949-32955, 2022 | 2022 | Cited: 14
40. **Effects of Strontium on the Structural, Optical, and Microwave Dielectric Properties of Ba₂Ti₉O₂₀ Ceramics Synthesized by a Mixed Oxide Route**
ACS omega 7 (29), 25573-25579, 2022 | 2022 | Cited: 14
41. **Mushroom supply chain network design using robust optimization approach under uncertainty**
Industrial Engineering & Management Systems 21 (3), 516-525, 2022 | 2022 | Cited: 13
42. **Structural Evaluation, Optical, and Dielectric Properties of Ba-Doped Ca₄Ti₃O₁₀-Sintered Ceramics**
Journal of Superconductivity and Novel Magnetism 35 (7), 1987-1993, 2022 | 2022 | Cited: 11
43. **Effect of Cr Doping on the Structural, Optical and Dielectric Properties of MoO₃ Microrods Synthesized by Sol-Gel Auto Combustion Method**
Crystals 12 (9), 1259, 2022 | 2022 | Cited: 10
44. **The effects of initial rejuvenation on the cold joining behavior of Cu₆₀Zr₄₀ metallic glass**
Applied Physics A 128 (5), 455, 2022 | 2022 | Cited: 6
45. **Effects of Internet of things (IoT) on performance of agricultural in China: A case study**
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 44, 2022 | 2022 | Cited: 4
46. **Synthesis and enhancement of morphological and structural properties of zinc sulphide thin films nanoparticle for solar cell application**
AIP Conference Proceedings 2398 (1), 020062, 2022 | 2022 | Cited: 2
47. **Characterization and anti-urolthiatic activity green synthesized of silver nanoparticles using the Pandanus atrocarpus extraction**
AIP Conference Proceedings 2398 (1), 020057, 2022 | 2022 | Cited: 1
48. **Evaluation of food processing with the management of food, water, and energy nexus in Baghdad, Iraq**
Food Science and Technology 42, e37822, 2022 | 2022 | Cited: 1
49. **Optical bistability and multistability via electron injection rate in an imperfect cavity**
Laser Physics Letters 19 (12), 125401, 2022 | 2022
50. **Comparative quantitative assessment of serum soluble fas and fasl between urological tumor patients and healthy donors**
AIP Conference Proceedings 2398 (1), 040047, 2022 | 2022
51. **RETRACTED: Role of Alloying Composition on the Nanomechanical Behavior of Amorphous Nanolaminates**
Chinese Physics B, 2022 | 2022
52. **Synthesis and Characterization of Polyaniline Nanoparticles (PANI NPs) Solar Cell Application**
Journal of Optoelectronics Laser 14 (6), 26-30, 2022 | 2022
53. **Effect of Cr Doping on the Structural, Optical and Dielectric Properties of MoO₃ Microrods Synthesized by Sol-Gel Auto Combustion Method. Crystals** 2022, 12, 1259
s Note: MDPI stays neutral with regard to jurisdictional claims in published and unpublished work., 2022 | 2022
54. **Employing Clinical Dynamics to Reduce Head CT Scan Ordering for Trifling Cranium Trauma Patients**
NeuroQuantology 20 (6), 1161-1167, 2022 | 2022
55. **A comparative study on characterizations and synthesis of pure lead sulfide (PbS) and Ag-doped PbS for photovoltaic applications**
Nanotechnology Reviews 10 (1), 1484-1492, 2021 | 2021 | Cited: 47

56. **An experimental test of the performance enhancement of a Savonius turbine by modifying the inner surface of a blade**
Materials Today: Proceedings 42, 2233-2240, 2021 | 2021 | Cited: 81
57. **Assessment of anticholinesterase effect of polyvinylpyrrolidone/silver nanocomposite biosynthesized by Pandanus atrocarpus extract**
Materials Today: Proceedings 42, 2578-2583, 2021 | 2021 | Cited: 20
58. **ECO-FRIENDLY SYNTHESIS OF SILVER NANOPARTICLES AGNPS AND ANTIBACTERIAL ACTIVITY**
Turkish Journal of Physiotherapy and Rehabilitation 32 (3), 11225-11230, 2021 | 2021 | Cited: 8
59. **Novel carbon quantum dots: Green and facile synthesis, characterization and its application in on-off-on fluorescent probes for ascorbic acid**
Journal of Nanostructures 11 (2), 236-242, 2021 | 2021 | Cited: 22
60. **Physical and biological characteristics of silver/polyvinylpyrrolidone nanocomposite using pandanus atrocarpus**
Universiti Tun Hussein Onn Malaysia, 2021 | 2021
61. **Synthesis and characterization of enhanced silica nanoparticle (SiO₂) prepared from rice husk ash immobilized of 3-(chloropropyl) triethoxysilane**
Materials Today: Proceedings 42, 2464-2468, 2021 | 2021 | Cited: 77
62. **Synthesis and characterization of enhanced polyaniline nanoparticles by oxidizing polymerization**
Solid State Technology 63 (1), 256-266, 2020 | 2020 | Cited: 11
63. **A review on synthesis of conducting with polyaniline rice husk ash silica nanocomposites and application**
International Journal of Psychosocial Rehabilitation 24 (03), 2020 | 2020 | Cited: 14
64. **Green Synthesis and Characterization of Silver Nanoparticle (AgNPs) using Pandanus Atrocarpus Extract**
International Journal of Advanced Science and Technology 29 (3), 4913-4922, 2020 | 2020 | Cited: 54
65. **Nanocomposite Assisted Green Synthesis of Polyvinylpyrrolidone-Silver Nanocomposite Using Pandanus atrocarpus Extract for Antiuro lithiatic Activity**
Systematic Review in Pharmacy 11 (6), 1436-1442, 2020 | 2020 | Cited: 7
66. **An Overview on Characterization of Silver/Cuprous Oxide Nanometallic (Ag/Cu₂O) As Visible Light Photocatalytic**
International Journal of Advanced Science and Technology 29 (3), 5008 - 5018, 2020 | 2020 | Cited: 43
67. **Salih Meri Al Absi et al., Assessment of anticholinesterase effect of polyvinylpyrrolidone/silver nanocomposite biosynthesized by Pandanus atrocarpus extract**
Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.582>, 2020 | 2020 | Cited: 22
68. **Effects of plant growth regulators and dates planting on spring maize production under agro-climatic conditions of Faisalabad, Pakistan**
Advances in Agriculture and Animal Sciences 36 (2), 120-128, 2020 | 2020 | Cited: 3
69. **Investigation of Antioxidant for Polyvinylpyrrolidone-Silver Nanocomposite Using Pandanus atrocarpus Extract**
Xi'an Jianshu Keji Daxue Xuebao/Journal Xi'an Univ, Archit. Technol., 2020 | 2020 | Cited: 3
70. **Fabrications of PS/TiO₂ nanocomposite for solar cells applications**
AIP Conference Proceedings 2151 (1), 020011, 2019 | 2019 | Cited: 23
71. **Enhanced bioactivity of polystyrene-silver nanocomposite (PS/Ag NCs)-an antimicrobial study**
AIP Conference Proceedings 2151 (1), 020002, 2019 | 2019 | Cited: 24
72. **Green Synthesis of Metal Nanoparticles via Natural Extracts for Bioactive and Biocompatible Applications**
Journal of Reseach on the Lepidoptera 50 (2), 186-195, 2019 | 2019
73. **Functional Magnetic Resonance Imaging of Neurodegenerative Diseases for Brain Physiology in Aging**
Journal of Reseach on the Lepidoptera 50 (2), 147-158, 2019 | 2019 | Cited: 4
74. **Magnetic field-induced signal enhancement in laser-produced lead plasma**
Laser and Particle Beams 37 (1), 67-78, 2019 | 2019 | Cited: 26

75. **Synthesis, Stabilization, Characterization, and Study of Biomedical Alterations Induced By Nanoparticles**
Journal of Global Pharma Technology 11 (1), 308-314, 2019 | 2019
76. **Synthesis of Silver Nanoparticles by Chemical Method and Investigated for Antibacterial Activity**
Indian Journal of Public Health Research & Development 10 (8), 1163-1168, 2019 | 2019 | Cited: 1
77. **Synthesis, characterization, and properties of polystyrene/SiO₂ nanocomposite via sol-gel process**
AIP conference proceedings 2151 (1), 020034, 2019 | 2019 | Cited: 58
78. **Poor Biodegradability of Polymers with Metal Nanocomposites in Biological Applications**
2019
79. **Study Magnetic Properties And Synthesis With Characterization Of Nickel Oxide (NiO) Nanoparticles**
International Journal of Scientific and Engineering Research 6 (8), 94-98, 2018 | 2018 | Cited: 25
80. **Study and Characterization of Polystyrene/Titanium Dioxide Nanocomposites (PS/TiO₂ NCs) for Photocatalytic Degradation Application: a Review**
International Journal of Engineering & Technology 7 (4), 538-543, 2018 | 2018 | Cited: 24
81. **A Continuous Process for the Preparation, Characterization and Study Thermal Properties of Nickel Oxide Nanostructure**
International Journal of Scientific and Engineering Research 3 (9), 590-602, 2018 | 2018 | Cited: 30
82. **Chemical synthesis and characterization of silver nanoparticles induced biocompatibility for anticancer activity**
Indian Journal of Public Health Research & Development 9 (11), 352-357, 2018 | 2018 | Cited: 27
83. **Green synthesis of silver/polystyrene Nano composite (ag/PS NCs) via plant extracts beginning a new era in drug delivery**
Indian J. Sci. Technol 11 (22), 1-9, 2018 | 2018 | Cited: 27
84. **Comparative productivity and seed nutrition of cotton by plant growth regulation under deficient and adequate boron conditions**
Planta Daninha 36, e018177790, 2018 | 2018 | Cited: 13
85. **Synthesis and Characterization of Zinc Sulphide (ZnS) Thin Film Nanoparticle for Optical Properties**
Journal of Global Pharma Technology 10 (07), 369-373, 2018 | 2018 | Cited: 26
86. **Zinc Oxide Nanoparticles by Biological Eco-Friendly Synthesis Matrixes for Antibacterial Applications"**
Journal of Global Pharma Technology 10 (8), 410-415, 2018 | 2018 | Cited: 5
87. **ENERGY GAP INVESTIGATION AND CHARACTERIZATION OF KESTERITE CU₂ZNSNS₄ THIN FILM FOR SOLAR CELL APPLICATIONS**
2018 | Cited: 27
88. **Electrochemical deposition of nickel graphene composite coatings: effect of deposition temperature on its surface morphology and corrosion resistance. RSC Adv 7: 31100–31109**
2017 | Cited: 7
89. **Synthesis and Characterization of Cu₂ZnSnS₄ (CZTS) Thin Film by Chemical Bath Deposition (CBD) for Solar Cell Applications**
International Journal of Scientific and Engineering Research 5 (12), 35-38, 2017 | 2017 | Cited: 41
90. **STUDY OF NANO-SYSTEMS FOR COMPUTER SIMULATIONS**
International Journal of Technical Research and Applications 3 (5), 63-68, 2014 | 2014 | Cited: 2
91. **Chemical Physics Impact**
0
92. **MS, & Agam, MA (2021, August). Synthesis and enhancement of morphological and structural properties of zinc sulphide thin films nanoparticle for solar cell application**
AIP Conference Proceedings, 0 | 0 | Cited: 3