



Zainab Naser Jameel

زَيْنَب نَاصِر جَمِيل بَاشِ اِغَا الرِّكَابِي

Professor

ACADEMIC TITLES

2021-04-25 Professor

ADMINISTRATIVE POSITIONS

2023-09-11 - Present Director of the Quality Assurance and University Performance
Department-UOT

PUBLICATIONS (3 5)

- Comprehensive performance evaluation of high-split FTTH networks under optical amplification constraints**
Journal of Optical Communications, 2026 | 2026 | Cited: 1
- The impact of changing the launch power on the performance of the POF network**
Journal of Optics 55 (3), 2590-2594, 2026 | 2026 | Cited: 6
- Performance optimization of optical communications system for a 240 Gb/s hybrid TDM-OCDMA-PON using optical polarization multiplexing**
Journal of Optical Communications, 2026 | 2026 | Cited: 1
- Design and performance analysis of a hybrid PDM-WDM-SAC-OCDMA-TDM FTTH network for next-generation high-capacity access**
Journal of Optical Communications, 2026 | 2026 | Cited: 1
- Performance enhancement of optical communication systems through polarization division multiplexing with FBG dispersion compensation**
Journal of Optical Communications, 2026 | 2026
- Performance study of different dispersion compensations schemes**
Journal of Optics, 1-5, 2025 | 2025 | Cited: 3
- Preparation and Characterization of TiO₂ Nanoparticles via a Sol-gel Method**
Academic Science Journal 3 (1), 147-157, 2025 | 2025 | Cited: 1
- Mitigation of the problem of dispersion in optics communications systems**
Journal of Optical Communications, 2025 | 2025 | Cited: 3
- Synthesis and Photocatalytic Applications of TiO₂-CQDs Nanocomposites Prepared by Biological Methods**
Baghdad Science Journal 22 (3), 923-937, 2025 | 2025 | Cited: 9
- Adaptive multi-band OFDM-based transceiver design and performance evaluation for spectrally-efficient and resilient optical communication systems**
Journal of Optical Communications, 2025 | 2025 | Cited: 2
- Design and evaluation of dispersion compensation techniques in multi-channel optical transport networks**
Journal of Optical Communications, 2025 | 2025 | Cited: 1
- Spectral-spatial coding and turbulence-aware modulation strategies for ultra-reliable dense WDM hybrid MIMO-RF free space optical communication networks**
Journal of Optical Communications, 2025 | 2025 | Cited: 2
- The imperfections of the screen to camera OCC systems**
Journal of Optics 53 (4), 3743-3748, 2024 | 2024 | Cited: 12

CONTACT

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EDUCATION

دكتوراه (30-08-2015)
Laser Physics and Electro-optics
University of Baghdad

RESEARCH METRICS

h-index (Scopus)	6
h-index (GS)	10
Citations (Scopus)	673
Citations (GS)	1192
Documents (Scopus)	22
Documents (GS)	33



14. **Underwater Wireless Optical Communication for IOT using Coding MIMO Diversity**
Tikrit Journal of Engineering Sciences 31 (1), 152-160, 2024 | 2024 | Cited: 3
15. **Synthesis and Characterization of TiO₂-CQDs Nanocomposites and Testing of Their Anticancer Potential**
International Journal of Nanoelectronics and Materials (IJNeaM) 17 (4), 627-633, 2024 | 2024 | Cited: 7
16. **The imperfections of the screen to camera OCC systems**
Journal of Optics | 2023 | Cited: 12
17. **A Review: Error Correcting Codes for Efficient Underwater Optical Communication MIMO System**
2022 Iraqi International Conference on Communication and Information ...;, 2022 | 2022 | Cited: 4
18. **Preparation and Characterization of Nickel Doped Cadmium Sulfide Nanostructure Thin Films via Spray Pyrolysis Method**
Key Engineering Materials 900, 131-142, 2021 | 2021
19. **Effect of Different Multi-Walled Carbon Nanotubes MWCNTs on Mechanical and Physical Properties of Epoxy Nanocomposites**
IOP conference series: materials science and engineering 1094 (1), 012166, 2021 | 2021 | Cited: 7
20. **Manufacturing of Nano Hybrid Sol- Gel Coating and Studying the Raman Structural Properties, Morphological Characteristics and their Application as Antioxidant for Contaminate ...**
Journal of Optoelectronic and Biomedical Materials 12 (1), 1-7, 2020 | 2020
21. **Review on: titanium dioxide applications**
Energy Procedia 157, 17-29, 2019 | 2019 | Cited: 789
22. **Studying the effect of synthesized nano-titanium dioxide via two phases on the pseudomonas aeruginosa and portus bacteria as antimicrobial agents**
International Journal of Nanoelectronics and Materials | 2019 | Cited: 10
23. **A new method of functionalized multi walled carbon nanotubes by natural oil for microorganism cells detection**
AIP Conference Proceedings 1968 (1), 2018 | 2018 | Cited: 5
24. **Synthesis and photocatalytic activity for TiO₂ nanoparticles as air purification**
MATEC Web of Conferences | 2018
25. **Synthesis and photocatalytic activity for TiO₂ nanoparticles as air purification**
MATEC web of conferences 162, 05006, 2018 | 2018 | Cited: 47
26. **Synthesis of The gold Nanoparticles with Novel Shape via Chemical Process and Evaluating The structural, Morphological and Optical Properties**
Energy Procedia 119, 236-241, 2017 | 2017 | Cited: 26
27. **Evaluation of hybrid sol-gel incorporated with nanoparticles as nano paint**
AIP conference proceedings 1758 (1), 2016 | 2016 | Cited: 37
28. **Synthesis and Characterization of TiO₂ Nanoparticles via Sol-Gel Method by Pulse Laser Ablation**
The 5th international Conference for Nanotechnology and Advance materials 3 ...;, 2015 | 2015 | Cited: 95
29. **Synthesis and Characterization of TiO₂ Nanoparticles via Sol-gol Method by Pulse Laser Ablation**
Eng.&Tech. Journal 33 (No. 5), 761-771, 2015 | 2015 | Cited: 95
30. **Preparation of Silver and Gold Nanoparticles By Using Nd-YAG Pulse Laser Ablation**
Engineering and Technology Journal 32 (1), 138-144, 2014 | 2014 | Cited: 14
31. **Synthesis of TiO₂ nanoparticles by using sol-gel method and its applications as antibacterial agents**
Eng. & Tech. Journal 32 (3), 418-426, 2014 | 2014 | Cited: 49
32. **Synthesis of Colloidal Copper Oxide Nano particles using Pulsed Nd: YAG Laser Ablation in Liquid**
Engineering and Technology Journal 31 (1 Part (B) Scientific), 2013 | 2013 | Cited: 8
33. **Catalytic Growth of Carbon Nanotubes on Ni Nanoparticals Prepared Using Nd-YAG Pulse Laser Technique**
journal of the college of basic education 18 (73), 53-62, 2012 | 2012
34. **Synthesis and characterization of grafted acrylonitrile on polystyrene modified with activated carbon using gamma-irradiation**
Scientific Research and Essays 7 (7), 790-795, 2012 | 2012 | Cited: 47

35. **Preparation of Silver Nanoparticles and Their application in WasteWater Treatment**

3rd SCNAMA, 2011 | 2011 | Cited: 2