



# Ghufuran Mohammed Jassam Hassan

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Lecturer

## ACADEMIC TITLES

2024-10-06 Lecturer

## PUBLICATIONS ( 16 )

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## EDUCATION

دكتوراه (29-10-2023)

laser and electro optics

baghdad univrsity

## RESEARCH METRICS

|                    |     |
|--------------------|-----|
| h-index (Scopus)   | 5   |
| h-index (GS)       | 6   |
| Citations (Scopus) | 56  |
| Citations (GS)     | 119 |
| Documents (Scopus) | 12  |
| Documents (GS)     | 16  |



- Advanced multimode plasmonic refractive index sensor based on zinc nanoparticles for selective detection of garlic (*Allium sativum*)**  
*Microsystem Technologies* 32 (4), 49, 2026 | 2026
- The effect of increasing temperature on the sensitivity of photonic crystal fiber**  
*Journal of Optics* 54 (4), 2173-2179, 2025 | 2025 | Cited: 3
- Analysis of the optical and electrical properties of multilayer photoelectrochromic glass prepared by reactive magnetron sputtering**  
*Journal of Optics*, 1-9, 2025 | 2025 | Cited: 2
- The impact of humidity On the fabry-perot interferometer's photonic crystal fiber sensitivity**  
*Journal of Optics*, 1-6, 2025 | 2025 | Cited: 2
- Design and Fabrication of a Coreless Optical Fiber Sensor for Cobalt Concentration Detection**  
*Sensing and Imaging* 26 (1), 120, 2025 | 2025 | Cited: 1
- Single mode optical fiber sensor based on surface plasmon resonance for the detection of the Lactic acid for the chemical sensor**  
*Journal of Optics*, 1-4, 2024 | 2024 | Cited: 3
- High sensitivity for toxic metal ion sensor based on tapered PCF Mach-Zehnder interferometer**  
*Journal of Optics* 53 (2), 1079-1085, 2024 | 2024 | Cited: 10
- Tapered PCF Mach-Zehnder interferometer based on surface plasmon resonance (SPR) for estimating concentration toxic metal ions (lead)**  
*Journal of Optics* 53 (1), 163-168, 2024 | 2024 | Cited: 10
- Plastic Optical Fiber Sensor for sensing refractive index of citric acid based on Surface Plasmon Resonance**  
*Al-Nahrain Journal of Science* 27 (2), 114-118, 2024 | 2024 | Cited: 6
- Estimating concentration of toxic ions Arsenic in water by using Photonic Crystal Fiber based on Surface Plasmon Resonance (SPR)**  
*Baghdad Science Journal* 21 (2), 0445-0445, 2024 | 2024 | Cited: 6
- Refractive index sensor based on tapered optical fiber to determine the performance of different copper samples**  
*Journal of Optics*, 1-5, 2024 | 2024 | Cited: 4
- D-shaped photonic crystal fiber toxic metal ions (arsenic) sensor based on surface plasmon resonance**  
*Iraqi Journal of Physics* 21 (2), 91-98, 2023 | 2023 | Cited: 13
- The effect of tapered photonic crystal fiber structure on the performance of Mach-Zehnder interferometer to detection of toxic metal ion (Zinc)**  
*Journal of Optics* 52 (2), 683-690, 2023 | 2023 | Cited: 6
- Fabrication of a chemical sensor based on surface plasmon resonance via plastic optical fiber**  
*Iraqi Journal of Science*, 765-771, 2020 | 2020 | Cited: 31
- Acetic acid concentration estimation using plastic optical fiber sensor based surface plasmon resonance**  
*Iraqi Journal of Physics* 17 (43), 11-17, 2019 | 2019 | Cited: 22

16. **OPTICAL FIBER SURFACE PLASMON RESONANCE (SPR) BIOSENSORS: A COMPREHENSIVE REVIEW OF PRINCIPLES, STRUCTURES, AND RECENT ADVANCES**

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