Academic Curriculum Vitae

Personal Information:

Full Name: Dr. Nasih Hma Salah
Academic Title: Assistant Professor
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Education:

Type of Diploma	University	College	Department	Graduation Year	Country
B.Sc.	Kurdistan	Science	Physics	1999	Iran
M.Sc.	Salahaddin	Science	Physics	2005	Iraq
PhD	Plymouth	Science	Physics	2015	UK

Employment:

ACADEMIC EMPLOYMENT

1999-2002, research assistance at Physics Department, College of Science, Salahaddin University, Erbil, IRAQ.

2005-2010, University lecturer, Physics Department, College of Science, Salahaddin University, Erbil, IRAQ.

December 2015 up until now, University lecturer at Physics Department, College of Science, Salahaddin University, Erbil, IRAQ.

Teaching Experience:

- Research Methodology: 4th Class of General, Medical and Communication Physics
- Thermodynamics: 2nd Class of General, Medical and Communication Physics
- Electricity and Magnetism: 1st Class of all branches of physics
- Electricity and Magnetism Lab.:1st Class of all branches of physics.
- Thermodynamics Lab.:2nd Class of all branches of physics.

Professional Qualifications

- RENAC Trainer Certificate (**Photovoltaic Systems Technology**)
- RENAC Trainer Certificate (**Solar PV Engineers' Trainer , Train-the-Trainer**)

Professional Memberships

- Teacher Union In Iraqi Kurdistan region
- Physics Syndicate in Kurdistan region

Research and Publications

Bismuth-Immobilized Optical Fiber-Based SPR Nanosensor for Detection of Zinc Nitrate Contamination in Aquaculture Industry
SK Yesudasu Vasimalla, Nasih Hma Salah, Baljinder Kaur, Hogr M. Rasul ...
IEEE Open Journal of Nanotechnology, 1 - 8
2024

Design and Analysis of High-Performance Optical Fiber-Based Surface Plasmon Resonance Sensor for Early Detection of Colorectal Cancer
NH Salah, Y Vasimalla, B Kaur, HM Rasul, C Santhosh, R Balaji, S Kumar
IEEE Sensors Journal
2024

Optical Fiber-Based SPR Sensor for Chemical and Biological Samples Detection Using 2D Materials
NH Salah, B Kaur, HM Rasul, Y Vasimalla, S Kumar
IEEE Sensors Journal
2024

HBL/NaF-based and molybdenum ditelluride-immobilized optical fiber SPR sensor for early detection of melamine residue in food products
RB Nasih Hma Salah, Yesudasu Vasimalla, Baljinder Kaur, Hogr M. Rasul .
Optics and Laser Technology 179, 111386
2024

Enhancing Precision in Fuel Adulteration Detection: Utilizing a Wavelength Interrogation Surface Plasmon Resonance Approach
Nasih Hma Salah, Amrindra Pal, Arun Uniyal
Plasmonics
2024

Sensitivity enhancement of the surface plasmon resonance sensor based on gallium-doped zinc oxide and silicon for cancer detection: A wavelength interrogation approach
NH Salah, A Pal, HM Rasul, A Uniyal
Micro and Nanostructures 186, 207736
2024

Influence of green laser light on the structural and optical properties of Mg-, Mn-, and Mn + Mg-doped copper oxide nanoparticles prepared by spin coating
Nasih Hma Salah, Mahera Esmaeel, Shaida Kakil
2024

Journal of Materials Science: Materials in Electronics 35

Graphene-Perovskite Based Surface Plasmon Resonance Biosensor
Zanco Journal of Pure and Applied Sciences 35 (6), 28-37 2023

Sensitivity enhancement of the surface plasmon resonance–based gas sensing by few layers of black phosphorus
Plasmonics 18 (6), 2225-2233 2023

A simulation study for dengue virus detection using surface plasmon resonance sensor heterostructure of silver, barium titanate, and cerium oxide
NH Salah, G Srivastava, A Muduli, RB Yadav
Plasmonics 18 (6), 2031-2040 2023

Bias stability of solution-processed In2O3 thin film transistors
I Abdullah, JE Macdonald, YH Lin, TD Anthopoulos, NH Salah, SA Kakil, ...Journal of Physics: Materials 4 (1), 015003 2020

Performance characteristics and permittivity modeling of a surface plasmon resonance sensor for metal surface monitoring in a synthetic maritime environment
MMF Christopher R. Lavers , Dr AM Cree, Dr D Jenkins, Mr N Salah
The International Society for Optics and Photonics 3 (94) 2020

Surface Plasmon Resonance Sensor of Toxic Nanoparticles in Aqueous Systems
Eurasian Journal of Science and Engineering 4 (3), 40-48 2019

Optical Surface Plasmon Resonance Monitoring in a High Salinity Environment for Long Duration Sensing Applications
IH Christopher Laversa*, Alistair Creea, David Jenkinsa, Nasih Salaha ...
SCIREA Journal of Metallurgical Engineering 3 (Issue 1), 1-12 2017

Surface Plasmon Resonance Sensing and Characterisation of Nano-Colloids for Nanotoxicology Applications
Plymouth University 2015

Graphene and its influence in the improvement of surface plasmon resonance (spr) based sensors: a review
NH Salah, D Jenkins, R Handy
International Journal of Innovative Research in Advanced Engineering (IJIRAE … 2014

Self-sensing surface plasmon resonance for the detection of metallic nanoparticles
NH Salah, D Jenkins, L Panina, R Handy, G Pan, S Awan
Global Institute of Nanotechnology in Engineering and Medicine 2013

Professional Affiliations and Services:

Chairman of Postgraduate Student Society at Plymouth University U.K. (2011-2015)

Head of Quality Assurance at Physics Department, College of Science, Salahaddin University. (2016-2017, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023and 2023-2024).

Professional Development:

- RENAC Trainer Certificate (**Photovoltaic Systems Technology**)
- RENAC Trainer Certificate (**Solar PV Engineers' Trainer , Train-the-Trainer**)
- LabVIEW programming.
- Wolfram Mathematica.
- SolidWorks.
- Ocean Optics Spectrometer Software
- MS Word, Excel, PowerPoint, Outlook, Browsing the internet.

Professional Network Accounts:

https://academics.su.edu.krd/nasih.hmasalah
https://www.researchgate.net/profile/Nasih_Hma_Salah
https://www.linkedin.com/in/nasih-hma-salah-1410a954/
https://orcid.org/0000-0001-9168-6834