

Curriculum Vitae

Wameedh Adress

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Websites: Membership in scientific, professional societies and publishing houses

Google Scholar (https://scholar.google.com/citations?user=TDn_oaYAAAAJ&hl=en)

Publons (<https://publons.com/researcher/1704879/wameedh-adress/>)

Research Gate (https://www.researchgate.net/profile/Wameedh_Adress2)

Scopus (<https://www.scopus.com/authid/detail.uri?authorId=56033575800>)

Linkedin (<https://iq.linkedin.com/in/wameedh-adress-4a958294>)

ORCID [0000-0002-5163-0569](https://orcid.org/0000-0002-5163-0569)

Researcher ID [D-7922-2019](https://orcid.org/D-7922-2019)

EDAS identifier ([1735311](https://orcid.org/1735311))

Education and Academic Degree:

Ph.D. Plasma Physics, Centre for Plasma Physics, Queen's University Belfast, UK, 2014.

Dissertation: Physics and application of an atmospheric pressure plasma jet.

Adviser: Professor Bill Graham, Professor Dave Riley

M.Sc. in Laser Physics, University of Mosul, Science college, Department of Physics.

Professional History

Assistant professor, Northern Technical University, Iraq

Postgraduate Student, Queen's University Belfast, Centre for Plasma Physics, UK, 2010–2014.

Employment position and Mailing Address:

Northern Technical University, Technical engineering college, Iraq.

Duties: Teaching, Student's projects, research, participating in committees, student's advisor.

General Specialization: Physics Science

Specific Field: Lasers and Plasmas

Knowledge field:

Low-temperature plasma, atmospheric pressure plasma jets, plasma–catalysis, plasma simulation, laser-produced plasmas, laser-plasma interactions, plasma technology, and plasma medicine.

Research Interests

I am principally an experimentalist in low-temperature plasma and my research interest focuses on fundamentals of physics and chemistry of non-thermal plasmas and their applications. This involves the use of a wide range of diagnostic tools; electrical, optical, and laser-based plasma diagnostics. The technological applications of non-thermal plasmas such as; in medicine, nanoscience, physical vapour deposition based on plasma, and plasma assist catalystst for environmental applications. My current interest focuses on plasma catalysis, plasma technology, numerical simulation of non-thermal plasmas and laser-produced plasmas.

Skills and experiences

Language: Fluent in English and Arabic Languages (Speaking and writing).

Peer Reviewing Experience

A reviewer for the following journals

- Journal of Physics D: Applied Physics, IOP science
- Plasma Physics and Controlled Fusion, IOP science
- Physics of Plasmas, AIP Publishing
- Physica Scripta, IOP science
- Plasma Sources Science and Technology - IOPscience

Qualification

Experimental Diagnostics experiences

- Experimental skills and experiences in laser scattering diagnostics.
- Experimental skills and experiences in Thomson, Raman, and Rayleigh scattering. Knowledge and experience in voltage and current probes diagnostics (Langmuir probe and Microwave resonance Probe).
- Knowledge and experience in time and space resolved optical emission spectroscopy diagnostics and .laser spectroscopy
- Knowledge and experience in line-fitting and calibration of spectrographs.
- Knowledge and experience in Two Photon Laser-Induced Fluorescence.
- Knowledge and experience in ICCD camera imaging, analysis and diagnostics.
- Knowledge and experience in electric and electronic circuits and power supplies.
- Knowledge in high harmonics generation in gases (experimental and simulation).
- Knowledge and experience in optoelectronic devices and semiconductor lasers.
- Knowledge and experience in vacuum systems.

- Knowledge and experience in mass spectrometry and Fourier Transform infrared.

Computing Skills

C, FORTRAN, visual basic languages, MATLAB, Mathematica, LATEX, Microsoft Office, COMSOL Multiphysics, LabVIEW, and C++.

Mathematics experiences

Knowledge and teaching experiences in applied Mathematics for Physics and Engineering covered the following topics:

Linear Algebra, Complex variables, Ordinary Differential Equations, Partial Differential Equations, Series Solution of Differential Equations, Integral Calculus, Numerical Methods, Fourier Series, Fourier Transforms, and Laplace Transforms.

References

W. G. Graham Full Professor

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Centre for Plasma Physics (CPP), School of Mathematics and Physics, Queen's University Belfast, Northern Ireland, U.K.

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References details and recommendation letters are available upon request.