

Profile

First Name: Ruba

Family Name: Al-Obaidi

Place: Baghdad/Iraq

Education and Qualifications

- *Bachelor's degree in physics 1996 from a college of education at Al Mustansiriya University Baghdad.*
- *Master degree in Nuclear Physics 2001, from physics department College of Science Al Mustansiriya University Baghdad.*
- *Had the German Academic Exchange Service (DAAD) scholarship from Jun 2011-October 2015.*
- *Ph.D. degree in Freie University Berlin in the experimental physics (Spectroscopy), in November 2016, ag-Aziz, Department of Physics, Joint Ultrafast Dynamics Laboratory in Solution and at Interfaces.*

Activities:

- *Participation in the conference of Marie Sklodowska –Curie on the foundation of physical chemistry.*

Copernicus center Warsaw Poland 2011.

- *Work as one of the members in the Institute of Methods for Material Development at Helmholtz centrum Berlin HZB for synchrotron radiation source and materials science BESSY II from 2012 until now.*
 - ❖ https://www.helmholtz-berlin.de/forschung/oe/em/materialentwicklung/index_en.html
 - ❖ https://www.helmholtz-berlin.de/forschung/oe/em/materialentwicklung/group-members_en.html
- *In October 2013, participation in the user meeting of Helmholtz centrum Berlin HZB.*

- In October 2014, participation in the **Helmholtz Centrum Berlin HZB** user meeting with a poster, the poster was addressed (**Space Charge Effect in the pump-probe experiment**).
- From 2012-2014 participation with my group to build a femtosecond laser lab. in Freie Belin University.
- Participation in building a strong laser field setup in Freie Belin University.

Fields experience:

- Strong laser field.
- Liquid micro-jet technique.
- Time-resolved photoelectron spectroscopy (pump-probe technique).
- High harmonic generation (HHG) laser
- I did some experiments and beam times of synchrotron radiation in synchrotron BESSY Helmholtz-Zentrum Berlin.

List of publications during my Ph.D.:

1. **Ultrafast photoelectron spectroscopy of solutions: space-charge effect**

R. Al-Obaidi, M. Wilke, M. Borgwardt, J. Metje, A. Mogueilevski, N. Engel, D. Tolksdorf, A. Raheem, T. Kampen, S. Mähl, I. Yu Kiyani, and E. F. Aziz

New J. Phys. 17 (2015) 093016

<http://dx.doi.org/10.1088/1367-2630/17/9/093016>

2. **Laser-assisted electron scattering in strong-field ionization of dense water vapor by ultrashort laser pulses**

M. Wilke, **R Al-Obaidi**, A. Mogueilevski, A Kothe, N. Engel, J. Metje, I. Yu Kiyani, and E. F. Aziz

New Journal of Physics 16 (2014) 083032

<http://dx.doi:10.1088/1367-2630/16/8/083032>

3. **Multi-plateau structure in photoemission spectra of strong-field ionization of dense media.**

M. Wilke, **R. Al-Obaidi**, I. Yu. Kiyani, and E. F. Aziz.

Phys. Rev. A, (2016).

DOI: [10.1103/PhysRevA.94.033423](https://doi.org/10.1103/PhysRevA.94.033423)

4. **Monochromatization of femtosecond XUV light pulses with the use of reflection zone plates**

Jan Metje, Mario Borgwardt, Alexandre Mogueilevski, Alexander Kothe, Nicholas Engel, Martin Wilke, **Ruba Al-Obaidi**, Daniel Tolksdorf, Alexander Firsov, Maria Brzhezinskaya, Alexei Erko, Igor Yu. Kiyani, and Emad F. Aziz

Optics Express, Vol. 22, Issue 9, pp. 10747-10760 (2014)

<http://dx.doi.org/10.1364/OE.22.010747>

5. **Time-of-flight electron spectrometer for a broad range of kinetic energies**

Alexander Kothe, Jan Metje, Martin Wilke, Alexandre Mogueilevski, Nicholas Engel, **Ruba Al-Obaidi**, Clemens Richter, Ronny Golnak, Igor Yu. Kiyani, and Emad F. Aziz

American Institute of Physics, Rev. Sci. Instrum. 84, 023106 (2013).

<http://dx.doi.org/10.1063/1.4791792>

6. **Light-induced relaxation dynamics in ferricyanide ion revisited with ultrafast XUV photoelectron spectroscopy.**

Nicholas Engel, Sergey I. Bokarev, Alexandre Mogueilevski, Azhar Raheem, **Ruba Al-Obaidi**, Tobias Möhle, Gilbert Grell, Katrin R. Siefertmann, Bernd Abel, Saadullah Aziz, Oliver Kuehn, Mario Borgwardt, Igor Yurevich Kiyani and Emad Flear Aziz.

Phys. Chem. Chem. Phys., 2017, Accepted Manuscript.

The article was received on 27 Feb 2017, accepted on 08 May 2017 and first published on 09 May 2017.

DOI: [10.1039/C7CP01288H](https://doi.org/10.1039/C7CP01288H)

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