

SAFAA A. AL-QAYSI

College of Pharmacy, Al-Mustansiriyah University, Baghdad, Iraq

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EDUCATION

- Ph.D. in Biomedical Physics**, East Carolina University **Aug. 2013- May 2019**
Major area: Biomedical Physics - Cell imaging and flow-cytometry.
- M.S. in Physics**, East Carolina University **Aug. 2013- May 2019**
Major area: Physics - Medical Physics.
- M.S. in Physics**, Al-Nahrain University, Baghdad, Iraq. **Aug. 2003- Jun. 2006**
Major area: Physics - Optical System Design. **Aug. 2000- May 2003**
- B.S. in Physics**, Al-Nahrain University, Baghdad, Iraq.
Major area: Physics.

TEACHING EXPERIENCE

Physics Instructor: College of Pharmacy, Al-Mustansiriyah Uni. **Nov. 2009 - Jul. 2013**

- Medical Physics classes.
- Medical Physics labs.

PUBLICATIONS AND PRESENTATIONS

Peer reviewed papers:

- "Two-Dimensional Quantitative Profiling of Cell Morphology with Serous Effusion by Unsupervised Machine Learning Analysis.", **Safaa A Al-Qaysi**, Ding Dai, Heng Hong, Yuhua Wen, and Xin-Hua Hu, Karbala International Journal of Modern Science, 2021.
- "Rapid classification of micron-sized particles by diffraction image parameters combined with scattered light intensity.", Wenjin Wang, Yuhua Wen, Jun Q Lu, Lin Zhao, **Safaa A Al-Qaysi**, and Xin-Hua Hu, Journal of Quantitative Spectroscopy and Radiative Transfer, 2019.
- "Development and evaluation of realistic optical cell models for rapid and label-free cell assay by diffraction imaging.", Shuting Wang, Jing Liu, Jun Q Lu, Wenjin Wang, **Safaa A Al-Qaysi**, Yaohui Xu, Wenhuan Jiang, and Xin-Hua Hu, Journal of Bio photonics, 2019.
- "Spectral Gain-Carrier Density Distribution of SQW GaAs/AlGaAs Laser.", Awatif Sabir Jassam, **Safaa A Al-Qaysi**, and Adawiya J Haider, Journal of Wassit for Science and Medicine, 2011.

Conferences papers:

- "Profiling pleural effusion cells by a diffraction imaging method.", **Safaa Al-Qaysi**, Heng Hong, Yuhua Wen, Jun Q Lu, Yuanming Feng, and Xin-Hua Hu, Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XVI. International Society for Optics and Photonics, 2018.

Poster presentations:

- **CAP19 Meeting, Sep. 2019:** "Quantitative Profiling of Cancer Cell Morphology with Serous Effusion Samples by Machine Learning." This poster will be presented in College of American Pathologists 2019 Annual meeting. Orlando, Florida.

- **SPIE Photonics West, Feb. 2018:** "Profiling pleural effusion cells by a diffraction imaging method." Conference of Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XVI Volume: 104971J. San Francisco, California.
- **RCAW, East Carolina University Apr. 2017:** "Textural Features Extraction and Parameters Correlation Analysis for PCS and PC3 Prostate cell's diffraction images." This poster presented in East Carolina Research and Creative Achievement Week (RCAW) 2017. Poster number GP98. Greenville, North Carolina.

CERTIFICATIONS

Internet and Computing Core Certification (IC3):, CERTIPORT, 2010 - I had achieved the accepted global standard in computer and internet literacy.

CCNA Exploration: Routing Protocols and Concepts, 2008, Cisco Networking Academy, MUC Network Academy, 2008 Computer Networking.

CCNA Exploration: Network Fundamentals, 2008, Cisco Networking Academy, MUC Network Academy, 2008-Computer Networking.

CONFERENCES AND MEETINGS

- *7th* Scientific Conference, Al-Mustansiriyah Medical College, Baghdad- Iraq, 2012. Attendee.
- *6th* Scientific Conference, Al-Mustansiriyah Medical College, Baghdad, Iraq, 2011. Attendee.
- *1st* Scientific Conference, College of Pharmacy, Al-Mustansiriyah University, Baghdad, Iraq, 2010. Member of Conference Committee.

صفاء عبد الستار عودة

كلية الصيدلة الجامعة المستنصرية في بغداد / العراق
+964 773 657 6195 الهاتف المحمول

التعليم

دكتوراة من جامعة شرق كارولينا الاختصاص : فيزياء طبية	Aug. 2013- May 2019
ماجستير علوم من جامعة شرق كارولينا الاختصاص فيزياء طبية	Aug. 2013- May 2019
ماجستير علوم من جامعة النهريين اختصاص فيزياء تصاميم انظمة بصرية	Aug.2003- Jun. 2006
بكلوريوس علوم فيزياء من جامعة النهريين	Aug. 2000- May 2003

الخبرة الاكاديمية

مدرس مادة الفيزياء الطبية في كلية الصيدلة الجامعة المستنصرية

Nov. 2009

البحوث المنشورة

Peer reviewed papers: ·" Two-Dimensional Quantitative Profiling of Cell Morphology with Serous Effusion by Unsupervised Machine Learning Analysis.", **Safaa A Al-Qaysi**, Ding Dai, Heng Hong, Yuhua Wen, and Xin-Hua Hu, *Karbala International Journal of Modern Science*, 2021.

·" Rapid classification of micron-sized particles by diffraction image parameters combined with scattered light intensity.", Wenjin Wang, Yuhua Wen, Jun Q Lu, Lin Zhao, **Safaa A Al-Qaysi**, and Xin-Hua Hu, *Journal of Quantitative Spectroscopy and Radiative Transfer*, 2019.

·" Development and evaluation of realistic optical cell models for rapid and label-free cell assay by diffraction imaging.", Shuting Wang, Jing Liu, Jun Q Lu, Wenjin Wang, **Safaa A Al-Qaysi**, Yaohui Xu, Wenhuan Jiang, and Xin-Hua Hu, *Journal of Bio photonics*, 2019.

·" Spectral Gain-Carrier Density Distribution of SQW GaAs/AlGaAs Laser.", Awatif Sabir Jassam, **Safaa A Al-Qaysi**, and Adawiya J Haider, *Journal of Wassit For Science and Medicine*, 2011.

المؤتمرات العلمية

·" Profiling pleural effusion cells by a diffraction imaging method.", **SafaaAl-Qaysi**, Heng Hong, Yuhua Wen, Jun Q Lu, Yuanming Feng, and Xin-Hua Hu, *Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XVI*. International Society for Optics and Photonics, 2018.

العروض

· **CAP19 Meeting, Sep. 2019:** "Quantitative Profiling of Cancer Cell Morphology with Serous Effusion Samples by Machine Learning." This poster will be presented in College of American Pathologists 2019 Annual meeting. Orlando, Florida.

- **SPIE Photonics West, Feb. 2018:**” Profiling pleural effusion cells by a diffraction imaging method.” Conference of Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues XVI Volume: 104971J. San Francisco, California.
- **RCAW, East Carolina University Apr. 2017:**” Textural Features Extraction and Parameters Correlation Analysis for PC5 and PC3 Prostate cell’s diffraction images.” This poster presented in East Carolina Research and Creative Achievement Week (RCAW) 2017. Poster number GP98. Greenville, North Carolina.

الشهادات

الحاسوب والانترنت (IC3):, CERTIPORT, 2010 - I had achieved the accepted global standard in computer and internet literacy.

شبكات الحاسوب, 2008, Cisco Networking Academy, MUC Network Academy, 2008 Computer Networking.

شبكات الحاسوب: **Network Fundamentals, 2008**, Cisco Networking Academy, MUC Network Academy, 2008-Computer Networking.

المؤتمرات والاجتماعات

المؤتمر العلمي السابع لكلية طب المستنصرية 2012

المؤتمر العلمي السادس لكلية طب المستنصرية 2011

المؤتمر العلمي الاول لكلية الصيدلة الجامعة المستنصرية - عضو في لجنة المؤتمر 2011