**C.V**



**Name:** Rawaa Ahmed Faris Al-Saaday

**Date of Birth:** 6\2\1982

**Religion:** Muslim

**Specialization:** Laser Applications

**Position:** Head of Industrial and Engineering applications branch

**Scientific Degree:** PhD.

**Work Address:** Institute of Laser for Postgraduate Studies

**Work Phone:**

**Mobile:** 009647704664573

**E-mail:** rawaa@ilps.uobaghdad.edu.iq

* **First, Scientific Certification:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **College** | **University** | **Degree science** |
| 2005 | College of Science | Baghdad | **B.Sc.** |
| 2009 | Institute of Laser for Postgraduate Studies | Baghdad | **M.Sc.** |
| 2019 | Institute of Laser for Postgraduate Studies | Baghdad | **Ph.D.** |
|  |  |  | **Any other** |

|  |  |  |  |
| --- | --- | --- | --- |
| **From -To** | **Workplace** | **Career** | **No.** |
| 2010-2015 | Training and Development Division | Director | 1 |
| 2010-2012 | Division of Studies, Planning and Follow-up | Director | 2 |
| 2010-2015 | Library Division | Director | 3 |
| 2010-2015 | Continuing Education Unit | Director | 4 |
| 2010-2015 | Cultural Relations Unit | Director | 5 |
| 2013-2015 | Secretary of the Institute Council | Director | 6 |
| 2018-2023 | Ibn Sina Electronic Learning Unit | Director | 7 |
| 2023- | Industrial and Engineering applications Department | Head, Industrial and Engineering applications Department | 8 |

* **Second, Career:**
* **Third, University Teaching.**

|  |  |  |  |
| --- | --- | --- | --- |
| **From -To** | **The (Institute / College)** | **University** | **No.** |
| 2010- | Institute of Laser for Postgraduate Studies | University of Baghdad | 1 |

* **Fourth, Courses Which You Teach:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Subject** | **Department** | **No.** |
| 2012 | Optics lab. , laser lab. | Industrial and Engineering applications Department | 1 |
| 2018- | Physical chemistry | Industrial and Engineering applications Department | 2 |
| 2018- | Polymer | Industrial and Engineering applications Department | 3 |
| 2018 | Analytical chemistry | Industrial and Engineering applications Department | 4 |
| 2018 | Laser materials interaction | Industrial and Engineering applications Department | 5 |
| 2023 | Advanced Physical Chemistry | Industrial and Engineering applications Department | 6 |

* **Fifth, Thesis** **which was supervised by :**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Department** | **Thesis Title** | **No.** |
| 2023 | Industrial and Engineering applications Department | Construction of Lab-on-Chip: Laser Microfluidics in Drugs  Sensor  Laser Microfluidics in Drugs  Sensor  Sensor | 1 |
| 2023 | Medical and Biological applications Department | Evaluation of LLLT (dual diode 810,980nm) effect on Orthodontic treatment  effect on Orthodontic treatment | 2 |

* **Sixth, Conferences which you participated:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of Participation** | **Place** | **Year** | **Conferences Title** | **No.  ( بحث / بوستر حضور)** |
| researcher | Iraq | 2011 | L.A.M.E. | 1 |
| researcher | Iraq | 2010 | The 1st conference of Nanotechnology | 2 |
| researcher | Iraq | 2010 | The 2nd conference of Nanotechnology | 3 |
| researcher | Iraq | 2012 | Laser material processing | 4 |
| researcher | Iraq | 2014 | Trends in laser applications | 5 |
| researcher | Iraq | 2016 | Trends in photonics | 6 |
| speaker | Spain | 2022 | 2nd International Meet & Expo on Semiconductors, Optoelectronics and Nanostructures (SEMICONMEET2022) | 7 |
| Scientific Committee member | Iran | 2021 | 2nd international conference of Nanoscience and Nanotechnology | 8 |
| Scientific Committee member | Iran | 2023 | 3rd international conference of Nanoscience and Nanotechnology | 9 |

* **Seventh, Scientific Activities:**

|  |  |
| --- | --- |
| **Outside the College** | **Within the College** |
| Raman spectrometer training course , India ,2012 | Training course in labortary,Iraq,2014 |
| Training course in Biosensor,Iran,2018 | Training course in Safety lab,Iraq,2019 |
| Training course in Internal Audit ISO 9001/2015 | Training course in TRAINING OF TRAINERS(TOT),Iraq,2019 |
| Reviewer with optical society of America journals (IEEE access, IEEE sensors journal )  + Inorganic and nano-metal chemistry +Journal of Computational Electronics+ Eurasian chemical communications+ Chemical methodologies | |

* **Eighth, Research Projects in The Felid of Specialization to The Environment and Society or the Development of Education:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Research Title** | | **Place of Publication** | **Year** |
| 1 | Nonlinear Optical Properties of PMMA Composites using z-Scan Technique | Open Journal of Polymer Chemistry(OJPChem) | | 2011 |
| 2 | Investigation of Some Optical Properties Prepared Silver Nanoparticles embedded in polymer film | IRAQ JOURNAL OF LASER | | 2011 |
| 3 | [Synthesis Characterization and Optical Properties of Nanostructured Zinc Sulfide Thin Films Obtained by Spray Pyrolysis Deposition](https://www.ijol.edu.iq/index.php/ijol/article/view/24) | Iraqi Journal of physics | | 2016 |
| 4 | Laser Enhanced Photocatalyic Degradation of Methylene blue using Nanostructured ZnO Catalyst based on Interfacial Charge Transfer | Iraqi Journal of physics | | 2016 |
| 5 | Synthesis, Characterization, and Optical Properties of Copper Oxide Thin Films Obtained by Spray Pyrolysis Deposition | International journal of science | | 2013 |
| 6 | The nonlinear optical properties of Epoxy/Alumina Nanocomposites | IRAQ JOURNAL OF LASER | | 2013 |
| 7 | The optical limiting of prepared Palladium nanoparticles | IRAQ JOURNAL OF LASER | | 2015 |
| 8 | Photoinduced interfacial charge transfer processes in solar photocatalysis degradation of methylene blue using nanostructured ZnO | Iraqi Journal of physics | | 2017 |
| 9 | Effect of the thickness on the optical properties of nanostructure CuS thin films | IRAQ JOURNAL OF LASER | | 2014 |
| 10 | [Fast , Low cost and Sensitive Detection of breast cancer serum biomarkers CA15-3 using Gold Nanostar Plasmonic ELISA Biosensor](https://www.researchgate.net/publication/330398655_Fast_Low_cost_and_Sensitive_Detection_of_breast_cancer_serum_biomarkers_CA15-3_using_Gold_Nanostar_Plasmonic_ELISA_Biosensor?_sg=KDu24YP1_ErW1M0IvpIKiDS679YsCKegMUOhh_smZ_iEfkjtN6fSk-OIrQk7ns2l3TOGvaVbGSvLnZJ7bBgBWAuA8a8HrjIYDk7ihYFl.xH_x0cQxFRa6ztW4gklKT21QW9MlB__bpzKifuAnt0WrDY6U-5nwgqXsMPvgxl7BUf2KXNxym-qLUPR9i22LVg) | SYLWAN | | 2018 |
| 11 | [Plasmonic Nanoparticles Decorated Salty Paper Based on SERS Platform for Diagnostic low-Level Contamination: Lab on Paper](https://www.researchgate.net/publication/332171725_Plasmonic_Nanoparticles_Decorated_Salty_Paper_Based_on_SERS_Platform_for_Diagnostic_low-Level_Contamination_Lab_on_Paper?_sg=KDu24YP1_ErW1M0IvpIKiDS679YsCKegMUOhh_smZ_iEfkjtN6fSk-OIrQk7ns2l3TOGvaVbGSvLnZJ7bBgBWAuA8a8HrjIYDk7ihYFl.xH_x0cQxFRa6ztW4gklKT21QW9MlB__bpzKifuAnt0WrDY6U-5nwgqXsMPvgxl7BUf2KXNxym-qLUPR9i22LVg) | IRAQ JOURNAL OF LASER | | 2018 |
| 12 | [NanoELISA for Highly Sensitive CA-15-3 Tumer Marker detection](https://www.researchgate.net/publication/332158102_NanoELISA_for_Highly_Sensitive_CA-15-3_Tumer_Marker_detection?_sg=KDu24YP1_ErW1M0IvpIKiDS679YsCKegMUOhh_smZ_iEfkjtN6fSk-OIrQk7ns2l3TOGvaVbGSvLnZJ7bBgBWAuA8a8HrjIYDk7ihYFl.xH_x0cQxFRa6ztW4gklKT21QW9MlB__bpzKifuAnt0WrDY6U-5nwgqXsMPvgxl7BUf2KXNxym-qLUPR9i22LVg) | SYLWAN | | 2019 |
| 13 | Immobilised Gold Nanostructures on Printing Paper for Lable-Free Surface-enhanced Raman Spectroscopy | IOP Conference Series: Materials Science and Engineering | | 2019 |
| 14 | NOVEL AND LOW-COST SYNTHESIS OF ZNO NANOROD COATED BY GRAPHENE OXIDE FOR ENHANCED PHYSICAL ABSORPTION OF ZNR FROM UV TO VIS-IR REGION | Plant Archives | | 2020 |
| 15 | Biochemical immune effects of low power laser irradiation on leukemia and breast cancer: A review | EurAsian Journal of BioSciences | | 2020 |
| 16 | Titania-carbon nanocomposite as a saturable absorber for generation passively ytterbium-mode locked pulses | [Optical Materials](https://www.scopus.com/authid/detail.uri?authorId=57217530671#disabled) | | 2021 |
| 17 | Au coated ZnO/MWCNTs nanocomposites film-induced four-wave-mixing effect for multi-wavelength generation in erbium-doped fiber laser | Optics communications | | 2021 |
| 18 | Construction of insulin-like growth factor nanocomposite biosensor by Raman spectroscopy | Vibrational spectroscopy | | 2021 |
| 19 | Highly efficient optical fiber sensor for instantaneous measurement of elevated temperature in dental hard tissues irradiated with an Nd:YaG laser  2021 | Applied optics | | 2021 |
| 20 | Hybrid nanocomposite film provides FWM and Fabry Perot Filter: Towards multi-wavelength fiber laser generation in 1 µm region | optik | | 2021 |
| 21 | Fast, sensitive and low-cost chemical sensor based on manufacturing nanostructured Co3O4 using Raman Spectroscopy | *Nano-Structures and Nano-Objects* | | 2021 |
| 22 | Preliminary study of the insulin growth factor binding protein-3 (IGFBP3) level in Iraqi women with breast cancer | [AIP Conference Proceedings](https://www.scopus.com/authid/detail.uri?authorId=57217530671#disabled) | | 2021 |
| 23 | Fabrication and characterization of zinc oxide nanorods coated by graphene oxide ZnO-NR@GO as a potential hybrid material photocatalyst | [AIP Conference Proceedings](https://www.scopus.com/authid/detail.uri?authorId=57217530671#disabled) | | 2021 |
| 24 | [Detection of HbA1c in Blood Using Diode Laser (491) nm](https://www.researchgate.net/publication/348715890_Detection_of_HbA1c_in_Blood_Using_Diode_Laser_491_nm) | * Systematic Reviews in Pharma | | 2021 |
| 25 | Fe2O3-SiO2 nanocomposite film-induced high nonlinear effect for multiwavelength mode-locked generation in ytterbium-doped fiber laser | [Materials Today Communications](https://www.scopus.com/authid/detail.uri?authorId=57217530671#disabled) | | 2022 |
| 26 | [Ultrafast Lithium Disilicate Veneer debonding time assisted by CO₂ laser with temperature Control](https://www.researchgate.net/publication/369483558_Ultrafast_Lithium_Disilicate_Veneer_debonding_time_assisted_by_CO_laser_with_temperature_Control?_sg%5B0%5D=NribTptFFc3QoIQE6yoHXwKP0ixeaq7KrAh4V1psoXnxqcDdpsAAUClf-VkMi6ibcyZfvSYPD62PVk2rpsnfCaNAQaQzno1jWP-pRq6r.yTXGeRtLh2oGBxMr8qFmTdsxlBT97MjA-Q5wWk4SVLHn7BwHnRqmEV2aMTEivOIYtpMkMXGT2_qFfkP2I476mA) | Optics Continuum | | 2023 |
| 27 | [Lab on-a-chip-based, an integrated microfluidic device lo-cost, rapid, and sensitive analysis of Augmentin](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=UR-n4MsAAAAJ&cstart=20&pagesize=80&citation_for_view=UR-n4MsAAAAJ:QIV2ME_5wuYC) | AIP Conference Proceedings | | 2024 |
| 28 | [A Custom 3D Printed Design of Smartphone-Based Adapter for Colorimetric Biomarker Concentration Measurements](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=UR-n4MsAAAAJ&cstart=20&pagesize=80&citation_for_view=UR-n4MsAAAAJ:Wp0gIr-vW9MC) | Optica Open | | 2023 |
| 29 | Lab-On-a-Chip an integrated microfluidic device sensitive low-Cost, and Rapid with a syringe pump for Analysis of Ibuprofen. | IRAQ JOURNAL OF LASER | | 2023 |
| 30 | [The Effect of Dual Diode Laser:(810,980) nm in Acceleration of Orthodontic Tooth Movement: A Case Report](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=UR-n4MsAAAAJ&cstart=20&pagesize=80&citation_for_view=UR-n4MsAAAAJ:9ZlFYXVOiuMC) | IRAQ JOURNAL OF LASER | | 2023 |
| 31 | [Surface enhanced Raman spectroscopy based sensitive and specific detection of vitamin D3, glycated hemoglobin, and serum lipid profile of breast cancer patients](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=UR-n4MsAAAAJ&cstart=20&pagesize=80&citation_for_view=UR-n4MsAAAAJ:mVmsd5A6BfQC) | AIP Conference Proceedings | | 2023 |

* **Ninth, Membership:**
* **American Chemical Society ACS**
* **The Optical Society OSA ( Optica )**
* **Tenth, Awards and Certificates of Appreciation:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Donor** | **Name of Awards and Certificates** | **No.** |
|  |  | **20** | **1** |

* **Eleventh, Scientific literature:**

A book co-authored:

[**Optical Properties for Prepared Silver Nano composite**](https://www.researchgate.net/publication/322070032_Optical_Properties_for_Prepared_Silver_Nano_composite?_sg=KDu24YP1_ErW1M0IvpIKiDS679YsCKegMUOhh_smZ_iEfkjtN6fSk-OIrQk7ns2l3TOGvaVbGSvLnZJ7bBgBWAuA8a8HrjIYDk7ihYFl.xH_x0cQxFRa6ztW4gklKT21QW9MlB__bpzKifuAnt0WrDY6U-5nwgqXsMPvgxl7BUf2KXNxym-qLUPR9i22LVg) by :Rawaa A. Faris,Zainab F. Mahdi (Dec ,27, 2017)

• Publisher: LAP LAMBERT Academic Publishing (Dec, 27, 2017)

• Language: English

• ISBN-978-3-659-88490-0

* **Twelfth, languages:**
* Arabic
* English