

Resume
Curriculum Vitae (CV)

Personal Information:-

Name: Mustafa Nadhim OWAID

(In Arabic: مصطفى ناظم عويد)

Degree: Ph.D.

Position: Assistant Professor

General Specialization: Microbiology

Specific Specialization: Mycology

Gender: Male

Marital Status: Married

Affiliation: Department of Heet Education, General Directorate of Education in Anbar, Ministry of Education, Iraq.

Date of Appointment: 17th April, 2005

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Scholar Google: scholar.google.com/citations?user=sZujvWwAAAAJ&hl

Research Gate Link: www.researchgate.net/profile/Mustafa_Owaid

Website: <https://www.alheeti.com>



Academic Qualification (Education Background):-

Degree	Country	University	College	Specialization	Year
Ph.D.	Iraq	University Of Anbar	College of Science	Microbiology/Mycology	2010-2013
M.Sc.	Iraq	University Of Anbar	College of Science	Microbiology	2007-2010
B.Sc.	Iraq	University Of Anbar	College of Science	Biology	1999-2003

Scholarship and Fellow

Office. Country. Year

1. Sabbatical Leave in Department of Chemistry, (12 Months), College of Science, Gazi University, Ankara, **Turkey. (2019-2020).**
2. Research Scholarship (in Nanotechnology), in Mushroom Research Centre (6 Months), Institute of Biological Sciences, Faculty of Science, University of Malaya, Kuala Lumpur, **Malaysia. (2013).**

Skills and Experiences

Work Experience

University Of Anbar, College of Applied Sciences-Hit, Department of Environmental Sciences, Iraq (2017-2019)

Ministry of Education, General Directorate of Education in Anbar, Department of Heet Eduaction, Iraq (2005-Now)

Technician in a medical lab, Iraq (2015- 2019)

Website Designing and Hosting (2007-2014)

Alheeti Journal – <https://www.alheeti.com/journal>

Research Projects:

1-Project in Nanotechnology; Period of assignment: 6 months on **2013**, Research Scholarships Programme No.12/ 29861 in 12/2012, Mushroom Research Centre, Institute of Biological Sciences, University of Malaya, Malaysia.

2-Project in: *Agaricus bisporus* product development by using local substrate with bioamendment. Period of assignment: one year on **2012**, Project No. 2047 on 28 Jun, 2012, College of Agriculture, University Of Anbar, Iraq.

Areas of Research Interest:-

Experience (details)

1. **Mycology** (Medicinal Mushroom, Fungal Biotechnology, Mushroom Cultivation, Mycoremediation,

Biocontrol Agents, Fungal Interaction, Desert Truffles)

2. **Biotechnology** (Industrial Microbiology, Food Microbiology, Soil Microbiology, Biofertilizer, Solid State Fermentation, Composting, Recycling Waste)
3. **Microbiology** (Food Spoilage, Medical bacteria and fungi)
4. **Bio-nanotechnology** (Biosynthesis of nanoparticles, Medical and industrial applications)

Teaching Courses

Experience (details)

1. **Microbiology** (College of Applied Sciences, University Of Anbar) **2018-2019**
2. **Fundamentals of Ecology** (Department of Ecology, College of Applied Sciences, University Of Anbar) , **2018-2019**
3. **Biostatistics** (Department of Ecology, College of Applied Sciences, University Of Anbar) , **2017-2018**
4. **Environmental Nanotechnology** (Department of Ecology, College of Applied Sciences, University Of Anbar) , **2017-2019**
5. **Food Spoilage** (Department of Ecology, College of Applied Sciences, University Of Anbar) , **2016-2017, 2017-2019**
6. **Design & Analysis Experiment** (Department of Biophysics, College of Applied Sciences, University Of Anbar) **2016-2017**
7. **Basic Biology** (Department of Heet Education, Ministry of Education) **2005-NOW**
8. **Basic Chemistry** (Department of Heet Education, Ministry of Education) **2010-2012**

Scientific Production

Publications:-

Articles Research

1. Muslim, R.F., Majeed, I.Y., Saleh, S.E., Saleh, M.M., **Owaid, M.N.**, Abbas, J.A. (2022). Preparation, Characterization and Antibacterial Activity of some New Oxazolidin-5-one Derivatives Derived from Imine Compounds. *Journal of Chemical Health Risks*, 12(4): 725-732. doi: 10.22034/JCHR.2022.688557.
2. Abdul-Hadi, S.Y., **Owaid, M.N.**, Gergees, R.N.; AL-Bayyar, A.H. (2022). Molecular identification of three novel species of *Ganoderma* from different habitats in Mosul, Iraq. *Songklanakarin Journal of Science and Technology*, 44(3): 794–802. doi: 10.14456/sjst-psu.2022.106
3. Rabeea, M.A., Zaidan, T.A., **Owaid, M.N.** (2022). Assessment of Water Quality in the Water Treatment Plant in Hit Town/Iraq. *AIP Conference Proceedings* 2394 (1): 020042. doi: 10.1063/5.0121059
4. **Owaid, M.N.**, Rabeea, M.A., Abdul Aziz, A., Jameel, M.S, Dheyab, MA. (2022). Mycogenic fabrication of silver nanoparticles using Picoa, Pezizales, characterization and their antifungal activity. *Environmental Nanotechnology, Monitoring & Management*, 17: 100612. doi: 10.1016/j.enmm.2021.100612
5. **Owaid, M.N.** (2022). Biosynthesis of Silver Nanoparticles from Truffles and Mushrooms and Their Applications as Nanodrugs. *Current Applied Science and Technology*, 22(5): 1-11.
6. Rashid, H.M., Abed, I.A., **Owaid, M.N.** (2021). Addition of *Sesbania sesban* in compost for reducing fraction of horse manure and enhancing the productivity of *Agaricus bisporus*. *Songklanakarin Journal of Science and Technology*, 43(6): 1591-1596. doi: 10.14456/sjst-psu.2021.208.
7. Rabeea, M.A., Naeem, G.A., **Owaid, M.N.**, Abdul Aziz, A., Jameel, M.S., Dheyab, M.A., Muslim, R.F., Jameel, L.F. (2021). Phytosynthesis of *Prosopis farcta* fruit-gold nanoparticles using infrared and thermal devices and their catalytic efficacy. *Inorganic Chemistry Communications*, x(x): 108931. doi: 10.1016/j.inoche.2021.108931
8. Jaloot, A.S., **Owaid, M.N.** (2021). Antibiotic resistance pattern and prevalence of multi-drug and extensive resistant *Acinetobacter baumannii* isolates from clinical specimens after Military Operations western Iraq. *Gazi Medical Journal*, 32(3): 381-388. doi: 10.12996/gmj.2021.87
9. Abbas, Z.K., **Owaid, M.N.** (2021). Prevalence of antibiotics resistance in the isolated bacteria from bronchial washing fluids in Ramadi Teaching Hospital, Iraq. *Gazi Medical Journal*, 32(3): 359-363. doi: 10.12996/gmj.2021.83
10. Abed I.A., Hamad H.B.A., **Owaid M.N.**, Hamdan N.T., Lafi A.S., Mutlaq H.H. (2021). Effect of using desert weeds (Chenopodiaceae) as supplements in substrates of *Pleurotus ostreatus* (oyster mushroom) production. *Current Research in Environmental & Applied Mycology (Journal of Fungal Biology)* 11(1), 185–196. doi: 10.5943/cream/11/1/14
11. **Owaid, M.N.** (2021). Isolation of *Pisolithus* sp., (Sclerodermataceae) - first recording in western Iraq.

- Songklanakar Journal of Science and Technology*, 43(2): 520-523. doi: 10.14456/sjst-psu.2021.69
12. Naeem, G.A., Jaloot, A.S., **Owaid, M.N.**, Muslim, R.F. (2021). Green synthesis of gold nanoparticles from *Coprinus comatus*, Agaricaceae, and the effect of ultraviolet irradiation on their characteristics. *Walailak Journal of Science and Technology*, 18 (8), 9396.
 13. Ali, H.A., Al-Hussieny, A.A., **Owaid, M.N.** (2021). New Seven Records of Euphrates River Algae in Iraq. *Songklanakar Journal of Science and Technology*, 43(1): 181-187. doi: 10.14456/sjst-psu.2021.23
 14. Rabeea, M.A., **Owaid, M.N.**, Muslim, R.F. (2021). Synthesis and characterization of silver nanoparticles by natural organic compounds extracted from *Eucalyptus* leaves and their role in the catalytic degradation of methylene blue dye. *Songklanakar Journal of Science and Technology*, 43(1): 14-23. doi: 10.14456/sjst-psu.2021.3
 15. Al-Shaheen, M.A.S., **Owaid, M.N.**, Muslim, R.F. (2020). Synthesis and Characterization of Zinc Nanoparticles by Natural Organic Compounds Extracted from Licorice Root and their Influence on Germination of Sorghum bicolor Seeds. *Jordan Journal of Biological Sciences*, 13(4): 559-565.
 16. A.N., Ghassan, Muslim, R.F., Rabeea, M.A., **Owaid, M.N.**, Abd-Alghafour, N.M. (2020). *Punica granatum* L. mesocarp-assisted rapid fabrication of gold nanoparticles and characterization of nano-crystals. *Environmental Nanotechnology, Monitoring & Management*, 14: 100390. doi:10.1016/j.enmm.2020.100390
 17. Abdul-Hadi, S.Y., **Owaid, M.N.**, Rabeea, M.A., Abdul Aziz, A., Jameel, M.S. (2020). Rapid mycosynthesis and characterization of phenols-capped crystal gold nanoparticles from *Ganoderma applanatum*, Ganodermataceae. *Biocatalysis and Agricultural Biotechnology*, 27: 101683. doi: 10.1016/j.bcab.2020.101683
 18. Abbas, J.A., Muslim, R.F., **Owaid, M.N.** (2020). The medical importance of Hipcidin: Review. *Gazi Medical Journal*, 31(4): 690-695. doi: 10.12996/gmj.2020.161
 19. Dheyab, M.A., **Owaid, M.N.**, Rabeea, M.A., Abdul Aziz, A., Jameel, M.S. (2020). Mycosynthesis of gold nanoparticles by the Portabello mushroom extract, Agaricaceae, and their efficacy for decolorization of Azo dye. *Environmental Nanotechnology, Monitoring & Management*, 14: 100312. doi: 10.1016/j.enmm.2020.100312
 20. Jaloot, A.S., **Owaid, M.N.**, Naeem, G.A., Muslim, R.F. (2020). Mycosynthesizing and characterizing silver nanoparticles from the mushroom *Inonotus hispidus* (Hymenochaetaceae), and their antibacterial and antifungal activities. *Environmental Nanotechnology, Monitoring & Management*, 14: 100313. doi: 10.1016/j.enmm.2020.100313
 21. Ali, H.A., **Owaid, M.N.**, Ali, S.F. (2020). Recording thirteen new species of phytoplankton in Euphrates River environment in Iraq. *Walailak Journal of Science and Technology*, 17(3): 200-211.
 22. Rabeea, M.A., **Owaid, M.N.**, Abdul Aziz, A., Jameel, M.S., Dheyab, M.A. (2020). Mycosynthesis of gold nanoparticles using the extract of *Flammulina velutipes*, Physalacriaceae, and their efficacy for decolorization of methylene blue. *Journal of Environmental Chemical Engineering*, 8: 103841. doi: 10.1016/j.jece.2020.103841
 23. **Owaid, M.N.**, Naeem, G.A., Muslim, R.F., Oleiwi, R.S. (2020). Synthesis, characterization and antitumor efficacy of silver nanoparticle from *Agaricus bisporus* pileus, Basidiomycota. *Walailak Journal of Science and Technology*, 17(2): 75-87.
 24. Omer, R., Iqbal, S., Mushtaq, B.S., Hussain, M.B., **Owaid, M.N.**, Saeed, F., Waheed, M., Shariati, M.A., Khan, M.U., Ahmad, T. (2020). Evaluating the effect of prebiotics in the rehabilitation of gut microbiota after antibiotic therapy in rats. *Gazi Medical Journal*, 31(1): 10-14. doi: 10.12996/gmj.2020.03.
 25. **Owaid, M.N.**, Rabeea, M.A., Abdul Aziz, A., Jameel, M.S., Dheyab, M.A. (2019). Mushroom-assisted synthesis of triangle gold nanoparticles using aqueous extract of fresh *Lentinula edodes* (shiitake), Omphalotaceae. *Environmental Nanotechnology, Monitoring & Management*, 12: 100270. doi: 10.1016/j.enmm.2019.100270
 26. **Owaid, M.N.** (2019). Green synthesis of silver nanoparticles by *Pleurotus* (oyster mushroom) and their bioactivity: Review. *Environmental Nanotechnology, Monitoring & Management*, 12(2019):100256. doi:10.1016/j.enmm.2019.100256
 27. Radif, H.M., **Owaid, M.N.**, Al-Bahrani, R.M. (2019). Evaluation influence of extract of *Terfezia claveryi* desert truffle, Pezizaceae, against *Streptococcus pneumoniae*, in vivo. *Malaysian Journal of Biochemistry & Molecular Biology*, 2: 21-25.
 28. Tawfeeq, H.M., Muslim, R.F., Abid, O.H., **Owaid, M.N.** (2019). Synthesis and characterization of novel five-membered heterocycles and their activity against *Candida* yeasts. *Acta Chimica Slovenica*, 66(3): 552-559. doi:10.17344/acsi.2018.4719
 29. Muslim, R.F., Tawfeeq, H.M., Abid, O.H., **Owaid, M.N.** (2019). Synthesis and characterization of novel

- Tetrazole derivatives and evaluation of their anti-candidal activity. *Acta Pharmaceutica Scientia*, 57(3): 45-63. doi:10.23893/1307-2080.APS.05717
30. Muslim, R.F., **Owaid, M.N. (2019)**. Synthesis, characterization and evaluation of the anti-cancer activity of silver nanoparticles by natural organic compounds extracted from *Cyperus* sp. rhizomes. *Acta Pharmaceutica Scientia*, 57(2): 129-146. doi: 10.23893/1307-2080.APS.05708
 31. **Owaid, M.N.**, Zaidan, T.A., Muslim, R.F., Hammood, M.A. (2019). Biosynthesis, characterization and cytotoxicity of zinc nanoparticles using *Panax ginseng* roots, Araliaceae. *Acta Pharmaceutica Scientia*, 57(1): 19-32. doi:10.23893/1307-2080.APS.05702
 32. **Owaid M.N.**, Jaloot A.S., Ahmed D.M. (2019). Influence of *Ficus carica* and *Olea europaea* leaves extracts on the mycelial growth of mushrooms *in vitro*. *Acta Ecologica Sinica*, 39: 36-41. doi:10.1016/j.chnaes.2018.06.003
 33. Rashid, H.M., Abed, I.A., **Owaid, M.N. (2018)**. Effect of *Sesbania sesban* on cultivation of *Agaricus bisporus*, Basidiomycota, and properties of spent mushroom compost outcome. *Open Agriculture*, 3: 652–657. doi:10.1515/opag-2018-0068
 34. Abdalkafor, A.S., Nassar, A.M., **Owaid, M.N. (2018)**. Predicting the success rates of schools using Artificial Neural Network. *Journal of Theoretical and Applied Information Technology*, 96(19): 6339-6348.
 35. Khan, M.U., Chniti, S., **Owaid, M.N.**, Hussain, M.B., Shariati, M.A. (2018). An overview on properties and internal characteristics of anaerobic bioreactors of food waste. *Journal of Nutritional Health & Food Engineering*, 8(4): 319–322. doi:10.15406/jnhfe.2018.08.00288
 36. **Owaid M.N.**, Muslim R. and Hamad, H.A. (2018). Mycosynthesis of Silver Nanoparticles using *Terminia* sp. Desert Truffle, Pezizaceae, and their Antibacterial Activity. *Jordan Journal of Biological Sciences*, 11(4): 401-405.
 37. **Owaid, M.N.**, Al Saeedi, S.S.S., Abed, I.A. (2018). Cultivation performance of *Pleurotus salmoneostramineus* mushroom on wastes of date-palm trunk, *Phoenix dactylifera* L., and sawdust of woodworking. *Walailak Journal of Science and Technology*, 15(12): 831-839.
 38. Al-Bahrani, R.M., Abdel Majeed, S.M., **Owaid M.N.**, Mohammed, A.B., Rheem, D.A. (2018). Phyto-fabrication, characteristics and anti-candidal effects of silver nanoparticles from leaves of *Ziziphus mauritiana* Lam. *Acta Pharmaceutica Scientia*, 56(3): 85-92. doi: 10.23893/1307-2080.APS.05620
 39. Hussein, N.M., **Owaid M.N.**, Khalaf, B.K. (2018). Effects of lipopolysaccharides of *Pseudomonas aeruginosa* and extract of *Ginkgo biloba*, Ginkgoaceae, on cellular immune response in mice Balb/c. *Gazi Medical Journal*, 29(3): 206-210. doi: 10.12996/gmj.2018.57
 40. Rashid, H.M., Abed, I.A., **Owaid, M.N. (2018)**. Mycelia growth performance of *Agaricus bisporus* in culture media of composts supplemented with *Sesbania sesban* straw and phosphate rock. *Current Research in Environmental & Applied Mycology*, 8(3): 323–330. doi: 10.5943/cream/8/3/4
 41. **Owaid, M.N.**, Seephueak, P. and Attallah, R.R. (2018). Recording novel mushrooms in Heet district, Iraq. *Songklanakarinn Journal of Science and Technology*, 40(2): 367-369. doi: 10.14456/sjst-psu.2018.58
 42. Muslim R.F., Tawfeeq H.M., **Owaid M.N.**, Abid O.H. (2018). Synthesis, characterization and evaluation of antifungal activity of novel seven-membered heterocycles. *Acta Pharmaceutica Scientia*, 56(2): 39-57. doi: 10.23893/1307-2080.APS.05610
 43. **Owaid, M.N.**, Muslat, M.M., Abed, I.A. (2018). Mycodegradation of reed straw, *Phragmites australis*. *Current Research in Environmental & Applied Mycology*, 8(2): 290–297. doi: 10.5943/cream/8/2/12
 44. Al-Ani, B.M., **Owaid, M.N.** and Al Saeedi, S.S.S. (2018). Fungal interaction between *Trichoderma* spp. and *Pleurotus ostreatus* on the enriched solid media with licorice *Glycyrrhiza glabra* root extract. *Acta Ecologica Sinica*, 38(3): 268–273. doi: 10.1016/j.chnaes.2017.08.001
 45. **Owaid, M.N. (2018)**. Bioecology and uses of desert truffles (Pezizales) in Middle Eastern. *Walailak Journal of Science and Technology*, 15(3): 179-188.
 46. Atila, F., **Owaid, M.N.**, Shariati, M.A. (2017). The nutritional and medical benefits of *Agaricus bisporus*: a review. *Journal of Microbiology, Biotechnology and Food Sciences*, 7(3): 281-286. doi: 10.15414/jmbfs.2017/18.7.3.281-286
 47. **Owaid, M.N.**, Barish, A., Shariati, M.A. (2017). Cultivation of *Agaricus bisporus* (button mushroom) and its usages in the biosynthesis of nanoparticles. *Open Agriculture*, 2: 537-543. doi: 10.1515/opag-2017-0056
 48. **Owaid, M.N.**, Al Saeedi, S.S.S. and Abed, I.A. (2017). Biosynthesis of gold nanoparticles using yellow oyster mushroom *Pleurotus cornucopiae* var. *citrinopileatus*. *Environmental Nanotechnology, Monitoring & Management*, 8: 157-162. doi: 10.1016/j.enmm.2017.07.004
 49. **Owaid, M.N. (2017)**. Antagonistic role of hypha and cell-free culture filtrates of medicinal mushrooms to

- Verticillium* sp. and *Pythium* sp. fungal pathogens. *Current Research in Environmental & Applied Mycology*, 7(2): 94-102. doi: 10.5943/cream/7/2/6
50. Majeed, M., Khan, M.U., **Owaid, M.N.**, Khan, M.R., Shariati, M.A., Igor, P., Ntsefong, G.N. (2017). Development of oyster mushroom powder and its effects on physicochemical and rheological properties of Bakery products. *Journal of Microbiology, Biotechnology and Food Sciences*, 6(5): 1221-1227. doi: 10.15414/jmbfs.2017.6.5.1221-1227
 51. **Owaid, M.N.**, Muslat, M.M., Abed, I.A. (2017). Content of protein and ortho-dihydric phenol in *Agaricus bisporus* X25 cultivated on decomposed agrosubstrates. *GIDA / The Journal of Food*, 42(3): 324-328. doi:10.15237/gida.GD16093
 52. **Owaid, M.N.**, Muslat, M.M., Abed, I.A. (2017). Cultivation of *Agaricus bisporus* X25 on reed plant (*Phragmites australis*) straw decomposed by using Actinomycetes. *Hacettepe Journal of Biology and Chemistry*, 45(2): 205-212.
 53. **Owaid, M.N.**, Al Saeedi, S.S.S. and Abed, I.A. (2017). Study on UV-visible for detection of biosynthesis of silver nanoparticles by oyster mushroom's extracts. *Journal of Water and Environmental Nanotechnology*, 2(1): 66-70. doi:10.7508/jwent.2017.01.008
 54. **Owaid, M.N.**, Abed, I.A. and Al Saeedi, S.S.S. (2017). Applicable properties of the bio-fertilizer spent mushroom substrate in organic systems as a byproduct from the cultivation of *Pleurotus* spp. *Information Processing in Agriculture*, 4(1): 78-82. doi:10.1016/j.inpa.2017.01.001
 55. **Owaid, M.N.** and Ibraheem, I.J. (2017). Mycosynthesis of nanoparticles using edible and medicinal mushrooms. *European Journal of Nanomedicine*, 9(1), 5-23. doi:10.1515/ejnm-2016-0016
 56. **Owaid, M.N.**, Al Saeedi, S.S.S., Abed, I.A., Shahbazi, P. and Sabaratnam, V. (2017). Antifungal activities of some *Pleurotus* species (Higher Basidiomycetes). *Walailak Journal of Science and Technology*, 14(3): 215-224.
 57. **Owaid, M.N.**, Abed, I.A. and Al Saeedi, S.S.S. (2017). Nutraceutical value of four oyster mushroom species, Higher Basidiomycetes. *Hacettepe Journal of Biology and Chemistry*, 45(1): 117-124. 10.15671/HJBC.2017.143
 58. **Owaid, M.N.**, Al-Saeedi, S.S.S. and Al-Assaffii, I.A.A. (2017). Antifungal activity of cultivated oyster mushrooms on various agro-wastes. *Summa Phytopathologica*, 43(1): 9-13. doi: 10.1590/0100-5405/2069
 59. **Owaid, M.N.**, Al Saeedi, S.S.S. and Abed, I.A. (2016). Recycling of date-palm fiber to produce *Pleurotus cornucopiae* var. *citrinopileatus* mushroom. *International Journal of Environment*, 5(4): 56-65. doi: 10.3126/ije.v5i4.16393
 60. **Owaid, M.N.** (2016). Biodiversity and bioecology of Iraqi desert truffles (Pezizaceae) during season 2014. *Journal of Aridland Agriculture*, 2: 22-25. doi:10.19071/jaa.2016.v2.3046
 61. **Owaid, M.N.**, Abed, I.A. and Al-Saeedi. S.S.S. (2016). Mycelial growth observation of *Pleurotus eryngii* (Higher Basidiomycota) *in vitro*. *International Journal of Environment*, 5(3): 1-10. doi: 10.3126/ije.v5i3.15700
 62. **Owaid, M.N.**, Abed, I.A. and Al-Saeedi. S.S.S. (2016). Properties of fruit bodies of oyster mushroom (*Pleurotus ostreatus*) cultivated on some local cellulosic residues in Iraq. *GIDA / The Journal of Food*, 41(4): 189-195. doi: 10.15237/gida.GD15072
 63. **Owaid, M.N.**, Al-Saeedi, S.S.S. and Al-Assaffii, I.A. (2016). Evaluation of qualification of substrates containing date palm fibers (leaf) and sawdust on quality and productivity of four *Pleurotus* spp. *Iraqi Journal of Desert Studies*, 5(1): 1-11.
 64. **Owaid, M.N.**, Al-Saeedi, S.S.S. and Abed, I.A. (2015). Mineral elements of white, grey, yellow and pink oyster mushrooms (Higher Basidiomycetes). *GIDA / The Journal of Food*, 40(6): 319-326. doi: 10.15237/gida.GD15039
 65. Muslat, M.M. and **Owaid, M.N.** (2015). *Polyporus* spp. (Polyporaceae, Basidiomycota): Rare record from ecosystem of Fallujah, Iraq. *International Journal of Environment*, 4(3): 185-189. doi: 10.3126/ije.v4i3.13245
 66. **Owaid, M.N.**, Nassar, B.M., Abed, A.M. and Turki, A.M. (2015). Effect of cellulosic matter and container size on cultivation and yield of oyster mushroom *Pleurotus ostreatus*. *Journal of Medicinal Herbs and Ethnomedicine*, 1(1): 59-63. doi:10.5455/jmhe.2015-05-01
 67. **Owaid, M.N.** and Abed, A.M. and Nassar, B.M. (2015). Recycling cardboard wastes to produce blue oyster

- mushroom *Pleurotus ostreatus* in Iraq. *Emirates Journal of Food and Agriculture*, 27(7): 537-541. doi:10.9755/ejfa.2015.04.118
68. **Owaid, M.N.** and Abed, I.A. (2015). Mineral analysis of phosphate rock as Iraqi raw fertilizer. *International Journal of Environment*, 4(2):413-415. doi:10.3126/ije.v4i2.12667
69. **Owaid, M.N.**, Abed, I.A. and Al-Saeedi, S.S. (2015). Using of date palm fiber mixed with other lignocelluloses toward *Pleurotus ostreatus* (Higher Basidiomycetes) cultivation. *Emirates Journal of Food and Agriculture*, 27(7): 556-561. doi:10.9755/ejfa.184440
70. **Owaid, M.N.**, Raman, J., Lakshmanan, H., Al-Saeedi, S.S.S., Sabaratnam, V. and Al-Assaffii, I.A.A. (2015). Mycosynthesis of silver nanoparticles from *Pleurotus cornucopiae* var. *citrinopileatus* and its inhibitory effects against *Candida* sp. *Materials Letters*, 153: 186-190. doi:10.1016/j.matlet.2015.04.023
71. **Owaid, M.N.** (2015). Mineral elements content in two sources of *Agaricus bisporus* in Iraqi market. *Journal of Advanced & Applied Sciences*, 3(2): 46-50.
72. **Owaid, M.N.**, Al-Saeedi, S.S.S., Sabaratnam, V., Al-Assaffii, I.A.A. and Raman, J. (2015). Growth performance and cultivation of four oyster mushroom species on sawdust and rice bran substrates. *Journal of Advances in Biotechnology*, 4(3):424-429.
73. **Owaid, M.N.**, Al-Saeedi, S.S.S. and Al-Assaffii, I.A. (2015). Antimicrobial activity of mycelia of oyster mushroom species (*Pleurotus* spp.) and their liquid filtrates (*in vitro*). *Journal of Medical and Bioengineering*, 4(5): 376-380. doi:10.12720/jomb.4.5.376-380
74. **Owaid, M.N.**, Al-Assaffii, I. A. A. and Al-Saeedi, S. S. S. (2014). Assessment date palm fibers extract agar with other lignocellulose residues on mycelial growth of *Pleurotus eryngii*. *Rev. Microbiol. Ind. San et Environn.*, 8(2): 172-186.
75. Muslat, M.M., Al-Assaffii, I.A.A. and **Owaid, M. N.** (2014). *Agaricus bisporus* product development by using local substrate with bio-amendment. *International Journal for Environment and Global Climate*, 2(4): 176-188.
76. **Owaid, M.N.**, Muslat, M.M. and Tan, W.C. (2014). First collection and identification of wild mushrooms in western Iraq. *Journal of Advanced Laboratory Research in Biology*, 5(2): 29-34.
77. **Owaid, M.N.**, Al-Ani, B.M.A. and Muslat, M.M. (2014). Effect of *Saccharomyces cerevisiae* extract on mycelium growth and primordia formation of *Pleurotus salmoneostramineus* and *Pleurotus cornucopiae* (*in vitro*). *Journal of Life Sciences and Technologies*, 2(1): 28-31. doi:10.12720/jolst.2.1.28-31.
78. **Owaid, M.N.**, Al-Saeedi, S.S.S. and Al-Assaffii, I.A. (2014). Impact palm date fibers (fibrillum) and sawdust extract on mycelial growth rate of four species of *Pleurotus*. 3rd Scientific Conference for Plant Production. *Journal Tikrit Univ. For Agri. Sci.*, 14 (special issue): 1-7.
79. **Owaid, M.N.**, Al-Saeedi, S.S.S., Al-Assaffii, I.A. and Sabaratnam, V. Antifungal activities of mycelia and culture filtrate of four oyster mushroom species (*Pleurotus* spp.) against pathogenic fungi. Poster, the 7th International Medicinal Mushroom Conference, Beijing, China. 26-29 August 2013. doi:10.13140/RG.2.1.4684.8322/1
80. Muslat, M.M., Al-Assaffii, I.A.A. and **Owaid, M.N.** (2011). Use Efficiency of Reed Residues *Phragmites australis* with Amendment by *Streptomyces* O3 to Prepared Compost for *Agaricus bisporus* Production and Influence of Spraying *Glycyrrhiza* sp. extracts. *Research Journal of Aleppo University. Agricultural Science Series*, 93: 149-168.
81. Muslat, M.M., Al-Assaffii, I.A. and **Owaid, M.N.** (2011). A Study of Some Physical and Chemical Characteristics for Compost of Heterogeneous of Cellulose during the Fermentation Period for Mushroom Cultivation of *Agaricus bisporus*. *Al-Anbar Journal of Agricultural Sciences*. 9(1): 197-206.
82. Muslat, M.M., **Owaid, M.N.** and Al-Assaffii, I.A. (2010). Study the effect of different concentrations of aqueous extract of liquorices on the speed of the mycelial growth of *Agaricus bisporus*, Biomass and Protein Content. 3rd Conference of Agricultural Sciences. *Al-Anbar Journal of Agricultural Sciences*, 8(4): 223-229.
83. **Owaid, M.N.**, Al-Assaffii, I.A. and Muslat, M.M. (2010). Evaluation the efficiency of reed plant (*Phragmites australis*) wastes and aqueous extract of liquorices (*Glycyrrhiza glabra*) on the production of *Agaricus bisporus*. *Journal of University of Anbar for Pure Science*, 4(2): 13-21.
- Thesis
84. **Owaid, M.N.** (2013). Testing efficiency of different agriculture media in growth and production of four species of oyster mushroom *Pleurotus* and evaluation the bioactivity of tested species. Ph.D. thesis. Biology Dept., College of Science, University Of Anbar, Iraq. 169 pp. Doi: 10.13140/2.1.4422.6883
85. **Owaid, M.N.** (2009). Biotechnology for local compost preparation used to produce mushroom *Agaricus bisporus*. M.Sc. thesis. Biology Dept., College of Science, University Of Anbar, Iraq. 129 pp. Doi:

10.13140/RG.2.1.2325.5361/1

Book Chapters

1. **Owaid, M.N. (2020).** Recent medical trends of using oyster mushroom nanoparticles. *Micro- and Nanotechnologies in Biomedical Engineering*. Volume 10: Biomedicine. Elsevier, *In production*
2. **Owaid, M.N.; Rabeea, M.A. (2023).** Mushroom factories for the production metal nanoparticles and their antimicrobial applications. In: Abd-El Salam, K. A. (Eds). *Fungal Cell Factories for Sustainable Nanomaterials Productions and Agricultural Applications*. Elsevier. pp. 205-223. Doi: 10.1016/B978-0-323-99922-9.00028-3 (ISBN: 978-0-323-99922-9)
3. Khan, F.S.; Hussain, I.; Akram, M.; **Owaid, M.N. (2022).** Truffles: The Cultivation and Health Benefits. In: Arya, A., Rusevska, K. (Eds). *Biology, Cultivation and Applications of Mushrooms*. Springer, Singapore. pp 285–300. Doi: 10.1007/978-981-16-6257-7_10 (ISBN: 978-981-16-6256-0, E-ISBN: 978-981-16-6257-7)
4. Yaseen, O.Q.; Muslim, R.F.; Rabeea, M.A.; **Owaid, M.N. (2022).** Recent approaches of nanodrug delivery and toxicity to untargeted organs. In: Talukdar A.D., Sarker S.D. and Patra J.K. (Eds). *Advances in Nanotechnology-Based Drug Delivery Systems*. Elsevier. pp. 517-532. Doi: 10.1016/B978-0-323-88450-1.00004-1 (ISBN: 978-0-323-88450-1)
5. Shallal, A.F.; **Owaid, M.N. (2022).** Challenges and hazards associated with nanotechnology in agriculture. In: Talukdar A.D., Sarker S.D. and Patra J.K. (Eds). *Advances in Nanotechnology-Based Drug Delivery Systems*. Elsevier. pp. 399-414. Doi: 10.1016/B978-0-323-88450-1.00009-0 (ISBN: 978-0-323-88450-1)
6. Shallal, A.F.; Akram, M.; Muslim, R.F.; **Owaid, M.N.**; Yaseen, O.Q.; Chishti, M.A. (2022). Bone tissue engineering using nanotechnology based drug delivery system. In: Talukdar A.D., Sarker S.D. and Patra J.K. (Eds). *Advances in Nanotechnology-Based Drug Delivery Systems*. Elsevier. pp. 177-196. Doi: 10.1016/B978-0-323-88450-1.00012-0 (ISBN: 978-0-323-88450-1)
7. **Owaid M.N. (2021).** *Ganoderma lucidum*: King of Mushroom. In: Husen A., Bachheti R.K., Bachheti A. (eds) *Non-Timber Forest Products*. Springer, Cham, pp. 325-337. Doi: 10.1007/978-3-030-73077-2_14 (ISBN: 978-3-030-73076-5)
8. **Owaid, M.N. (2020).** Biomedical Applications of Nanoparticles Synthesized from Mushrooms. In: Patra J., Fraceto L., Das G., Campos E. (Eds). *Green Nanoparticles. Nanotechnology in the Life Sciences*. 1st Edition. Springer Nature Switzerland AG, pp. 289-303. Doi: 10.1007/978-3-030-39246-8_14 (ISBN: 978-3-030-39245-1, E-ISBN: 978-3-030-39246-8)
9. **Owaid, M.N. (2019).** Silver nanoparticles as unique nano-drugs. In: Grumezescu, A.M., Grumezescu, V. (Eds). *Materials for Biomedical Engineering: Bioactive Materials, Properties and Applications*. 1st Edition. Elsevier, pp. 545-580. Doi: 10.1016/B978-0-12-818431-8.00017-9 (ISBN: 9780128184318, E-ISBN: 9780128184325)

Booklets

CD

1. **Mustafa N. Owaid (2011).** Tutorials of Iraqi Virtual Scientific Library. 4 Video Lessons. College of Science, University Of Anbar, Iraq. 202 MB, 85 Minutes.

Conferences:-

Conference. Venue. Year

1. 1st International Conference on Biological Science (ICBS 2023). College of Science, University Of Anbar, Ramadi, **Iraq**, 1-2 Mar. **2023**, (International).
2. 1st Samarra International Conference for Pure and Applied Sciences (SICPS2021), College of Applied Sciences, University of Samarra, Samarra, **Iraq**, 23-24 Mar. **2021**, (International).
3. Sixth International Conference of Water and Environment Resources, the Euro-Arab Organization for Environment, Water and Desert Researchers, Istanbul, **Turkey**, 27-30 Oct. **2014**, (International).
4. Third Specialized Conference of Agriculture Sciences/ Plant Production, College of Agriculture - Tikrit University, Tikrit, **Iraq**, 26-27 March **2014**. (National).
5. Fourth Scientific Conference for College of Agriculture - University Of Anbar, Ramadi, **Iraq**, 26-27 Nov. **2013**. (National).
6. The 7th International Medicinal Mushroom Conference, Beijing, **China**, 26-29 August **2013**. (International).
7. Second Scientific Conference for Desert Studies Center - University Of Anbar, Ramadi, **Iraq**, 24-26 April **2013**. (National).
8. Second Scientific Conference for Pure Science - University Of Anbar, Ramadi, **Iraq**, 20-22 Nov. **2012**.

- (National).
9. Third Scientific Conference for College of Agriculture - University Of Anbar, Ramadi, **Iraq**, 11-12 Nov. **2010**. (National).
 10. First Scientific Conference for Desert Studies Center - University Of Anbar, Ramadi, **Iraq**, 22-24 Dec. **2009**. (National).

Symposia, workshop:-

Symposium. Venue. Year

1. Lecturer in e-Symposium "Diversification of Indian Agriculture: Ancient to Modern" School of Agriculture, Suresh Gyan Vihar University, **Jaipur, India, 17-18th June, 2020** (International)
2. Lecturer in Workshop of Sciences for Training Teachers of Primary Schools, Department of Heet Education, General Directorate of Education in Anbar, Ministry of Education, **Hit, Iraq, 24-28 March 2019**, (National).
3. Lecturer in Workshop of The New Iraqi Promotion Rule, General Directorate of Education in Anbar, Ministry of Education, **Ramadi, Iraq, 2018**, (National).
4. Second Scientific Symposium for College of Applied Sciences-Hit, University Of Anbar, **Hit, Iraq, 2nd April 2018**, (National).
5. Lecturer in Workshop of Sciences of the 6th class for Training Teachers of Primary Schools, Department of Heet Education, General Directorate of Education in Anbar, Ministry of Education, **Iraq, 2018**, (National).
6. Lecturer in Workshop of Biology for Training Teachers of Secondary Schools, Department of Heet Education, General Directorate of Education in Anbar, Ministry of Education, **Iraq, 2018**, (National).
7. Lecturer in Workshop of Research Papers Publication, Department of Heet Education, General Directorate of Education in Anbar, Ministry of Education, **Iraq, 2018**, (National).
8. Lecturer in Workshop of Sciences of the 5th class for Training Teachers of Primary Schools, Department of Heet Education, General Directorate of Education in Anbar, Ministry of Education, **Iraq, 2017**, (National).
9. Lecturer in Fourth Scientific Symposium for Postgraduate Students, College of Science, University Of Anbar, **Iraq, 18 April 2012**, (National).
10. Lecturer in First Scientific Symposium for Postgraduate Students, College of Science, University Of Anbar, **Iraq, 2009**, (National).
11. Trained in Workshop of the dealing with HINARI, College of Science and Department of Health Anbar, University Of Anbar, **Iraq, 10-12 May 2008**, (National).

Memberships:-

Organization. Year. Role. Level

1. Iraqi Mushroom and Truffles Society (IQMT), Anbar, **Iraq, 28 February 2021-now**, Head.
2. Mushroom Research Centre (MRC), University of Malaya, **Malaysia, December 2019-now**, International Associate Member in Frontiers of the Natural World Research Cluster.
3. World Society for Mushroom Biology and Mushroom Products, (**WSMBMP**), **2014**, Ordinary Member.
4. North American Mycological Association (**NAMA**), **USA, 2014**, Member.
5. Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBES), **Hong Kong, 2013-2015**, Member.
6. British Mycological Society (BMS), **UK, 2013-2014**, Member.
7. Malaysian Society for Microbiology (MSM), **Malaysia, 2013-2014**, Associate Member.
8. International Society for Fungal Conservation (ISFC), **UK, 2013-2015**, Member.
9. Cape Cod Mushroom Club, **US, 2013-2015**, Member.
10. International Society for Mushroom Science (ISMS), **South Africa, 2013-2015**, Member.
11. Malaysian Mushroom Research Association (MMRA), **Malaysia, 2013**, Member.
12. Iraqi Teachers Union-Branch Heet (ITU), **Iraq, 2005-2017**, Member.

Tenure Editor and Member in Scientific Committees:-

Journal. ISSN. Country. Year

1. Member in the Scientific Committee. The 3rd World Conference on Waste Management 2022 (WCWM 2022), 10th – 11th **March 2022** in (**Virtual Platform**).
2. Member in the Scientific Committee. The 8th International Conference on Agriculture 2021 (AGRICO 2021), 19-20 **August 2021** in (**Virtual Platform**).
3. Member in the Scientific Committee. The 4th International Conference on Climate Change 2020 (ICCC 2020), 27-28 **February 2020** in Kuala Lumpur, **Malaysia**.

4. Member in the Scientific Committee. The 7th International Conference on Agriculture 2020 (AGRICO 2020), 27-28 **August 2020** in Bangkok, **Thailand**.
5. Member in the Scientific Committee. The 6th International Conference on Agriculture 2019 (AGRICO 2019), 22-23 **August 2019** in Bangkok, **Thailand**.
6. Member in the Scientific Committee. The 6th International Conference on Nano Science and Nanotechnology 2019 (ICNSNT 2019), 12-13 **December 2019** in Colombo, **Sri Lanka**.
7. Member in the Scientific Committee. The 5th International Conference on Nano Science and Nanotechnology 2018 (ICNSNT 2018), 13-14 **December 2018** in Colombo, **Sri Lanka**.
8. Member in the Scientific Committee. The 5th International Conference on Agriculture 2018 (AGRICO 2018), 16-17 **August 2018** in Colombo, **Sri Lanka**.
9. Member in The High Scientific Committee For Educational Researches and Studies, General Directorate of Education in Anbar, Ministry of Education, Ramadi, Anbar, **Iraq (Since Jan. 2018)**.
10. Editor in Editorial Advisory Board, International Journal of Applied Biology, ([ISSN: 2580-2410](#); [E-ISSN: 2580-2119](#)) **Indonesia (Since Apr. 2017)**.
11. Member of Editorial Board for International Journal of Research in Science & Technology (IJRST) (P-ISSN: [2454-180X](#), E-ISSN: [2249-0604](#)) National Institute of Science Communication and Information Resources (NISCAIR), Council of Scientific and Industrial Research (CSIR), **India (Since 2015)**.
12. Editor in Editorial Board of European Journal of Experimental Biology ([ISSN: 2248-9215](#)) (Pelagia Research Library), **India (Since 2015)**.
13. Editor in Editorial Board of International Journal of Environment (IJE) ([ISSN: 2091-2854](#)), **Nepal (Since 2015-2019)**.
14. Chief Editor of Alheeti E-Journal ([ISN: 3/2012](#)), **Iraq. (2011-2014)**.

Invited Reviewer for Book Proposals in Publishing Houses:-

1. **Secondary Metabolites from Medicinal Plants: Nanoparticles Synthesis and their Applications**. Editors: Rakesh Kumar Bachheti and Archana Bachheti. In: Azamal Husen, Exploring Medicinal Plants (25 Feb. 2021). Routledge & CRC Press, Taylor & Francis.
2. **Mycofactories for Sustainable Nanomaterials Productions and Agri-Food Applications**. Editor: Kamel A. Abd-Elsalam. (4 Jan. 2021), Elsevier.

Invited Reviewer in Journals:- Reviewer more than 100 manuscripts and abstracts in many Journals and Conferences

Italic: Scopus/SCI, **Non-italic:** Non Scopus/SCI

1. *Acta Ecologica Sinica*
2. *Advances in Nano Research*
3. *Applied Biological Research*
4. *Alexandria Journal of Medicine*
5. *Aro*
6. *Asian Journal of Agriculture and Biology*
7. *Biomedical and Pharmacology Journal*
8. *BMC Microbiology*
9. *Catalysis Letters*
10. *Chiang Mai Journal of Science*
11. *Egyptian Journal of Aquatic Biology and Fisheries*
12. *European Journal of Therapeutics*
13. *Food Reviews International*
14. *Gazi Medical Journal*
15. *Information Processing in Agriculture*
16. *International Journal of Agronomy*
17. *International Journal of Medicinal Mushrooms*
18. *Iranian Journal of Microbiology*
19. *Jordan Journal of Biological Sciences*
20. *Journal of Bioscience and Bioengineering*
21. *Journal of Microbiology, Biotechnology and Food Sciences*
22. *Journal of Nanostructure in Chemistry*

23. *Journal of Research in Pharmacy*
24. *Journal of Water and Environmental Nanotechnology*
25. *Kuwait Journal of Science*
26. *Letters in Applied Microbiology*
27. *Marmara Pharmaceutical Journal*
28. *Microbial Pathogenesis*
29. *Nano Biomedicine and Engineering*
30. *Nanotechnology Reviews*
31. *Oriental Journal of Chemistry*
32. *Phytotherapy Research*
33. *Scientific Reports*
34. *Songklanakar Journal of Science and Technology*
35. *Turkish Journal of Chemistry*
36. *Ultrasonics Sonochemistry*
37. *Walailak Journal of Science and Technology*
38. *African Journal of Agricultural Research*
39. *African Journal of Biotechnology*
40. *International Journal of Applied Biology*
41. *International Journal of Crop Science and Technology*
42. *International journal of Environment*
43. *International Journal of Environmental Science and Toxicology Research*
44. *Journal of Agricultural and Crop Research*
45. *Journal of Agricultural Science and Food Technology*
46. *Journal of BioScience and Biotechnology*
47. *Journal of Bioscience and Biotechnology Discovery*
48. *Journal of Physical Science and Environmental Studies*
49. *SOJ Microbiology & Infectious Diseases*
50. *The Journal of Food*
51. *Turkish Journal of Agriculture - Food Science and Technology*

Acknowledgements & Awards (Prizes):-

Office. Country. Years

1. Acknowledgements (12 from Ministry of Education + 5 from University Of Anbar)

Certifications:-

Office. Country. Years

1. Certification of Research Attachment Program, Mushroom Research Centre, University of Malaya, **Malaysia (2013)**.
2. HINARI Certification. Health Anbar and University Of Anbar. **Iraq (2008)**.

Referees:-

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DECLARATION

I hereby declare that the above given information is true to the best of my knowledge.