** Curriculum Vitae**

**Name:** Mustafa Ahmed Fawzy Mahmoud

**Date of Birth**: 1 / 6/ 1981

**Nationality:** Egyptian

**Place of Birth:** Tema – Sohag - Egypt

**Martial Status:** Married

**Military Status:** Done

**Place of Work:** Botany and Microbiology, Dept. Assiut Univ., Assiut, Egypt.

Biology dep., Faculty of Science, Taif Univ., Taif, KSA.

**Address:** Botany and Microbiology Department, Faculty of Science, Assiut Univ., Assiut, Egypt. **Post code:** 71516  **Fax No.:** 002-088-2080209  **Tel:** 01002931424

**E-mail**: mustafa.fawzy@aun.edu.eg; mostafa.mahmoud@science.au.edu.eg

**QUALIFICATIONS:**

• **Ph.D. in** **Phycology**- September 2012, "**Influence of abiotic factors on growth and metabolic activities of some halotolerant algae in Egypt**".

• **M.Sc. in Phycology** - February 2008, with best distinction "**Effect of glyphosate and clodinafop-propargyl herbicides on the growth, species composition and some metabolic activities of soil algae at Assiut**".

• **Diploma of high studies in Phycology** - November 2005, with very good grade, from Faculty of Science – Assiut University – Assiut - Egypt.

• **B.Sc. Degree in Science (Chemistry & Microbiology)** - June 2002, from Assiut

University – Assiut - Egypt (very good).

**PROFILE:**

**Current Positions:** Professor (Phycology) in Botany and Microbiology Department, Assiut University, Egypt. Instructor for undergraduate students since 2003.

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| **Job** | **Date** | **Place** |
| Professor | from 24/1/2023 till now | Botany and Microbiology Department, Faculty of Science,Assiut University, Assiut, Egypt. |
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| Associate professor | from 26/12/2017 till 23/1/2023 | Botany and Microbiology Department, Faculty of Science,Assiut University, Assiut, Egypt. |
| Lecturer | from 10/2012 till 25/12/2017 | Botany and Microbiology Department, Faculty of Science,Assiut University, Assiut, Egypt. |
| Assistant Lecturer | from 2/2008 till 10/2012 | Botany and Microbiology Department, Faculty of Science,Assiut University, Assiut, Egypt. |
| Demonstrator | from 5/2003 to 2/2008 | Botany and Microbiology Department, Faculty of Science,Assiut University, Assiut, Egypt. |

**Methodological experiences:**

• Gas Chromatography, HPLC.

• Good background in electron microscopy techniques.

• Good experience in Identification of algae.

• Enzyme activity.

• Isolation of DNA, Protein and electrophoresis technique.

 **Research Interests**

* + - * Isolation and identification of algae and cyanobacteria.
			* Mass cultivation of microalgae in wastewater for biodiesel production.
			* Bio-active compounds extraction from algae and cyanobacteria.
			* Algal diversity.
			* Bio-fertilizers.
			* Uses of microalgae and cyanobacteria in removal of phosphorus, nitrogen and other pollutants from wastewater.
			* Uses of microalgae in biosorption of heavy metals.
			* Uses of microalgae as bioindicators of water pollution.
			* Study of the metabolic activities of algae to use in biotechnology.
			* Study of the efficiency of pharmaceutical compounds produced from algae in

 inhibition of the microorganisms such as fungi and bacteria.

 **Research Experience**

* Mass cultivation of freshwater, marine and soil algae.
* Wastewater treatment and biofuels production.
* Standardized methods for lipid extraction and biodiesel production through

transesterification process from algal lipids.

* Bioethanol and biogas production from fresh and residual algal biomass
* Bio-active compounds extraction from algae.

**Achievements**

 **Reviewer** **in**:

(1) Elsevier Journals:

1. Journal of Hazardous Materials
2. Bioresource Technology
3. Renewable Energy
4. Journal of Cleaner Production
5. International Journal of Biological Macromolecules
6. Chemosphere
7. Environmental Pollution
8. Journal of Water Process Engineering
9. Ecotoxicology and Environmental Safety
10. Environmental Technology & Innovation
11. Algal Research
12. Biomass Conversion and Biorefinary
13. Bioresource Technology Reports
14. Journal of the Taiwan Institute of Chemical Engineers
15. Environmental Toxicology and Pharmacology
16. Process Biochemistry
17. Burns

 (2) Springer Journals:

1. Folia Microbiologica
2. Environmental Science and Pollution Research
3. Biologia
4. Scientific Reports
5. Environmental Monitoring and Assessment

(3) Taylor & Francis Journals:

 A. International Journal of Phytoremediation;

 B. Bioremediation Journal;

 C. Desalination and Water Treatment.

 D. Environmental Technology

(4) Frontiers: Frontiers in Bioengineering and Biotechnology

(5) Wiley online Library:

1. Phycological Research
2. The Scientiﬁc World Journal

(6) IWA publishing: Water Science and Technology

(7) MDPI Journals:

1. Applied Microbilogy
2. Microorganisms
3. energies
4. Polymers.
5. International Journal of Environmental Research and Public Health
6. Metabolites
7. Water
8. Life
9. Horticulturae
10. Marine drugs
11. Pollutants
12. Applied Sciences
13. Molecules
14. Sustainability
15. sensors

 (8) Hindawy

 A. Adsorption Science & Technology

 (9) Institute of Physics: A. Materials Research Express

1. Egyptian Journal of Botany
2. Egyptian Journal of Phycology
3. Environmental Engineering and Management Journal.
4. Archives of Biotechnology and Biomedicine.
5. International Journal of Applied Microbiology and Biotechnology Research.
6. American Journal of Microbiology.
7. International Journal of Research in Environmental Studies.
8. International Journal of Medicine and Medical Sciences.
9. World Journal of Biology and Biological Sciences

**Editorial Board Member:**

1. BMC Plant Biology.
2. Archives of Biotechnology and Biomedicine.
3. Nanoscience and Nanotechnology.
4. Archives of Industrial Biotechnology.
5. International Journal of Fisheries Science and Research.
6. Heighpubs Journal of Biotechnology.
7. Journal Insights in Pharma Research.
8. Archives of Biology & Engineering.
9. Probe - Media and Communication Studies
10. World Journal of Agriculture and Soil Science

 **Teaching experiences:** Instructor for undergraduate students since 2003

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| --- | --- | --- | --- |
| **Course** | **Date** | **Target Ss** | **Place** |
|  Practical Physiology ofAlgae, Ecology of Algae. | 2004 to 2012 | Science FacultyStudents of 3rd year | Assiut University |
| Practical Algae | 2004 to 2012 | Science andEducation FacultyStudents of 2nd year | Assiut University |
| Practical Plant Kingdom. | 2004 to 2012 | Pharmacy FacultyStudents | Assiut University |
| Practical Plant physiology | 2004 to 2006 | Veterinary FacultyStudents | Assiut University |
| Practical Plant Morphology & Anatomy | 2004 to 2012 | Agriculture FacultyStudents | Assiut University |
| Practical General Botany | 2004 to 2012 | Education FacultyStudents | Assiut University |
| Practical General Botany | 2004 to 2012 | EducationalQualificationStudents | Assiut University |
| General Botany | 2012 to date | Science FacultyStudents of 1st year | Assiut University |
| Microbial pollution | 2012 to date | Education FacultyStudents of 4th year | Assiut University |
| General Botany | 2012 to date | Pharmacy FacultyStudents | Assiut University |
| Phycology | 2012 to date | Science Facultyof 2st year Students | Assiut University |
| Ecology of Algae | 2012 to date | Science Facultyof the third level | Assiut University |
| Environmental Pollution | 2012 to 2016 | Diploma of Applied Microbiology Students | Assiut University |
| Special Course | 2015 to 2016 | M.Sc. Students | Assiut University |
| Advanced Algae | 2017 | M.Sc. Students | Assiut University |
| Selected Topics related to Microbiology | 2017 | M.Sc. Students | Assiut University |
| Applied Phycology | 2017  | Professional Diploma of Applied Microbiology Students | Assiut University |
| Microbial Bioremediation | 2017  | Professional Diploma in Applied Microbiology Students | Assiut University |
| Selected Topics in Microbiology | 2017  | Professional Diploma of Applied Microbiology Students | Assiut University |

**Membership in Scientific Committees**

**1. Egyptian society of natural toxins.**

**2- Asia- Pacific chemical, biological, environmental and engineering society.**

 **TRAINING:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Role** | **Place** | **Date** | **Title** |
| Trainee | Faculty of Science- Sohage University- Egypt | 28:2-2-2006 | Workshop on Techniques in molecular biology |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 15:17-1-2007 | Effective Presentation |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 10:12-2-2007 | Thinking Skills |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 17:19-2-2007 | Communication Skills |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 15:17-7-2007 | Legal and Financial Aspects in University Environment |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 8:10-12-2007 | Code of Ethics |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 15:17-12-2007 | Credit Hour System |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 16:18-2-2008 | International Publishing of Research |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 23:25-2-2008 | Use of Technology in Teaching |
| Trainee | Zoology department- Faculty of Science- Assiut University – Egypt | 6:10-4-2008 | Workshop on Methods in Molecular Biology and its application in the monitoring of the Environmental stress and Ecotoxicology |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 24:26-5-2008 | Quality Standards in Teaching |
| Trainee | Faculty of Science- Ain Shams- Egypt | 26:28-4-2009 | Biotechnology |
| Trainee | Molecular Biology Research Unit ofAssiut University, Egypt | 1:3-6-2010 | Workshop on From Gene to Protein |
| Trainee | Molecular Biology Research Unit ofAssiut University, Egypt | 27:28-3-2011 | Workshop on Protein electrophoresis and Western blot |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 11:13-5-2011 | Research Team Management |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 25:27-5-2011 | Conference Organization |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 28:30-1-2012 | University Administration |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 1:3-7-2012 | Strategic Planning (1) |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 5-2012 | ICDL |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 2-2014 | ICTP |
| Trainee | Faculty and Leadership DevelopmentProject – Assiut University – Egypt | 15:18-3-2014 | Strategic Planning (2) |
| Trainee | Molecular Biology Research Unit ofAssiut University, Egypt | 9-4-2014 | Workshop on Enzyme Linked Immuno-Sorbent Assay (ELISA) Principals & Different Applications |
| Trainee | Molecular Biology Research Unit ofAssiut University, Egypt | 1:2-4-2015 | Workshop on Applications of Bioinformatics in Molecular Biology |
| Audient | The multidisciplinary Research Centre of Excellence, Faculty of Science, Assiut University | 8:9-5-2016 | Novel approaches for the diagnosis of hepatitis E viruses |
| Audient | Food Science Team, Egypt | 1-6- 2020 | ​ Shelf life in food products |
| Audient | Thana Khasawneh, Publisher | 22-6-2020 | The publishing landscape in the Arab World |
| Audient | Scientific research Development- Tanta University | 11-10-2020 | The Bylaw of Promoting Academic Staff- 13th Round (2019-2022)- Part I |
| Audient | Scientific research Development- Tanta University | 18-10-2020 | The Bylaw of Promoting Academic Staff- 13th Round (2019-2022)- Part II |
| Audient | Researcher Academy on Campus | 22 June, 2020 | The publishing landscape in the Arab World |
| Audient | Deanship of University Development, Taif University | 5 July, 2020 | Annual Program Report |
| Audient | Deanship of University Development, Taif University | 6 July, 2020 | Key Performance indicators |
| Audient | Deanship of University Development, Taif University | 8 July, 2020 | Course Report |
| Audient | Deanship of University Development, Taif University | 2 November, 2021 | Teaching and learning strategies |
| Audient | Deanship of University Development, Taif University | 4 November, 2021 | Course Specification |
| Audient | Academics & Researchers Platforms (IFAD). Egypt | 3 February, 2022 | Common mistakes in scientific research.  |
| Audient | Scholars and Academics Platform and IFAD. Egypt | 27 February, 2022  | Statistical analysis from traditional statistical methodologies to data mining techniques |

**CONFERENCES:**

1. The First Conference for Young Scientists (Basic Science &Technology), Assiut- Egypt, 5th -6th

May 2007 “**Audient**”.

1. The First International Conference of Biological Sciences Assiut- Egypt 14th- 15Pth March 2009.

3. The Third Conference for Young Scientists (Basic Science &Technology), Assiut- Egypt, 19th-20th April 2011. “**Yield Coefficient and Production Rate of Glycerol and Carotenoids under Deficiency of P, N and S by *Dunaliella Salina***”

4. Ninth International Pharmaceutical Sciences Conference, Assiut- Egypt, 12-13 March 2014 “**Audient**”.

5. Seventh International Conference on Environment and Development in the Arab World. Assiut- Egypt 23- 25 March 2014. “**Audient**”.

6. The Fourth International Conference for Young Scientists in Basic and Applied Science Assiut- Egypt, 29-30 April 2014 “**Audient**”.

7. The Six International Conference on Natural Toxins, Ismailia- Egypt 15-16 December 2014 “**Audient**”.

8. Eighth International Conference on Environment and Development in the Arab World. Assiut- Egypt 22- 24 March 2016. **“Phycoremediation and adsorption isotherms of cadmium and copper ions by *Merismopedia tenuissima* and their effect on growth and metabolism”.**

9. Tenth International Pharmaceutical Sciences Conference, Assiut- Egypt, 13-14 April 2016 “**Audient**”.

10. The Fourth International Conference for Young Scientists in Basic and Applied Science Assiut- Egypt, 29-30 October 2016. "**Audient**".

11. Ninth Conference for Development and Environment in the Arab World. Assiut- Egypt 15- 17 April 2018. **“Evaluation of antimicrobial, Antioxidant and Cytotoxic activities and characterization of bioactive substances from freshwater blue-green algae”.**

12. Second Annual Conference of Medical Microbiology and Immunology Department. "Covid 19 Pandemic, Challenges, Experience and Prospect". 7th July 2020. Beni-Suef University. Egypt. **"Audient**".

13. International Conference of Education and Training Evaluation. AlRiyadh. KSA. 14-15 October 2020. **"Audient"**.

14. 1st International Conference on Nutrition, Dietetics and Food Science. College of Agricultural & Marine Sciences, Sultan Qaboos University, Oman. 13-15 December 2021. **Audient**.

15. The 8th virtual international multidisciplinary training conference of BRSF (Improvement of research skills of students and youth researchers: Resent and advanced sciences at the al age). Egypt. 15 July 2022. **"Audient"**.

16. The 1st international conference of climate changes: Recent aspects of climate changes & multidisciplinary sciences (workshop entitled: Role of awareness and simplification of sciences in the confrontation of climate changes. Bioresource Research Support Foundation. Egypt. 8 November 2022. **"Audient"**.

**Research Publications:** H index = 26, Citation No. = 1953

1. **Fawzy M.A.,** Adam M.S., Al-Badaani A.A., Hifney A.F., Hassan, S.H.A. (2024): The Allelopathic Effects of *Persicaria salicifolia* on the Growth and Antioxidant Enzymes of *Synechocystis pevalekii* and *Tetradesmus bernardii*. *Sultan Qaboos University Journal for Science [SQUJS]* 29 (2).
2. El**-**ShazolyR.M.**,** Aloufi A.S., **Fawzy M.A.** (2024): The Potential Use of *Arthrospira* (*Spirulina platensis*) as a Biostimulant for Drought Tolerance in Wheat (*Triticum aestivum* L.) for Sustainable Agriculture. *Journal of Plant Growth Regulation*, 1-18.

**ISI Indexed Journal, Impact Factor: 3.9**

1. **Fawzy M.A.**,Abdelsalam S.,Hafez W.A., Fathi A.A. (2024):Bioremediation potential of microalgae for copper ion from wastewater and its impact on growth and biochemical contents: equilibrium isotherm studies. *Materials Research Express* 11 (5), 055404.

**ISI Indexed Journal, Impact Factor: 1.8**

1. Aloufi, A.S., Al Riyami, B., **Fawzy M.A.**,Al-Yasi, H.M., Koutb, M., Hassan, S.H.A. (2024): Model-assisted optimization of cobalt biosorption on macroalgae *Padina pavonica* for wastewater treatment. *Water*, 16 (6), 887.

**ISI Indexed Journal, Impact Factor: 3.0**

1. **Fawzy M.A.,** Aloufi A.S., Hassan S.H.A, Alessa A.H., Alsaigh A.A., Koutb M., Abdel-Rahim I.R. (2023). Sustainable use of marine macroalga *Sargassum muticum* as a biosorbent for hazardous crystal violet dye: Isotherm, kinetic and thermodynamic modeling. *Sustainability*. 15(20), 15064.

**ISI Indexed Journal, Impact Factor: 3.889**

1. Ibrahim A.G., Baazeem A., Al-Zaban M.I., **Fawzy M.A.,** Hassan S.H.A., Koutb M. (2023). Sustainable biodiesel production from a new oleaginous fungus, *Aspergillus carneus* strain OQ275240: Biomass and lipid production optimization using Box-Behnken design. *Sustainability*. 15(8), 6836.

**ISI Indexed Journal, Impact Factor: 3.889**

1. Gomaa, M., El-Naeb, E.H., Hifney, A.F., Adam, M.S. & **Fawzy, M.A.** (2023). Hormesis effects of phenol on growth and cellular metabolites of *Chlorella* sp. under different nutritional conditions using response surface methodology. *Environmental Science and Pollution Research*, 30(19), 56904-56919.

**ISI Journal, Impact Factor: 5.19**

1. **Fawzy, M.A.,** El-Naeb, E.H., Hifney, A.F., Adam, M.S. & Gomaa, M. (2022). Growth behavior, phenol removal and lipid productivity of microalgae in mixotrophic and heterotrophic conditions under synergistic effect of phenol and bicarbonate for biodiesel production. *Journal of Applied Phycology*. 34(6), 2981-2994.

 **ISI Indexed Journal, Impact Factor: 3.404**

1. Gomaa, M., El-Naeb, E.H., Hifney, A.F., Adam, M.S. & **Fawzy, M.A.** (2022). Coupling phenol bioremediation and biodiesel production by *Tetradesmus obliquus*: Optimization of phenol removal, biomass production and lipid content. *South African Journal of Botany*. 151, 604-613.

 **ISI Indexed Journal, Impact Factor: 3.111**

1. El-Naeb, E.H., **Fawzy, M.A.,** Hifney, A.F., Adam, M.S. & Gomaa M. (2022). Environmental risk analysis of phenol pollution on phytoplankton diversity at Assiut governorate, Egypt. *Assiut Journal of Multidisciplinary Scientific Research*. 51(3), 332-357.
2. **Fawzy, M.A.,** Al-Yasi, H.M., Galal, T.M., Hamza, R.Z., Abdelkader, T.G., Ali, E.F., & Hassan, S.H. (2022). Statistical optimization, kinetic, equilibrium isotherm and thermodynamic studies of copper biosorption onto *Rosa damascena* leaves as a low-cost biosorbent. *Scientific Reports*, *12*(1), 1-19.

**ISI Indexed Journal, Impact Factor: 4.996**

1. **Fawzy, M.A.,** Darwish, H., Alharthi, S., Al-Zaban, M.I., Noureldeen, A., & Hassan, S.H. (2022). Process optimization and modeling of Cd2+ biosorption onto the free and immobilized *Turbinaria ornata* using Box–Behnken experimental design. *Scientific Reports*, *12*(1), 1-18.

**ISI Indexed Journal, Impact Factor: 4.996**

1. **Fawzy M.A.** (2022):Diversity and distribution of epiphytic diatoms on macroalgae inhabiting the Red Sea, Egypt. *Journal of Multidisciplinary Sciences.* *4*(1), 33-47.
2. Alharbi, N.K., Al-Zaban, M.I., Albarakaty, F.M., Abdelwahab, S.F., Hassan, S.H., & **Fawzy, M.A.** (2022). Kinetic, isotherm and thermodynamic aspects of Zn2+ biosorption by *Spirulina platensis*: optimization of process variables by response surface methodology. *Life*, *12*(4), 585.

 **ISI Indexed Journal, Impact Factor: 3.251**

1. Al-Zaban, M.I., Alharbi, N.K., Albarakaty, F.M., Alharthi, S., Hassan, S.H., & **Fawzy, M.A.** (2022). Experimental Modeling Investigations on the Biosorption of Methyl Violet 2B Dye by the Brown Seaweed *Cystoseira tamariscifolia*. *Sustainability*, *14*(9), 5285.

**ISI Indexed Journal, Impact Factor: 3.889**

1. Galal, T.M., Al-Yasi, H.M., **Fawzy, M.A.**, Abdelkader, T.G., Hamza, R.Z., Eid, E.M., & Ali, E.F. (2022). Evaluation of the Phytochemical and Pharmacological Potential of Taif’s Rose (*Rosa damascena* Mill var. *trigintipetala*) for Possible Recycling of Pruning Wastes. *Life*, *12*(2), 273.

 **ISI Indexed Journal, Impact Factor: 3.251**

1. Lalarukh, I., Wang, X., Amjad, S.F., Hussain, R., Ahmar, S., Mora-Poblete, F., Abdel-Hafez, S.H., **Fawzy, M.A.**, Abbas, M.H., Abdelhafez, A.A. and Datta, R. & Datta, R. (2022). Chemical role of α-tocopherol in salt stress mitigation by improvement in morpho-physiological attributes of sunflower (*Helianthus annuus* L.). *Saudi Journal of Biological Sciences*, *29*(3), 1386-1393.

 **ISI Indexed Journal, Impact Factor: 4.052**

1. **Fawzy, M. A.,** & Gomaa, M. (2021). Optimization of citric acid treatment for the sequential extraction of fucoidan and alginate from *Sargassum latifolium* and their potential antioxidant and Fe (III) chelation properties. *Journal of Applied Phycology*, 33(4), 2523-2535.

**ISI Indexed Journal, Impact Factor: 3.404**

1. **Fawzy, M. A.,** El-Otify, A. M., Adam, M. S., & Moustafa, S. S. (2021). The impact of abiotic factors on the growth and lipid accumulation of some green microalgae for sustainable biodiesel production. *Environmental Science and Pollution Research*, 28(31), 42547-42561.

**ISI Journal, Impact Factor: 5.19**

1. **Fawzy M.A.** Alharthi S. (2021): Use of Response Surface Methodology in optimization of biomass, lipid productivity and fatty acid profiles of marine microalga *Dunaliella parva* for biodiesel production. *Environmental Technology & Innovation*. 22, 101485.

**ISI Journal, Impact Factor: 7.758**

1. **Fawzy M.A.**,Alharthi S. (2021): Cellular responses and phenol bioremoval by green alga *Scenedesmus abundans*: Equilibrium, kinetic and thermodynamic studies. *Environmental Technology & Innovation*. 22. 101463.

**ISI Journal, Impact Factor: 7.758**

1. **Fawzy M.A.,** Gomaa M. (2021): Low-cost biosorption of Methylene Blue and Congo Red from single and binary systems using *Sargassum latifolium* biorefinery waste/wastepaper xerogel: an optimization and modeling study. *Journal of Applied Phycology*. 33,675–691.

**ISI Indexed Journal, Impact Factor: 3.404**

1. **Fawzy M.A.** (2020):Biosorption of copper ions from aqueous solution by *Codium vermilara*: optimization, kinetic and isothermal studies. *Advanced Powder Technology*. 31(9): 3724-3735.

 **ISI Journal, Impact Factor: 4.969**

1. Abdelsalam S., **Fawzy M.A.**,Hafez W.A., Fathi A.A. (2020):Seasonal succession of biomass and microalgal communities in some agricultural drainage at Minia governorate, Egypt. *Egyptian Journal of Phycology*. 21.
2. **Fawzy M.A.,** Hifney A.F., Adam M.S., Al-Badaani A.A. (2020): Biosorption of cobalt and its effect on growth and metabolites of *Synechocystis pevalekii* and *Scenedesmus bernardii*: Isothermal analysis. *Environmental Technology & Innovation*. 19: 100953.

**ISI Journal, Impact Factor: 7.758**

## Fawzy M.A., Gomaa M. (2020): Pretreated fucoidan and alginate from a brown seaweed as a substantial carbon source for promoting biomass, lipid, biochemical constituents and biodiesel quality of *Dunaliella salina*. *Renewable Energy*. 157: 246-255.

**ISI Journal, Impact Factor: 8.634**

1. **Fawzy M.A.,** Gomaa M. (2020): Use of algal biorefinery waste and waste office paper in the development of xerogels: A low cost and eco-friendly biosorbent for the effective removal of congo red and Fe (II) from aqueous solutions. *Journal of Environmental Management*. 262: 110380.

**ISI Journal, Impact Factor: 8.91**

1. Eldiehy Kh. SH, **Fawzy M.A.**, Rawway M., Abdul-Raouf U.M. (2020): Optimization of biomass and some metabolites productivity of *Merismopedia tenuissima* and *Spirulina (Arthrospira) platensis* grown under stress conditions. *Zanco Journal of Pure and Applied Sciences*. 32(5): 146-157.
2. Seddek N.H., **Fawzy M.A.,** El-Said W.A. and Ragaey M.M. (2019): Evaluation of antimicrobial, antioxidant and cytotoxic activities and characterization of bioactive substances from freshwater blue-green algae. *Global NEST Journal*. 21(3): 328-366.

**ISI Journal, Impact Factor: 1.134**

1. Gomaa M., **Fawzy M.A.,** Hifney A.F. and Adbel-Gawad K.M. (2019): Optimization of enzymatic saccharification of fucoidan and alginate from brown seaweed using fucoidanase and alginate lyase from the marine fungus *Dendryphiella arenaria*.*Journal of Applied Phycology.* 31(3): 1955–1965.

**ISI Indexed Journal, Impact Factor: 3.404**

1. Hifney A.F., **Fawzy M.A.**, Adbel-Gawad K.M. and Gomaa M., (2018): Upgrading the antioxidant properties of fucoidan and alginate from *Cystoseira trinodis* by fungal fermentation or enzymatic pretreatment of the seaweed biomass. *Food Chemistry*. 269:387-395.

**ISI Indexed Journal, Impact Factor: 6.443**

1. Hifney A.F., Gomaa M., **Fawzy M.A.** and Adbel-Gawad K.M. (2018): Optimizing a low cost production process of crude fucoidanase by *Dendryphiella arenaria* utilizing *Cystoseira trinodis* (Phaeophyceae) and enzymatic hydrolysis of the brown algal biomass. *Waste and Biomass Valorization.* 10(10):2773-2781.

**ISI Indexed Journal, Impact Factor: 3.449**

1. **Fawzy M.A.**, Gomaa M., Hifney A.F. and Adbel-Gawad K.M. (2018): Fungal agarase production in a cost-effective macroalgal based medium and enzymatic hydrolysis of the alkali extracted macroalgal biomass: an optimization study.*Waste and Biomass Valorization*. 11(1):255-264.

**ISI Indexed Journal, Impact Factor: 3.449**

1. El**-**ShazolyR.M.and **Fawzy M.A.** (2018):Biochemical composition and antioxidant properties of some seaweeds from Red Sea coast, Egypt. *European Journal of Biological Research.* 8(4):232-242.
2. Gomaa M., Hifney A.F., **Fawzy M.A.** and Adbel-Gawad K.M. (2018): Use of seaweed and filamentous fungus derived polysaccharides in the development of alginate-chitosan edible films containing fucoidan: study of moisture sorption, polyphenol release and antioxidant properties.*Food Hydrocolloids.* 82: 239-247.

**ISI Indexed Journal,** **Impact Factor: 11.504**

1. Gomaa M., **Fawzy M.A.**, Hifney A.F. and Adbel-Gawad K.M. (2018): Use of the brown seaweed *Sargassum latifolium* in the design of alginate-fucoidan based films with natural antioxidant properties and kinetic modeling of moisture sorption and polyphenolic release.*Food Hydrocolloids.* 82:64–72.

**ISI Indexed Journal,** **Impact Factor: 11.504**

1. Adam M.S.,Hifney A.F., **Fawzy M.A.**, Al-Badaani A.A. (2017):Seasonal biodiversity and ecological studies on the epiphytic microalgae communities in polluted and unpolluted aquatic ecosystem at Assiut­­- Egypt.*European journal of Ecology*. 3(2):92-106.
2. Gomaa M., Hifney A.F., **Fawzy M.A.** and Adbel-Gawad K.M. (2017): Statistical Optimization of Culture Variables for Enhancing Agarase Production by *Dendryphiella arenaria* Utilizing *Palisada perforata* (Rhodophyta) and Enzymatic Saccharification of the Macroalgal Biomass.*Marine Biotechnology.*19(6):592-600.

**ISI Indexed Journal,** **Impact Factor: 3.727**

1. **Fawzy M.A.**,Sayed A.H. and Abou Khalil N.S. (2017): Effects of dietary supplementation of *Spirulina platensis* on the physiological parameters of *Clarias gariepinus* after exposure to food shortage stress. *Health Sciences Research.* 4(1):1-5.
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6. **Fawzy M.A.,** Hifney A.F., Issa A.A. and Gareib G. (2013): Phytochemical constituents and allelopathic effects of some medicinal plants extract on the soil algal diversity.*Journal of Agricultural Science and Technology A. 3(12):* 1000-1009.
7. Hifney A.F., Issa A.A. and **Fawzy M.A.** (2013): Abiotic Stress Induced production of β- carotene, Allophycocyanin and Total Lipids in *Spirulina* sp. *Journal of Biology and Earth Sciences.* 3(1): 54-64.
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1. GomaaM., **Fawzy M.A.** & El-SheekhM.M. 2022.Microalgae-based biofuel synthesis. In: Green Approach on Alternative fuel for a sustainable future. Elsevier. p. 89-105.

 **Books:**

1. **Fawzy M.A.,** Mohammed A.A. and Adam M.S. **''Herbicides and their effects on soil algae at Assiut-Egypt''. 2013.** [LAP LAMBERT Academic Publishing](https://www.morebooks.de/books/gb/published_by/lap-lambert-academic-publishing/47/products) (2013-02-08) - ISBN-13: 978-3-659-34310-0. (<https://www.morebooks.de/store/gb/book/herbicides-and-their-effects-on-soil-algae-at-assiut-egypt/isbn/978-3-659-34310-0>).

**2- Fawzy M.A.,** Adam M.S. and Issa, A.A. **''Abiotic Stress and Halotolerant Algae''.** [LAP LAMBERT Academic Publishing](https://www.morebooks.de/books/gb/published_by/lap-lambert-academic-publishing/47/products) (2018) - ISBN-13: 978-613-8-38577-6.

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2. The best research in basic Sciences. 2014- 2015.

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4. The faculty of science prize for high impact factor research. 2018.

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