

ZAHRA RASOULI

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Za.Ra1987



Date of Birth: May, 21, 1987

Place of Birth: Tehran

Nationality: Iranian

PERSONAL SKILLS

Professional Skills

English (ADL, PET, MCHE, FCE, IELTS) ✓ ✓ ✓ ✓ ✓

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METATEC ✓ ✓ ✓ ✓ ✓

SPSS ✓ ✓ ✓ ✓ ✓

SAS ✓ ✓ ✓ ✓ ✓

NANO ✓ ✓ ✓ ✓ ✓

GIS ✓ ✓ ✓ ✓ ✓

Crop Manager ✓ ✓ ✓ ✓ ✓

Greenhouse MANAGEMENT ✓ ✓ ✓ ✓ ✓

- Mother tongue: Persian
- Foreign language: English
Levels: Speaking C1; Writing C2; Listening C2; Reading C2
- Communication skills: *Empathetic, trusty, succinct, Flexible*
- Managerial skills: *Productivity, Teamwork, Multitasking, Well organized, Project management, Problem solving, Goal setting, Making schedules, Leadership*
- Job-related skills: *Positive Attitude, Good Communication Skills, Self-Confidence, Ability to Accept and Learn From Criticism, Strong Work Ethic, Problem-Solving Skills, Time Management Abilities*

INTERESTS

- Organic Culture, Modern Greenhouses/Farms
- Bioreactors, Fermenters, Fertilizers, Medium
- Medical plants, Algae, Bacteria, Methanotroph
- Statistical programming
- Designing, Managing, Executive work

EDUCATION

B.SC. COURSE

2006 ~ 2010

Zanjan University

Field: Agricultural Engineering, Agronomy

Rank in group: 1rst

Supervisor: Professor Dr. Farid Shekari

Subject: *Effects of Laser Priming & Salinity Stress on Canola Characteristics Using Artificial Neural Network*

M.SC. COURSE

2010 ~ 2013

Shahed and Tehran Universities

Field: Agricultural Engineering, Agronomy

Rank in group: 1rst

Supervisor: Professor Dr. Hussain Besharati

Subject: *Effects of Vermicompost, Bio & Chemical Fertilizers on Qualitative & Quantitative Yield*

Ph.D. COURSE

2013 ~ 2019

Ferdowsi University of Mashhad

Field: Crop Physiology, Bioenergy

Rank in group: 1rst

Supervisors: Professor Dr. Mahdi Parsa

Subject: *Optimization of Cultivation Conditions & Medium Composition for the Improvement of Protein, Lipid, & Pigments Yields Potential of Edible Algae: Spirulina*

Bioenergy COURSE

2016 ~ 2018

Denmark Technical University (DTU), Copenhagen

Supervisors: Professor Dr. Irini Angelidaki and

Subject: *Optimisation of cultivation conditions and medium composition for the improvement of the production of high value added products from microalgae*

Member of

- ✓ Young Researchers Club
- ✓ National Elite Foundation
- ✓ Engineering Organization

WORK EXPERIENCE

- Supplement Formular, Purchase Agent, Package Designer, Logo Designer, Office Interior Designer, Researcher at Personage Care, California ~ 2022
- HR Manager, Translator, Web & Social Media Content Writer & Designer, Logo Designer, Office Interior Designer, Immigration Consultant at Study World, Toronto ~ 2021
- Translator, Designer, Sales Consultant at Personage Laser, Tehran ~ 2020- 2021
- HR Manager, Translator, Immigration Consultant, Office Interior Designer, at 1st Step, Tehran ~ 2020
- Garden Greenhouse, Canadian Hydroponic Greenhouse, & Mushroom Cultivation Hall Designer, Purchase Agent, R & D at Tarrier, Vancouver ~ 2019
- Professor Assistant at Ferdowsi & Shahed Uni. ~ Sep 2017-Jun 2019
- Organic, Hydroponic, Aquaponics, Programming Teacher ~ Sep 2017-Jun 2019
- Researcher at NordWaste, Denmark ~ May-Jul 2017
- Researcher at DTU, Denmark ~ Sep 2016-Jul 2017
- Researcher & Lab Operator at Khazra Nano Fertilization Co. ~ Sep 2013-Jun 2014; at Organic saffron Rey City Field ~ Sep 2010-Aug 2013; at Iran's Soil & Water Institute ~ Sep 2011-Sep 2012; at Khamse Taban Flour Factory ~ Jun-Sep 2010; at Zanjan Canola Field ~ Nov 2008-Aug 2010
- Translator, Photographer, Graphic Designer ~ since 2006

WORK AREAS

- Web/Content Writing, SEO, Media Management, SAS, SPSS, Mstat, ANN
- Package, Poster, Card, Logo, Certificate, Brochure, & Interior Designing
- Medical Plants, Bacteria, fungi, algae
- Hormonal Fertilizer, Organic Fertilizer (Vermicompost, extracts, PGPR, PSM)
- Biocatalysts in organic cultivation, common and vertical hydroponics, aquaponics, fermenters, and bioreactors
- Production & extraction of biomass, SCP, protein, carbohydrates, lipids picrocrocin, safranal, crocin, chlorophylls, carotenes, xanthophylls, phycobilins, anthocyanins, flavonoids
- Continuous monitoring of gas inputs; phytohormones, micro and macro input flow; water quality assessment; ventilation & aeration; time management
- Operator of quality assays: pH, EC, TDS, O₂, CO₂, light, temperature, nutrient composition, ingredients profile with GC-Mass, HPLC

JOURNAL PAPERS

- Goldani, M., Dolatkahi, A., Parsa, M., Vahdati, N., & Rasouli, Z. 2021. Investigation of improving the drought tolerance in persian petunia (*Petunia sp.*) by exogenous application of salicylic acid and gibberellic acid. *Acta Scientiarum Polonorum Hortorum Cultus*, 20 (1), 37-48.
- Rasouli, Z., Valverde-Pérez, B., D'Este, M., de Francisci, D., Angelidaki, I. 2018. Nutrient recovery from industrial wastewater as single cell protein by a co-culture of green microalgae and methanotrophs. *Biochemical Engineering Journal*. 134: 129-135.
- Rasouli, Z., Parsa, M., Ahmadzadeh, H. 2018. Features of *Spirulina platensis* cultivated under autotrophic and mixotrophic conditions. *Food Science and Technology*. 12 (4): 33-42.
- De Francisci, D., D'Este, M., Rasouli, Z., Angelidaki, I. Novel biorefinery concept for the extraction of lutein and proteins from microalga *Chlorella vulgaris* and generation of biogas from the residual biomass. Submitted to *Bioresource Technology*
- Goldani, M., Vahdati, N., Parsa, M., Dolatkahi, A., Rasouli, Z. Green landscape development under deficit irrigation conditions using salicylic and gibberellic acid in Persian petunia (*Petunia sp.*). Submitted to *Landscape and Ecological Engineering*
- Rasouli, Z., Parsa, M. 2019. Mixotrophic Cultures of *Spirulina platensis*: Potential Production of Biomass, Metabolites and Pigments. *Management System*. 8 (4): 30-40.
- Rasouli, Z., Parsa, M. 2019. Feasibility and Optimization of Pigments Production in *Spirulina platensis* Mixotrophic Culture. *Marine Biology*. 11 (3) :37-50.
- Rasouli Z, Poor Mohammadi S, Shekari F. 2012. Investigating the Effects of Laser Priming and Salinity Stress on Canola Characteristics Using ANN. *Agric. Environ. Sci.*, 12 (10): 1395-1405.
- Poormazaheri H, Rasouli Z, Karimi E, Salehi GR, Tabatabaei M, Maali-Amiri R, MouSivand M. 2013. Identification and characterization of enzymatic activities of some native fungi isolated from composting process. *Modern Genetics Journal*. 8: 91-98.
- Rasouli Z, Maleki Farahani S, Besharati H. 2013. Some Vegetative Characteristics of Saffron (*Crocus sativus* L.) as affected by various fertilizers. *Iranian Journal of Soil Research*. 27 (1): 35-46.
- Rasouli Z, Maleki Farahani S, Besharati H. 2014. Investigation of changes in the saffron Underground organs in the application of organic, biological and chemical fertilizers. *Soil Research*. 28 (2): 295-312.
- Rasouli Z, Maleki Farahani S, Besharati H. 2015. Saffron (*Crocus sativus* L.) yield as affected by different fertilizing systems. *Iranian Journal of Medicinal and Aromatic Plants*, 31 (2): 204-219.

CONFERENCE PAPERS

- Rasouli Z. Workshop on Enhanced Biogas Production & Recent Innovations. Technical University of Denmark and Ege University, 17-19 March 2021.
- Rasouli Z., B. Valverde-Pérez, M. D'Este, D. de Francisci, I. Angelidaki. 2017. Co-cultivation of Green Microalgae and Methanotrophic Bacteria for Single Cell Protein Production from Wastewater. in *Book of Abstracts Sustain 2017.*, Sustain DTU, Denmark, 06/12/2017.
- Valverde Pérez, B, Zachariae, AZ, Kjeldgaard, AF, Rasouli, Z, Xing, W, Palomo, A, D'Este, M, De Francisci, D, Pape, ML, Smets, BF & Angelidaki, I 2018, Valorisation of Effluents from Anaerobic Digestion as Single Cell Protein – Focus on Safe Gas Supply (Oral). 6th International Conference on Sustainable Solid Waste Management, Naxos Island, Greece, 13/06/2018 - 16/06/2018.
- Rasouli Z, Poor Mohammadi S, Shekari F. Evaluate the performance of the neural network to predict the Canola characteristics of priming under laser and salinity treatments (poster). National Conference on Modern Agricultural Sciences and Technologies, Zanjan Uni., September 10-12th, 2011.
- Rasouli Z, Maleki Farahani S, Besharati H. Examine the absorption spectrum of phytochemical characteristics under the influence of variable fertilizers in saffron (Oral). National Conference on Advances in agricultural Advances, Young Researchers Club of Ghods, November 15-16th, 2011.
- Rasouli Z, Maleki Farahani S, Besharati H. The effects of chemical and non-chemical fertilizers on chemical elements of saffron leaves. National Conference on Environment and Plant Production, Damghan uni., October 6-7th, 2012.
- Rasouli Z, Maleki Farahani S, Besharati H. Comparison of Biological fertilizers and vermicompost on Production efficiency and yield of saffron. National Conference on Environment and Plant Production, Damghan uni., October 6-7th, 2012.
- Rasouli Z, Maleki Farahani S, Besharati H. The effect of chemical and non-chemical fertilizers in the vegetative growth stage on yield and yield components of saffron in Rey climatic conditions (poster). National Conference on Environment and Plant Production, Damghan uni., October 6-7th, 2012.
- Rasouli Z, Baghai N. Evaluate the effectiveness of nano-iron medium in response to salinity and borage cultivation (Oral). National Conference on Agriculture and Sustainable Development, Hamedan Uni., February 28th, 2012.
- Rasouli Z, Baghai N. Analysis of the iron role in quantity and quality of borage growth in hydroponic medium (Oral). National Conference on Agriculture and Sustainable Development, Hamedan Uni., February 28th, 2012.
- Rasouli Z, Baghai N. Effects of nano-iron and salinity treatments and their interactions on the level of borage pigments (Oral). National Conference on Agriculture and Sustainable Development, February 28th, 2012.