



# Assoc. Prof. Dr. Roozbeh VAZIRI

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kyrenia, 99300, Cyprus

## LINKS

Researchgate:  
<https://www.researchgate.net/profile/Roozbeh-Vaziri>

Linkedin:  
<https://www.linkedin.com/in/roozbeh-vaziri-30450b202/?originalSubdo...>

## SKILLS

English Language

MATLAB

solid work

Artificial neural networks and  
machine learning

SPSS Statistics

AutoCAD,

HYSYS

## ABOUT ME

Highly committed, dedicated and dynamic lecturer and researcher with over a decade of experience in higher education and industry. Strong philosophy of teaching, and knowledge of many different methods to motivate students to develop their expertise in specific areas. Received 90% of satisfaction rating from students for each of those years. Distinguished record of publication in academic journals all over the world.

## WORK EXPERIENCE

### Head of Department of Mechatronics Engineering Cyprus Science University / Kyrenia / Sep 2016- Present

- Developed strategic and operational plans for the expansion of the department by 80% efficiency
- Prepared the aims, objectives, program learning outcomes and total Course-Program LOs Relationship of department
- Contributed in receiving accreditation for department from higher education system
- Served as a student advisor, helping students to more define and follow their academic paths by the 90% of success
- Cooperated with an intra-departmental team to develop new learning materials for engineering students, including interactive online assignments that improved student engagement by 50%
- Supervised of thesis of master students and projects of bachelor students
- Led and initiated collaborative scientific projects Between CSU University and the other universities in the world

### The Member of Senate CSU University / Kyrenia / Sep 2017 - Present

- Participated in regulating and guiding the university's academic work in teaching, research, and the academic aspects of enterprise that led to 50% in efficiency
- Considered issues with an awareness of university strategy and a dedication to its advancement and achievement
- Maintained standards in all of the university's academic activities and enhanced the quality by 35%

### The Member of Faculty Board of Engineering CSU University / kyrenia / Sep 2017 - Present

- Designed all syllabuses, study courses, examinations, division of grants and other matters that concern the departments of the faculty
- Established the master plan for the department of engineering in accordance with the university's goal and cut down paperwork by 75%
- Managed budget to support researches and equip laboratories of different departments and annual increase of 15%

### The Member of Accreditation Committee CSU University / Kyrenia / Sep 2017 -

#### Present

- Held a key role in receiving YÖDAK Accreditation (Higher Education of Cyprus) for Department of Mechatronics Engineering

## LANGUAGES

English

Turkish

Persian

Arabic

## COURSES

Fluid mechanics  
CSU University / Present

Thermodynamics Fluid mechanics  
CSU university / Present

Material Science  
CSU university / Present

Heat transfer  
CSU university / Present

Computer aided design  
CSU university / Present

Dynamics  
CSU university / Present

**Sensors and Actuators**  
Present

Strength of Materials  
CSU university / Present

Manufacturing process  
CSU university / Present

Electromechanical energy  
conversion  
CSU university / Present

Renewable energy  
CSU university / Present

- One of the key team members of ABET and MÜDEK Accreditation Committee of Faculty of Engineering

### Advisor of the president of university

**Eastern Mediterranean University / Famagusta / Sep 2012 - Sep 2016**

- Coordinated the Rector's affairs
- Provided the MOU between EMU university and the universities of IRAN
- Assisted students and preparing the appropriate opportunities for students to express their demands to the university

### Assistant of international and promotion office

**EMU University / Famagusta / Sep 2011 - Sep 2012**

- Provided opportunities to promote the university to take 30% students more each year
- Created occasions to collaborate with the other universities around the world

### The member of accreditation team of the mechanical engineering department (ABET)

**EMU University / Famagusta / Sep 2012 - Sep 2016**

- Prepared annual assessment reports of department of mechanical engineering
- Responsible for preparation of periodic ABET experts' visits

### Teaching and Research Assistant

**Eastern Mediterranean University / Famagusta / Sep 2008 - Sep 2012**

- Assisted the instructor in the preparation of course materials, the conduct of tutorial and review classes, examinations, etc.
- Fully responsible for teaching and assessing the practical sessions of the course conducted in the laboratories by efficiency enhancement of 40%

## EDUCATION

### Ph.D.

Eastern Mediterranean University / FAMAGUSTA / 2017

### Ph.D. of Mechanical Engineering

Thesis title: Experimental Study on Perforated Glazed Solar Air Heaters  
I started my research based academic years on the project of Perforated Glazed Solar Air Heaters. I invented a new type of solar air heater for the first time in the world.

### Master of Science

Eastern Mediterranean University / FAMAGUSTA / 2008

### Master of Science in Mechanical Engineering

Thesis title: Experimental Study on Pressure Drops in Particle-Liquid Two-Phase Flow and Porous Media

### Bachelor of Science

Azad University Tehran / TEHRAN / 2006

### Bachelor of Science in Chemical Engineering (Design of Oil Industries Processes)

Thesis title: Experimental Study on Synthesis of Polystyrene Sulfonic Acid

## PUBLICATIONS

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- AS El-Shafay, A. Abidi, **R. Vaziri**, A. Karimipour, "Numerical simulation and geometric optimization of a desalination system using solar energy using two-phase mixing method with alumina nanoparticles", *Case Studies in Thermal Engineering*, Volume 59, Pages 104560, **2024**, **Impact Factor: 6.4**
- **R. Vaziri**, "Solar Energy in Kurdistan, Iraq: A Comprehensive Review of Economic and Environmental Implications", *International Journal of Kurdish Studies*, Volume 10 Issue 1, 20 March **2024**.
- S. Bhattacharyya, D. K. Vishwakarma, K. Dey, H. Yasmin, **R. Vaziri**, M. Sharifpur, "Numerical study on thermal-hydraulic characteristics in a inclined mini-channel for solar PV panel cooling with external magnetic field and magnetic nanofluid", *Journal of Magnetism and Magnetic Materials*, Volume 590, 15 January **2024**, 171626. **Impact Factor: 2.7**
- J.H. Kwon, M.K Ji, R. Kumar, Md. M. Islam, M. A. Khan, Y.K. Park, K. K. Yadav, **R. Vaziri**, J.H. Hwang, W. H. Lee, Y.T. Ahn & B.H. Jeon, "Recent advancement in enhanced soil flushing for remediation of petroleum hydrocarbon-contaminated soil: a state-of-the-art review", *Reviews in Environmental Science and Bio/Technology* volume 22, pages 679–714 (**2023**). **Impact Factor: 14.4**
- **R. Vaziri**, A. A. Oladipo, M. Sharifpur, R. Taher, M. H. Ahmadi, A. Issakhov, "Efficiency Enhancement in Double-Pass Perforated Glazed Solar Air Heaters with Porous Beds: Taguchi-Artificial Neural Network Optimization and Cost-Benefit Analysis". *Sustainability*, 13(21), 21 October **2021**, **Impact Factor: 3.251**
- Y. Khetib, A. Alahmadi, A. Alzaed, S. M. Sajadi, **R. Vaziri**, M. Sharifpur, "Using neural network and RSM to evaluate improvement in thermal conductivity of nanodiamond-iron oxide/antifreeze". *Chemical Engineering Communications*. **2021**, Pages 1-11. **Impact Factor: 2.586**
- Y. Khetib, A. Alahmadi, A. Alzaed, S. M. Sajadi, **R. Vaziri**, M. Sharifpur, "Sensitivity of pin-fin configuration to pin diameter: heat transfer enhancement". *Chemical Engineering Communications*. **2021**, Pages 1-15. **Impact Factor: 2.586**
- A. A. Oladipo, **R. Vaziri**, Z. M. Mizwari, A. O. Ifebajo, "In<sub>2</sub>S<sub>3</sub>/AgI<sub>2</sub>O<sub>3</sub> photoanode coupled I<sup>-</sup>/I<sub>3</sub><sup>-</sup> cyclic redox system for solar-electrocatalytic recovery of H<sub>2</sub> and S from toxic H<sub>2</sub>S". *International Journal of Hydrogen Energy*. Volume 45, Issue 32, 11 June **2020**, Pages 15831-15840. **Impact Factor: 4.5**
- S.L. Azarmi, **R. Vaziri**, M.N. Cizreliogullari, "Comparison of Waste Generation Rate in Different Size of Hotels (Case Study of North Cyprus)", *Business & Management Studies: An International Journal*, 8(4), **2020**, Pages 701–722.
- S.L. Azarmi, A.A Oladipo, **R. Vaziri**, H. Alipour. "Comparative modelling and artificial neural network inspired prediction of waste generation rates of hospitality industry: The case of North Cyprus". *Journal of Sustainability*, Volume 10, **2018**, Page 2965. **Impact factor: 3.251**
- A.A. Oladipo, **R. Vaziri**, M.A. Abureesh. "Highly robust AgI<sub>2</sub>O<sub>3</sub>/MIL-53 (Fe) nanohybrid composites for degradation of organophosphorus pesticides in single and binary systems: Application of artificial neural networks modelling". *Journal of the Taiwan Institute of Chemical Engineers*, 83, **2018**, 133–142: **Impact Factor: 5.477**
- **R. Vaziri**, M. Ilkan and F. Egelioglu. "Experimental Performance of Perforated Glazed Solar Air Heaters and Unglazed Transpired Solar Air Heater". *Journal of Solar Energy*, Volume 119, September **2015**, Pages 251–260. **Impact Factor: 7.188**
- H.S. Aybar, M. Sharifpur, **R. Vaziri**. "Experimental Investigation of Pressure Drop in one Phase Flow, Particle-Liquid Two-Phase Flow, and Porous Media Consisting of the Same Particle Size". *Defect and Diffusion Forum*, Volumes 283-286, **2009**, Pages: 599-603.

## ORAL PRESENTATIONS AND POSTERS

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- A.A. Oladipo, **R. Vaziri**, A.O. Ifebajo. "Solar-electrocatalytic production of H<sub>2</sub> and S from toxic H<sub>2</sub>S by In<sub>2</sub>S<sub>3</sub>/AgI<sub>2</sub>O<sub>3</sub> photoanode coupled I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Cyclic redox system". 16th International Conference on Clean Energy (ICCE-2018) 9-11 May **2018**, Famagusta, N. Cyprus: Oral Presentation
- **R. Vaziri**, F. Egelioglu. "Experimental Investigation on Thermal Performance of Perforated Glazed Solar Air Heaters Having Different Inner Collector Light Colors". International Conference on Viable Energy Trends (InVEnt-**2016**), Sharjah, UAE: Oral Presentation
- H.S. Aybar, M. Sharifpur, **R. Vaziri**. "Pressure Gradient Prediction in Particle- Liquid TwoPhase Flow". ASME -IMECE**2008** Conference, USA: Poster Presentation&Published
- H.S. Aybar, M. Sharifpur, **R. Vaziri**. "Experimental Investigation of Pressure Drop in one Phase Flow, Particle-Liquid Two-Phase Flow, and Porous Media Consisting of the Same Particle Size". DSL**2008** Conference, Spain.: Oral Presentation

## **BOOKS & BOOK CHAPTERS**

- R. Vaziri, S.A.Azami, "Solar Energy and Sustainable Tourism:Best Practices, Innovations, and Future Trends", Gazi Kitabevi Tic. Ltd. October, **2023**.
- R. Vaziri, S.A.Azami," Effective Strategies For Managing and Sustaining Innovation", Gazi Kitabevi Tic. Ltd. October, **2023**.
- A.A. Oladipo, **R. Vaziri**, A.O. Ifebajo." Green Adsorbents for Removal of Antibiotics, Pesticides and Endocrine Disruptors".Green Adsorbents for Pollutant Removal, innovative materials.September 20, **2018**.Springer.
- S. L. Azami, **R. Vaziri**, A. Kole, A. A. Oladipo, A. Bulend Goksel." Environmental Impact of the Ugly Face of Tourism: Pollution and Management Perspectives". **2018**.

## **AWARDS**

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- Receiving award for project which granted by UNESCO for: "Recovery of Valuable Materials from Waste Municipal and Tourism Industry for Bioenergy Processing and Semi-conductors Fabrication". Dr. Roozbeh Vaziri, Dr.Soolmaz Azami Dr. Akeem Oladipo
- Receiving award from President of EMU university due to number of publications and fruitful administrative affairs