

**ACADEMIC  
CURRICULUM VITAE**

**1. Name - Surname: Mohammad Karimzadeh Kolanroudi**

**2. Title: Assistant Professor**

**3. Educational Background:**

<b>Degree</b>	<b>Department/Program</b>	<b>University</b>	<b>Year</b>
Bachelor's	Mechanical Engineering	Islamic Azad University	2014
Master's	Mechanical Engineering	Eastern Mediterranean University	2017
PhD	Mechanical Engineering	Eastern Mediterranean University	2022

**4. Master's / PhD Thesis**

**4.1. Master's Thesis Title and Thesis Advisor(s):**

**Thesis Title:** Design and optimization of linear concentrating photovoltaic system for combined power, heat and desalination

**Supervisor: Prof. Dr. Ugur Atikol**

**4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s):**

**Thesis Title:** Experimental investigation of low concentrated photovoltaic (LCPV) system with the application of mirrors

**Supervisor: Prof. Dr. Mustafa Ilkan**

**5. Academic Titles:**

Date of Assistant Professorship: **15.09.2023**

Date of Associate Professorship: -----

Date of Professorship: -----

**6. Supervised Master's and PhD Theses:**

**6.1. Master's Theses**

2 students- Continuing

## 6.2. PhD Theses-----

## 7. Publications

## 7.1. Articles Published in International Peer-Reviewed Journals (SCI,SSCI, AHCI, ESCI, Scopus)

1. **Kolamroudi, M. K.**, Ilkan, M., Egelioglu, F., & Safaei, B. (2023). Feature selection by ant colony optimization and experimental assessment analysis of PV panel by reflection of mirrors perpendicularly. *Renewable Energy*, 218, 119238. [doi.org/10.1016/j.renene.2023.119238](https://doi.org/10.1016/j.renene.2023.119238) (IF:8.7, Q1)
2. Safaei, B., Erdem, S., **Karimzadeh Kolamroudi, M.**, & Arman, S. (2023). State-of-the-art review of energy harvesting applications by using thermoelectric generators. *Mechanics of Advanced Materials and Structures*, 1-33. [doi.org/10.1080/15376494.2023.2217660](https://doi.org/10.1080/15376494.2023.2217660) (IF: 3.338, Q2)
3. **Kolamroudi, M. K.**, Ilkan, M., Egelioglu, F., & Safaei, B. (2023). A comparative study of LCPV by mirror reflection against other systems: Recent techniques, implications, and performances. *Solar Energy*, 250, 70-90. <https://doi.org/10.1016/j.solener.2022.12.017> (IF: 7.188, Q2)
4. Gao, Y., Moshayedi, A. J., Sanatizadeh, E., Behfarnia, P., **Kolamroudi, M. K.**, Semirumi, D. T., & Yusof, M. Y. P. M. (2023). Analysis of amorphous structure with polycaprolactone-hydroxyapatite nanoparticles fabricated by 3D bioprinter technique for bone tissue engineering. *Ceramics International*. <https://doi.org/10.1016/j.ceramint.2023.01.203> (IF: 5.532, Q1)
5. **Kolamroudi, M. K.**, Ilkan, M., Egelioglu, F., & Safaei, B. (2022). Maximization of the output power of low concentrating photovoltaic systems by the application of reflecting mirrors. *Renewable Energy*, 189, 822-835. [doi.org/10.1016/j.renene.2022.03.031](https://doi.org/10.1016/j.renene.2022.03.031) (IF: 8.634, Q1)
6. **Kolamroudi, M. K.**, Asmael, M., Ilkan, M., & Kordani, N. (2021). Developments on Electron Beam Melting (EBM) of Ti-6Al-4V: A Review. *Transactions of the Indian Institute of Metals*, 74(4), 783-790. [doi.org/10.1007/s12666-021-02230-9](https://doi.org/10.1007/s12666-021-02230-9) (IF: 1.391, Q3)
7. Karbasian, M., Eftekhari, S. A., **Kolamroudi, M. K.**, Moghadas, B. K., Nasri, P., Jasemi, A., ... & Khandan, A. (2021). Therapy with new generation of biodegradable and bioconjugate 3D printed artificial gastrointestinal lumen. *Iranian Journal of Basic Medical Sciences*, 24(3), 391. DOI: [10.22038/ijbms.2021.47925.11013](https://doi.org/10.22038/ijbms.2021.47925.11013) (IF:2.532, Q3)
8. Ozada, N., Yazdi, S. G., Khandan, A., & **Karimzadeh, M.** (2018). A brief review of reverse shoulder prosthesis: arthroplasty, complications, revisions, and development. *Trauma Monthly*, 23(3), e58163-e58163. DOI: 10.5812/TRAUMAMON.58163.

## 7.2. Articles Published in Other International Peer-Reviewed Journals

## 7.3. Papers Presented at International Scientific Conferences and Published in Conference Proceedings

1. Safaei, B., **Kolamroudi, M. K.**, & Kotrasova, K. (2023, December). Effect of face sheet thickness on bending behavior of composite sandwich beam. In *AIP Conference Proceedings* (Vol. 2950, No. 1). AIP Publishing. <https://doi.org/10.1063/5.0180733>

2. Onyibo, E. C., Tabak, A., **Kolamroudi, M. K.**, Kotrasova, K., & Safaei, B. (2023, December). Fatigue and static loading on composite beam of aluminum alloy and structural steel sheet. In AIP Conference Proceedings (Vol. 2950, No. 1). AIP Publishing. <https://doi.org/10.1063/5.0180730>
3. **Kolamroudi, M. K.**, Ilkan, M., Egelioglu, F., & Safaei, B. (2022, July). Effect of Increasing Solar Radiation Reflected with Mirrors Perpendicularly on the Power Output of Photovoltaic System with Cooling. In IOP Conference Series: Earth and Environmental Science (Vol. 1050, No. 1, p. 012002). IOP Publishing. DOI:10.1088/1755-1315/1050/1/012002.

#### 7.4. National/international Books or Book Chapters

#### 7.5. Articles Published in National Peer-Reviewed Journals

### 8. Art and Design Activities

### 9. Projects

### 10. Administrative Responsibilities:

Coordinator of Mechatronic Department

### 11. Memberships in Scientific and Professional Organizations

- Member of The World Society of Sustainable Energy Technologies, WSSET, 2022
- Member of The Research Center for Science, Technology and Engineering (BILTEM), Near East University, Nicosia 99138, North Cyprus, Mersin 10, Turkey.

### 12. Awards

### 13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022					
2022 - 2023	Fall	Internal Combustion Engine Design	3		-
	Fall	Vehicle Dynamics	3		-
	Fall	Introduction of Capstone Design	4		-
	Fall	Vehicle Production Processes and Systems	3		-

	<b>Fall</b>	Electronic Systems in Vehicles	3		-
	<b>Fall</b>	Electric and Hybrids Vehicles	3		-
	<b>Fall</b>	Advanced Photovoltaics, Fuel Cells and Batteries	3-MASTER		-
<b>2022-2023</b>	<b>Spring</b>	Vehicle Component and Body Design	3		-
	<b>Spring</b>	Electric and Hybrids Vehicles	3		-
	<b>Spring</b>	Introduction of Capstone Design-MCT410	4		-
	<b>Spring</b>	Introduction of Capstone Design-AUE491	4		-
	<b>Spring</b>	Machine Element	4		-