

CURRICULUM VITAE

Amirsaman Zare Andalani



Personal Information:

Date of Birth: Oct.10, 1989

Place of Birth: Isfahan, Iran

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Education

M.Sc. in Electrical Engineering (Fields and Waves)

K.N. Toosi University of Technology

2021-2024

B.Sc in Electrical Engineering (Telecommunications)

IAU of Isfahan

2008-2012

Scientific Experiences

Telecom Bureau in Tehran/Iran

Telecommunications Engineer as the head of Antenna design group.

2021-2023

Optical Communication Lab., Faculty of Electrical Engineering, K.N. Toosi University of Technology

Researcher under supervision of Prof. Nosrat Granpayeh.

2021-until now

Research Interests

Computational Electromagnetic,

Electromagnetics of Complex Media,

Nonlinear Materials,

THz antenna array design,

Microwave antenna array design and manufacture,

Terahertz devices and Laser,

Quantum Physics,

Nano-Optics, Nano-Photonics,

Language Certificates

- English (C1-advanced) Isfahan, Iran 2013
- German (C1-advanced) Berlin/Germany
Akademie für Fremdsprachen GmbH: Sprachschule in Berlin 2015
- English (Academic IELTS) Cambridge, 2025

Software Abilities

- MATLAB
- CST
- COMSOL
- LUMERICAL
- FEKO
- HFSS

Publications

Journal Articles

- [1] A.S. Zare, “Low SLL Pattern of Elliptical Aperture Array Based on Innovative Optimization Method,” Prog. Electromag. Research M, vol. 97, pp. 119-131, 2020.
- [2] A.S. Zare, “Application of Ant Colony Optimization Algorithm to Pattern Synthesis of Uniform Circular Antenna Array,” Appl. Comput. Electromagn. Soc ACES, vol. 30, pp. 810-818, 2015.
- [3] A.S. Zare, “Elliptical antenna array pattern synthesis with fixed side lobe level and suitable main beam width by genetic algorithm,” Majlesi Journal of Telecommunications Devices vol. 1, issue 4, 2012.
- [4] Amirsaman Zare Andalani; Naghmeh Sadat Moayedi, and Nosrat Granpayeh, “Concentric Nano Elliptical Apertures Array Tip for Intensity Enhancement in Scanning Near-Field Optical Microscopy for Imaging,” IEEE TechRxiv. Preprint, 2023.
- [5] Zare Andalani, Amirsaman; Moayedi, Naghmeh Sadat; Granpayeh, Nosrat. “Microwave to Optical Conversion by the ellipsoidal WGM LiNbO3 resonator embeded in elliptical Microwave Cavity,” Revised, Applied Physics B, 2024.
- [6] A.S. Zare Andalani, N. Sadat Moayedi, and N. Granpayeh, “Innovative designed concentric nano elliptical apertures array tip for intensity enhancement, applied in scanning near-field optical microscopy for imaging,” Prepared for Submission.

Conference Articles

- [1] A. S. Zare Andalani and N. Granpayeh, “Pattern Scanning of THz Elliptical Apertures Antenna Array Design for Intensity Enhancement in Spectroscopy,” 2022 6th International Conference on Millimeter-Wave and Terahertz Technologies (MMWaTT-2022), Tehran, Iran, 2022.

- [2] A.S. Zare Andalani, Sadjad Zare Andalani, Naghmeh Sadat Moayedi, and Nosrat Grnpayeh, “Two-Dimensional Slot Array on a Nonplanar Gold film Metasurface, Designed for Melanoma Skin Cancer Detection,” 11th International Symposium on Telecommunications (IST), Tehran, Iran, Islamic Republic of, 2024.

Academic Experiences

Review

American Journal of Electromagnetics and Applications	NY, USA
Science Publishing Group of America	
Reviewer	2015–2017
International Journal of Wireless Communications and Mobile Computing	NY, USA
Science Publishing Group of America	
Reviewer	2015–2017
Applied Computational Electromagnetics Society	Golden, Colorado, USA
ACES	
Invited Reviewer	2015–2015

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