

CURRICULUM VITAE

(Update: Sep 2025)

NAME: DAVOOD ZARIFI

Associate Professor, University of Kashan, Kashan, Iran

Date & Place of birth: 1987, Kashan, Iran.

Tel: +487191303748

Email: zarifi@kashanu.ac.ir

FIELDS OF INTEREST

- Gap Waveguide Technology
- Millimeter Wave Antennas and Microwave Components
- Electromagnetics Complex Media
- Inverse Scattering Problems
- Metamaterials
- Antenna Design

EDUCATION

- Visiting Student, **Chalmers University of Technology**, Gothenburg, Sweden, 2015

Course Title: "Gap Waveguide Technology" Supervisor: **Prof. P. S. Kildal**

- PhD., **Iran University of Science and Technology**, Tehran, Iran (Sep.2011-Dec. 2015), GPA= 18.1 out of 20.

Thesis Title: "Analysis of Inverse Scattering Problems Involving Planar Complex and Metamaterial Structures Using the State Space Method".

Supervisor: **Dr. M. Soleimani**

- M.Sc., **Iran University of Science and Technology**, Tehran, Iran (Sep.2009- July.2011), GPA= 18 out of 20.

Thesis Title: "Parameter Retrieval of Chiral Metamaterials and design of novel structures".

Supervisor: **Dr. M. Soleimani**

- B.Sc., **University of Kashan**, Kashan, Iran (2005-2009), GPA = 18.1 out of 20.

MAIN COURSES (M.Sc)

- Design of high frequency circuits
- Antenna 2
- Radar systems
- Microwave 2
- Advanced electromagnetics
- Advanced engineering mathematics
- Numerical methods in electromagnetics
- Introduction to Satellite Design

MAIN COURSES (PhD)

- Electromagnetic waves in complex media
- Scattering of electromagnetic waves
- Photonic
- Microwave measurement
- Radio Wave Propagation

PUBLICATIONS

Journal papers:

1. A. Farahbakhsh, D. Zarifi and M. Mrozowski, "A Ku-Band Mechanically Reconfigurable Slot Array Antenna Using Gap Waveguide Technology," *IEEE Transactions on Antennas and Propagation*, doi: 10.1109/TAP.2025.3577764.
2. D. Zarifi, A. Farahbakhsh, M. Mrozowski, "A full Ka band gap waveguide based slot array antenna with 45° slant polarization," *Sci Rep*, vol. 15, no. 1, pp. 26805, Sep. 2025.
3. A. Farahbakhsh, D. Zarifi, A. Vosoogh, C. Bencivenni and M. Mrozowski, "A Wideband 8 × 8 Slot Array Antenna Using Gap Waveguide MLW Coaxial Line Technology for mmWave Applications," in *IEEE Antennas and Wireless Propagation Letters*, vol. 24, no. 7, pp. 1974-1978, July 2025.
4. D. Zarifi, A. Farahbakhsh and M. Mrozowski, "Design and Fabrication of an Extremely Broadband Waveguide Twist Based on Gielis Curves," in *IEEE Transactions on Microwave Theory and Techniques*, vol. 73, no. 8, pp. 4709-4716, Aug. 2025.

5. A. Farahbakhsh, D. Zarifi and M. Mrozowski, "Design of mmWave Broadband Rotary Joint and 360° Beam-Steering Rotenna Based on Gap Waveguide Technology," in *IEEE Transactions on Antennas and Propagation*, vol. 73, no. 7, pp. 4373-4383, July 2025.
6. D Zarifi, M Aslinezhad, "Design of an extremely wideband planar dipole antenna for Sub-3 GHz applications", *Int. J. Electron. Commun.*, vol. 195, 155774, 2025.
7. D. Zarifi, A. Farahbakhsh, M. Mrozowski, "An All-Metal Broadband Low SLL slot array antenna for use in 5G Sub-6 GHz networks," *Sci Rep*, vol. 15, pp. 6004, 2025.
8. R. Askarzadeh, A. Farahbakhsh, D. Zarifi and A. U. Zaman, "Wideband High-Efficiency Slot Array Antenna Based on Gap Waveguide Single-Layer Feeding Network," in *IEEE Antennas and Wireless Propagation Letters*, vol. 24, no. 2, pp. 519-523, Feb. 2025.
9. D. Zarifi, A. Farahbakhsh, M. Mrozowski, "An ultrawideband monopulse feed with slant polarization for tracking radar systems," *Sci Rep*, vol. 15, pp. 3593, 2025.
10. A. J. Alazemi, D. Zarifi, A. Farahbakhsh, "An 8–18 GHz ultrawideband gap waveguide folded bandpass filter for radar applications", *Int. J. Electron. Commun.* 191, 155692, 2025.
11. A. Farahbakhsh, D. Zarifi and A. Uz Zaman, "D-Band High-Gain Planer Slot Array Antenna Using Gap Waveguide Technology," in *IEEE Transactions on Antennas and Propagation*, vol. 73, no. 1, pp. 594-599, Jan. 2025.
12. D. Zarifi, Saber, A. S. & Zaman, A. U. A high-gain gap waveguide-based 16× 16 slot antenna array with low sidelobe level for mmwave applications. *Sci. Reports* 14, 31458, 2024.
13. A. Kalantari Khandani, A. Farahbakhsh, D. Zarifi and A. Uz Zaman, "Millimeter Wave Wideband and Low-Loss Compact Power Divider Based on Gap Waveguide: For Use in Wideband Antenna Array System," in *IEEE Access*, vol. 12, pp. 116478-116488, 2024
14. A. Farahbakhsh, D. Zarifi, M. Mrozowski, "A gap waveguide-based mechanically reconfigurable phase shifter for high-power Ku-band applications," *Sci Rep*, vol. 14, pp. 17358, 2024.
15. M. Rabbanifard, D. Zarifi, A. Farahbakhsh and M. Mrozowski, "Design of Compact and Wideband Groove Gap Waveguide-Based Directional Couplers," in *IEEE Access*, vol. 12, pp. 86346-86354, 2024
16. D. Zarifi, A. Farahbakhsh and M. Mrozowski, "Improved Bandwidth of Microstrip Wide-Slot Antenna Using Gielis Curves," in *IEEE Access*, vol. 12, pp. 74777-74783, 2024.
17. A. S. Saber, D. Zarifi, A. J. Alazemi, "A broadband 3-way power divider based on gap waveguide for Ka-band applications," *AEU-International Journal of Electronics and Communications*, vol. 175, pp. 155108, 2024.

18. R. Aliakbari and D. Zarifi, "Design of a wideband vertically polarized omnidirectional antenna for covering 960–1250 MHz frequency band," *AEU-International Journal of Electronics and Communications*, vol. 171, 2023.
19. A. Alazemi, D. Zarifi and A. Farahbakhsh, "A Gap Waveguide-Fed Dual-Circularly Polarized Antenna Array for K-Band Applications", in *AEU-International Journal of Electronics and Communications*, vol. 170, pp. 154855, 2023.
20. A. J. Alazemi, A. Farahbakhsh and D. Zarifi, "A Wideband Gap Waveguide-Fed 16-Element Circularly Polarized Patch Antenna Array," in *IEEE Access*, vol. 11, pp. 94937-94944, 2023.
21. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A Millimeter-Wave Six-Port Junction Based on Ridge Gap Waveguide," in *IEEE Access*, vol. 11, pp. 68699-68705, 2023, doi: 10.1109/ACCESS.2023.3292448.
22. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A Gap Waveguide-Based D-Band Slot Array Antenna with Interdigital Feed Network," *IEEE Transactions on Antennas and Propagation*, Early Access, June. 2023.
23. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "Design of a dual-CP gap waveguide fed aperture array antenna," *IET Microwave and Antenna Propagation*, June. 2023.
24. P. Enayati, D. Zarifi, "Design of a Wideband Coaxial-to-Rectangular Waveguide Transition Based on Supershapes," *IEEE Access*, vol. 10, pp. 121924-121929, 2022.
25. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "Design and development of broadband gap waveguide-based 0-dB couplers for Ka-band applications," *IET Microwaves, Antennas & Propagation*, vol. 16, no. 11, pp. 718-724, 2022.
26. M. J Chashmi, P. Rezaei, A. H. Haghparsat, D. Zarifi, "Dual circular polarization 2× 2 slot array antenna based on printed ridge gap waveguide technology in Ka band," *AEU-International Journal of Electronics and Communications*, vol. 157, 154433, 2022.
27. M. H. Gandomi, D Zarifi, "Design and Development of Ultra-Wideband 3-D Monopole Antennas Based on Supercurves," *IEEE Transactions on Antennas and Propagation*, vol. 69, no. 12, pp. 8214-8220, 2021.
28. M. Nasri, D Zarifi, "A Broadband Gap Waveguide-Based Magic-T Junction for Millimeter-Wave Applications," *Journal of Infrared, Millimeter, and Terahertz Waves*, vol. 42, no. 7, pp. 793-801, 2021.
29. A. J. Alazemi, D Zarifi, A Farahbakhsh, "A broadband contactless gap waveguide microwave switch for X-and Ku-bands applications," *AEU-International Journal of Electronics and Communications*, vol. 139, 2021.

30. A. J. Alazemi, A Farahbakhsh, D Zarifi, "A 12-20 GHz Wideband High-Power SP2T Switch Based on Gap Waveguide Technology," *Sensors*, vol. 21 no. 16, 2021.
31. A. Tayebi, D Zarifi, "On the Miniaturization of Microstrip Ring-Hybrid Couplers Using Gielis Supershapes," *IETE Journal of Research*, 2020.
32. A. Farahbakhsh and D. Zarifi, "Miniaturization of patch antennas by curved edges," *AEU: International Journal of Electronics and Communications*, vol. 117, 2020.
33. D. Zarifi and A. Ahmadi, "A broadband slant polarized cavity backed microstrip-fed wide-slot antenna array," *International Journal of RF and Microwave Computer-Aided Engineering*, 2020.
34. M. Hamedani, H. Oraizi, D. Zarifi and A. U. Zaman, "Planar H-plane Horn Antenna Based on Groove Gap Waveguide Technology," *IEEE Antenna and Wireless Propagation Letter*, vol. 19, no. 2, pp. 302-306, 2020.
35. A. Tayebi, D. Zarifi and M. Nasri, "Design of X-band Moreno cross-guide coupler based on superformula curves," *International Journal of RF and Microwave Computer-Aided Engineering*, 2020.
36. M. Nasri, D. Zarifi and A. U. Zaman, "A Wideband 3-dB Directional Coupler in GGW for Use in V-Band Communication Systems," *IEEE Access*, vol. 8, pp. 17819-17823, 2020.
37. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "Design and Fabrication of Wideband Millimeter-wave Directional Couplers with Different Coupling Factors Based on Gap Waveguide Technology," *IEEE Access*, vol. 7, pp. 88822-88829, 2019.
38. D. Zarifi, A. Shater, A. Ashrafi and M. Nasri, "Design of Ku-Band diplexer based on gap waveguide technology," *International Journal of RF and Microwave Computer-Aided Engineering*, 2018.
39. A. Farahbakhsh, D. Zarifi, and A. U. Zaman, "A mmWave Wideband Slot Array Antenna Based on Ridge Gap Waveguide With 30% Bandwidth," *IEEE Transactions on Antennas and Propagation*, vol. 66, no. 2, pp. 1008-1013, Feb. 2018.
40. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A Gap Waveguide-Fed Wideband Patch Antenna Array for 60-GHz Applications," *IEEE Transactions on Antenna and Propagation*, vol. 65, no. 9, September 2017.
41. A. Farahbakhsh, D. Zarifi and A. U. Zaman, "60-GHz Groove Gap Waveguide Based Wideband H-Plane Power Dividers and Transitions: For Use in High-Gain Slot Array Antenna," *IEEE Transactions on Microwave Theory and Techniques*, vol. 65, no. 11, pp. 4111-4121, November 2017.

42. D. Zarifi and A. R. Shater, "Design of a 3-dB directional coupler based on groove gap waveguide technology," *Microwave and Optical Technology Letter*, vol. 59, no. 7, pp. 1597-1600, 2017.
43. M. Baharian, A. Abdolali and D. Zarifi, "Design of a Metallic Parabolic Anechoic Chamber for the Compact Range Measurement," *Applied Physics A*, vol. 123, no. 6, pp. 387, 2017.
44. A. Farahbakhsh and D. Zarifi, "Design of a Metallic Parabolic Anechoic Chamber for the Compact Range Measurement," *IET Electronic Letter*, vol. 53, no. 5, pp. 294-296, 2017.
45. A. R. Shater and D. Zarifi, "Radar Cross Section Reduction of Microstrip Antenna Using Dual-Band Metamaterial Absorber," *Applied Computational Electromagnetic Society (ACES)*, vol. 32, no. 2, pp. 135-140, Feb. 2017.
46. D. Zarifi, A. Farahbakhsh, A. U. Zaman and P.-S. Kildal, "Design and Fabrication of A High-Gain 60 GHz Corrugated Slot Antenna Array with Ridge Gap Waveguide Distribution Layer," *IEEE Transactions on Antenna and Propagation*, vol. 64, no. 7, pp. 2904-2913, 2016.
47. D. Zarifi, A. Farahbakhsh, and M. Soleimani, "Evaluation of profiles of an inhomogeneous chiral slab using state transition matrix method," *Applied Physics A*, vol. 121, no. 3, pp. 1115-1123, November 2015.
48. D. Zarifi, M. Soleimani and A. Abdolali, "Parameter Reconstruction of Materials with Off-Diagonal Anisotropy Using the State Transition Matrix Method," *International Journal of Electronics and Communications*, accepted for publication, April 2014
49. D. Zarifi, M. Soleimani, A. Abdolali and H. Oraizi, "A Robust Technique Based on the Transition Matrix Method to Electromagnetic Characterization of Anisotropic Material," *IET Microwave Antenna and Propagation*, accepted for publication, January 2014.
50. D. Zarifi, M. Soleimani, and A. Abdolali, "Electromagnetic Characterization of Biaxial Bianisotropic Media Using the State Space Approach," *IEEE Transactions on Antenna and Propagation*, vol. 62, no. 3, pp. 1538-1542, March 2014.
51. D. Zarifi, M. Soleimani, and A. Abdolali, "Electromagnetic Characterization of Uniaxial Chiral Composites Using State Transition Matrix Method," *IEEE Transactions on Antenna and Propagation*, vol. 61, no. 11, pp. 5658-5665, November 2013.
52. S. E. Hosseinienejad, N. Komjani, D. Zarifi and A. Abdolali, "Analysis of Line Source Radiation above Grounded Inhomogeneous Chiral Layer Using a Hybrid Method of Fourier Transform and Taylor's Series Expansion," *IEEE Transactions on Antenna and Propagation*, vol. 61, no. 10, pp. 5109-5116, Oct. 2013.
53. D. Zarifi, M. Soleimani, and A. Abdolali, "Parameter Retrieval of Chiral Metamaterials Based on the State Space Approach," *Physical Review E*, vol. 88, Iss. 2, August 2013.

54. A. Farahbakhsh, D. Zarifi, M. Soleimani, and A. Abdolali "Technique for Inversion of an Inhomogeneous Bianisotropic Slab through an Optimization Approach," *IET Microwave Antenna and Propagation*, vol. 7, Iss. 6, pp. 436-443, June 2013.
55. A. Farahbakhsh, D. Zarifi, M. Soleimani, and A. Abdolali "Analysis of Electromagnetic Cylindrical Wave Interaction with Inhomogeneous Planar Media," *Progress In Electromagnetic Research*, vol. 139, pp. 133-143, Apr. 2013.
56. D. Zarifi, M. Soleimani, and A. Abdolali, "Parameter retrieval of chiral metamaterials based on the causality principle," *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 23, no. 5, pp. 610-618, Sep. 2013.
57. K. Nikoeei, D. Zarifi, "Application of Chiral Layers and Metamaterials for the Reduction of Radar Cross Section," *Progress In Electromagnetic Research*, vol. 137, pp. 759-773, Mar. 2013.
58. D. Zarifi, H. Oraizi, and M. Soleimani, "Electromagnetic Scattering from Inhomogeneous Planar Layered Chiral Media Using the Finite Difference Method," *Journal of Electromagnetic Waves and Applications*, vol. 27, no. 5, pp. 582-590, 2013.
59. D. Zarifi, M. Soleimani, V. Nayyeri, "On the miniaturization of semi-planar chiral metamaterial structures," *IEEE Transactions on Antenna and Propagation*, vol. 60, no. 12, pp. 5768-5776, Dec. 2012.
60. D. Zarifi, M. Soleimani, A. Abdolali, "Analysis of different terminated inhomogeneous planar layered chiral media," *Journal of Electromagnetic Waves and Applications*, vol. 26, nos.11-12, pp. 1658-1666, 2012.
61. V. Nayyeri, D. Zarifi, "Electromagnetic scattering from inhomogeneous planar layered media using notation of propagators," *Journal of Electromagnetic Waves and Applications*, vol. 25, pp. 875-884, 2012.
62. D. Zarifi, M. Soleimani, A. Abdolali "Inhomogeneous planar layered chiral media: analysis of wave propagation and scattering using Taylor's series expansion," *Progress In Electromagnetic Research*, vol. 125, pp. 119-135, 2012.
63. D. Zarifi, M. Soleimani, V. Nayyeri, "Dual- and multi-band chiral metamaterial structures with giant optical activity and negative refractive index," *IEEE Antenna and Wireless Propagation Letter*, vol. 12, pp. 334-337, 2012.
64. S. E. Hosseinienejad, D. Zarifi, "Directivity Enhancement of Circularly Polarized Microstrip Antenna By Chiral Metamaterial Covers," *ELEX (IEICE Electronics Express)*, vol. 9, no. 2, pp. 117-121, 2012.

65. D. Zarifi, M. Soleimani, A. Abdolali, "A novel dual-band chiral metamaterial with giant optical activity and negative refractive index," *Journal of Electromagnetic Waves and Applications*, vol. 26, pp. 251-263, 2012.
66. D. Zarifi, H. Oraizi, M. Soleimani, "Improved Performance of Circularly Polarized Antenna Using Semi-Planar Chiral Metamaterial Covers," *Progress In Electromagnetic Research*, vol. 123, pp. 337-354, 2012.
67. D. Zarifi, A. Farahbakhsh, "Reconstruction of Constitutive Parameters of Inhomogeneous Planar Layered Chiral Media Based on the Optimization Approach," *Progress In Electromagnetic Research M*, vol. 29, pp. 29-39, Feb. 2013.

Conference papers:

1. A. Farahbakhsh, D. Zarifi and M. Mrozowski, "A Wideband Rotary Antenna Based on Gap Waveguide Technology for mmWave Applications," *2025 19th European Conference on Antennas and Propagation (EuCAP)*, Stockholm, Sweden, 2025, pp. 1-3.
2. D. Zarifi, A. Farahbakhsh and M. Mrozowski, "Millimeter-Wave Gap Waveguide-Based Broadband Slant-Polarized Slot Array Antenna," *2025 19th European Conference on Antennas and Propagation (EuCAP)*, Stockholm, Sweden, 2025, pp. 1-3.
3. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A Dual-Circularly Polarized Gap Waveguide-Based Linear Array Antenna for 60 GHz-Band," *IEEE European Conference on Antenna and Propagation (EuCAP 2023)*, 2023.
4. A. Farahbakhsh, D. Zarifi and A. U. Zaman, "Single Layer Antenna based on Gap Waveguide Technology with Dual-Circular Polarization for 60-GHz Band," *IEEE European Conference on Antenna and Propagation (EuCAP 2023)*, 2023.
5. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A 60 GHz-Band 4×4 Butler Matrix Based on Ridge Gap Waveguide," *IEEE European Conference on Antenna and Propagation (EuCAP 2022)*, 2022.
6. A. Farahbakhsh, D. Zarifi and A. U. Zaman, "A Single Layer Dual-Polarization Array Antenna Based on Parallel Plate Gap Waveguide," *IEEE European Conference on Antenna and Propagation (EuCAP 2022)*, 2022.
7. A. J. Alazemi, A. Farahbakhsh and D. Zarifi, "Design of A Dual-Circularly Polarized Antenna Using Gap Waveguide Based on Contactless Sliding Mechanism," *IEEE European Conference on Antenna and Propagation (EuCAP 2022)*, 2022.

8. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A V-Band Low Sidelobe Cavity-Backed Slot Array Antenna Based on Gap Waveguide," IEEE European Conference on Antenna and Propagation (EuCAP 2020), 2020.
9. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A Broadband Transition From Microstrip to Groove Gap Waveguide For Ka-Band Applications," IEEE European Conference on Antenna and Propagation (EuCAP 2020), 2020.
10. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A D-Band Center-Feed Linear Slot Array Antenna Based on Gap Waveguide," IEEE European Conference on Antenna and Propagation (EuCAP 2019), 2019.
11. A. Farahbakhsh, D. Zarifi and A. U. Zaman, "D-Band Slot Array Antenna Using Combined Ridge and Groove Gap Waveguide Feeding Network," IEEE European Conference on Antenna and Propagation (EuCAP 2019), 2019.
12. M Hamedani, H Oraizi, D Zarifi, A Amini, "Design of Ku-band Leaky-Wave Slot Array Antenna Based on Ridge Gap Waveguide," IEEE European Conference on Antenna and Propagation (EuCAP 2019), 2019.
13. M Hamedani, H Oraizi, D Zarifi, A Amini, "High Gain and Wideband Leaky Wave Holograms using Gap Waveguide Surface Wave Launchers," IEEE European Conference on Antenna and Propagation (EuCAP 2019), 2019.
14. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A V-band Branch Guide 3-dB Coupler Based on Gap Waveguide for Use in Antenna Array," IEEE European Conference on Antenna and Propagation (EuCAP 2018), Accepted, April 2018.
15. A. Farahbakhsh, D. Zarifi and A. U. Zaman, "A Wideband High-Gain and High-Efficiency Slot Array Antenna Based on Groove Gap Waveguide," IEEE European Conference on Antenna and Propagation (EuCAP 2017), Accepted, London, April 2018.
16. M Hamedani, H Oraizi, D Zarifi, A Amini, "Design of filter-horn antenna based on groove gap waveguide technology for V-band application," IEEE European Conference on Antenna and Propagation (EuCAP 2018), 2018.
17. D. Zarifi, A. Farahbakhsh and A. U. Zaman, "A Ridge Gap Waveguide fed aperture-coupled microstrip antenna array for 60 GHz applications," IEEE European Conference on Antenna and Propagation (EuCAP 2017), Paris, March 2017
18. A. Farahbakhsh, D. Zarifi and A. U. Zaman, "Ridge gap waveguide slot antenna array with 30% bandwidth for 60-GHz applications," IEEE European Conference on Antenna and Propagation (EuCAP 2017), Paris, March 2017

19. A. Farahbakhsh, D. Zarifi and A. U. Zaman, "Analysis and design of metallic parabolic anechoic chamber," IEEE European Conference on Antenna and Propagation (EuCAP 2017), Paris, March 2017
20. D. Zarifi and H. Oraizi, "A V-Band Microstrip Line Transition to Groove Gap Waveguide," IEEE Mediterranean Microwave Symposium (MMS), Abu Dhabi, November 2016
21. D. Zarifi, A. Farahbakhsh, A. U. Zaman, and P.-S. Kildal, "A High Gain Ridge Gap Waveguide Fed Slot Antenna Array for 60 GHz Applications," IEEE European Conference on Antenna and Propagation (EuCAP), Switzerland, April 2016
22. A. Farahbakhsh, D. Zarifi, A. U. Zaman, and P.-S. Kildal, "Corporate Distribution Networks for Slot Array Antenna Based on Groove Gap Waveguide Technology," IEEE European Conference on Antenna and Propagation (EuCAP), Switzerland, April 2016
23. D. Zarifi, M. Soleimani, "Analysis of Reflection and Transmission from Biaxial Chiral Slabs Using the State Space Approach," IEEE Mediterranean Microwave Symposium, Lebanon, September 2013.
24. D. Zarifi, H. Oraizi, "Oblique Incidence of Plane Waves on PEC, PMC or PEMC Backed Inhomogeneous Chiral Slabs," IEEE Mediterranean Microwave Symposium, Turkey, September 2012.
25. D. Zarifi, M. Soleimani "Analysis of Inhomogeneous Chiral Slab Using Taylor's Series Expansion," IEEE Antenna and Propagation Symposium, Canada, July 2012.
26. D. Zarifi, M. Soleimani "Development of semi-planar chiral metamaterials," IEEE International Microwave Symposium, USA, June 2012.

WORK EXPERIENCES

- **University of Kashan**, Associate Professor of Electrical Engineering, from 2016.
- **Azad University of Kashan**, Lecturer (2012-2014).
- **Antenna Engineer**, from 2012

Review Experiences:

- IEEE Transactions on antennas and propagations
- IEEE Transactions on Microwave Theory and Techniques
- IEEE Antennas and Wireless Propagation Letters (AWPL)
- IET Microwaves, Antennas & propagation
- Applied Physics A

- International Journal of RF and Microwave Computer-Aided Engineering
- Microwave and Optical Technology Letters
- AEU: International Journal of Electronics and Communications
- Journal of Electromagnetic Waves and Applications

HONOR AND AWARDS

- Best researcher of electrical engineering group in University of Kashan, Iran, 2020.
- Best lecturer of electrical engineering group in University of Kashan, Iran, 2020.
- Best researcher of electrical engineering group in University of Kashan, Iran, 2017.
- Best lecturer of electrical engineering group in University of Kashan, Iran, 2017.
- Best antenna engineer silver award from antenna group in Chalmers University of Technology, Sweden, 2015.

COMPUTER SKILLS

- Programming Languages such as MATLAB and Mathematica
- Electrical Engineering Software: CST, ADS, HFSS, FEKO, Antenna Magus, Protel, PSPICE

GRANTS

- Nobelium Grant, Poland, Gdansk University of Technology, 2024.
- Iran's National Elites Foundations 2017.
- European Research Council (ERC) through an advanced investigator Grant ERC-2012-ADG 20120216
- VINNOVA Smart Electronics Program Grant 2015-01387

LANGUAGES

- Persian: Native
- English (Writing, Speaking and Listening)