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Associate Professor



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Education

M.Sc., Electrical Engineering (honors), Tarbiat Modares University, Tehran, Iran.

Ph.D., Electrical Engineering (honors), Tarbiat Modares University, Tehran, Iran.

Research Interests

Antennas, Metamaterials, Electromagnetic, Numerical Methods in Electromagnetic, Active & passive Microwave circuits, Active Integrated Antennas, Optics, Bio-Electromagnetic

Awards

Distinguished Researcher of Electrical Engineering for the year 2020-2021 at TMU

IEEE Senior Member since 2017

Prominent Professor of Electrical Engineering for the year 2013-2014, at TMU

Prominent Inventor of Electrical Engineering for the year 2012-2013, at TMU

Patents

1. K. Hosseini, Z. Atlasbaf, "Analysis and Synthesis of Singly-Curved Microstrip Structures Utilizing Modified Schwarz-Christoffel Transformation", No. 81428, 2014
2. Z.Vahidpour, K. Forooraghi, A. Fotowat & Z. Atlasbaf, "Fast Frequency sensing by using Phase- Frequency detector", No. 77943, 2013
3. R.Shamsaee, Z. Atlasbaf, "Design and Implementation of a Dual-band Single Layer Reflectarray Antenna in X and K Bands", No.77044, Sept. 2012
4. R.Shamsaee, Z. Atlasbaf, 'Design and Implementation of Broadband Reflectarray Antenna for Radar and Space Satellite Applications', No. 73946, Jan. 2012

Books

- 1- S. Hayati, Z. Atlasbaf," Photovoltaic and Photothermal Solar Cell Design Principles: Efficiency/Bandwidth Enhancement and Material Selection", *chapter of the book," Solar Panels - Recent Advances and Future Prospects*, ISBN 978-1-83768-678-01, 2023
- 2- S. Hayati, Z. Atlasbaf," Green's function derivation for multilayered planar, cylindrical, and spherical structures with impedance boundary condition (IBC)" *chapter of the book," Electromagnetic Wave Propagation for Industry and Biomedical Applications"* ISBN 978-1-83968-582-8, 2021
- 3- S. Hayati, Z. Atlasbaf, Mauro Cuevas" Scattering from Multilayered Graphene-Based Cylindrical and Spherical Particles", *chapter of the book "NANOPLASMONICS"*, ISBN 978-1-78985-834-1, 2020
- 4- K. Hosseini, Z. Atlasbaf," Application of Composite Right/Left-Handed Metamaterials in Leaky Wave Antennas", *chapter of the book "Modern Antenna Systems"*, ISBN 978-953-51-4943-9, 2018

Journal Papers

2023

1. Bahareh Amini, Zahra Atlasbaf," Design and analysis of high-sensitivity tunable graphene sensors for cancer detection", *Optical and Quantum Electronics (2023) 55:446*, <https://doi.org/10.1007/s11082-023-04679-y>, 2023
2. Mehri Ziaee Bideskan, Zahra Atlasbaf, Andrei V. Lavrinenko, "The Extended Method of Lines for the Characterization of Dielectric Metasurfaces for Ultraviolet Chiral Sensing", *IEEE Transactions on Antennas and Propagation*, <https://doi.org/10.1109/TAP.2023.3320901>, 2023
3. SEYED MAHDI HOSSEINI AND ZAHRA ATLASBAF," Analysis of tightly-coupled dipole phased array antennas with metasurface superstrate", *Scientific Reports*, <https://doi.org/10.1038/s41598-023-44680-9>, 2023
4. Shima Inanloo, Zahra Atlasbaf, "A CPW-fed fractal monopole antenna with a reduced ground plane in the frequency range of 500 MHz-5.5 GHz", *IET Microwaves, Antennas & Propagation*, <https://doi.org/10.1049/mia2.12418>, 2023

2022

5. Mousa Abdollahvand, Eduardo Martinez-de-Rioja, Keyvan Forooraghi, Zahra Atlasbaf, José Antonio Encinar, Saptarshi Ghosh, Amir Ebrahimi," Active frequency selective surface with switchable response for satellite communications in X and Ka bands", *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 32, No.9, e23255, <https://doi.org/10.1002/mmce.23255>, Vol. 71, No. 12, pp. 9728-9737, 2022
6. Bahareh Amini, Zahra Atlasbaf," Two new broadband and tunable terahertz pyramid patch/disk absorbers based on graphene metasurface", *Photonics and Nanostructures - Fundamentals and Applications*, <https://doi.org/10.1016/j.photonics.2022.101048>, July 2022
7. Maryam Shadi, Mohammad Reza Tavakol, Zahra Atlasbaf," Inverse design of compact power divider with arbitrary outputs for 5G applications", *Scientific Reports*, <https://doi.org/10.1038/s41598-022-17212-0>, 12:12844, 2022

8. Maryam Shadi, Zahra Atlasbaf, "Randomly overlap subarray feeding network to reduce number of phase shifter in 28GHz", *PLOS ONE*, <https://doi.org/10.1371/journal.pone.0277404>, December 8, 2022
9. Shiva Hayati Raad, Zahra Atlasbaf, "Dual-Band Reconfigurable Refractive Index Sensing Using All-Graphene Core-Shell Spherical Nanoparticles", *IEEE TRANSACTIONS ON NANOTECHNOLOGY*, VOL. 21, pp.137-142, <https://doi.org/10.1109/TNANO.2022.3152599>, 2022
10. Shiva Hayati Raad Zahra Atlasbaf, "Full Coverage of the Solar Spectrum and Beyond Using All-Manganese Plasmonic Shell Array", *Plasmonics*, Vol. 17, pp. 851–857, <https://doi.org/10.1007/s11468-021-01566-8>, 2022
11. Shiva Hayati Raad, Zahra Atlasbaf, Alessio Monti, Alessandro Toscano, AND Filiberto Bilotti, "On the surface impedance modeling of metasurfaces composed of graphene-coated spherical nanoparticles", *Journal of the Optical Society of America B*, Vol. 39, No. 3, pp. 917-923, <https://doi.org/10.1364/JOSAB.448936>, March 2022
12. Alessio Monti, Shiva Hayati Raad, Zahra Atlasbaf, Alessandro Toscano, AND Filiberto Bilotti, "Maximizing the forward scattering of dielectric nanoantennas through surface impedance coatings", *Optics Letters*, Vol. 47, No. 10 / 15, pp. 2386-2389, <https://doi.org/10.1364/OL.456958>, May 2022
13. SEYED MAHDI HOSSEINI AND ZAHRA ATLASBAF, "Analysis of Connected Arrays and Capacitively Coupled Arrays", *IEEE Access*, pp. 28147-28154, <https://doi.org/10.1109/ACCESS.2022.3156594>, March 2022
14. Fatemeh Moharrami & Zahra Atlasbaf, "Stability study of the modified HIE-FDTD method for modeling graphene as a surface boundary condition", *Waves in Random and Complex Media*, <https://doi.org/10.1080/17455030.2022.2051770>, 2022

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15. Shiva Hayati Raad, Zahra Atlasbaf, "Solar cell design using graphene-based hollow nanopillars" *Scientific Reports*, <https://doi.org/10.1038/s41598-021-95684-2>, 2021
16. Shiva Hayati Raad, Zahra Atlasbaf, "Dual polarized engineering the extinction cross-section of a dielectric wire using graphene-based oligomers", *Scientific Reports*, <https://doi.org/10.1038/s41598-021-87145-7>, 2021
17. AHAD SHEIKHOLESLAMI, ZAHRA ATLASBAF, "Novel Phase Distributions for Electronically Large Beam-Scanning Reflectarrays", *Scientific Reports*, <https://doi.org/10.1038/s41598-021-00883-6>, Vol. 11, 2021
18. ZAHRA LASEMIIMENI, ZAHRA ATLASBAF AND NIMA KARBASCHI, "Dual-Functional Ultrawideband Antenna with High Fidelity Factor for Body Area Networks and Microwave Imaging Systems", *IEEE Access*, <https://doi.org/10.1109/ACCESS.2021.3104511>, VOL. 9, pp. 112930- 112941, 2021
19. MEHRI ZIAEE BIDESKAN, KEYVAN FOROORAGHI, ZAHRA ATLASBAF, ALI MEHRDADIAN AND ANDREI V. LAVRINENKO, "Method of lines for the analysis of tunable plasmonic devices composed of graphene-dielectric stack arrays", *Optics Express*, <https://doi.org/10.1364/OE.433185>, Vol. 29, No. 18 / 30 Aug 2021 / 28787
20. Shiva Hayati Raad, Zahra Atlasbaf "Bi-functional tunable reflector/high-Q absorber design using VO₂ assisted graphene-coated cylinder array", *Optics Express* 17510, <https://doi.org/10.1364/OE.423129>, Vol. 29, No. 11 / 24 May 2021

21. Mehri Ziaee Bideskan, Keyvan Forooraghi & Zahra Atlasbaf, "Method of lines for analysis of plane wave scattering by periodic arrays of magnetically-biased graphene strips", *Nature Scientific Reports*, <https://doi.org/10.1038/s41598-021-86882-z>, (2021) 11:7588, 2021
22. F. Moharrami, Z. Atlasbaf," Stability Analysis of the SIBC Modeling of Graphene in the FDTD Method", *IEEE Transactions on Antennas and Propagation*, <https://doi.org/10.1109/TAP.2020.3019575>, Vol. 69, Issue 4, pp. 2421 – 2426, April 2021

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23. Shiva Hayati Raad, Zahra Atlasbaf, Carlos J. Zapata-Rodríguez," Broadband absorption using all-graphene grating-coupled nanoparticles on a reflector", *Scientific Reports*, <https://doi.org/10.1038/s41598-020-76037-x>, 2020
24. Reza Shamsaee Malfajania, Alireza Gholipourb, and Zahra Atlasbaf," Linear to circular polarization converter single-layer reflectarray antenna", <https://doi.org/10.1080/02726343.2021.1864580>, *ELECTROMAGNETICS*, 2020
25. Hayati Raad, Shiva, Atlasbaf, Zahra, Carlos J. Zapata-Rodríguez, Mahmoud Shahabadi, Jalil Rashed-Mohassel," Dyadic Green's Function for the Electrically Biased Graphene-Based Multilayered Spherical Structures", *Journal of Quantitative Spectroscopy and Radiative Transfer*, <https://doi.org/10.1016/j.jqsrt.2020.107251>, 256 (2020) 107251, 2020
26. P.Noehian, Zahra Atlasbaf," A Novel Single Layer Ultra-Wide Band Metamaterial Absorber", *Progress In Electromagnetics Research Letters*, Vol. 93, pp. 107–114, 2020
27. Z. Lasemiimani, Z. Atlasbaf, "Impact of Fidelity Factor on Breast Cancer Detection", *IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS*, <https://doi.org/10.1109/LAWP.2020.3011801>, Vol. 19, No. 10, pp. 1649-1653, OCTOBER 2020
28. M. Shadi, Z. Atlasbaf," Meta-Heuristic Multi-Objective as an Affordable Method for Improving the Grating Lobe in a Wide Scan Phased Array Antenna", *Progress in Electromagnetics Research C*, vol. 103, pp. 155–166, 2020
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30. A. Esmailinia, Z. Atlasbaf," A Quadrupole Tensor Analysis Approach to Design a Broadband Absorber", *IEEE Access*, <https://doi.org/10.1109/ACCESS.2020.2984769>, pp. 65513- 65519, 2020
31. S.Tajik, Z. Atlasbaf," Investigating Extraordinary Optical Transmission and sensing performance through periodic bilayer magneto-plasmonic structure", *Journal of Applied Physics*, <https://doi.org/10.1063/1.5116180>, vol. 127, no. 2, 2020
32. F. Moharrami, Z. Atlasbaf," Simulation of Graphene-Dielectric multilayer metamaterial by implementing SBC model of graphene in the HIE-FDTD method", *IEEE Transactions on Antennas and Propagation*, <https://doi.org/10.1109/TAP.2019.2948505>, vol. 68, no. 3, pp. 2238- 2245, 2020
33. M. Abdolavand, k. Forooraghi, Jose A. Encinar, Z. Atlasbaf," A 20/30 GHz Reflectarray Backed by FSS for Shared Aperture Ku/Ka-Band Satellite Communication Antennas", *IEEE Antennas and Wireless Propagation Letters*, <https://doi.org/10.1109/LAWP.2020.2972024>, vol. 19, no. 4, pp. 566-571, 2020
34. M. Abdolavand, K. Forooraghi, Jose A. Encinar, Z. Atlasbaf, Eduardo Martinez-de-Rioja," Design and Demonstration of a Tri-band Frequency Selective Surface for Space Applications in X, K and Ka Bands", *Microwave and Optical Technology Letters*, <https://doi.org/10.1002/mop.32225>, pp. 1-10, 2020

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37. Hayati Raad, Shiva, Zapata-Rodriguez, Carlos J, Atlasbaf, Zahra, "Multi-frequency near-field enhancement with graphene-coated nano-disk homo-dimers", *Journal of Optics Express*, <https://doi.org/10.1364/OE.27.037012>, vol. 27, no. 25, pp. 37012-37024, December 2019
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44. Shiva Hayati Raad, Zahra Atlasbaf, "Equivalent RLC Ladder Circuit for Light Scattering by Graphene-Coated Nano-Spheres", *IEEE Transactions on Nanotechnology*, vol. 18, pp. 212-219, <https://doi.org/10.1109/TNANO.2019.2893350>, 2019

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46. P.Fathi, Z. Atlasbaf, K. Forooraghi, "Compact Dual-Wideband Bandpass Filter Using CSRR Based Extended Right/Left-Handed Transmission Line", *Progress in Electromagnetic Research C*, <https://doi.org/10.2528/PIERC17100206>, vol. 81, 21-30, 2018
47. K. Hosseini, Z. Atlasbaf, "Efficient Three-Step LOD-FDTD Method in Lossy Saturated Ferrites with Arbitrary Magnetization", *IEEE Transactions on Antennas and Propagation*, <https://doi.org/10.1109/TAP.2018.2796383>, vol. 66, no.3, pp. 1374-1383, March 2018
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65. Zahra Hamzavi Zarghani and Zahra Atlasbaf, "A New Broadband Single-Layer Dual-Band Reflectarray Antenna in X and Ku Bands", *IEEE Antenna and Wireless Propagation letter*, <https://10.1109/LAWP.2014.2374351>, Vol. 14, pp.602-604, 2015
66. Seyed Amir Hossein Saghanezhad, Zahra Atlasbaf, "Miniaturized Dual-band CPW-fed Antennas Loaded with U-shaped Metamaterials", *IEEE Antenna and Wireless Propagation letter*, <https://10.1109/LAWP.2014.2376554>, Vol. 14, pp. 658-661, 2015

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2012

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96. M. Mohammadi, P. Alizadeh, Z. Atlasbaf, "Effect of frit Size on sintering, Crystallization and Electrical Properties of Wollastonite Glass-Ceramics", *Journal of Non-Crystalline Solids*, pp. , 2010
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98. Omid Zandi, Zahra Atlasbaf, M.S. Abrishamian, "On the Orthogonality of the Phase Velocity and Its Feasibility for Plane Waves", *Optik*, pp. , 2010
99. O. Zandi and Z. Atlasbaf, "Novel Method to Analyze And Design One-Dimensional Reciprocal Periodic Structures with Symmetrical Cells", *Progress in Electromagnetic Research B*, Vo. 19, pp. 285-303, 2010
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102. S.A. Hosseini, Z. Atlasbaf and K. Forooraghi, "Two new loaded compact planar ultra-wideband antennas using defected ground structures", *Progress in electromagnetic research, PIER B*, Vol. 2, 165-176, 2008
103. S. Ali Hosseini and Z. Atlasbaf, "Optimization of side lobe level and fixing Quasi-nulls in both of the sum and difference patterns by using continues ant colony optimization (ACO) method", *Progress in Electromagnetic Research, PIER* 79, 321-337, 2008
104. S.A. Hosseini, Z. Atlasbaf and K. Forooraghi, "A New Compact Ultra Wide Band (UWB) Planar Antenna Using Glass as Substrate", *J. of Electromagnetic Waves and Appl.*, Vol. 22, No. 1, 47-59, 2008
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106. Reza Dehbashi, Zahra Atlasbaf and Keyvan Forooraghi, "A new compact size microstrip antenna with harmonic rejection", *IEEE Antennas and Wireless Propagation Letters*, Vol.5, pp.395-398, 2006.
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1. M. Abdollahvand, K. Forooraghi, Z. Atlasbaf, E. Martinez-de-Rioja, J. A. Encinar, A. Ebrahimi, S. Ghosh, "Reconfigurable FSS Based on PIN Diodes for Shared-Aperture X/Ka-Band Antennas" Eucap 2021

2020

- 2.

2019

3. M. Jafaripour, S.M. Sadrameli*, S.A.H. Seyed Mousavi, H.Pahlavanzadeh, Z.Atlasbaf," Modification of thermal properties for a composite of stearic acid/kaolin used as a phase change material by infrared camera analysis approaches", *9th National Seminar of Chemistry and Enviroment, Arak Univ.*, 3-4 Sept. 2019
4. M. Jafaripour, S.M. Sadrameli*, S.A.H. Seyed Mousavi, H. Pahlavanzadeh,Z.Atlasbaf," Improvement of phase change materials loading on kaolin for temperature control of a co-axial cable surface", *9th National Seminar of Chemistry and Enviroment, Arak Univ.*, 3-4 Sept. 2019

2018

5. Pegah Nochian, Zahra Atlasbaf," A Novel Single Layer X-Band Single Negative Metamaterial Absorber", *9th International Conf. on Electrical, Computer, Mechanical and Mechatronics Engineering (ICE-2018)*, 2018
6. Ashkan Esmaeilnia Shirvani, Zahra Atlasbaf," Analyzing One Layer Array consisting of two sets of different sphere particle", *26th Iranian Conference on Electrical Engineering (ICEE2018)*, 2018
7. Shiva Hayati Raad, Zahra Atlasbaf," Tunable Optical Absorption using Graphene Covered Core-Shell Nano-Spheres", *26th Iranian Conference on Electrical Engineering (ICEE2018)*, 2018

2017

8. K. Hosseini, Z.Atlasbaf," Development of a CPML for Scattered-Field One- Step Leapfrog ADI-FDTD Scheme", *25th Iranian Conference on Electrical Engineering (ICEE2017)*, 2017

2016

9. Montazeri, ' CLLR' آنتن تک قطبی کوچک فراپهن باند دارای قابلیت کنترل باند حذف با استفاده از بارگذاری تشدیدگر حلقه خازن', *24th Iranian Conference on Electrical Engineering (ICEE)*, pp.1-4, 2016
10. M. Abdollahvand; J. A. Encinar; K. Forooraghi; Z. Atlasbaf; M. Barba," Single-layer dual-frequency reflectarray for Ka-band antennas", *10th European Conference on Antennas and Propagation (EuCAP)*, DOI: 10.1109/EuCAP.2016.7481879, pp. 1-4, 2016

11. M. Abdollahvand, J. A. Encinar, K. Forooraghi, Z. Atlasbaf, J. E. Page, "Tri-Band FSS for Ku/Ka Bands Reflector Antennas", *10th European Conference on Antennas and Propagation (EuCAP)*, DOI: 10.1109/EuCAP.2016.7481865, pp. 1-4, 2016
12. K. Hosseini, Z. Atlasbaf, "Product Formula Approach for Stable FDTD Modeling of Magnetized Plasma", *24th Iranian Conference on Electrical Engineering (ICEE)*, 2016
13. P. Fathi, Z. Atlasbaf, "A novel layout for extended composite right/left handed transmission lines based on CSRR resonators", *24th Iranian Conference on Electrical Engineering (ICEE)*, 2016

2015

14. J. Aliasgari, Z. Atlasbaf, "A Novel Monopulse Planar Array Using CSRR Slots", *23rd Iranian Conference on Electrical Engineering (ICEE)*, pp. 274-277, 2015
15. M. Rafee, Z. Atlasbaf, "Metallic Grating Embedded in an Anisotropic Slab for Realization of a Reflectarray Antenna", *23rd Iranian Conference on Electrical Engineering (ICEE)*, pp. 374-378, 2015

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16. J. Aliasgari, Z. Atlasbaf, "آنتنهای مونوپالس آرایه‌های شکاف شعاعی (RLSA)", *The third Iranian Conference on Engineering Electromagnetic (ICEEM 2014)*, Dec. 3-4, 2014
17. M. Zolfaghari, Z. Atlasbaf, "Study and Design of Conical Modified Goubau Waveguide at Terahertz Frequency", *The third Iranian Conference on Engineering Electromagnetic (ICEEM 2014)*, Dec. 3-4, 2014
18. Seyed Amir Hossein Saghanezhad, Zahra Atlasbaf, "Miniaturized Patch Antenna on Substrate Loaded with Ring-Shape Metamaterial", *22nd Iranian Conference on Electrical Engineering (ICEE)*, pp. 1591-1593, 2014
19. Z. Hamzavi Zarghani, Z. Atlasbaf, "A New Broadband Single-Layer Reflectarray Antenna", *22nd Iranian Conference on Electrical Engineering (ICEE)*, pp. 1619-1622, 2014
20. S.A.H. Saghanezhad, Z. Atlasbaf, "Miniaturized Dual band Rectangular Patch Antenna on Metasubstrate", *The Second Iranian Conference on Engineering Electromagnetics (ICEEM 2014)*, Jan. 8-9, 2014
21. Z. Hamzavi Zarghani, Z. Atlasbaf, "Design of Broadband Single-layer Reflectarray Antenna", *The Second Iranian Conference on Engineering Electromagnetics (ICEEM 2014)*, Jan. 8-9, 2014

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22. Esrafil Jedari, Zahra Atlasbaf, Sima Noghianian, Behnam Shahrava, "Effects of Antenna Selection on Vehicle-to-Vehicle Communication in Highways", *Antennas and Propagation Society International Symposium (APSURSI)*, IEEE, pp. 2109-2111, 2013
23. Keyhan Hosseini, Zahra Atlasbaf, "Mutual Coupling Between Two Microstrip Patch Antennas on Concave and Convex Cylindrical Surfaces", *Electrical Engineering (ICEE)*, *21st Iranian Conference on*, pp. 1-4, 2013
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26. Ailar SedghAra, Zahra Atlasbaf, "A New Reconfigurable Single-Feed Microstrip Antenna With Polarization Diversity", *Antennas and Propagation (EuCAP)*, *2013 7th European Conference on*, pp. 2403-2406, 2013

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50. P.Varahram, Z.Atlasbaf and A.Farrokh Payam,"Power Amplifiers linearization Based on Gain Predistortion Used in Third Generation Systems", *Iranian Conference on Electrical Engineering 2006*
51. R.Dehbashi, K.Forooraghi, Z.Atlasbaf"A Harmonic-Rejecting Inset-Fed U-Slot Antenna for Rectenna Application", *IEEE Sarnoff Symposium*, Princeton, NewJersey, March 2006
52. R.Dehbashi, Z.Atlasbaf, K.Forooraghi, "Analysis of a Novel Band-Stop Resonator by 3D CFTD Method", *IEEE Sarnoff Symposium*, Princeton, NewJersey, March 2006
53. Zahra Atlasbaf, Keyvan Forooraghi, "A New Compact Broad Band Branch-Line Coupler Using Coupled Line", *IEEE Sarnoff Symposium*, Princeton, NewJersey, March 2006

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54. P.Varahram, Z.Atlasbaf, N.V.Heydarian, "Adaptive Digital Predistortion for Power Amplifiers used in CDMA Applications", *Asia-Pacific Conference on Applied Electromagnetic 2005*
55. R.Dehbashi, K.Forooraghi, Z.Atlasbaf, N.Amiri, "A Novel Broad-Band Stop Resonator with Compact Size", *Asia-Pacific Conference on Applied Electromagnetics (APMC 2005)*,2005
56. P.Varahram, Z.Atlasbaf,"Adaptive Digital Predistortion for High Power Amplifiers with Memory Effects", *Asia-Pacific Microwave Conference (APMC2005)*, 2005

57. H.R.Oskouei, Z.Atasbaf, "A Modified Dual Mode Band Pas Filter with Defected Ground Structure (DGS)", *The 13 Conference on Microwave Techniques (COMITE 2005)*,126-131, Sept.26-28, 2005
58. Zahra Atlasbaf, Keyvan Forooraghi,"A New Hybrid method to calculate the Self Admittance of a Longitudinal Waveguide Slot Antenna Radiating", *Antennas and Propagation International Symposium, IEEE 2004*
59. Zahra Atlasbaf, Keyvan Forooraghi,"Radiation Pattern Calculation of Nearly Cylindrical Antennas Using the Spectrum of Two-Dimensional", *Antennas and Propagation International Symposium, IEEE 2002*

Editorial Board of Journals

1. Editorial Board Member of Scientific Reports (sep.2022-)
2. Editorial Board Member of Scientia Iranica Journal
3. Reviewer of IEEE Transaction on Microwave Theory and Techniques
4. Reviewer of IEEE Transaction on Antennas and Propagation
5. Reviewer of Antenna and Wireless Propagation Letter
6. Reviewer of Journal of Electromagnetic Waves and Applications
7. Reviewer of Progress in Electromagnetic Research
8. Reviewer of IET

Memberships in Societies

1. IEEE Senior Member (2017) (AP & MTT& WIE)
2. ACES Member

Thesis Supervision

Supervising and advising over 40 Master's theses and Ph.D. dissertations in the mentioned research fields.

Ph.D. Thesis Supervised

1. Mahdi Hosseini,'
2. Maryam Shadi,' Advanced Array Antenna for 5th Wireless Communication Systems", Sept. 2022
3. Fatemeh Moharami,' Analysis and design of tunable multilayer graphene-dielectric metamaterial structures", Summer 2020
4. Shiva Hayati raad,' Ananalysis of Graphene-Based Multilayered Conformal Periodic Structures", Sept. 2019
5. Keyhan Hosseini,' Unconditionally Stable FDTD in Complex Media", Feb. 2018
6. Mahdiah Bozorgi,'Analysis of Plasmonic Nano-Antenna Supported by Anisotropic Media', Jan. 2017
7. Mahmood Rafaei Booket,'Analysys of Reflectarray Antenna supported by Uniaxial and Biaxial Anisotropic Layers', May 2016
8. Omid Zandi, 'Phase and Group Velocities of Electromagnetic Plane Waves in Bi-Anisotropic and Moving Media', Winter 2011

Ph.D. Thesis Advised

1. Mousa Abdollahvand,'
2. Zeynab Vahidpour,'
3. Nasrin Amiri,'

M.Sc. Thesis Supervised

- 1.
2. S. Inanloo,"", Jan. 2020
3. A. Shiekhaleslam,' ', Feb. 2019
4. P. Nochian,' Design and Fabrication of a Wideband Metamaterial Absorber", Jan. 2019
5. M. Keshavarz,'Design and implementation of beam shaped reflectarray antenna', Sep. 2018
6. Sh. Tajik,'Analysys and Design a Megneto-Dielectric Plasmonic Nano Antenna', Feb. 2018
7. H. dolatkah,' ', Mar. 2018
8. R.Masoumi,'Design and Fabrication of LMDS Base Station Antenna', Aug. 2017
9. M. Kalaki,' Design and Implementation of Dielectric Resonator Filter for Satellite Application', May 2017
10. Z. Lasemi, 'Design & Fabrication of UWB antennas for Microwave Imaging Tomur Detection', Apr. 2017
11. Z. Sharifi,' Design a novel carpet cloak by using transformation optics', Jan. 2016
12. P.Fathi,' A novel layout for Metamaterial base ECRLH structures and their applications in microwave components", December 2015
13. M.Niayesh,' Design and fabrication of a novel CRLH leaky-wave antenna', February 2015
14. J.Aliasgari,' Design and Fabrication of Radial Line Slot Array Antenna', March 2015
15. M. Zolfaghari,' Study and Design of a Modified Conical Goubau Waveguide', Fall 2014
16. Mohammad Davari,' Scattering Reduction of Multilayered Cylindrical Structures with Dielectrics and Metamaterials in NIR Spectrum Frequency, Incident Plane Wave with Arbitrary Polarization', April, 2014 (Maleke Ashtar Univ.)
17. Samaneh Keshavarzi,'Analysis and fabrication of a bandpass filter based on metamaterials', March 2014
18. Amir Hossein Saghanejad,' Design and Implementation of a New Metamaterial-Loaded Multiband Compact Planar Antenna', Feb. 2014
19. Zahra Hamzavi,' Design and Implementation of a Multi-band Microstrip Reflectarray Antenna", Jan. 2014
20. Hojjatollah Fallahi,' Design and Fabrication of a UWB Antenna for Breast Tumor Detection", Feb. 2013
21. Ailar Sedghara,'Design of a Dual Band, Dual Polarized Reconfigurable Single Port Antenna for WLAN Application', Feb. 2013

22. Keyhan Hosseini,' Design and Fabrication of Conformal Leaky-Wave Antennas Utilizing Periodic Structures and Metamaterials', Feb. 2013
23. Seiran Khaledian,' Design and Implementation of a Dual Band and Dual Pattern Antenna for On-body and Off-body Communication Modes in Body Centric Wireless Application', Dec. 2012
24. Abed Pour Sohrab,'Design and Fabrication of a Wideband Microwave Absorber by Periodic Structures", Spring 2012
25. Reza Shamsaee Malfajani,' Design and Implementation of a Dual-Band Microstrip Reflectarray Antenna (X & K Bands)', Feb. 2012
26. Majid Norooziarab,' Design and Implementation of an SIW Reconfigurable Filter in Two Bands', Winter 2011
27. Vahideh Anami,'Design and Implementation of a New Leaky Wave Antenna by Metamateria', Summer 2011
28. Mehdi Mahdavi, 'Design and Implementation of a New Compact Planar UWB Antenna for Communication Applications', Spring 2011
29. Mohammad Amin Nikravan,' Design and Implementation of a Compact Dual-Band Microstrip Bandpass Filter', Winter 2010
30. Somayeh Rezvani, 'Design, Synthesis and Manufacture of a Dual Band Microstrip Antenna with Switchable Polarization', April 2010
31. Maryam Mohammadi,'Wollasonite Glass-(second component) Composite Synthesis and Electrical Property Studies', June 2009
32. Mostafa Naghipourfar, 'Design and Analysis of a New Dual-Band Metamaterial in Microwave Frequencies', June 2009
33. Hossein Sabri, 'Miniaturized Triple-Band Microstrip Slot Antenna ', Fall 2008
34. Zeynab Vahidpour, 'Optimization of Monopulse Antenna Pattern by Using Pattern Search Algorithm'-Summer 2007
35. Omid Zandi, 'Analysis and Design of Multilayer Dielectric Resonator Antennas', August 2007
36. Seyed Ali Hosseini, 'A Novel Compact Planar UWB Antenna in the FCC Frequency Band ', April 2007
37. Mehdi Nosrati, 'Synthesis and Analysis of the New Compact Band-Pass Filter Using Coupled Transmission Lines' – Autumn 2006
38. Hamed Movahedi Pour, 'Performance Optimization of Direction of Arrival Estimator Using Neural Networks with Genetic Algorithm and Ant Colony Optimization Approach'- November 2006
39. Pooria Varahram, 'Adaptive Digital Predistortion for High Power Amplifiers', Summer 2005

M.Sc. Thesis Advised

1. H.Montazeri,' June 2016
2. Mohsen Khadir,' Feb. 2014

3. Sajjad Mohammadi, 'April 2013
4. Farzaneh Ahmadi, 2013
5. Sepideh Fallahzadeh, 2013
6. Reza Dehbashi, 2007
7. Ali Razmtouz, 'Design and Analysis of Active Patch Antennas - Feb. 2007', Adviser
8. Rosa Seyf, 'Design and Analysis of a Compact and Dual Band Rectangular Microstrip Antenna to Operate in Frequencies 2GHz and 5GHz, Winter 2007 Adviser
9. Elyas Roudgar, 'Design and Analysis of a Broadband Microstrip Array Antenna for LMDS Applications - Dec. 2007', Adviser
10. Mohsen Golpour Dehsari, 'Design and Analysis of Compact Low Pass Filter Using DGS', Adviser 2009
11. Hadi Bahrami Abarghoei, 'Design and Analysis of Compact Waveguide Filters Using Metamaterials', Adviser, 2009
12. Alireza Mahmoudian, 'Design of Leaky Wave Antenna by Using Periodic Structures', Adviser, 2008
13. رجانہ فرہودی، 'روشہای نامساوی ماتریسی خطی برای طراحی فیدبک خروجی چند منظوره بر اساس تئوری پایداری تعمیم یافته', Adviser
14. 'پریوش حاجیان، 'جهت یابی سیگنال ارسالی در آرایه دایره ای با کاهش اثر کوپلینگ', Adviser

Courses Taught

- Advanced Mathematics II, MSc
- Microwave II, MSc
- High Frequency Circuit Design, MSc
- Numerical Methods in Electromagnetic, PhD
- Special Topics on RF/Microwave Circuit Design for Wireless Applications, PhD
- Metamaterials, PhD
- Special Topics on Conformal Antennas, PhD
- Conformal Antennas, PhD
- Phased Array Antennas, PhD
- Engineering Circuit Analysis, MSc
- Microwave I, MSc
- Antenna Theory, MSc

Professional Experiences

1. Member of the Technical Program Committee of the Conference on Millimeter Wave and Terahertz Technologies (MMWaTT)-2023
 2. Associate Professor, faculty of Electrical & Computer Engineering, 2011- present, Tarbiat Modares University, Tehran, Iran
 3. Director of Satellite Com. Lab. of Elect. Eng. Dept., 2010-present, Tarbiat Modares University, Tehran, Iran
 4. Director of Metamaterial Com. Lab. of Elect. Eng. Dept., 2007-present, Tarbiat Modares University, Tehran, Iran
 5. Vice-Dean for Academic Affairs, 2014-2016, Faculty of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran
 6. Director of Communications Engineering Group, April 2007-April 2012, Tarbiat Modares University, Tehran, Iran
 7. Assistant Professor, faculty of Electrical & Computer Engineering, Aug. 2005-2011, Tarbiat Modares University, Tehran, Iran
 8. Tehran, Iran Nokia's GC consultant in MCT (BTS & BSS) tenders, 2004 -2005,
 9. Senior Researcher RF Group, Mobile Communications techniques, Tehran, Iran, 1999 - 2004
 10. Senior Researcher RF Group, Iranian Research Organization for Science and Technology, Tehran, Iran, 1997 - 1999
 11. Senior Researcher Antenna & RF Group, Antenkar, Tehran, Iran Senior Researcher Antenna & RF Group, 1997 - 1999
 12. Research Engineer, Tarbiat Modares University, Tehran, Iran, 1996 - 1998
 13. Research Engineer, ITRC Tehran, Iran, 1995 - 1996
-