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Education

B.Sc., Electrical Engineering, University of Tehran, Tehran, Iran.

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- Z. Atlasbaf, “Advanced Engineering Mathematics From Linear Algebra to Numerical Methods (With Implementation in MATLAB)”, ISBN 978-622-396-093-2, 2026 (in Persian)
- 2- 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
- 3- 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
- 4- 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
- 5- 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

2025

1. PEGAH NOCHIAN, ZAHRA ATLASBAF, KEYVAN FOROORAGHI, “Analytical Solution of Electromagnetic Fields in a Huygens Bianisotropic Metasurface Energy Harvester Under Vertical Dipole Illumination”, IEEE Access, Vol. 3, pp. 152090-152102, <https://doi.org/10.1109/ACCESS.2025.3601897> , September 2025
2. P. Nochian, Z. Atlasbaf,” An ultra-wideband thin metamaterial linear cross-polarization conversion” Scientific Reports, <https://doi.org/10.1038/s41598-025-86764-8> , 2025

2024

3. Ashkan Soleimani, Keyvan Forooraghi & Zahra Atlasbaf, “Phasor-based analysis of a neuromorphic architecture for microwave sensing”, *Scientific Reports*, <https://doi.org/10.1038/s41598-024-66156-0> , 2024

2023

4. 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
5. 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
6. 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

7. 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

8. 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
9. 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
10. 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
11. 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
12. 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
13. 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
14. 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
15. Alessio Monti, Shiva Hayati Raad, Zahra Atlasbaf, Alessandro Toscano, AND Filiberto Bilotti," Maximizing the forward scattering of dielectric nano antennas through surface impedance coatings", *Optics Letters*, Vol. 47, No. 10 / 15, pp. 2386-2389, <https://doi.org/10.1364/OL.456958>, May 2022
16. 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
17. 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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18. Shiva Hayati Raad, Zahra Atlasbaf, "Solar cell design using graphene-based hollow nano-pillars" *Scientific Reports*, <https://doi.org/10.1038/s41598-021-95684-2>, 2021

19. 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
20. Raad, SH; Atlasbaf, Z; Cuevas, M," Dyadic Green's function for the graphene-dielectric stack with arbitrary field and source points", JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, <https://doi.org/10.1364/JOSAB.427824> , Vol. 38, No. 8, pp. 2368-2375
21. AHAD SHEIKHOESLAMI, 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
22. ZAHRA LA SEMIIMENI, 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
23. 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
24. 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
25. 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
26. 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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31. 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
32. 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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34. A. Esmailnia, 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
35. 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
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39. F. Moharrami: Z. Atlasbaf, "Tunable GRIN Lensing Based on Graphene-Dielectric Multilayer Metamaterial", *J. Optics (IOP)*, <https://doi.org/10.1088/2040-8986/ab6425>, 22,025102 (9pp), 2020
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45. Hayati Raad, Shiva; Zapata-Rodriguez, Carlos J; Atlasbaf, Zahra, "Graphene-coated resonators with frequency-selective super-scattering and invisibility", *Journal of Physics D: Applied Physics*, <https://doi.org/10.1088/1361-6463/ab3fbc>, vol. 5, 495101(7 pages), 2019
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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, ' Low-profile Wide-band Wide-angle array antennas', March, 2025
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
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5. Keyhan Hosseini,' Unconditionally Stable FDTD in Complex Media", Feb. 2018
6. Mahdieh Bozorgi,'Analysis of Plasmonic Nano-Antenna Supported by Anisotropic Media', Jan. 2017
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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,'
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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. dolatkhah,' ', 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
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7. Ali Razmtouz, 'Design and Analysis of Active Patch Antennas - Feb. 2007', Advise
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 Based using DGS', Adviser 2009
11. Hadi Bahrami Abarghoei, 'Design and Analysis of Compact Waveguide Filters Based using Metamaterials', Adviser, 2009
12. Alireza Mahmoudian, 'Design of Leaky Wave Antenna by Using Periodic Structures', Adviser, 2008
13. رجانه فرهودی, 'روشهای 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
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