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h-index (Scopus):  
**7**

Citations (Scopus):  
**438**

**Supervised MSc Theses**

#	Thesis title	By	Date
1	Analysis, simulation and improvement of PSF in millimeter wave imaging systems for fixed targets in security applications.	Seyyedmohammadreza Shafieidarabi & Amirnader Askarpour	June 2021
2	Analysis, design and simulation of plasmonic nanostructures for enhancement of the chirality in the near field	Niloofer Ziasaeedi & Amirnader Askarpour	October 2020
3	Analysis and Simulation of a Photonic Topological Insulator for Realization of a Robust One-Way Propagation	Sadeq Bahmani & Amirnader Askarpour	November 2019
4	Analysis and simulation of OAM carrying mm-wave propagation to estimate maximum communication distance	Amir Minoofar & Amirnader Askarpour	July 2019
5	MASSIVE MIMO CHANNEL ANALYSIS AND MODELLING OF A Ka BAND MM-WAVE FOR 5G SYSTEM	Ahmad Awada & Amirnader Askarpour	January 2019
6	Analysis and Simulation of Electromagnetic Wave Propagation in Twisted Metamaterials at Oblique Angles	Peyman Abdipour & Amirnader Askarpour	October 2018

**Books**

#	Title	Author(s)	Publisher country	publication date	version
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Portal Records

## Journal Papers

### Portal Records








- 1 Somaye Kaviani Dezaki, Amirnader Askarpour, Abdolali Abdipour, "Circular dichroism spectroscopy and chiral sensing in optical fibers", OPTICS EXPRESS, July 2021 Vol. 29, Num. 15, Page 23096-23112, July 2021,
- 2 Alireza Mohammadzade, Abdolali Abdipour, Amirnader Askarpour, "Time-Domain Signal and Noise Modeling and Analysis of Millimeter-Wave and THz HEMT Transistors", IET MICROWAVES ANTENNAS & PROPAGATION, June 2021 Vol. 1, Num. 6, Page 1-13, June 2021,
- 3 Farzaneh Daneshmandian, Abdolali Abdipour, Amirnader Askarpour, "Numerical modeling of highly sensitive resonant detection of THz radiation using a multichannel dispersive plasmonic HEMT", Journal of Computational Electronics, January 2021 Vol. 20, Num. 2, Page 912-921, January 2021,
- 4 Peyman Abdipour, Amirnader Askarpour, Andrea Alù, "Efficient Analysis of Wave Propagation in Metasurface Arrays Based on Eigenvalue Perturbation", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, October 2020 Vol. 69, Num. 5, Page 2706-2714, October 2020,
- 5 Abdolali Abdipour, Farzaneh Daneshmandian, Amirnader Askarpour, "Numerical Investigation of the Instability-Based Power Emission from an Ungated Plasmonic HEMT Using Complete Hydrodynamic Model", PLASMONICS, May 2020 Vol. 0, Num. 0, Page 0-0, May 2020,
- 6 Sadeq Bahmani, Amirnader Askarpour, "Bloch oscillations and Wannier-Stark ladder in the coupled LC circuits", PHYSICS LETTERS A, May 2020 Vol. 384, Num. 25, Page 126596-126596, May 2020,
- 7 Amir Mokarram, Abdolali Abdipour, Amirnader Askarpour, Alireza Mohammadzade, "Time-domain signal and noise analysis of millimetre-wave/THz diodes by numerical solution of stochastic telegraphers equations", IET MICROWAVES ANTENNAS & PROPAGATION, April 2020 Vol. 14, Num. 9, Page 1-9, April 2020,
- 8 Peyman Abdipour, Amirnader Askarpour, Andrea Alù, "Metasurface Modeling for the Manipulation of Goos-Hanchen and Imbert-Fedorov Shifts", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, March 2020 Vol. 68, Num. 3, Page 1523-1532, March 2020,
- 9 Farzaneh Daneshmandian, Abdolali Abdipour, Amirnader Askarpour, "Global modeling of terahertz plasmonic high electron mobility transistor using a complete hydrodynamic model", JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, November 2019 Vol. 36, Num. 12, Page 3428-3433, November 2019,
- 10 Farzaneh Daneshmandian, Abdolali Abdipour, Amirnader Askarpour, "Numerical Investigation of the Bias Voltages Effects on the Performance of Plasmonic HEMTs", International Journal of Information and Communication Technology(IJICT), March 2019 Vol. 11, Num. 1, Page 12-18, March 2019,
- 11 Farzaneh Daneshmandian, Abdolali Abdipour, Amirnader Askarpour, "Full wave analysis of terahertz dispersive and lossy plasmonic HEMT using hydrodynamic model", JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, March 2019 Vol. 36, Num. 4, Page 1138-1143, March 2019,
- 12 Ershad Mohammadi, Kosmas L. Tsakmakidis, Amirnader Askarpour, Parisa Dehhoda, Ahad Tavakoli, Hatice Altug, "Nanophotonic Platforms for Enhanced Chiral Sensing", ACS Photonics, May 2018 Vol. 5, Num. 7, Page 2669-2675, May 2018,
- 13 Yang Zhao, Amirnader Askarpour, Liuyang Sun, Jinwei Shi, Xiaoqin Li, Andrea Alù, "Chirality detection of enantiomers using twisted optical metamaterials", Nature Communications, January 2017 Vol. 8, Num. 0, Page 14180-14180, January 2017,
- 14 Constantinos A. Valagiannopoulos, Amirnader Askarpour, Andrea Alù, "Aharonov-Bohm detection of two-dimensional magnetostatic cloaks", PHYSICAL REVIEW B, December 2015 Vol. 92, Num. 22, Page 224414-224414, December 2015,
- 15 A. D. Yaghjian, M. Silveirinha, Amirnader Askarpour, Andrea Alu, "Electric Quadrupolarizability of a Source-Driven Dielectric Sphere", Progress in Electromagnetics Research B, July 2015 Vol. 63, Num. 0, Page 95-106, July 2015,

## Conference Papers

### Portal Records

- 1 Amir Minoofar, Amirnader Askarpour, Abdolali Abdipour, "Efficiency and Crosstalk in Demultiplexing Orbital Angular Momentum Modes using a Geometrical Transformation-based Mode Sorter ", Iran Workshop on Communication and Information Theory, April 2019
- 2 Somaye Kaviani Dezaki, Amirnader Askarpour, Abdolali Abdipour, "On the Possibility of Improving the Average Chirality and Dissymmetry Factor Using Periodic Structures ", The 5th international conference on Millimeter wave and terahertz technologies, December 2018
- 3 Farzaneh Daneshmandian, Abdolali Abdipour, Amirnader Askarpour, "Full wave Modeling and Analysis of Plasmonic HEMT performance ", The 5th international conference on Millimeter wave and terahertz technologies, December 2018
- 4 Peyman Abdipour, Amirnader Askarpour, Andrea Alu, "Analysis, Synthesis and Characterization of Metasurfaces Based on Novel Tensors ", The 5th international conference on Millimeter wave and terahertz technologies, December 2018

## Taught Courses

#	Course title	Description	Headlines	Date
1	Nanophotonics	آشنایی با اصول ریاضی و فیزیکی تکنولوژی نانوفوتونیک		Fall 2021
2	Fiber Optics	Introduction to optical fiber communication and devices		Fall 2021
3	Electromagnetics	Introduction to engineering electromagnetics		Fall 2021
4	Numerical Techniques in Electromagnetics	Introduction to numerical techniques in solving EM problems		Spring 2021
5	Fiber Optics	Introduction to the analysis of optical waveguides and passive devices		Spring 2021
6	Electromagnetics	Introduction to engineering electromagnetics		Fall 2020
7	Photonics	Introduction to design and analysis of photonics structures		Fall 2020