

Mohammad Ali Mansouri Birjandi

Professor

Faculty : Electrical and Computer Engineering

Departments : Electrical Engineering

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Address : Dept.of Electrical Engineering, Faculty of Electrical and Computer Engineering, University of Sistan and Baluchestan, Daneshgah Ave., Zahedan, Iran.

Education

- B.Sc, Electrical Engineering - Electronics,Sistan and Baluchestan University - 1986
- MS, Electrical Engineering - Electronics,University of Tehran - 1992
- PhD, Electrical Engineering - Electronics,Tarbiat Modares University - 2009

Courses

1. Electronics Physic
2. Quantum Electronics
3. Optical Electronic I
4. Quantum Electronics II
5. Electronics II
6. Electronics -III
7. Linear Integrated Circuits Design
8. Optical Electronics -||
9. Nanophotonics I
10. Optical Communication Systems

Thesis

Master Thesis

1. The investigation on enhance perovskite solar cells efficiency and stability through charge transport and interlayer modifications

رویا ازاده شهروئي, [Majid Ghadrdan, Mohammad Ali Mansouri Birjandi, Mojtaba Shahraki, Majid Rashidi Huyeh, Ahmad Khajeh, Hadi Esmaeeli Darmian]

نیمسال دوم سال تحصیلي 1402-1403

Journals Papers

2024

1. All-optical logic gates based on optimized coherent perfect absorber and fuzzy inference system

Bibi Somayeh Mousavi, Mohammad Ali Mansouri Birjandi, Mohammad Reza Rakhshani, Mehdi Rezaei

Optics Continuum Volume: (3) 1208 - 1223

2. Nanophotonic structure inverse design for switching application using deep learning

Ehsan Adibnia, Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

Scientific Reports Volume: (14) 21094-1 - 21094-13

3. Achieving high sensitivity by adding rings to a plasmonic metasurface with nano-holes

Esmat Jafari, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

Materials Science and Engineering B-Advanced Functional Solid-State Materials Volume: (299) 117046-1 - 117046-9

4. High-performance plasmonic metasurface sensor by triangular nano-structures

Esmat Jafari, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

Optics Continuum Volume: (3) 78 - 93

5. A deep learning method for empirical spectral prediction and inverse design of all-optical nonlinear plasmonic ring resonator switches

Ehsan Adibnia, Mohammad Ali Mansouri Birjandi, Majid Ghadrdan, Pouria Jafari

Scientific Reports Volume: (14) 5787-1 - 5787-17

2023

6. Plasmonic switch based on asymmetric cavities with embedding square of gold inside the cavities

Majid Ghadrdan, Mojtaba Shahraki, Mohammad Ali Mansouri Birjandi

Journal of Nanophotonics Volume: (17) 036004-1 - 036004-8

2022

7. Applications of Tunable Mid-Infrared Plasmonic Square-Nanoring Resonator Based on Graphene Nanoribbon

, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

Plasmonics Volume: (17) 479 - 490

8. Experiences of a Group of Faculty Members in University of Sistan and Baluchestan on Decreased Fraud Solutions for E-Tests

Mehri Mehrjoo, Mehrdad Mazaheri Dasht Arjandi, Mehri Rajaei, Hadi Esmaeeli Darmian, Farhad Shahraki,

Iranian Distance Education Journal Volume: (4) 9 - 20

2020

9. A broadband graphene modulator based on plasmonic valley-slot waveguide

Mehdi Shirdel, Mohammad Ali Mansouri Birjandi

OPTICAL AND QUANTUM ELECTRONICS Volume: (52) 1 - 36 - 8 - 36

2019

10. Proposal for a graphene nanoribbon assisted mid-infrared band-stop/band-pass filter based on Bragg gratings

, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

OPTICS COMMUNICATIONS Volume: (440) 75 - 82

11. Broadband graphene modulator based on a plus-shaped plasmonic slot waveguide

Mehdi Shirdel, Mohammad Ali Mansouri Birjandi

APPLIED OPTICS Volume: (58) 8174 - 8179

12. Graphene Nanoribbon Assisted Refractometer Based Biosensor for Mid-Infrared Label-Free Analysis

Alireza Tavousi, Mohammad Ali Mansouri Birjandi,

Plasmonics Volume: (14) 1207 - 1217

13. Investigating the factors that increase yield in heterostructure quantum dots solar cells

Elham Shirdel, Mohammad Ali Mansouri Birjandi

Volume: (9) 13 - 25

2018

14. Wideband Dispersion Compensation in Square Lattice Photonic Crystal Fiber

Esmat Jafari, Mohammad Ali Mansouri Birjandi

Journal of Communication Engineering Volume: (7) 49 - 61

15. Engineering Hexagonal Array of Nanoholes for High Sensitivity Biosensor and Application for Human Blood Group Detection

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

IEEE TRANSACTIONS ON NANOTECHNOLOGY Volume: (17) 475 - 481

16. Optical-analog-to-digital conversion based on successive-like approximations in octagonal-shape photonic crystal ring resonators

, Mohammad Ali Mansouri Birjandi

SUPERLATTICES AND MICROSTRUCTURES Volume: (114) 23 - 31

17. Design and implementation of optical switches based on nonlinear plasmonic ring resonators Circular square and octagon

, Mohammad Ali Mansouri Birjandi

Photonics and Nanostructures-Fundamentals and Applications Volume: (29) 15 - 21

18. Tunable plasmon-induced reflection based on graphene nanoribbon Fabry-Perot resonator and nanodisks

, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

OPTICAL MATERIALS Volume: (84) 675 - 680

19. Design of a plasmonic sensor based on a square array of nanorods and two slot cavities with a high figure of merit for glucose concentration monitoring

Mohammad Reza Rakhshani, Alireza Tavousi, Mohammad Ali Mansouri Birjandi

APPLIED OPTICS Volume: (57) 7798 - 7804

20. High sensitivity label-free refractometer based biosensor applicable to glycated hemoglobin detection in human blood using all-circular photonic crystal ring resonators

A. Tavousi, Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

OPTICS COMMUNICATIONS Volume: (429) 166 - 174

21. Dynamic switching between single and double plasmon induced reflection through graphene nanoribbons based structure

, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

Materials Research Express Volume: (5) 115022 -

22. Optoelectronic application of graphene nanoribbon for mid-infrared bandpass filtering

Alireza Tavousi, Mohammad Ali Mansouri Birjandi,

APPLIED OPTICS Volume: (57) 5800 - 5805

23. A high-sensitivity sensor based on three-dimensional metalinsulatormetal racetrack resonator and application for hemoglobin detection

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

Photonics and Nanostructures-Fundamentals and Applications Volume: (32) 28 - 34

24. Wideband Dispersion Compensation in Hexagonal Lattice Photonic Crystal Fiber

Esmat Jafari, Mohammad Ali Mansouri Birjandi

International Journal of Optics and Photonics Volume: (12) 91 - 97

2017

25. Low threshold photonic crystal all optical switch using plasmonic nanowires placed in nonlinear resonator structure

Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

Journal of Nanophotonics Volume: (11) 03601701 - 036017010

26. فبير بلور فوتوني جبرانساز پاشندگي شبكه مربعي

Esmat Jafari, Mohammad Ali Mansouri Birjandi

Volume: (8) 105 - 111

27. Utilizing the Metallic Nano-Rods in Hexagonal Configuration to Enhance Sensitivity of the Plasmonic Racetrack Resonator in Sensing Application

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

Plasmonics Volume: (12) 999 - 1006

28. Application of photonic crystal ring resonator nonlinear response for full-optical tunable adddrop filtering

, Mohammad Ali Mansouri Birjandi, , Mina Ranjbar-Torkamani

PHOTONIC NETWORK COMMUNICATIONS Volume: (34) 131 - 139

29. Flat-Band Slow Light in a Photonic Crystal Slab Waveguide by Vertical Geometry Adjustment and Selective Infiltration of Optofluidics

Mohammad Ali Mansouri Birjandi, ,

JOURNAL OF ELECTRONIC MATERIALS Volume: (46) 6528 - 6534

30. Low-threshold photonic crystal all-optical switch using plasmonic nanowires placed in nonlinear resonator structure

, Mohammad Ali Mansouri Birjandi

Journal of Nanophotonics Volume: (11) 036017-1 - 036017-10

31. Low-threshold ultrafast all-optical switch implemented with metallic nanoshells in the photonic crystal ring resonator

, Mohammad Ali Mansouri Birjandi

SUPERLATTICES AND MICROSTRUCTURES Volume: (111) 789 - 795

32. Tunable plasmonic bandpass filter based on FabryPerot graphene nanoribbons

, Mohammad Ali Mansouri Birjandi,

APPLIED PHYSICS B-LASERS AND OPTICS Volume: (123) 262-1 - 262-9

33. High sensitivity plasmonic refractive index sensing and its application for human blood group identification

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

SENSORS AND ACTUATORS B-CHEMICAL Volume: (249) 168 - 176

2016

34. Dual Wavelength Demultiplexer based on Metal-Insulator-Metal Plasmonic Circular Ring Resonators

, Mohammad Ali Mansouri Birjandi

JOURNAL OF MODERN OPTICS Volume: (63) 1078 - 1086

35. Photonic Crystal All-Optical Switch Based on a Nonlinear cavity

, Mohammad Ali Mansouri Birjandi

OPTIK Volume: (127) 3955 - 3958

36. High-Sensitivity Plasmonic Sensor Based on Metal–Insulator–Metal Waveguide and Hexagonal-Ring Cavity

, Mohammad Ali Mansouri Birjandi

IEEE SENSORS JOURNAL Volume: (16) 3041 - 3046

37. Successiveapproximation-like4-bitfull-opticalanalog-to-digital converterbasedonKerr-likenonlinearphotoniccrystalringresonators

, Mohammad Ali Mansouri Birjandi, Mahdi Saffari

PHYSICA E-LOW-DIMENSIONAL SYSTEMS and NANOSTRUCTURES Volume: (83) 101 - 106

38. Full-optical tunable add/drop filter based on nonlinear photoniccrystal ring resonators

Mohammad Ali Mansouri Birjandi, ,

Photonics and Nanostructures-Fundamentals and Applications Volume: (21) 44 - 51

39. Study on the similarity of photonic crystal ring resonator cavity modes and whispering-gallery-like modes in order to design more efficient optical power dividers

, Mohammad Ali Mansouri Birjandi

PHOTONIC NETWORK COMMUNICATIONS Volume: (32) 160 - 170

40. Implementation of all-optical switch based on nonlinear photonic crystal ring resonator with embedding metallic nanowires in the ring resonators

, Mohammad Ali Mansouri Birjandi

OPTICAL AND QUANTUM ELECTRONICS Volume: (48) 2991 - 2999

41. All-optical bistable switching hard-limiter and wavelength-controlled power source

Mehdi Shirdel, Mohammad Ali Mansouri Birjandi

Frontiers of Optoelectronics Volume: (9) 560 - 564

42. Study on the similarity of photonic crystal ring resonator cavity modes and whispering0gallery0like modes in order to design more efficient optical power dividers

, Mohammad Ali Mansouri Birjandi

PHOTONIC NETWORK COMMUNICATIONS Volume: (32) 160 - 170

43. Implementation of all0optical switch based on nonlinear photonic crystal ring resonator with embedding metallic nanowires in the ring resonators

Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

OPTICAL AND QUANTUM ELECTRONICS Volume: (48) 2991 - 2999

2015

44. Performance evaluation of photonic crystal ring resonators based optical channel add-drop filters with the aid of whispering gallery modes and their Q-factor

, Mohammad Ali Mansouri Birjandi

OPTICAL AND QUANTUM ELECTRONICS Volume: (46) 1613 - 1625

45. Five-Port Power Splitter Based On Pillar Photonic Crystal

, Mohammad Ali Mansouri Birjandi

Iranian Journal of Science and Technology-Transactions of Electrical Engineering Volume: (39) 93 - 100

2014

46. Near-zero dispersion photonic crystal slab waveguide using ring-shape-holes and optofluidic infiltration

, Mohammad Ali Mansouri Birjandi

OPTICS COMMUNICATIONS Volume: (333) 58 - 61

47. Design and Simulation of Four-channel Wavelength Demultiplexer Based on Photonic Crystal Circular Ring Resonators for Optical Communications

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

JOURNAL OF OPTICAL COMMUNICATIONS Volume: (35) 9 - 15

48. Near-zerodispersionphotoniccrystalslabwaveguide using ring-shape-holesandoptofluidic infiltration

, Mohammad Ali Mansouri Birjandi

OPTICS COMMUNICATIONS Volume: (333) 58 - 61

2013

49. Wideband slow light in photonic crystal slab waveguide based on geometry adjustment and optofluidic infiltration

Mohammad Ali Mansouri Birjandi

applied optics (USA) Volume: (52) 8184 - 8189

50. Concurrent implementation of all-optical half-adder and AND XOR logic gates based on nonlinear photonic crystal

Mohammad Ali Mansouri Birjandi

OPTICAL AND QUANTUM ELECTRONICS Volume: (45) 1027 - 1036

51. A New Design of Tunable Four-Port Wavelength Demultiplexer by Photonic Crystal Ring Resonators

Mohammad Ali Mansouri Birjandi

OPTIK Volume: (124) 5923 - 5926

52. Wavelength Demultiplexer using Heterostructure Ring Resonators in Triangular Photonic Crystal

Mohammad Ali Mansouri Birjandi

Indonesian Journal of Electrical Engineering Volume: (11) 1721 - 1724

53. Design and Simulation of Wavelength Demultiplexer based on Heterostructure Photonic Crystals Ring Resonators

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

PHYSICA E-LOW-DIMENSIONAL SYSTEMS and NANOSTRUCTURES Volume: (50) 97 - 101

54. Realization of tunable optical filter by photonic crystal ring resonators

Mohammad Ali Mansouri Birjandi

OPTIK Volume: (124) 5377 - 5380

55. Realization of Tunable Channel Drop Filter Based on Square Photonic Crystal Ring Resonator

Mohammad Ali Mansouri Birjandi

International Journal of Natural and Engineering Science Volume: (7) 08 - 12

56. Analog-to-Digital Conversion Based on Single Ring 2-D Square-Lattice PCRR

Mohammad Ali Mansouri Birjandi

Technical Journal of Engineering and Applied Science Volume: (3) 1000 - 1004

57. Design and Simulation of an Optical Channel Drop Filter Based on Two Dimensional Photonic Crystal Single Ring Race Track Resonator

Mohammad Ali Mansouri Birjandi

International Journal of Natural and Engineering Science Volume: (7) 14 - 18

58. All-Optical Switch Based on Nonlinear Kerr Effect in Photonic Crystal Micro Ring Resonators

Mohammad Ali Mansouri Birjandi

International Journal of Natural and Engineering Science Volume: (7) 56 - 59

59. Concurrent implementation of all-optical half-adder and AND

Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

OPTICAL AND QUANTUM ELECTRONICS Volume: () 1027 - 1036

60. All-Optical NOT Logic Gate Based on Photonic Crystals

Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

International Journal of Electrical and Computer Engineering Volume: (3) 478 - 482

61. Tunable Channel Drop Filter using Hexagonal Photonic Crystal Ring Resonators

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

Indonesian Journal of Electrical Engineering Volume: (11) 513 - 516

62. New Design of Channel Drop Filter by Triangular Photonic Crystal

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

International Journal of Electrical and Computer Engineering Volume: (3) 73 - 77

63. Tuning of Photonic Crystal Ring Resonators for Application in Analog to Digital Converter Systems

Mahdi Saffari, Mohammad Ali Mansouri Birjandi, Mohammad Reza Rakhshani

international research journal of applied and basic sciences Volume: (5) 341 - 346

2012

64. Heterostructure Four Channel Wavelength Demultiplexer using Square Photonic Crystals Ring Resonators

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS Volume: (26) 1700 - 1707

65. Design and Optimization of Photonic Crystal Triplexer for Optical Networks

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

International Journal of Computer Science Issues Volume: (9) 24 - 28

66. Superlens Biosensor with Photonic Crystals in Negative Refraction

, Mohammad Ali Mansouri Birjandi

International Journal of Computer Science Issues Volume: (9) 57 - 60

67. Reducing Mutual Coupling in Microstrip Array Antenna Using Metamaterial Spiral Resonator

, Mohammad Ali Mansouri Birjandi, Saeed Tavakoli Afshari

International Journal of Computer Science Issues Volume: (9) 51 - 56

68. Add-Drop and Channel-Drop Optical Filters Based on Photonic Crystal Ring Resonator

, Mohammad Ali Mansouri Birjandi, Mahdi Saffari

International Journal of Communications and Information Technology Volume: (1) 19 - 24

2011

69. Monte Carlo Simulation of Multiplication Factor in PIN In0.52Al0.48As Avalanche Photodiodes

Mohammad soroosh, Mohammad Ali Mansouri Birjandi

International Journal of Communications and Information Technology Volume: (1) 21 - 24

Conferences Papers

2023

1. A Plasmonic Metasurface Sensor Comprising a Gold Nano-Disk Array on a Silica and TiN Layer with a Gold Spacer

The 29th Iranian Conference on Optics and Photonics (ICOP 2023), and the 15th Iranian Conference on Photonics Engineering and Technology (ICPET 2023)

Esmat Jafari, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

2022

2. Design of High Sensitivity Sensor using Surface Plasmon Resonance in Metal/Dielectric/Metal H-Shaped Structure

28th Iranian Conference on Optics and Photonics (ICOP2021) and 14th Iranian Conference on Photonics Engineering and Technology (ICPET2021)

Soosan Gomroki, Mohammad Ali Mansouri Birjandi, Mohammad Reza Rakhshani

3. Design of plasmonic logic gates based on a plasmonic switch based on a square resonator ring

1st National Conference Soft Computing of Engineering Science in Industry and Society (ASEIS 2022)

, Mohammad Ali Mansouri Birjandi, Majid Ghadrdan

4. Investigation and simulation of an all-optical modulator with graphene oxide coated microfiber

1st National Conference Soft Computing of Engineering Science in Industry and Society (ASEIS 2022)

Abbas ali Gazmeh, Mohammad Ali Mansouri Birjandi, Mohammad Hossein Sargolzaei

2021

5. Design of Chirped Apodized Fiber Bragg Grating

27th Iranian Conference on Optics and Photonics (ICOP2021) and 13th Iranian Conference on Photonics Engineering and Technology (ICPET2021)

Ehsan Adibnia, Mohammad Ali Mansouri Birjandi

6. Improvement of Array Microstrip Antenna Bandwidth using a photonic crystal structure

27th Iranian Conference on Optics and Photonics (ICOP2021) and 13th Iranian Conference on Photonics Engineering and Technology (ICPET2021)

Hamide Kondori, Mohammad Ali Mansouri Birjandi

7. Refractive index sensor based on metasurface at near-infrared region

27th Iranian Conference on Optics and Photonics (ICOP2021) and 13th Iranian Conference on Photonics Engineering and Technology (ICPET2021)

Esmat Jafari, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

8. Design and simulation of AND logic gate based on quantum dot semiconductor optical amplifiers

27th Iranian Conference on Optics and Photonics (ICOP2021) and 13th Iranian Conference on Photonics Engineering and Technology (ICPET2021)

Masoud Khammari, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

9. Photonic crystal fiber with ultra-flattened negative dispersion

International Advanced School on Optoelectronic Devices

Esmat Jafari, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

10. Plasmonic Sensor using Silver Cross-Shaped Nanoparticles with High Sensitivity and Absorption

Annual Physics Conference of Iran

Najmeh Hoseini tabatabaei, Mohammad Ali Mansouri Birjandi, Mohammad Reza Rakhshani

2020

11. Design and simulation of XOR logic gate based on quantum dot semiconductor optical amplifiers

The 26th Iranian Conference on Optics and Photonics (ICOP 2020) and the 12th Iranian Conference on Photonics Engineering and Technology (ICPET 2020)

, Mohammad Ali Mansouri Birjandi, Alireza Tavousi

2019

12. Efficiency Enhancement in Thin Film Silicon Solar Cell Using the Plasmonic Properties of Metals

Iranian Conference on Optics and Photonics (ICOP 2019) Iranian Conference on Photonics Engineering and Technology (ICPET 2019)

Fatemeh Jaafari, Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

2018

13. Proposal for a Kerr-Tunable All-Optical Switch Based on Photonic Crystal Ring Resonators

The 24th Iranian Conference on Optics and Photonics (ICOP 2018) and the 10th Iranian Conference on Photonics Engineering and Technology (ICPET 2018

Alireza Tavousi, Mahdi Saffari, Mohammad Ali Mansouri Birjandi

14. Graphene Nano-Ribbon Assisted Fabry-Perot Resonator Based Mid-Infrared Band-pass Filter

The 24th Iranian Conference on Optics and Photonics (ICOP 2018) and the 10th Iranian Conference on Photonics Engineering and Technology (ICPET 2018

Alireza Tavousi, Mohammad Ali Mansouri Birjandi,

15. A Proposal for High Sensitivity Detector Based on Three Dimensional MetalInsulatorMetal Racetrack Resonator

(19th International Symposium on Eco-materials Processing and Design (ISEPD 2018

, Mohammad Ali Mansouri Birjandi

16. Tuning Contrivances of Graphene Nano-Ribbon based Mid-Infrared Band-pass Filter

26th Iranian Conference on Electrical Engineering (ICEE2018)

Alireza Tavousi, Mohammad Ali Mansouri Birjandi,

17. Investigating the efficiency of triple junction solar cell based on quantum dots

the 6th iranian conference on renewable energy and distributed generation - ICREDG 2018

Saiede Bakhshi takhti, Mohammad Ali Mansouri Birjandi

2017

18. An all-optical switch based on nonlinear metal-insulator-metal (MIM) nanoplasmonic ring resonator

7th International Conference on Nanotechnology (ICN02017) 708 September 2017 Tbilisi Georgia

Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

19. Proposal of Plasmonic Filter by Metal-Insulator-Metal Circular Ring Resonators and Tuning Techniques

7th International Conference on Nanotechnology (ICE02017) 708 September 2017 Tbilisi Georgia

Mohammad Reza Rakhshani, Mohammad Ali Mansouri Birjandi

2016

20. Metal-Semiconductor-Metal Optical Transistor ....

3rd National and First International Conference in applied research on Electrical Mechanical and Mechatronics Engineering

21. Efficiency Improve and Absorption Enhancement of Metal-Semiconductor-Metal (MSM) Phototransistor Based on Plasmonic Metal Nanogratings

ICOP2016

MOHAMMADREZA SHAHI VAZIFEH, Mohammad Ali Mansouri Birjandi

2014

22. Design and Simulation of Photonic Crystal Power Splitter Based on optofluidic Infiltration

ICOP 2014

, Mohammad Ali Mansouri Birjandi

23. 1x2 Low Loss Photonic Crystal Power Splitter Design based on the Integration of Y-junction and Waveguide Bend Using Microfluidic Infiltration

The 2nd Asian Symposium on Electromagnetics and Photonics Engineering August 28-30 2013 Tabriz Iran

2013

24. Design and Simulation of All-Optical AND XOR Logic Gates Based on Nonlinear Kerr Effect in Photonic Crystal Ring Resonator

Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

25. Design and Simulation of All Optical OR Logic Gate Based on Photonic Crystal

Majid Ghadrdan, Mohammad Ali Mansouri Birjandi

2011

26. Design and Simulate of a new Photonic Crystal tetraplexer

ICOP2011

Mohammad Ali Mansouri Birjandi,

27. Micro sensor created using negative refraction in Two-Dimensional Photonic crystal

ICOP2011

Mohammad Ali Mansouri Birjandi,

2010

28. effect of nonlinear ring resonators for all-optical switch parameters

ICOP2010

Mohammad Ali Mansouri Birjandi, ,

29. The Study on treatment effect of non-identical ring resonators for all-optical switch parameters based on photonic crystals

ICOP2010

Mohammad Ali Mansouri Birjandi, ,

30. one-Dimensional Photonic Analog-to-Digital Converter based on kerr-like Nonlinearity

1st International Conference Communications Engineering (ICCE2010)

Mahdi Saffari, Mohammad Ali Mansouri Birjandi

31. negative refraction in Two-dimensional photonic by variation frequency

1st International Conference Communications Engineering (ICCE2010)

Mohammad Ali Mansouri Birjandi,

2009

32. Design of low voltage rail - to- rail CMOS transconductance using composite cells

Mohammad Ali Mansouri Birjandi, Mahdi Saffari

33. FPGA-Based Direct Digital Synthesis with Flying Adder

The 2009 IEEE Regional Symposium on Micro and Nano Electronics (IEEE-RSM2009)

Executive activities

مدیر گروه

from 1398/06/22 - to 1401/05/01

رییس دانشکده برق

from 1396/11/04 - to 1397/04/31

رئیس دانشکده برق

from 1392/11/15 - to 1396/11/01