

کریم عباسیان

دانشیار

دانشکده: مهندسی برق و کامپیوتر

سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۷۳	مهندسی برق - الکترونیک	دانشگاه ارومیه
کارشناسی ارشد	۱۳۷۶	مهندسی برق-الکترونیک	دانشگاه تربیت مدرس
دکترای تخصصی	۱۳۸۷	مهندسی برق - الکترونیک	تبریز

اطلاعات استخدامی

محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
دانشکده مهندسی برق و کامپیوتر	عضو هیئت علمی	رسمی قطعی	تمام وقت	۳۲

جوایز و تقدیر نامه ها

- دو بار معلم نمونه دانشکده
- دو بار پژوهشگر نمونه دانشکده
- 5 سال معاون و رئیس دانشکده
- دو سال مدیر امور فنی و طرح های عمرانی دانشگاه تبریز
- 18 ماه رئیس دانشگاه بناب

فعالیت های علمی و اجرایی

انجام دو طرح پژوهشی

مقالات در همایش ها

1. K Abbasian , R Talebi , H Daryanavrd ,Mode propagation in a double layer structure

microsphere ,17th Iranian Conference of Biomedical Engineering (ICBME) ,2010 11 03.

2. K Abbasian , K Eftekhari , A Rostami , S Golmohammadi ,Proposal for all-optical controllable double state switch using dipole induced transparency (DIT) ,International Conference On Photonics 2010 ,2010 07 05.

3. A Rostami ,& K Abbasian ,All-optical filter design: electromagnetically induced transparency and ring resonator ,IEEE International Conference on Telecommunications and Malaysia International Conference on Communications ,2007 05 14.

4. M Salehi , K Abbasian , A Pourziad ,2D-photonic crystal based bowtie nano antenna designing with spherical gold particles for terahertz applications ,2020 28th Iranian Conference on Electrical Engineering (ICEE) ,2020 08 04.

5. K Abbasian , NG Verki , A Rostami ,Design of All-Optical Loadable and Erasable Memory Cell by LWI and EIT Effects ,AIP Conference Proceedings ,2011 12 26.

6. H Imani , S Golmohammadi , A Rostami , K Abbasian ,Resolution improvement in high-speed fiber-optic spectrometers using photonic crystal fibers ,International Conference On Photonics 2010 ,2010 07 05.

7. K Shakibaei , S Golmohammadi , K Abbasian ,Optical DWDM filters using optical multilayer structures ,International Conference On Photonics 2010 ,2010 07 05.

مقالات در نشریات

1. H Nasiri , K Abbasian , H Baghban,Highly sensitive quantification of Amlodipine in real samples using graphene oxide-chitosan surface plasmon resonance sensor,Sensors and Actuators A: Physical,2024 04 01.

2. Sara Ghasemi Dakdareh ,& Karim Abbasian,Diagnosis of Alzheimer’s Disease and Mild Cognitive Impairment Using Convolutional Neural Networks,Journal of Alzheimer's Disease Reports,2024-02020.

3. T Nurmohammadi , K Abbasian , MZ Mashayekhi,Graphene-based tunable plasmon-induced transparency utilizing circular and two rectangular gold rings in the near-infrared spectrum,Materials Science in Semiconductor Processing,2022 06 15.

4. Dariush Jafari , Tofiq Nurmohammadi , Mohammad Javad Asadi , Karim Abbasian,All-optical analog-to-digital converter based on Kerr effect in photonic crystal,Optics & Laser Technology,2018 05 01.

5. Tofiq Nurmohammadi , Karim Abbasian , Reza Yadipour,Ultra-fast all-optical plasmonic switching in near infra-red spectrum using a Kerr nonlinear ring resonator,Optics Communications,pp. 142-147,2018 03 01.

6. Leyla Shirafkan Dizaj , Karim Abbasian , Tofiq Nurmohammadi,A three-core hybrid plasmonic polarization splitter designing based on the hybrid plasmonic waveguide for utilizing in optical integrated circuits,Plasmonics,pp. 2213-2221,2020 12 15.

7. MZ Mashayekhi , K Abbasian , T Nurmohammadi,Dual-wavelength active and tunable modulation at telecommunication wavelengths using graphene-metal hybrid metamaterial based on plasmon induced transparency,Physica Scripta,2022 08 12.

۸. Hasan Nasiri , Karim Abbasian , Hamed Baghban،Sensing of lactose by graphitic carbon nitride/magnetic chitosan composites with surface plasmon resonance method،Food Bioscience،2024 10 15.

۹. Hasan Nasiri , Karim Abbasian , Mohammad Salahandish , Seyyed Navid Elyasi،Sensitive surface plasmon resonance biosensor by optimized carboxylate functionalized carbon nanotubes/chitosan for amlodipine detecting،Talanta،شماره صفحات 126249،2024 07 15.

۱۰. Tofiq Nurmohammadi , Karim Abbasian , Reza Yadipour،Ultra-fast all-optical plasmon induced transparency in a metal–insulator–metal waveguide containing two Kerr nonlinear ring resonators،Journal of Optics،2018 04 18.

.11 M Miralaie , M Leilaeioun , K Abbasian , M Hasani،Modeling and analysis of room-temperature silicon quantum dot-based single-electron transistor logic gates،Journal of Computational and Theoretical Nanoscience،شماره صفحات 15-2014،24 01 15.

.12 Hassan Nasiri , Karim Abbasian , Azadeh Nilghaz,Nitrite detection with trapping in rGO/Fe2O3 composite based on surface plasmon resonance,Inorganic Chemistry Communications,pp. 114327,2025 06 01.

.13 Hassan Nasiri , Karim Abbasian , Azadeh Nilghaz,Nitrite detection with trapping in rGO/Fe2O3 composite based on surface plasmon resonance,Inorganic Chemistry Communications,pp. 114327,2025 06 01.

.14 Karim Abbasian , Salar Alizadeh , Sajjad Mortazavi,An Approach to Pancreatic Cancer Phototherapy Using CNTs and Carbon Dots,Tabriz Journal of Electrical Engineering,2025 04 11.

.15 Hassan Nasiri ,& Karim Abbasian,Surface plasmon resonance detection of anti-cancer drug flutamide by graphitic carbon nitride/chitosan nanocomposite,Scientific Reports,No. 15,pp. 1129,2025 01 17.

.16 Hassan Nasiri ,& Karim Abbasian,High-sensitive surface plasmon resonance sensor for melamine detection in dairy products based on graphene oxide /chitosan nanocomposite,Food Control,2024 12 01.

.17 Elnaz Akbarpouri Agziyart , Karim Abbasian , Somaye Makouei , Sana Beyg Mohammadi,Investigating changes of functional brain networks in major depressive disorder by graph theoretical analysis of resting-state fMRI,Psychiatry Research: Neuroimaging,pp. 111880,2024 11 01.

.18 Shahrokh Jalili , Karim Abbasian , Mehdi Khatir,Broadband Light Absorption Enhancing in Thin Film Plasmonic Solar Cells Using Coupled Core Double Shell Nanoparticles,Plasmonics,2024 10 19.

.19 Vahid Rajabpour , Karim Abbasian , Mehmet Ertugrul,Core–Shell Plasmonic Nanostructures for Hyperthermia of Cancer and Tumor Cells,Plasmonics,No. 20,pp. 2069,2024 08 20.

.20 Hasan Nasiri , Karim Abbasian , Hamed Baghban,Highly sensitive quantification of Amlodipine in real samples using graphene oxide-chitosan surface plasmon resonance sensor,Sensors and Actuators A: Physical,No. 368,pp. 115152,2024 05 20.

.21 MZ Mashayekhi , K Abbasian , T Nurmohammadi,Dynamical controllable optical device designed by tunable graphene nanostructures in a PIT structure,Optik,2023 11 01.

.22 T Nurmohammadi , K Abbasian , MZ Mashayekhi,Tunable modulators based on single and double graphene-based resonator systems in the mid-infrared spectrum,Optik,2022 12 01.

.23 Mira Dilruba GEY KO LU, KO Hilal , B lent AVU O LU , Mehmet ERTUGRUL , Karim ABBAS AN,Designing graphene-based antenna for terahertz wave ablation (TWA) system,Erzincan University Journal of Science and Technology,2022 08 08.

.24 Shabnam Moshfeghifar , Karim Abbasian , Mohsen M. Gilarlue , Mohammad A. Tavakoli Ghazi Jahani,Designing an optical filter based on subwavelength grating slot waveguide embedded with phase-change material,Frequenz,2022 04 15.

.25 Shabnam Moshfeghifar , Karim Abbasian , Mohsen Mohammadzadeh Gilarlue , MA Tavakoli Ghazi Jahani,Active tunable plasmonic switch designed by metal–insulator–metal waveguides connected to a nanodisk cavity enabled by a phase-change material ring,Optical Engineering,2021 04 19.

.26 Hamed Fooladvand , Karim Abbasian , Hamed Baghban,Multiplexor 4 x 1 de alto rendimiento basado en un transistor de efecto de campo de nanotubos de carbono de pared simple con l gica de transistor de paso similar a CMOS,Revista Ingenier a UC,2020 12 30.

.27 Hanieh Salimzadeh Khatooni , Karim Abbasian , Tofiq Nurmohammadi,A tunable band-stop plasmonic waveguide filter and switch designing with triangular resonator based on Kerr non-linearity,Optik,2020 12 01.

.28 Behnam Jafari , Hadi Soofi , Karim Abbasian,Low voltage, high modulation depth graphene

THz modulator employing Fabry–Perot resonance in a metal/dielectric/graphene sandwich structure,Optics Communications,2020 11 01.

29. Tofiq Nurmohammadi , Karim Abbasian , Reza Yadipour,Numerical study of dumbbell-shaped gold nanoparticles using in plasmonic waveguides in near infra-red spectrums,Optical and Quantum Electronics,pp. 1-13,2018 04 15.

30. Tofiq Nurmohammadi , Karim Abbasian , Reza Yadipour,A proposal for a demultiplexer based on plasmonic metal–insulator–metal waveguide-coupled ring resonator operating in near-infrared spectrum,Optik,pp. 550-556,2017 07 01.

31. MJ As'Adi , K Abbasian , D Armaghan Bostanabad , T Nurmohammadi,Thermal analysis of high-index-contrast grating (HCG)-based VCSEL,Optik,pp. 4017-4022,2014 08 01.

32. T Nurmohammadi , K Abbasian , MJ As'Adi , D Jafari,Design of an ultrafast all-optical NOR logic gate based on Mach-Zehnder interferometer using quantum-dot SOA,Optik,pp. 4023-4029,2014 07 15.

33. A Rostami , K Abbasian , N Gorji,Efficiency optimization in a rainbow quantum dot Solar cell,International Journal on Technical and Physical Problems of Engineering (IJTPE),pp. 106-109,2011 06 01.

34. R Talebi , Karim Abbasian , Ali Rostami,Analytical modeling of quality factor for shell type microsphere resonators,Progress In Electromagnetics Research B,pp. 293-311,2011 05 20.

35. K Eftekhari , K Abbasian , A Rostami,Proposal for all-optical controllable switch using dipole induced transparency (DIT),Optics communications,pp. 1817-1825,2010 05 01.

36. Saeed Golmohammadi , Y Rouhani , Karim Abbasian , Ali Rostami,Photonic bandgaps in quasiperiodic multilayer structures using Fourier transform of the refractive index profile,Progress In Electromagnetics Research B,pp. 311-325,2009 04 20.

37. M Zyaei , H Rasooli Saghai , K Abbasian , A Rostami,Long wavelength infrared photodetector design based on electromagnetically induced transparency,Optics Communications,pp. 3739-3747,2008 06 15.

38. Karim Abbasian , Ali Rostami , Zia Koozekanani,All-optical tunable mirror design using electromagnetically induced transparency,Progress In Electromagnetics Research M,pp. 25-41,2008 03 20.

39. Reza Yadipour , Karim Abbasian , Ali Rostami , Zia Koozekanani,A novel proposal for ultra-high resolution and compact optical displacement sensor based on electromagnetically induced transparency in ring resonator,Progress In Electromagnetics Research,pp. 149-170,2007 03 20.

پایان‌نامه‌ها

۱. تحقق شفافیت القایی پلاسمونی با طراحی یک نانوساختار هیبریدی گرافن-فلز برای کاربرد مدارات مجتمع نانوفتونیکی ، مهشید زندمشایخی

۲. تشخیص زود هنگام مریضی آلزایمر و اختلال شناختی خفیف توسط تصویربرداری پراکندگی جهت و چگالی ریزساختارها در قشر مغز ، سارا قاسمی داکدره

۳. آنالیز تغییر پویای دسته‌ای از شبکه‌های کارکردی حالت استراحت مغز برای جراحی مغز ، شکوفه اکبری

۴. درمان نوری سرطان پانکراس با استفاده از نانو ساختارهای کربنی ، سالار علیزاده باباگنجه

۵. طراحی سیستم درمان فرسایشی تومور با امواج تراهرتز مبتنی بر نانوساختارهای پلاسمونی ، وحید رجب پور

کتاب‌ها

۱. فیزیک الکترونیک حالت جامد