



*Electrical Engineering – Electronics and
/ Telecommunications*

**Gholam-
Mohammad
Parsanasab**

شماره تماس:

رایانامه: gm_parsanasab@sbu.ac.ir

وب سایت:

پرو فایل علم سنجی:

http://scimet.sbu.ac.ir/GholamMohammad_Parsanasab

Education

- Ph.D: , Electrical Engineering – Electronics

Research Interests

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Industry Collaborations

- جهت استفاده در ژنراتور moems کسب دانش فنی طراحی و ساخت حسگر شتاب سنج 1397

- راه اندازی آزمایشگاه و اتاق تمیز جهت انجام پروژه ساخت مدارات مجتمع فرکانس بالای گالیوم آرسناید 1395

Journal Papers

- Single-mode lasing by tailoring the excitation of localized surface plasmon resonances to whispering gallery modes in a microring laser

Fatemeh Moradiani, Pegah Eivazy Arvanagh, Gholam-Mohammad Parsanasab, Alireza Kavousi
OPTICS EXPRESS, Vol.31, pp. 16615-16622, 2023

- An investigation on the effects of geometrical parameters on the sensitivity of micro-disk and micro-ring plasmonic sensors

Mohammad Amin Khanpour, Fatemeh Moradiani, Gholam-Mohammad Parsanasab, Rouhollah Karimzadeh
OPTICS AND LASER TECHNOLOGY, Vol.162, pp. 109236-109245, 2023

- High side-mode suppression ratio with a Vernier effect single-mode laser using triple coupled microrings

■ **A high sensitive, low foot print, SU-8 material-based, light intensity modulated MOMS accelerometer**

Reza Gholamzadeh, Hassan Salarieh, Gholam-Mohammad Parsanasab, Javad Akbari
OPTICAL ENGINEERING, Vol.61, 2022

■ **Design and Fabrication of a Differential MOEMS Accelerometer Based on Fabry-Pérot micro-cavities**

Rahimi Mojtaba, Mohammad Malekmohammad, Majid Taghavi Dehaghani, Mohammad Noori, Gholam-Mohammad Parsanasab
IEEE SENSORS JOURNAL, Vol.22, pp. 1-7, 2022

■ **Versatile selective absorption-based optical fiber toward epinephrine detection**

Tahereh Azargoshasb, Roghaieh Parvizi, H. Ali Navid, Gholam-Mohammad Parsanasab, Hadi Heidari
SENSORS AND ACTUATORS B-CHEMICAL, Vol.372, pp. 132551-132571, 2022

■ **A Closed-Loop MOEMS Accelerometer**

Majid Taghavi Dehaghani, Abolfazl Abedi, Gholam-Mohammad Parsanasab, Mojtaba Rahimi, , HAMZEH NOOROLLAHI, Hamin Latifi
OPTICS EXPRESS, Vol.30, pp. 1-16, 2022

■ **A high extinction ratio plasmonic SU-8 waveguide polarizer**

Peyman Malekzadeh, Gholam-Mohammad Parsanasab, Hamed Nikbakht, Ezeddin Mohajerani, Majid Taghavi Dehaghani, Hamin Latifi
OPTICS COMMUNICATIONS, Vol.487, 2021

■ **A Dual-Axis MOEMS Accelerometer**

Majid Taghavi Dehaghani, Hamin Latifi, Gholam-Mohammad Parsanasab, Abolfazl Abedi, Hamed Nikbakht, Mohammadhossein Poorghadiri Isfahani
IEEE SENSORS JOURNAL, Vol.21, pp. 13156-13164, 2021

■ **Optical Fiber Biosensor toward E-coli Bacterial Detection on the Pollutant Water**

Hoorieh Fallah, Tannaz Asadishad, Gholam-Mohammad Parsanasab, Sulaiman Wadi Harun, Waleed S. Mohammed, Moh. Yasin
Engineering Journal, Vol.25, pp. 1-8, 2021

■ **Efficient Er:Ti:LiNbO₃ ridge waveguide amplifier by patterning As₂S₃ layer**

Keyvan Ahmadi, Abdolnaser Zakery, Gholam-Mohammad Parsanasab
APPLIED PHYSICS B-LASERS AND OPTICS, Vol.125, 2019

■ **Investigation of a High-Power Low-Threshold Single-Mode Microsphere Laser Using a Serially Coupled Double Microsphere Structure**

Marzieh Saffari, Asghar Gholami, Gholam-Mohammad Parsanasab, Firouzeh Zaker Hossein
JOURNAL OF LIGHTWAVE TECHNOLOGY, Vol.37, pp. 3273-3279, 2019

■ **Random lasing emission from FTO and glass substrates coated with dye doped SU-8 epoxy based polymer**

Peymaneh Raffiepour, Abbas Ghasempour Ardakani, Gholam-Mohammad Parsanasab
OPTICS AND LASER TECHNOLOGY, Vol.119, 2019

■ **Simulation, Fabrication, and Characterization of a Sensitive SU-8-Based Fabry-Perot MOEMS Accelerometer**

Majid Taghavi Dehaghani, Hamin Latifi, Gholam-Mohammad Parsanasab, Abolfazl Abedi, Hamed Nikbakht, Mohammadjavad Sharifi
JOURNAL OF LIGHTWAVE TECHNOLOGY, Vol.37, pp. 1893-1902, 2019

■ **Utilizing polarization-selective mode shaping by chalcogenide thin film to enhance the performance of graphene-based integrated optical devices**

Hamed Nikbakht, Hamin Latifi, Gholam-Mohammad Parsanasab, Majid Taghavi Dehaghani, Maryam Riyahi
Scientific Reports, Vol.9, 2019

■ **Synthesis and Characterization of Soluble Aromatic Polyesters with Side-Chain Azobeneze and Azothiazole Chromophores**

Shadi Asgari, Gholam Ali Koohmareh, Gholam-Mohammad Parsanasab
POLYMER SCIENCE SERIES B, Vol.60, pp. 218-230, 2018

■ **Femtosecond laser direct writing of single mode polymer micro ring laser with high stability and low pumping threshold**

Gholam-Mohammad Parsanasab, Alireza Gharavi, Mojtaba Moshkani
OPTICS EXPRESS, Vol.23, pp. 8310-8316, 2015

■ **Growth of a seven pointed star shaped of vertical and uniform ZnO nanostructures on optical fiber via catalyst-free VLS mechanisms**

Hamid-Reza Fallah, Gholam-Mohammad Parsanasab, Parvin Sorayaie, Mohammad-Hasan Yusefi
APPLIED PHYSICS A-MATERIALS SCIENCE and PROCESSING, Vol.118, pp. 519-524, 2015

■ **Fabrication of tapers with Gaussian refractive-index profile in azo polymers**

Khadije Miar-Abas-Kiani, Gholam-Mohammad Parsanasab, Alireza Gharavi
APPLIED PHYSICS B-LASERS AND OPTICS, Vol.111, pp. 429-432, 2013

■ **Integrated Polymeric All-Optical Switch**

Gholam-Mohammad Parsanasab, Alireza Gharavi, Hamid Reza Karimi-Alavijeh, Soheil Soltani
JOURNAL OF LIGHTWAVE TECHNOLOGY, Vol.29, pp. 2801-2804, 2011

■ **Two-dimensional photonic crystal for optical channel separation in azo polymers**

Mohammad-Amin Baghban, Gholam-Mohammad Parsanasab, Alireza Gharavi, Hamidreza Karimi-Alavijeh
APPLIED OPTICS, Vol.48, pp. 3250-3254, 2009

■
Gholam-Mohammad Parsanasab
International Journal of Optics and Photonics, Vol.2, pp. 33-38, 2008

■ **Fabrication of graded index waveguides in azo polymers using a direct writing technique**

Mohammad-Amin Baghban, Gholam-Mohammad Parsanasab, Alireza Gharavi, Sirius Javadpour, Hamidreza Karimi-Alavijeh, Edris Sarailou, Vladimir Shkunov
APPLIED PHYSICS LETTERS, Vol.92, pp. 411050-411053, 2008

■ **Add/drop filter using in-plane slanted gratings in azo polymers**

Mohammad-Amin Baghban, Alireza Gharavi, Gholam-Mohammad Parsanasab, Sirius Javadpour, Hamidreza Karimi-Alavijeh, Edris Sarailou
OPTICS LETTERS, Vol.33, pp. 2152-2154, 2008

Conference Papers

■ **Fabrication and characterization of two concentric microring laser**

Alireza Kavousi, moradiani fatemeh, Gholam-Mohammad Parsanasab
The 4th Iranian International Conference on Microelectronics

■ **تزیوچ نور و اندازهگیری تلفات در موجبرهای اس یو ۸**

محسن میرمحمدی، غلام محمد پارسانسب، محمد طالبی خوشمهر
بیست و هشتمین کنفرانس اپتیک و فوتونیک ایران

■ **بررسی پراکنش ذرات خارجی بر روی لیزرهای میکروحلقه**

پگاه عیوضی اروانق، فاطمه مرادیانی، محمد طالبی خوشمهر، غلام محمد پارسانسب
بیست و هشتمین کنفرانس اپتیک و فوتونیک ایران

■ **لایه نشانی چرخشی مواد چلکوجناید برای لیتوگرافی**

غلام محمد پارسانسب، مجید تقوی دهاقانی، مستاجران سمانه
بیست و ششمین کنفرانس اپتیک و فوتونیک و دوازدهمین کنفرانس مهندسی و فناوری فوتونیک ایران

■ **ساخت و مشخصه یابی قطبشی موجبرهای اس یو ۸ در مدارهای مجتمع نوری**

پیمان ملک زاده، غلام محمد پارسانسب، عزالدین مهاجرانی
بیست و ششمین کنفرانس اپتیک و فوتونیک و دوازدهمین کنفرانس مهندسی و فناوری فوتونیک ایران

■ **ساخت و مشخصه یابی میکرولیزرهای بطری شکل**

M.Sc. Theses

- Experimental setup for optical waveguide profile measurement

Ali Yousefi azhang

2023

- microring resonator lasers

Pegah Eivazy Arvanagh

2023

■

Mobin Yaghoobi

2023

- Design and fabrication of Bragg grating on Su-8 _ As₂S₃ double layer waveguides

Afshin Mafakheri bashmag

2022

- Design and fabrication of SU-8 strip-loaded waveguide on chalcogenide-LiNbO₃ substrate

Mohsen Mirmohammadi

2022

- Design and fabrication optical logic gates

Peyman Malekzadeh

2019