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h-index (Scopus):

12

Citations (Scopus):

557



Supervised MSc Theses

#	Thesis title	By	Date
1	optical spectroscopy of blood disease	G & Amir Jafargholi	August 2021
2	new design of Fiber Optic and ring laser Gyroscope by optimization of geometrical structure and laser characteristics	Ali Karimi & Amir Jafargholi	August 2021
3	Acoustic imaging based on Q-Switch laser acoustic pulse	Rahele Allaf Zade & Amir Jafargholi	August 2021
4	Design and simulation of terahertz detector	Kaveh Rostami & Amir Jafargholi	April 2021
5	LIF spectroscopy of blood components to diagnose hepatitis b	Arezoosadaat Hosseini & Amir Jafargholi	March 2021
6	Design and implementation of improved laser induced fluorescence imaging setup based on spectral shift analysis	Seyedali Dehghanian & Amir Jafargholi	February 2020
7	approach for biosensing based on plasmonic nanorod metamaterials using artificial neural network (ANN)	Mehdi Raji & Amir Jafargholi	February 2020
8	optical spectroscopy of cholesterol, triglyceride and urea to diagnose related disease	Zahra Zare & Amir Jafargholi	September 2019
9	Diagnosis of diabetes using Laser-induced fluorescence (LIF)	Hesam Ghasemi & Amir Jafargholi	July 2019

Journal Papers

Portal Records

- 1 Seyedeh Solaleh Seyyedi Badeli, Parviz Parvin, Amir Jafargholi, Ali Abbasian, Mohammadreza Mehdinejad, Ahmad Khorrami, Mohsen Mehrabi,, "Fluorescence emission quenching of RdB fluorophores in attendance of various blood type RBCs based on Stern-Valmer formalism", SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, November 2020 Vol. 248, Num. 119237, Page 1-10, November 2020,
- 2 Seyedeh Solaleh Seyyedi Badeli, Parviz Parvin, Amir Jafargholi, Saied Jelvani, Majid Shahabi, Maryam Shahbazi, Parisa Mohammadimatin,, "Fluorescence properties of Phycocyanin and Phycocyanin-human serum albumin complex", SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, October 2020 Vol. 239, Num. 118468, Page 1-10, October 2020,
- 3 Seyedeh Solaleh Seyyedi Badeli, Parviz Parvin, Amir Jafargholi, Seyede Nazanin Hashemi, Seyed Morteza Tabatabaee, Ali Abbasian, Ahmad Khorrami, "Spectroscopic properties of various blood antigens/antibodies", Biomedical Optics Express, April 2020 Vol. 11, Num. 4, Page 2298-2312, April 2020,
- 4 Seyed Saleh Mousavi Khaleghi, Gholamreza Moradi, Reza Sarraf Shirazi, Amir Jafargholi, "Microstrip Line Impedance Matching Using ENZ Metamaterials, Design, and Application", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, April 2019 Vol. 67, Num. 4, Page 2243-2251, April 2019,
- 5 Mohammad Bod, Reza Sarraf Shirazi, Gholamreza Moradi, Amir Jafargholi, Amir Moalemizadeh, "A Hybrid Tikhonov Source Current Reconstruction Method for Large-Scale Problems", IET MICROWAVES ANTENNAS & PROPAGATION, September 2017 Vol. 1, Num. 1, Page 1-1, September 2017,
- 6 Mohammad Bod, Reza Sarraf Shirazi, Gholamreza Moradi, Ali Kiaee, Amir Jafargholi, "A decoupled source current reconstruction method for noisy and reactive near-field to far-field transformation", INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, August 2017 Vol. 0, Num. 0, Page 1-10, August 2017,
- 7 Amir Jafargholi, Seyed Abbas Akbarzadeh, Mohammad Hossein Mazaheri Kalahrody, "Wideband Microstrip Patch Antenna Using ENZ Metamaterials", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, June 2014 Vol. 56, Num. 9, Page 2080-2084, June 2014,

Conference Papers

Portal Records






- 1 Zahra Zare, Parviz Parvin, Amir Jafargholi, Mozghan Zarei Farani, Shirin Gholami, "Urea Spectroscopy at Different Concentrations ", 26th Iranian Conference on Optics and Photonics (ICOP 2020)and 12th Iranian Conference on Photonics Engineering and Technology(ICPET 2020), February 2020
- 2 Zahra Zare, Parviz Parvin, Amir Jafargholi, Shirin Gholami, Mozghan Zarei Farani, "Cholesterol Spectroscopy at Different Concentrations ", 26th Iranian Conference on Optics and Photonics (ICOP 2020)and 12th Iranian Conference on Photonics Engineering and Technology(ICPET 2020), February 2020
- 3 Mozghan Zarei Farani, Parviz Parvin, Shirin Gholami, Zahra Zare, Amir Jafargholi, "LIBS analysis and comparison of the copper sample in the simulated Mars and Earth gaseous atmosphere ", 26th Iranian Conference on Optic & Photonics (ICOP 2020) & 12TH Iranian Conference on Photonics Engineering and Technology (ICPET 2020), February 2020
- 4 Ava Dashti, Mahnaz Eskandari, Layla Farahmand, Parviz Parvin, Amir Jafargholi, "In vitro Study of Laser Diode Radiation Effect on the Photo-Damage of MCF-7 and MCF-10A Cell Clusters ", ICBBE 2019 : 21st International Conference on Biophysical and Biomedical Engineering, June 2019

- 5 Ava Dashti, Mahnaz Eskandari, Leila Farahmand, Parviz Parvin, Amir Jafarholi, Neda Jalili, "In vitro study of the laser irradiation on destruction of breast cancer cells ", The First International Iranian Tissue Engineering and Regenerative Medicine, July 2018

Awards & Honors

#	title	Date
1	Received the "Distinguished Inventor" Award, Amirkabir University of Technology	2019
2	Received the "Selected Projects of Universities and Research Institutes" Award, Ministry of Science, Research and Technology	2018
3	Received the "Distinguished Industrial Researcher" Award, Amirkabir University of Technology	2018
4	Received the "Dr. Kazemi Ashtiani" Research Grant Award for Young Assistant Professor, Iran's National Elite Foundation	2013
5	Received the "Distinguished Researcher" Award, K.N. Toosi University of Technology	2011
6	Ranked First in 13th Khawarizmi, Youth Award	2011
7	Research Grant Awarded in Metamaterial	2010
8	Ranked second in 22th Khawarizmi, International Awarded	2009
9	Ranked first in 10th Student Best Thesis National Festival, for BS. Thesis	2006

Taught Courses

#	Course title	Description	Headlines	Date
1	Computer Prog.	Introduction to programming using a high level programming language. Conditionals, I/O, Files, Functions, Classes, Pointers, Dynamic Memory, Linear Linked lists, Recursion and Multi-Dimensional Arrays. Program correctness, verification, and testing.		Fall 2021
2	Computer Prog.	Introduction to programming using a high level programming language. Conditionals, I/O, Files, Functions, Classes, Pointers, Dynamic Memory, Linear Linked lists, Recursion and Multi-Dimensional Arrays. Program correctness, verification, and testing.		Fall 2021
3	(Laser Application (1	Review findings on Optics and Photonics for the purpose of PhD and MSc thesis		Spring 2021
4	Electric Energy Systems (II)	The course will help students understand how power systems are modeled both at the distribution and transmission levels. The course covers long-distance transmission of electric power with emphasis on admittance and impedance modeling of components a		Spring 2021
5	Computer Prog.	Introduction to programming using a high level programming language. Conditionals, I/O, Files, Functions, Classes, Pointers, Dynamic Memory, Linear Linked lists, Recursion and Multi-Dimensional Arrays. Program correctness, verification, and testing.		Fall 2020

6 Computer Prog. Introduction to programming using a high level programming language. Conditionals, I/O, Files, Functions, Classes, Pointers, Dynamic Memory, Linear Linked lists, Recursion and Multi-Dimensional Arrays. Program correctness, verification, and testing.



Fall
2020

Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	System for determining the sucrose concentration in honey based on the impact of sucrose molecules on self-absorption of the laser induced fluorescence by flavonoids in honey.				2020/01/1	-