



دانشگاه صنعتی امیرکبیر  
(پلی تکنیک تهران)

پست الکترونیک:

madanipour@aut.ac.ir

شماره تماس:

:(Scopus) h-index

10

:ارجاعات (Scopus):

295



### خسرو معدنی پور

دانشیار

دانشکده فیزیک و مهندسی انرژی

گروه آموزشی فیزیک کاربردی

### رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	شبیه سازی برهمکنش لیزر با دی الکترونیک متناوب بمنظور بهبود شتاب دهی الکترون	احسان شجاعی و خسرو معدنی پور	مهر 1400
2	سنتز فوتوترمال و شیمیایی نانوکامپوزیت های اکسید گرافن احیاء شده به عنوان فوتوآند برای سلولهای خورشیدی پلیمری	زهرا فخاران جدی و خسرو معدنی پور	مهر 1398
3	توسعه روش های اپتیکی ساخت توری براگ فیبری در لیزر فیبری تک بسامد	رضا پوزش و خسرو معدنی پور	اردیبهشت 1398
4	بکارگیری ماره نمونه برداری در اندازه گیری های ابعادی	سهیلا جوادیان ورجوی و خسرو معدنی پور	تیر 1397
5	استفاده و بهینه سازی مقطع نگاری ماره ای برای مشخصه یابی میکرو ساختارها	شهرزاد شهرابی فراهانی و خسرو معدنی پور	دی 1396

### پایان‌نامه‌های کارشناسی ارشد

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	بررسی مواجهه استدلال عدم معجزه و فرااستقرا بدبینانه با توجه ویژه به برخی نظریات فیزیکی فریدون سروشیان و خسرو معدنی پور	محمد زرگرانی و خسرو معدنی پور	مهر 1400
2	اندازه گیری مشخصه های اپتیکی مواد زیستی مبتنی بر قطبش سنجی	محمد زرگرانی و خسرو معدنی پور	شهریور 1400

3	پایدارسازی توانی و کوک‌پذیری طول موجی لیزرهای دیودی جهت کاربردهای اندازه‌شناسی طول	علی رضا لنجانی و خسرو معدنی پور	مهر 1399
4	ساخت حسگر فتونیکی مبتنی بر مدولاتور اپتیکی ماخ زندر در بستر LiNbO3	ایدا کشاورزی و خسرو معدنی پور	اردیبهشت 1399
5	استفاده از پدیده ی خودتصویری در رویه نگاری اپتیکی در ابعاد کوچک	افسانه اقبالی یل دگرمانی و خسرو معدنی پور	بهمن 1398
6	مطالعه پدیده ترابرد کوانتومی مبتنی بر نظریه اطلاعات و بررسی روشهای تجربی آن	غزاله اسماعیلی دهقی و خسرو معدنی پور	اردیبهشت 1398
7	طراحی و ساخت مدولاتور نوری کوپلاژ مستقیم	احمد حسین پور و خسرو معدنی پور	اردیبهشت 1398
8	سنتز و بکارگیری نانو کامپوزیت های گرافن اکسید احیا شده /پلاتین بعنوان لایه انتقال دهنده حفره در سلول های خورشیدی پلیمری	سیدمسعود حسینی و خسرو معدنی پور	بهمن 1397
9	اندازه گیری ضریب واقتبش بافت بوسیله ی نور همدوس لیزر در طول موج RGB	فرزانه صدیقی و خسرو معدنی پور	بهمن 1397
10	چیدمان تصویر برداری از ضایعات پوستی در طول موج های RGB به منظور تشخیص ضایعات سرطانی	ارمغان وحیدنیا و خسرو معدنی پور	بهمن 1397
11	اجرای سامانه لیتوگرافی لیزری با استفاده از لیزر پالسی پیکوثانیه ماورای بنفش در هارمونیک سوم Nd:YAG	امید چوپانیان و خسرو معدنی پور	مهر 1394
12	اندازه گیری توزیع ضریب شکست در موجبرهای نوری	محمد احمدی و خسرو معدنی پور	مهر 1394
13	تحلیل اپتیکی سه بعدی ناهمواری سطحی در لایه های نانوالیافی	معصومه تقی زاده و خسرو معدنی پور	بهمن 1393
14	طراحی یک تحریک کننده ارتعاشی از نوع الکترو- اپتیک برای سازه منعطف	حبیب اله باتمان غلیچ و خسرو معدنی پور	خرداد 1393
15	بررسی ارتعاشات سیستم های دوار، با استفاده از روش پردازش تصویر	جواد حسین زاده و خسرو معدنی پور	اسفند 1392
16	طراحی و پیاده سازی سیستم اندازه گیری جابجایی های زیر میکرونی با استفاده از تکنیک ماره	علی تنه کار و خسرو معدنی پور	بهمن 1392
17	اندازه گیری ذرات عبور یافته از نانو فیلترها	محسن طیبی نسب و خسرو معدنی پور	اسفند 1391
18	بررسی انتگرال ل برای مواد مرتبه ای (FGS) با شیار U شکل با در نظر گرفتن اثرات پلاستیک	حمیدرضا منجم و خسرو معدنی پور	بهمن 1391
19	کمی سازی زبری سطح درزسنگ و تعیین هندسه درز سنگ به کمک روش پردازش تصویر	محسن خداپرست و خسرو معدنی پور	بهمن 1390
20	اندازه گیری و بهبود نمایه سه بعدی چهره با استفاده از تکنیک رویه نگاری ماره	فاطمه محمدی و خسرو معدنی پور	آبان 1389
21	اندازه‌گیری دما و جابجایی با استفاده از حسگرهای فیبر نوری	مرضیه کبیری و خسرو معدنی پور	مرداد 1389
22	آنالیز طیفی اثر انگشت دست به روش LIF به منظور طراحی یک سیستم آشکارسازی اثر انگشت نهان	محمد سنگری و خسرو معدنی پور	مرداد 1388
23	اندازه‌گیری تابع انتقال اپتیکی با استفاده از تکنیک ماره برای آزمون دستگاه‌های اپتیکی	آمنه بستانی و خسرو معدنی پور	خرداد 1388
24	مورفولوژی سنگ کلیه پس از پرتو دهی با لیزر یاگ (و هماهنگ دوم آن ) به منظور تعیین مرز فرآیند کندگی پلاسمایی (PIA) با گسیختگی نور (PD)	محمد کراچی و خسرو معدنی پور	بهمن 1387

بهمن 1387	معصومه مشکل گشا و خسرو معدنی پور	25 سنجش کیفیت روغن ترانسفورماتور HV به روش طیف سنجی پلاسمایی القایی لیزری (LIPS) و طیف سنجی فلورسانسی القایی لیزری (LIF)
بهمن 1387	سمیرا فاتحی و خسرو معدنی پور	26 بررسی اثرات حرارتی در میله لیزر Nd:YAG و هوا به روش تداخل سنجی

## مقالات ژورنال

### داده های ثبت شده در پورتال

- 1 Naser Abbasi, Mohammad Reza Razfar, S.Mehdi Rezaei, Khosro Madanipour, Mohsen Khajehzadeh, "Experimental investigation of deep-hole micro-drilling of glass using LIPAA process", *MATERIALS AND MANUFACTURING PROCESSES*, Vol. 0, Num. 0, Page 1-11, November 2021,
- 2 Armaghan Vahidnia, Khosro Madanipour, Robabeh Abedini, Reza Karimi, Joseph Sanderson, Zahra Zare, Parviz Parvin, "Quantitative polarimetry Mueller matrix decomposition approach for diagnosing melanoma and non-melanoma human skin cancer", *OSA Continuum*, Vol. 4, Num. 11, Page 2862-2874, November 2021,
- 3 Zahra Fakhara, Laila Naji, Khosro Madanipour, Ali Dabirian, "Complex Electrochemical Study of Reduced Graphene Oxide/Pt Produced by Nd:YAG Pulsed Laser Reduction as Photo-Anode in Polymer Solar Cells", *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*, Vol. 880, Num. 0, Page 114927-114940, December 2020,
- 4 Ehsan Shojaie, Khosro Madanipour, Alireza Bahrapour, "Two-axis dielectric laser acceleration using two orthogonal laser pulses in a dual-grating base structure", *APPLIED OPTICS*, Vol. 59, Num. 7, Page 2135-2140, February 2020,
- 5 Zahra Fakhara, Laila Naji, Khosro Madanipour, "Nd:YAG pulsed laser production of reduced graphene oxide as hole transporting layer in polymer solar cells and the influences of solvent type", *ORGANIC ELECTRONICS*, Vol. 76, Num. 76, Page 105459-105469, September 2019,
- 6 Samaneh Birzhandi, Khosro Madanipour, Saeed Ghanbari, "Nonlinear refractive index measurement of a trapped particle with Shack-Hartmann wavefront sensor", *OPTICS COMMUNICATIONS*, Vol. 444, Num. 0, Page 154-159, April 2019,
- 7 Zahra Fakhara, Laila Naji, Khosro Madanipour, "Surface roughness regulation of reduced-graphene oxide/iodine - Based electrodes and their application in polymer solar cells", *JOURNAL OF COLLOID AND INTERFACE SCIENCE*, Vol. 540, Num. 0, Page 272-284, January 2019,
- 8 Reza Poozesh, Khosro Madanipour, Parviz Parvin, "Single-frequency gain-switched ytterbium-doped fiber laser at 1017 nm based on dynamic self-induced grating in saturable absorber", *OPTICS LETTERS*, Vol. 44, Num. 1, Page 122-125, December 2018,
- 9 A.H. Shahbazi, A. Koohian, Khosro Madanipour, M. Azadeh, "Theoretical and experimental investigation of continuous-wave laser scribing on metal thin film: effect of power", *APPLIED OPTICS*, Vol. 57, Num. 34, Page 9988-9996, October 2018,
- 10 Reza Poozesh, Khosro Madanipour, Parviz Parvin, "High SNR Watt-level single frequency Yb-doped fiber laser based on a saturable absorber filter in a cladding-pumped ring cavity", *JOURNAL OF LIGHTWAVE TECHNOLOGY*, Vol. 36, Num. 20, Page 4880-4886, October 2018,
- 11 Sepehr Razi, Olga Varlamova, Juergen Reif, Michael Bestehorn, Sergej Varlamov, Mahmoud Mollabashi, Khosro Madanipour, Markus Ratzke, "Birth of periodic Micro/Nano structures on 316L stainless steel surface following femtosecond laser irradiation; single and multi scanning study", *OPTICS AND LASER TECHNOLOGY*, Vol. 104, Num. 1, Page 8-16, August 2018,
- 12 Fatemeh Ghasemi, Sepehr Razi, Khosro Madanipour, "Single-Step Laser-Assisted Graphene Oxide Reduction and Nonlinear Optical Properties Exploration via CW Laser Excitation", *JOURNAL OF ELECTRONIC MATERIALS*, Vol. 47, Num. 5, Page 2871-2879, May 2018,
- 13 Soheyla Javadian Varjovi, Khosro Madanipour, "Modeling and empirical investigation of white light-color sampling moiré", *OPTICAL ENGINEERING*, Vol. 57, Num. 5, Page 1-11, May 2018,

- 14 Hassan Haghizavareh, Aliakbar Merati, Zahra Khorram Toussi, Khosro Madanipour, "Design of Optical Fiber Display in Weft Knitting", , Vol. 3, Num. 19, Page 31-36, December 2017,
- 15 Mohammad Ahmadi, Khosro Madanipour, Soheyla Javadian Varjovi, "Measurement of refractive index profiles in optical waveguides by moiré deflectometry technique", *APPLIED OPTICS*, Vol. 56, Num. 28, Page 7826-7831, October 2017,
- 16 Shahrzad Shahrabi, Khosro Madanipour, Ata Koohian, "Experimental investigation of thermal effects in laser-nanofluid interaction by moiré technique", *APPLIED OPTICS*, Vol. 56, Num. 31, Page 8664-8668, October 2017,
- 17 Firooz Bakhtiari Nejad, Khosro Madanipour, Javad Hosseinzadeh, "Vibration Identification of Rotating Systems by Image Processing", , Vol. 5, Num. 11, Page 95-112, August 2017,
- 18 Shahrzad Shahrabi, Khosro Madanipour, Ata Koohian, "Nonscanning Moiré deflectometry for measurement of nonlinear refractive index and absorption coefficient of liquids", *APPLIED OPTICS*, Vol. 56, Num. 13, Page 3634-3638, May 2017,
- 19 Zahra Fakhara, Laila Naji, Khosro Madanipour, "Investigating the effects of oxidation conditions, thickness and temperature on the electrical conductivity of reduced graphene oxide transparent thin films", *Journal of Science and Engineering Elites*, Vol. 1, Num. 2, Page 251-262, March 2017,
- 20 Nazanin Ezazshahabi, Mohammad Amani Tehran, Masoud Latifi, Khosro Madanipour, "Modelling of Surface Roughness Based on Geometrical Parameters of Woven Fabrics", *Indian Journal of Fibre & Textile Research*, Vol. 42, Num. 0, Page 43-50, March 2017,
- 21 Amir Hossein Shahbazi, Atakoochian, Khosro Madanipour, "Effect of scanning speed on continuous wave laser scribing of metal thin films: theory and experiment", *LASER PHYSICS*, Vol. 27, Num. 16101, Page 1-8, January 2017,
- 22 Mohammad Ahmadi, Khosro Madanipour, "Investigation of phase object trace duplication in moiré deflectometry", *APPLIED OPTICS*, Vol. 55, Num. 36, Page 10370-10374, December 2016,
- 23 Reza Poozesh, Khosro Madanipour, Vahid Vatani, "Spectral interference fringes in chirped large-mode-area fiber Bragg gratings", *OPTICAL FIBER TECHNOLOGY*, Vol. 31, Num. 0, Page 134-137, September 2016,
- 24 Zahra Fakhara, Laila Naji, Khosro Madanipour, Sholeh Kazemifard, "The effect of graphene as electrode material on power conversion efficiency of polymer solar cells", , Vol. 3, Num. 1, Page 7-15, August 2016,
- 25 Sepehr Razi, Khosro Madanipour, Mahmoud Mollabashi, "Laser surface texturing of 316L stainless steel in air and water: A method for increasing hydrophilicity via direct creation of microstructures", *OPTICS AND LASER TECHNOLOGY*, Vol. 80, Num. 0, Page 237-246, June 2016,
- 26 Sepehr Razi, Mahmoud Mollabashi, Khosro Madanipour, "Laser processing of metallic biomaterials: An approach for surface patterning and wettability control", *The European Physical Journal Plus*, Vol. 130, Num. 247, Page 1-12, December 2015,
- 27 Amir Hossein Shahbazi, Khosro Madanipour, Ata Koohian, "Defocusing Effect Studies in MTF of CCD Cameras Based on PSF Measuring Technique", *International Journal of Optics and Photonics*, Vol. 9, Num. 2, Page 87-92, November 2015,
- 28 Sepehr Razi , Khosro Madanipour, Mahmoud Mollabashi, "Improving the hydrophilicity of metallic surfaces by nanosecond pulsed laser surface modification", *JOURNAL OF LASER APPLICATIONS*, Vol. 27, Num. 4, Page 420061-420069, August 2015,
- 29 Nazanin Ezaz Shahabi, Masoud Latifi, Mohammad Amani Tehran, Khosro Madanipour, "Measurement of Yarn Density in Woven Fabrics Using Fringe Projection Moiré Techniques", *Indian Journal of Fibre & Textile Research*, Vol. 40, Num. 2, Page 203-207, June 2015,
- 30 Nazanin Ezaz Shahabi, Mohammad Amani Tehran, Masoud Latifi, Khosro Madanipour, "Surface Roughness Assessment of Woven Fabrics Using Fringe Projection Moiré Techniques", *FIBRES & TEXTILES IN EASTERN EUROPE*, Vol. 23, Num. 0, Page 76-84, May 2015,
- 31 Sepehr Razi, Mahmud Mollabashi, Khosro Madanipour, "Nanosecond laser surface patterning of bio grade 316L stainless steel for controlling its wettability characteristics", *International Journal of Optics and Photonics*, Vol. 9, Num. 1, Page 43-52, March 2015,

- 32 Mehrdadbaghery, Atakoohian, Khosro Madanipour, "Numerical analysis of laser and nanofluids thermal interaction", *OPTICS COMMUNICATIONS*, Vol. 313, Num. 0, Page 56-61, February 2014,
- 33 Arezoo Zakeri , Mohammad Hossein Miran Baygi , Khosro Madanipour, "Singular value analysis of the Mueller matrix in comparison with eigenvalue analysis of the coherency matrix in polarization characterization of media", *APPLIED OPTICS*, Vol. 52, Num. 33, Page 7859-7866, November 2013,
- 34 Arezoo Zakeri, Mohammad Hossein Miran Baygi, Khosro Madanipour, "Polarization characterization of biological tissues using Stokes vector decomposition", *JOURNAL OF MODERN OPTICS*, Vol. 60, Num. 12, Page 987-992, September 2013,
- 35 Sedigheh Najafi, Khosro Madanipour, "Measurement of the modulation transfer function of a charge-coupled device array by the combination of the self-imaging effect and slanted edge method", *APPLIED OPTICS*, Vol. 52, Num. 19, Page 4724-4727, July 2013,
- 36 Fatemeh Salimi Meidanshahi, Khosro Madanipour, Babak Shokri, "Measurement of Temperature and Electrons Density distribution of Atmospheric Arc Plasma by moiré deflectometry technique", *OPTICS AND LASERS IN ENGINEERING*, Vol. 51, Num. 4, Page 382-387, April 2013,
- 37 Adeleh Granmayeh Rad , Khosro Madanipour, Ata Koochian , Narges Taheri, "Identification of Nonlinear Refractive Index of Colloidal Nanoparticles by Moiré Deflectometry Technique", *JOURNAL OF THE EUROPEAN OPTICAL SOCIETY-RAPID PUBLICATIONS*, Vol. 7, Num. 12034, Page 120341-120345, September 2012,
- 38 Siamak Faraji Khah, Khosro Madanipour, Siamak Saharkhiz, Masoud Latifi, "Shadow Moire Aided 3-D Reconstruction of Fabric Drape", *FIBERS AND POLYMERS*, Vol. 13, Num. 7, Page 928-935, September 2012,
- 39 Fatemeh Mohammadi, Khosro Madanipour, Amir Hossein Rezaei, "Accuracy Enhancement of 3D Profilometric Human Face Reconstruction using Undecimated Wavelet Analysis", *APPLIED OPTICS*, Vol. 51, Num. 16, Page 3120-3131, June 2012,
- 40 6- Fatemeh Salimi Meidanshahi, Khosro Madanipour, Babak Shokri, "Investigation of first and second ionization on optical properties of atmospheric plasmas", *OPTICS COMMUNICATIONS*, Vol. 285, Num. 4, Page 453-458, February 2012,
- 41 A. Granmayeh Rad, S. H. Nabavi, A. Koochian, Khosro Madanipour, "Nonlinear responses and quantum yield measurement of DCJ dye under CW laser illumination", *Journal of Theoretical and Applied Physics*, Vol. 5, Num. 1, Page 35-39, June 2011,
- 42 Samira Fatehi, Khosro Madanipour, Parviz Parvin, "Measurement of the convective heat transfer coefficient around a vertical hot wire in different heights using Michelson interferometer based on Abel transform", *Physics Express*, Vol. 1, Num. 2, Page 124-132, May 2011,
- 43 Khosro Madanipour, [en-name N/A], "Moiré fringes as two-dimensional autocorrelation of transmission function of linear gratings and its application for modulation transfer function measurement", , Vol. , Num. , Page 0-0, January 2010,
- 44 [en-name N/A], Khosro Madanipour, "Investigation of the accuracy of different methods of interferogram analysis for calculation of local free convection heat transfer coefficient on axisymmetric objects", , Vol. , Num. 33, Page 0-0, November 2009,
- 45 Khosro Madanipour, [en-name N/A], "Detrmination of Modulation Transfer Function of a Printer by Measuring the Autocorrelation of the Transmission Function of a Printed Ronchi Grating", , Vol. , Num. 4, Page 0-0, February 2009,
- 46 Khosro Madanipour, "Application of moiré technique to the measurement of modulation transfer functions (MTF) of printing systems", , Vol. , Num. 45, Page 0-0, January 2007,

- 1 Ehsan Shamsi, Abolfazl Ramezani Zare, Khosro Madanipour, "Examine the effects of scatterer particles in illustration process with measurement of MTF by digital moiré technique ", The 27th Iranian Conference on Optics and Photonics (ICOP 2021) and the 13th Iranian Conference on Photonics Engineering and Technology (ICPET 2021), February 2021
- 2 Farzaneh Seddighi, Tahereh Mohammadi, Hesam Ghasemi, Khosro Madanipour, Parviz Parvin, "polarimetry of glucose using linear He-Ne laser ", 26th Iranian Conference on Optic & Photonics (ICOP 2020) & 12TH Iranian Conference on Photonics Engineering and Technology ( ICPET 2020), February 2020
- 3 Alireza Lanjani, Amir Hossein Shahbazi, Khosro Madanipour, "Experimental Investigation of Temperature Effects on CW Laser Diode Parameters ", The 26th Iranian Conference on Optics and Photonics, February 2020
- 4 Alireza Lanjani, Amir Hossein Shahbazi, Khosro Madanipour, "Investigation of Laser Diodes Efficiency Under Frequency Modulation ", The 26th Iranian Conference on Optics and Photonics, February 2020
- 5 Zahra Fakharan, Laila Najj, Khosro Madanipour, "Effect of concentration and time of exposure on the electrical conductivity of reduced graphene oxide nanosheets during 532 nm Nd:YAG pulsed laser reduction ", 7th International congress on nanoscience and nanotechnology, September 2018
- 6 Samaneh Biezhandi, Khosro Madanipour, Shahrzad Shahrabi, Saeed Ghanbari, "Refractive index effect on aberration correction of optical tweezers ", SPIE Optical Metrology, June 2017
- 7 Shahrzad Shahrabi, Khosro Madanipour, "Nonlinear Absorption Coefficient Measurement of Nanofluids Using Moiré Deflectometry Technique ", SPIE Optical Metrology, June 2017
- 8 Aliakbar Merati, Zahra Khorram Toussi, Khosro Madanipour, Hassan Haghizavareh, "Design of wearable knitted Textile Display using Optical Fiber ", 6th Fajr International Fashion & Clothing Festival, February 2017
- 9 Nazanin Ezaz Shahabi, Masoud Latifi, Mohammad Amani Tehran, Khosro Madanipour, "A Model Based on Woven Fabric Structural Factors to Predict Surface Roughness Using Optimization Genetic Algorithm ", The 10th National Conference on Textile Engineering, April 2016
- 10 Amir Hossein Shahbazi, Mohammad Azadeh, Khosro Madanipour, Ataollah Koohian, "Constructing Photomask for Mach – Zehnder Waveguide using Laser Scanning ", The 22nd Iranian Conference on Optics and Photonics (ICOP 2016), and the 8th Iranian Conference on Photonics Engineering and Technology (ICPET 2016), January 2016
- 11 Mohammad Ahmadi, Khosro Madanipour, "Investigation of effect of gratings distance on moiré deflectometry accuracy and definition of deflectometry accuracy test(DAT) ", The 4th Iranian Conference on Optics and Laser Engineering, September 2015
- 12 Omid Choupanian, Amirhossein Shahbazi, Khosro Madanipour, Ataollah Koohian, "Investigating the effects of laser scanning speed and radiation intensity on picosecond pulsed laser ablation of Copper thin-film to optimize fabrication of lithography mask by laser direct writing method ", The 4th Iranian Conference on Optics and Laser Engineering, September 2015
- 13 Reza Poozesh, Khosro Madanipour, Vahid Vatani, Kamran Hejaz, , Seyed Naser Tabatabaei Jafari, Mohammad Karimi, Majid Lafuti, "Design and Fabrication of High reflective Fiber Bragg Gratings for fiber lasers application ", 2015 Annual Physics Conference of Iran, August 2015
- 14 Omid Choupanian, Khosro Madanipour, "Investigating the thermal effects of a Picosecond third harmonic Nd:YAG laser ablation on Copper, Nickel and Chromium thin-film to optimize fabrication of lithography mask by laser direct writing method ", 2015 Annual Physics Conference of Iran, August 2015
- 15 Fatemeh Salimi Meidanshahi , Khosro Madanipour, Babak Shokri, Mohammad Reza Khani, Hamid Razavi Borzoki, "Measurement of plasma parameter in dielectric barrier discharge (DBD) by Moiré deflectometry technique ", SPIE .Optical metrology, June 2015
- 16 Mohammad Ahmadi, Khosro Madanipour, Soheyla Javadian Varjovi, "Determination of refractive index by Moiré deflectometry ", SPIE Optical Metrology, June 2015
- 17 Soheyla Javadian Varjovi, Khosro Madanipour, "Measurement of in-plane rotation angle by sampling Moiré technique ", SPIE .Optical metrology, June 2015

- 18 Omid Choupanian, Khosro Madanipour, "Modeling of CW Laser Thermal Ablation in Laser Scanning Lithography on Copper Thin-Film ", The 21st Iranian Conference on Optics and Photonics and the Seventh Iranian Conference on Photonics Engineering and technology, January 2015
- 19 Amir Hossein Shahbazi, Khosro Madanipour, Ataollah Koochian, "Quality Determination of Laser Scanning in Optical Mask Construction by Modulation Transfer Function ", 21th Iranian Conference on Optics and Photonics (ICOP 2015) and 7th Iranian Conference on Photonics Engineering and Technology (ICPET2015), January 2015
- 20 Sepehr Razi, Khosro Madanipour, Mahmud Mollabashi, "Wetability control of Titanium by high power nano-second Laser surface treatment ", 15th National Seminar on Surface Engineering, October 2014
- 21 Omid Choupanian, Khosro Madanipour, "Fabrication of Lithography Mask on Copper Thin-Film by Laser Direct Writing Method ", 3rd Conference on Lasers and Their Applications, September 2014
- 22 Soheyla Javadian Varjovi, Khosro Madanipour, Mahdi Khakian Ghomi, Ata Khajeamiri Hagh, "Measurement of MBU and SBU Event Probabilities in a SRAM by Pulsed Laser Irradiation ", 2nd International Conference on New Frontiers in Physics (ICNFP 2014), July 2014
- 23 Khosro Madanipour, Sepehr Razi, Mahmoud Mollabashi, "Experimental investigation of the effect of laser treatment on the surface free energy of metals ", 2nd International Conference on New Frontiers in Physics (ICNFP 2014), July 2014
- 24 Khosro Madanipour, Fatemeh Salimi Meidanshahi, Babak Shokri, "Measurement of Convective heat transfer coefficient and temperature distribution around axisymmetric objects using moiré deflectometry technique ", 2nd International Conference on New Frontiers in Physics (ICNFP 2014), July 2014
- 25 Amir Hossein Shahbazi, Khosro Madanipour, Ataollah Koochian, Ehsan Pazoki, "Investigating the Defocusing Phenomenon in CCD MTF Measurement Based on PSF Technique ", 20th Iranian Conference on Optics and Photonics (ICOP 2014) and 6th Iranian Conference on Photonics Engineering and Technology (ICPET2014), January 2014
- 26 Soheyla Javadian Varjovi, Khosro Madanipour, Reza Asadi, "Using Moire Technique and Image Processing for Precise Metric Determination in Fiber and Waveguide Connection ", 20th Iranian Conference on Optics and photonics (ICOP2014) , 6th Iranian Conference on Photonics Engineering and Technology (ICPET2014), January 2014
- 27 Mohsen Tayebi Nasab, Khosro Madanipour, Masoud Latifi, "Size Measurement of Particles Passed Through Nanofilters by Pulsed Laser ", Iranian Conference on Optics & Laser Engineering, October 2013
- 28 Sepehr Razi, Khosro Madanipour, Hedieh Pazokian, Mahmood Molabashi, "Using laser surface treatment technique for controlling wettability behavior of the biocompatible metals ", Iranian Conference on Optics & Laser Engineering, October 2013
- 29 Nazanin Ezaz Shahabi, Masoud Latifi, Mohammad Amani Tehran, Khosro Madanipour, "Measurement of Yarn Density in Woven Fabrics Using Fringe Projection Moire Techniques ", The 12th Asian Textile Conference, October 2013
- 30 Sepehr Razi, Mahmood Mollabashi, Khosro Madanipour, Hedieh Pazokian, "surface processing of Titanium and stainless Steel using high power Nd:YAG laser; Study how to create microstructures and control surface morphology ", Iranian Conference on Optics & Laser Engineering, October 2013
- 31 , Hadi Samareh Salavati Pour, Younes Alizadeh Vaghasloo, Khosro Madanipour, "The effect of U-notch radius on J-integral for functionally graded steel in crack divider configuration ", 21st International Conference on Mechanical Engineering, May 2013
- 32 Soheila Javadianvarjovi, Khosro Madanipour, Mahdi Khakian Ghomi, "Investigation of Cosmic Rays Effects on Electronic Devices of Satellite by laser experimental Simulation ", The first conference on Satellites for Sustainable Development, October 2012
- 33 , Younes Alizadeh Vaghasloo, Hadi Samareh Salavati Pour, Khosro Madanipour, "J-integral Evaluation for the Specimens Weakened by U-notch for Bainitic and Martensitic Functionally Graded Steels ", International Conference on Mechanical Engineering and Advanced Technology, October 2012
- 34 Soheila Javadianvarjovi, Khosro Madanipour, Mahdi Khakian Ghomi, "Simulation of Single Event Effects of Cosmic Rays on Electronic Devices by Nd:Yag Laser ", Annual physics conference of Iran, August 2012












- 35 A.Granmayeh.R, A. Koohian, M.F. Habibi, Khosro Madanipour, "Calculation of thermo-optical coefficient of Silver Nano fluid by a Gaussian laser beam and Moiré deflectometry method ", THE 7th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS, ROCAM 2012, August 2012
- 36 Adeleh Granmayeh Rad, Khosro Madanipour, Ata Koohian, "Sign identification of nonlinear refractive index of Ag nanoparticles prepared by laser ablation using Moiré deflectometry and Z-scan methods ", INTERNATIONAL SYMPOSIUM ON SMALL PARTICLES AND INORGANIC CLUSTERS XVI, July 2012
- 37 Soheila Javadianvarjovi, Mahdi Khakian Ghomi, Khosro Madanipour, Ata Khajeh Amiri Hagh, Marjan Marbooti, "Single Event Effects Simulation of cosmic rays on SRAM by laser ", 16th Meeting on Research in Astronomy, May 2012
- 38 Mohsen Khodaparast, Khosro Madanipour, Mostafa Sharifzadeh, "Reconstruction of 3D profile of surface and determination of roughness using Fourier fringe analysis method ", 18th Iranian Conference on Optics and Photonics (ICOP 2012) and 4th Iranian Conference on Photonics Engineering (ICPE2 2012), February 2012
- 39 Arezoo Zakeri, Mohamad Hossein Miran Baygi, Khosro Madanipour, Parvin Mansouri, "Toward Measurement of Skin Polarization Properties Using Stokes Parameters ", 18th Iranian Conference on Optics and Photonics (ICOP 2012) and 4th Iranian Conference on Photonics Engineering (ICPE2 2012), February 2012
- 40 Khosro Madanipour, Shivakhalaji, Seiedehsan Tabatabaee, Tooraj Yousefi, "Measurement of natural convection heat transfer coefficient around vertical flat plate using moiré deflectometry technique ", 18th Iranian Conference on Optics and Photonics (ICOP 2012) and 4th Iranian Conference on Photonics Engineering (ICPE2 2012), February 2012
- 41 Sedigheh Najafi, Khosro Madanipour, Mahnoosh Gholamzadeh, "Measurement of MTF of CCD Array by the Talbot Effect ", 18th Iranian Conference on Optics and Photonics (ICOP 2012) and 4th Iranian Conference on Photonics Engineering (ICPE2 2012), February 2012
- 42 Mahnoosh Gholamzadeh, Khosro Madanipour, Sedigheh Najafi, "Measurement Of Optical Transfer Function(OTF) Of The CCD Camera By Parallel Moire Technique ", 18th Iranian Conference on Optics and Photonics (ICOP 2012) and 4th Iranian Conference on Photonics Engineering (ICPE2 2012), February 2012
- 43 Fatemeh Mohammadi, Amir Hossein Rezaei, Khosro Madanipour, "3D Machine Vision Employing Optical Phase Shift Moiré ", Innovative Computing Technology (INCT 2011), December 2011
- 44 Siamak Faraji Khah, Khosro Madanipour, Siamak Saharkhiz, Masoud Latifi, "3D Simulation of Fabric Drape Using Shadow Moiré Topography ", the 11th Asian Textile Conference- ATC-11, November 2011
- 45 Mohammad Sangari, Parviz Parvin, Khosro Madanipour, "Latent fingerprint detection with Ar+ laser induced fluorescence method in concern of rhodamine 6G dye staining process ", The Annual Physics Conference of Iran, 2011, September 2011
- 46 Khosro Madanipour, Mohammad Taghi Tavassoly, "Submicron displacements measurement by measuring autocorrelation of the transmission function of a grating ", SPIE Optical metrology 2011, May 2011
- 47 Sedigheh Najafi, Khosro Madanipour, Masoud Kavosh Tehrani, Azam Babaii, "The Influence of Pixel Binning on CCD Modulation Transfer Function ", 2th Iranian Conference on optics & Laser Engineering, May 2011
- 48 Fatemeh Salimi Meidanshahi, Khosro Madanipour, Babak Shokri, "Experimental study of the heat transfer process of air around atmospheric arc plasma ", SPIE Optical metrology 2011, May 2011
- 49 Fatemeh Mohammadi, Khosro Madanipour, Amir Hossein Rezaei, "Three dimensional surface topography based on digital fringe projection ", SPIE Optical metrology 2011, May 2011
- 50 Mohammad Fazel Habibi, Attaolah Koohian, Mohammad Taghi Tavassoli, Khosro Madanipour, "Study of 3D refractive index profile, induced by a Gaussian laser beam in a Silver Nanofluid sample with moiré deflectometry and calculation of thermo-optical coefficient. ", 17th Iranian Conference on Optics and Photonics ,, February 2011
- 51 Khosro Madanipour, Narges Taheri, A.Granmayeh Rad, H. Zangane, "Experimental and theoretical study of nonlinear interaction effects in laser and nanoparticles by Moiré deflectometry ", 17th Iranian Conference on Optics and Photonics, February 2011
- 52 M. Mohammadi Jorkuye, S. Farjami Shayeste, Khosro Madanipour, "Investigation of the nanowires densities effects on the transmission of left handed materials consisting of metal nanowires and determination of the LHM existence range ", 17th Iranian Conference on Optics and Photonics, February 2011



- 53 F. Salimi Meidanshahi, Khosro Madanipour, M. R. Khani, H. Razavi Barzaki , B.Shokri, "Application of moiré deflectometry to measure temperature and refractive index profile of Dielectric Barrier Discharge ", 17th Iranian Conference on Optics and Photonics ,, February 2011
- 54 M. Gholamzadeh, Khosro Madanipour, "Measurement of modulation transfer function of the CCD Camera by Moiré technique ", 3rd Iranian Conference on Photonics Engineering, February 2011
- 55 Marzieh Kabiri, Khosro Madanipour, Parviz Parvin, "Measurement of Strain Optic Factor of Fiber Optic Based on Mach-Zehnder Interferometer ", 17th Iranian Conference on Optics and Photonics International Center for Science, High Technology & Environmental Sciences, February 2011
- 56 S. Najafi , Khosro Madanipour, A. Babaii, M.Kavosh Tehrani, "Modulation Transfer Function (MTF) Measurement Of CCD Array By Slanted Edge And Super resolution Technique ", 3rd Iranian Conference on Photonics Engineering, February 2011
- 57 Siamak Faraji Khah, Khosro Madanipour, Siamak Saharkhiz, Masoud Latifi, "Evaluation of Drape in Woven Fabrics Using Moiré Method ", 3rd Iranian Conference on Photonics Engineering, February 2011
- 58 Khosro Madanipour, Mohammad Taghi Tavassoli, "Measurement of optical transfer function of imaging systems by moiré technique ", LAMP Seminars of Winter College on optics in imaging science, January 2011
- 59 Fatemeh Mohammadi, Khosro Madanipour, Amir Hossein Rezaei, "Application of digital phase shift Moiré to reconstruction of human face ", (UKSim Fourth European Modelling Symposium on Computer Modelling and Simulation (EMS 2010, November 2010
- 60 A. Granmayeh Raad, Khosro Madanipour, M.H.Afzali, A.Koohian, D.Dorranian, "Nonlinear optical properties of gold nanoparticles thin films using the moiré deflectometry technique ", (International Conference on Coherent and Nonlinear Optics (ICONO 2010 Proc. of SPIE Vol. 7993, August 2010
- 61 , Khosro Madanipour, "Measurement of Liquids Evaporation Rate by Interferogram Analysis ", 16th Iranian Conference On Optics & Photonics, January 2010
- 62 Fatemeh Mohammadi, Khosro Madanipour, Amir Hossein Rezaei, "3D surface topography based on fourier transform analysis ", 16th Iranian Conference On Optics & Photonics, January 2010
- 63 Khosro Madanipour, "Measurement of heat transfer coefficient and temperature distribution around axisymmetric objects using moiré deflectometry technique ", 16th Iranian Conference on Optics & Photonics, January 2010
- 64 Siamak Faraji Khah, Masoud Latifi, Siamak Saharkhiz, Khosro Madanipour, "Evaluation of Drape in Woven Fabrics by Image Processing ", 16th Iranian Conference on Optics and Photonics and 2nd Iranian Conference on Photonics Engineering, January 2010
- 65 Khosro Madanipour, Samira Fatehi, Parviz Parvin, "Measurement of temperature refractive index density distribution and convective heat transfer coefficient around a vertical wire by michelson interferometer ", , July 2009
- 66 Khosro Madanipour, Parviz Parvin, "Determination of phase and modulation transfer function PTF and MTF of a printer by the convolution of transmission function ", , June 2009
- 67 Khosro Madanipour, [en-name N/A], Parviz Parvin, "Determination of phase and modulation transfer function PTF and MTF of a printer by thd convolution of transmission function measurement ", , June 2009
- 68 [en-name N/A], [en-name N/A], Khosro Madanipour, "Calculation of the local heat transfer coefficient on axisymmetric geometries using different methods of fringe analysis ", , December 2008
- 69 Khosro Madanipour, "Submicron displacement measurement by measuring of autocorrelation of the transmission function of the grating ", , January 2008
- 70 Khosro Madanipour, "Specification of modulation transfer function (MTF) by the measurement of autocorrelation of transmission function ", , February 2007
- 71 [en-name N/A], Khosro Madanipour, [en-name N/A], "Measurement of modulation transfer function of the atmospher in the surface layer by morire technique ", , November 2006
- 72 Khosro Madanipour, "Measurement of modulation transfer function (MTF) of printers by moiré technique ", , January 2006

- 73 Khosro Madanipour, [en-name N/A], "Deposition rate, thickness and the refractive index of thin films by modulation of the interference fringes of a transparent wedge " , , February 2003
- 74 [en-name N/A], [en-name N/A], Khosro Madanipour, "Measurement of the shrinkage of the impression paste used in dentistry " , , August 2002
- 75 [en-name N/A], Nafiseh Samavatei, Khosro Madanipour, "Measurement of MTF of Xerocopier and laser printer by moiré technique " , , August 2002
- 76 [en-name N/A], Khosro Madanipour, "Ellipsometry by Polar double-slit " , , August 2002

## دروس ارائه شده

#	عنوان درس	توصیف درس	دوره درسی	سرفصل ها
1	Advanced Optics (I)	introduction to foundation of Geometrical and wave optics	Spring 2022	
2	Special Topics (Medical Devices and Measurement)	Introduction to measurement foundations and measuring equipment in medicine	Spring 2022	
3	Fourier Optics	Introduction to Fourier Optics	Spring 2022	
4	Special Topics (Special Topics in Optical Measurement)	Introduction to optical measurement methods in science and technology	Fall 2021	
5	General Physics (IV)	Introduction to special theory of relativity, The Particlelike Properties of waves, The Wavelike Properties of Particles, Atomic models, Hydrogen atom, Nuclear Structure and Radioactivity	Fall 2021	
6	Advanced Optics (I)	introduction to foundation of Geometrical and wave optics	Spring 2021	
7	Quantum Physics	In this course, students will learn about the quantum physics foundation and its application in nanotechnology.	Spring 2021	
8	General Physics (III)	Introduction to fluid mechanics, waves and vibrations, heat and thermodynamics, geometrical and wave optics.	Spring 2021	
9	Special Topics (Medical Devices and Measurement)	Introduction to measurement foundations and measuring equipment in medicine	Spring 2021	
10	General Physics (IV)	Introduction to special theory of relativity, The Particlelike Properties of waves, The Wavelike Properties of Particles, Atomic models, Hydrogen atom, Nuclear Structure and Radioactivity	Fall 2020	
11	Special Topics (Special Topics in Optical Measurement)	Introduction to optical measurement methods in science and technology	Fall 2020	

اختراعات / ثبت پتنت

#	عنوان اختراع	شماره ثبت	کشور ثبت کننده	همکاران	تاریخ ثبت	تاریخ انقضا
داده های ثبت شده در پورتال						
1	حس گری با تداخل سنج فیبر نوری ماخ-زندر برای اندازه گیری جابجایی محوری در ترانسفورماتور های قدرت	83503	-	گیورک باباملک قره پتیمان, مریم السادات اخوان حجازی, مرضیه کبیری, پرویز پروین, خسرو معدنی پور, دانشگاه صنعتی امیرکبیر	1393/5/10	1412/4/11
2	دستگاه اندازه گیری جابجایی ها ی زیرمیکرون با استفاده ازتابع خودهمبست	38709003	Iran (Islamic Republic (of	خسرو معدنی پور	1387/9/11	1407/9/11
3	دستگاه بیضی سنج تداخلی با استفاده از دوشکافی قطبی	38705249	Iran (Islamic Republic (of	محمدتقی توسلی, خسرو معدنی پور	1387/4/11	1407/4/11
4	دستگاه اندازه گیری تابع انتقال مدولا سیون MTF با استفاده از روش ماره	38705247	Iran (Islamic Republic (of	خسرو معدنی پور, محمدتقی توسلی	1387/4/11	1407/4/11
5	دستگاه مطالعه پدیده تشدید در نوسانگر مکانیکی	38705248	Iran (Islamic Republic (of	خسرو معدنی پور	1387/4/11	1407/4/11