



دانشگاه صنعتی امیرکبیر
(پلی تکنیک تهران)

پست الکترونیک:

mortezahabibi@aut.ac.ir

شماره تماس:

:(Scopus) h-index

:ارجاعات (Scopus)



مرتضی حبیبی

دانشیار

دانشکده فیزیک و مهندسی انرژی

گروه آموزشی مهندسی هسته‌ای

رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	مطالعه تجربی و تحلیل افزایش شدت یون‌ها و اشعه ایکس در دستگاه پلاسمای کانونی امیرکبیر با اصلاح ساختار الکترودها و بررسی اثر گازهای طبیعی	هادی براتی و مرتضی حبیبی	آبان 1398
2	طراحی و ساخت مولد پلاسمای پینچ مینیاتوری با انرژی حدود 200 ژول، با تغذیه سوئیچینگ ولتاژ بالا و عملکرد در مد تخلیه تکراری	حسین جعفری و مرتضی حبیبی	مهر 1398
3	ارتقای بهره آشکارسازی ردیاب هسته‌ای حالت جامد برای یون‌های با توان ایستادگی کم مقدار در دستگاه پلاسمای کانونی	زهرا سلطانی و مرتضی حبیبی	شهریور 1398
4	طراحی و ساخت سیستم استخراج کننده یون و بهینه‌سازی جریان باریکه یون چشمه پلاسمای هلیکونی امیرکبیر	محسن افشارمنش و مرتضی حبیبی	اردیبهشت 1397
5	طراحی و ساخت چشمه ی پلاسمایی هلیکونی	بهروز سلطانی و مرتضی حبیبی	مهر 1396

پایان‌نامه‌های کارشناسی ارشد

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	طراحی سه بعدی دستگاه پلاسمای هلیکن امیرکبیر همراه با سیستم نیروی پیش‌بران	فاطمه سلامی استاد و مرتضی حبیبی	شهریور 1400
2	مطالعه و تحلیل ابعادی اشعه ایکس نرم دستگاه پلاسمای کانونی امیر کبیر	علی محمدحسینی و مرتضی حبیبی	مرداد 1400

3	طراحی، ساخت و آزمایش تضعیف کننده ولتاژ و پیاده سازی مدار تشخیص خطا بر روی FPGA	محمدحسین رازقندی و مرتضی حبیبی	بهمن 1399
4	پوشش دهی کربن با استفاده از دستگاه پلاسمای کانونی امیرکبیر	نرگس زیوه و مرتضی حبیبی	دی 1399
5	طراحی مفهومی و مهندسی چشمه پلاسمای هلیکن امیرکبیر به عنوان سیستم مولد نیروی پیشران	پیمان کارکن و مرتضی حبیبی	بهمن 1398
6	شبیه سازی، طراحی و ساخت استخراج کننده های بهینه ی دستگاه هلیکون امیرکبیر	محمدرضا خوشحال و مرتضی حبیبی	خرداد 1398
7	طراحی و ساخت سویچ اسپارک گپ سه الکترودی با عملکرد تخلیه تکراری	محمدرضا کهن پور و مرتضی حبیبی	مهر 1397
8	طراحی و ساخت سیستم مشخصه یاب سیمی برای اندازه گیری پروفایل باریکه یون پلاسمای هلیکون امیر کبیر	فرزاد خسرونژاد و مرتضی حبیبی	تیر 1397
9	طراحی و ساخت فنجان فارادی برای اندازه گیری شدت جریان چشمه یون هلیکون امیرکبیر	امین معصوم زاده و مرتضی حبیبی	بهمن 1396
10	مطالعه ی تجربی و تحلیل اثرپروفایل میدان مغناطیسی خارجی پلاسمای هلیکون امیرکبیر بر روی باریکه ی یونهای خروجی	میثم اسلامی و مرتضی حبیبی	آذر 1396
11	طراحی مفهومی ساختار گداخت توسط بلور پایرو الکتریک و محاسبه بهره ی نوترون های گسیلی از آن	مهدی ولی خانی و مرتضی حبیبی	فروردین 1396
12	ساخت و بررسی عملکرد فولاد پوشش داده شده توسط دستگاه پلاسمای کانونی امیرکبیر به عنوان صفحه دو قطبی پیل سوختی امیرکبیر	محسن زارع محمدجانی و مرتضی حبیبی	بهمن 1394
13	طراحی و ساخت پیچه روگوفسکی بهینه جهت کاهش نویز سیگنال جریان تخلیه در دستگاههای گداخت هسته ای	ایمان جلالی و مرتضی حبیبی	دی 1394
14	بهبود نسبت زایش ترینیم در پوششهای بارور سرامیکی	حسین صادقی همبری و مرتضی حبیبی	مهر 1394
15	بهینه سازی تجربی تولید یون خروجی از دستگاه پلاسمای کانونی امیرکبیر با تغییر هندسه آند	فاطمه محمدیان هروانی و مرتضی حبیبی	مهر 1394
16	بررسی بهره اشعه ایکس در آرایش های مختلف کاتدی دستگاه پلاسمای کانونی	جعفر معمار و مرتضی حبیبی	مرداد 1394
17	پخش یون های هلیوم دستگاه پلاسمای کانونی با خورش الکتروشیمی آشکارساز پلی کربنات	عارفه زرین شاد و مرتضی حبیبی	خرداد 1394
18	آشکارسازی و پخش فضایی یون های هلیوم در پلاسمای کانونی با آشکارسازهای ردپای هسته ای حالت جامد	وحید خوش مرام و مرتضی حبیبی	خرداد 1394
19	طیف سنجی اپتیکی و تحلیل پلاسمای کانونی امیرکبیر	مجتبی رفیعی و مرتضی حبیبی	اسفند 1393
20	بهبود خواص پره نوربین گازی با استفاده از پلاسمای کانونی امیرکبیر	ازیتا لاکتراشی و مرتضی حبیبی	بهمن 1393
21	لایه نشانی آلیاژ $AlSi11MgSr$ با استفاده از دستگاه پلاسمای کانونی دانشگاه امیر کبیر	محمدسعید مطیع بیرجندی و مرتضی حبیبی	مهر 1393
22	بررسی تحلیل و ارائه قانون مقیاس بندی برای آهنگ تولید رادیوایزوتوپها براساس انرژی دستگاه پلاسمای کانونی	چوادمورضاکاکاوندی و مرتضی حبیبی	آذر 1392
23	بررسی اندوکتانس سیستم پلاسمای کانونی برای بهینه سازی جریان پینچ پلاسمای چگال و بهره ی نوترون با استفاده از کد لی	فرشته کرمی و مرتضی حبیبی	مهر 1392
24	طراحی و ساخت یک سیستم مولد پلاسمای مینیاتوری پالسی	حسین جعفری و مرتضی حبیبی	بهمن 1391

25	بررسی تجربی توزیع زاویه ای تابش ایکس گسیل شده از دستگاه پلاسمای کانونی امیرکبیر با استفاده از TLD در شرایط مختلف گاز کاری	مجتبی دهقانی بهارانی و مرتضی حبیبی	بهمن 1391
26	آشکارسازی یون های هلیوم پلاسمای کانونی با آشکارسازهای ردپای هسته ای حالت جامد	وحید رضانی و مرتضی حبیبی	آبان 1391
27	مطالعه تجربی و تحلیل پیک دوم سیگنال ایکس نرم دستگاه در پلاسمای کانونی امیرکبیر	محسن افشارمنش و مرتضی حبیبی	مهر 1391
28	طراحی و ساخت سیستم شارژ و کنترل پالسی با عملکرد تکراری برای سیستمهای مولد پینچ پلازما	حمیدرضا عالی وانقی و مرتضی حبیبی	مهر 1391
29	بررسی تحلیلی شار عبوری از سطح عمود بر میدان مغناطیسی چنبره ای در حالت تعادل MHD پلاسمای توکامک	فواد شریعت پناه و مرتضی حبیبی	مهر 1391
30	بررسی تجربی اثر انباشت ناخالصی روی سطح عایق بر رفتار پرتو ایکس سخت در دستگاه پلاسمای کانونی امیرکبیر	راضیه شریفی و مرتضی حبیبی	اسفند 1390
31	بررسی و امکان سنجی سوخت p-B به عنوان مولد انرژی در دستگاههای پلاسمای کانونی	سولماز ابوالحسنی و مرتضی حبیبی	اسفند 1390
32	بررسی تاثیر هندسه آند در تولید پرتو ایکس سخت در دستگاه های پلاسمای کانونی	مهسا مهتاب و مرتضی حبیبی	بهمن 1390
33	بهبود خواص پیل سوختی با استفاده از تزریق یون به وسیله دستگاه پلاسمای کانونی	ملیحه عمرانی و مرتضی حبیبی	بهمن 1390
34	آشکارسازی یون ها در پلاسمای کانونی با آشکارسازی خورشی شیمیایی و الکتروشیمی حالت جامد	غلامحسین روشنی و مرتضی حبیبی	آبان 1390
35	طراحی مفهومی و مدلسازی عملکرد دستگاه آنالیزور تبادل بار در محیط پلاسمای گداخت	مسلم کاظمی کرهرودی و مرتضی حبیبی	شهریور 1390
36	طراحی دستگاه پلازما کانونی مینیاتوری 400 ژول	سپهر حسینی و مرتضی حبیبی	اسفند 1389
37	طراحی و ساخت سیستم جمع آوری سیگنال های پلازما در توکامک و انتقال آنها با استفاده از فیبر نوری	احسان حیدری و مرتضی حبیبی	اسفند 1389
38	نیترژن دهی و سخت سازی نمونه های فلزی با استفاده از دستگاه پلاسمای کانونی امیرکبیر	محمد افراشته و مرتضی حبیبی	اسفند 1389
39	طراحی و ساخت دستگاه پلازما کانونی مینیاتوری 250 ژول	اکبر روح الهی و مرتضی حبیبی	بهمن 1389
40	مطالعه تجربی اثرات جنس عایق دستگاه پلاسمای کانونی امیرکبیر بر کیفیت جریان پینچ پلازما و بهره اشعه ایکس سخت گسیلی از آن	سعیده کوهستانی و مرتضی حبیبی	آبان 1389

کتاب

#	عنوان	نگارندگان/مترجمان	کشور ناشر	تاریخ انتشار	نسخه
داده های ثبت شده در پورتال					
1	مبانی و تابش های دستگاه پلاسمای کانونی	مرتضی حبیبی	ایران	1395	1
2	اصول و مبانی انرژی گداخت هسته ای	مرتضی حبیبی، افشین رومی	ایران	1394	1
3	فیزیک پلازما و انرژی گداخت هسته ای	مرتضی حبیبی، رضا امراللهی بیوکی	ایران	1394	1
4	NEW, ADVANCED TECHNOLOGIES	رضا امراللهی بیوکی، مرتضی حبیبی	Croatia (Hrvatska)	1388	0

- 1 S. Maryam Nouri Dogahi, S.M.M. Abtahi, Morteza Habibi, "Evaluation of X-ray dose distribution in adult male and female organs due to plasma focus device function", , Vol. 97, Num. 3, Page 62-69, September 2021,
- 2 Hadi Barati, Morteza Habibi, "Computation of Impurity Effects on Argon Pinch Soft X-Ray Emission Using the Nonrelativistic 4-D Vlasov–Maxwell Approach", *IEEE TRANSACTIONS ON PLASMA SCIENCE*, Vol. 49, Num. 8, Page 2311-2317, July 2021,
- 3 Saeideh Koohestani, Morteza Habibi, Azimeh Nv Dehkordi, "Investigation of the effect of insulator sleeves on the ion emission in a 4kJ Plasma focus device", *Radiation Physics and Engineering (RPE)*, Vol. 2, Num. 3, Page 17-23, June 2021,
- 4 Hadi Barati, Morteza Habibi, "Calculation of Electron Beam Emitted From Argon Plasma Pinch Using the Nonrelativistic Vlasov–Maxwell Equations", *IEEE TRANSACTIONS ON PLASMA SCIENCE*, Vol. 48, Num. 11, Page 3862-3870, October 2020,
- 5 Mohammadreza Khoshhal, Morteza Habibi, Rod Boswell, "Evaluation of a novel parabolic plasma electrode advantage in a triode extraction system of a helicon ion", *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, Vol. 53, Num. 505204, Page 1-12, October 2020,
- 6 Mohammadreza Khoshhal, Morteza Habibi, Rod Boswell, "Spectral measurements of inductively coupled and $m = +1, 1$ helicon discharge modes of the constructed plasma source", *AIP Advances -American Institute of Physics*, Vol. 10, Num. 65312, Page 1-12, June 2020,
- 7 , Zahra Soltani, Morteza Habibi, "Hydrogen ion emission studies in 4? plasma focus device space", *RADIATION PHYSICS AND CHEMISTRY*, Vol. 0, Num. 0, Page 1-20, March 2020,
- 8 Shahab Sharifi Malvajerdi, Ahmad Sharifi Malvajerdi, Majid Ghanaatshoar, Morteza Habibi, Hassan Jahdi, "TiCrN-TiAlN-TiAlSiN-TiAlSiCN multi-layers utilized to increase tillage tools useful lifetime", *Scientific Reports*, Vol. 0, Num. 0, Page 1-12, December 2019,
- 9 Hossein Jafari, Morteza Habibi, "High-Voltage Charging Power Supply Based on an LCC-Type Resonant Converter Operating at Continuous Conduction Mode", *IEEE TRANSACTIONS ON POWER ELECTRONICS*, Vol. 0, Num. 0, Page 1-18, October 2019,
- 10 Hadi Barati, Morteza Habibi, "Using the Modified Lee Model Code to Calculate the Optimum Length of NiZn Ferrite to Enhance the DPF Argon SXR Emission", *PLASMA PHYSICS REPORTS*, Vol. 46, Num. 2, Page 140-148, September 2019,
- 11 Morteza Habibi, Hossein Jafari, "Operation stability, pinching efficiency and speed factor in 3-joules miniature plasma pinch generator, for different electrodes geometry", , Vol. 89, Num. 3, Page 17-30, September 2019,
- 12 Zahra Soltani , Morteza Habibi, "Analysis of 3D deuterium ion emission angular distribution in plasma focus device using novel panorama polycarbonate detectors", *RADIATION PHYSICS AND CHEMISTRY*, Vol. 165, Num. 0, Page 1-6, July 2019,
- 13 Hossein Sadeghi, Morteza Habibi, "Designing a compact, portable and high efficiency reactor", *MODERN PHYSICS LETTERS A*, Vol. 34, Num. 0, Page 1-13, June 2019,
- 14 Hadi Barati, Morteza Habibi, "Gas Mixture effects on Ion-Beam Flux Characteristics from Dense Plasma Focus Device: Investigation by the Vlasov-Maxwell Equations and Experiments", *CONTRIBUTIONS TO PLASMA PHYSICS*, Vol. 0, Num. 0, Page 1-9, June 2019,
- 15 Hossein Sadeghi, Morteza Habibi, "Design and simulation of a blanket module for TOKAMAK reactors", *MODERN PHYSICS LETTERS A*, Vol. 34, Num. 0, Page 1-8, March 2019,
- 16 Hadi Barati, Morteza Habibi, "The Effects of Ferrites on Dense Plasma Focus Device: Using a Modification to the Lee Model", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 1-9, January 2019,

- 17 Hadi Barati, Morteza Habibi, "The Effect of the Shape of the Anode Head on the Nitrogen Soft X-Ray Emission from a Dense Plasma Focus Device: a Numerical Investigation Using the Modified Lee Model Code Accompanied by Experiments", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 1-8, December 2018,
- 18 Mohammadreza Khoshhal, Morteza Habibi, Rod W. Boswell, "Development of a new high-current triode extraction system for helicon ion source: design and simulation", *LASER AND PARTICLE BEAMS*, Vol. 0, Num. 0, Page 1-10, November 2018,
- 19 Amin Masoumzadeh, Morteza Habibi, Mohsen Afsharmanesh, "Design, construction and test of an optimized Faraday cup for beam current determination of a helicon ion source", *VACUUM*, Vol. 159, Num. 0, Page 99-104, October 2018,
- 20 Alireza Asle Zaeem, Hassan Ghafori Fard, A. Sadighzadeh, Morteza Habibi, "Aneutronic Fusion in Collision of Oppositely Directed Plasmoids", *PLASMA PHYSICS REPORTS*, Vol. 44, Num. 3, Page 378-386, March 2018,
- 21 Hossein Jafari, Morteza Habibi, "Stability assessment and operating parameter optimization on experimental results in very small plasma focus, using sensitivity analysis", *PHYSICS LETTERS A*, Vol. 0, Num. 0, Page 1-9, February 2018,
- 22 Mohsen Afsharmanesh, Morteza Habibi, "development of a helicon ion source: simulations and preliminary experiments", *REVIEW OF SCIENTIFIC INSTRUMENTS*, Vol. 0, Num. 89, Page 1-9, January 2018,
- 23 Morteza Habibi, "Two hump-shaped angular distributions of neutrons and soft X-rays in a small plasma focus device", *APPLIED RADIATION AND ISOTOPES*, Vol. 0, Num. 0, Page 1-12, December 2017,
- 24 Mohsen Afsharmanesh, Morteza Habibi, "Directional power absorption in helicon plasma sources excited by a half-helix antenna", *PLASMA SCIENCE & TECHNOLOGY*, Vol. 19, Num. 0, Page 1-9, August 2017,
- 25 Behrooz Soltani, Morteza Habibi, H. Zakeri-Khatir, "The effect of Landau damping on the power absorption in a helicon plasma source driven by an m=0 antenna", *CONTRIBUTIONS TO PLASMA PHYSICS*, Vol. 0, Num. 0, Page 1-11, July 2017,
- 26 Mohsen Afsharmanesh, Morteza Habibi, "A Simulation Study of the Factors Affecting the Collisional Power Dissipation in a Helicon Plasma", *IEEE TRANSACTIONS ON PLASMA SCIENCE*, Vol. 0, Num. 0, Page 0-0, June 2017,
- 27 Behrooz Soltani, Morteza Habibi, "Development of a Helicon Plasma Source for Neutral Beam Injection System of the Alborz Tokamak", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, June 2017,
- 28 Hossein Jafari, Morteza Habibi, Gholam Reza Etaati, "Design and Construction of a Very Low Energy Plasma Focus, Operating at Repetitive Discharge Mode and Pinching Evidences", *PHYSICS LETTERS A*, Vol. online, Num. 0, Page 1-19, June 2017,
- 29 Hossein Sadeghi, Morteza Habibi, Maryamosadat Ghasemi, "Ion acceleration mechanism in plasma focus devices", *LASER AND PARTICLE BEAMS*, Vol. 0, Num. 0, Page 1-5, May 2017,
- 30 Morteza Habibi, "Experimental study of the anode geometry and insulator material-length effect on ion beam intensity in a 3 kJ Mather type plasma focus device", , Vol. 2, Num. 80, Page 10-17, March 2017,
- 31 Mahdi Valikhani, Morteza Habibi, "Neutron Yield Increase by Simulated Pyroelectric Crystal Neutron Source", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, March 2017,
- 32 S. Sharifi Malvajerdi, A. Salar Elahi, Morteza Habibi, "A New Perspective on Nano-Porous Gallium Nitride Formation on P-Type Silicon with the Plasma Focus Device", *MATERIALS AND MANUFACTURING PROCESSES*, Vol. 0, Num. 0, Page 1-15, March 2017,
- 33 S. Sharifi Malvajerdi, A. Salar Elahi, Morteza Habibi, "A novel technique based on a plasma focus device for nano-porous gallium nitride formation on P-type silicon", *PHYSICS OF PLASMAS*, Vol. 24, Num. 43511, Page 1-6, March 2017,
- 34 , Arefe Zarin Shad, Morteza Habibi, "Breakthrough in 4? ion emission mechanism understanding in plasma focus devices", *Scientific Reports*, Vol. 6, Num. 0, Page 1-15, November 2016,
- 35 Maryam Saed, Mahmud Vahdat Roshan, Ayoub Banoushi, Morteza Habibi, "The Investigation Capability of Plasma Focus Device for ¹³N Radioisotope Production by Means of Deuteron Experimental Spectrum", *Journal of Modern Physics*, Vol. online, Num. 7, Page 1512-1518, August 2016,

- 36 Morteza Habibi, Moslem Kazemi, Reza Amrollahi, "Determination of Average Ion Temperature of the TVD Tokamak by a Simple Charge Exchange Analyzer Detector", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 1-5, June 2016,
- 37 , Morteza Habibi, Vahid Ramezani, "Measurement of Ion Beam Angular Distribution at Different Helium Gas Pressures in a Plasma Focus Device", *PLASMA PHYSICS REPORTS*, Vol. 43, Num. 2, Page 196-201, March 2016,
- 38 Behrooz Soltani, Morteza Habibi, H. Zakeri-Khatir, "The effect of radial inhomogeneity on the collisional power absorption in helicon plasma sources", *PHYSICS OF PLASMAS*, Vol. 0, Num. 0, Page 1-8, February 2016,
- 39 Morteza Habibi, Azita Laktarashi, "Investigation of Nimonic alloy - plasma interaction in different plasma pulses using a small plasma focus device", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 1-7, January 2016,
- 40 Maliheh Omrani, Morteza Habibi, Mohammad Saeed Moti Birjandi, "Enhanced electrical conductivity of two layers AlNiTiN coating on SS316L as bipolar plate using plasma focus device", *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, Vol. 0, Num. 0, Page 1-9, January 2016,
- 41 Javad Amoureza Kakavandi, M. Vahdat Roshan, Morteza Habibi, "Short-lived radioisotopes scaling with energy in plasma focus device", *EUROPEAN PHYSICAL JOURNAL D*, Vol. 0, Num. 0, Page 1-5, November 2015,
- 42 Mahsa Mahtab, Morteza Habibi, "Experimental study of soft X-ray intensity with different anode tips in APF plasma focus device", *PRAMANA-JOURNAL OF PHYSICS*, Vol. 0, Num. 0, Page 1-5, October 2015,
- 43 Morteza Habibi, "Angular Distribution of ion beam emitted from a 3.5 kJ plasma focus device using different shapes of anodes", *PHYSICS LETTERS A*, Vol. online, Num. 0, Page 1-5, October 2015,
- 44 Morteza Habibi, Azita Laktarashi, Sajjad Bordbar, "Coating of Ni-Al-N ions on Niomic 75 alloy by 4 kJ plasma focus device", *CORROSION ENGINEERING SCIENCE AND TECHNOLOGY*, Vol. online, Num. 0, Page 1-6, August 2015,
- 45 Nadia Zandi, Hossein Sadeghi, Morteza Habibi, Iman Jalali, Mohsen Zare Mohammadjani, "Blanket Simulation and Tritium Breeding Ratio Calculation for ITER Reactor", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-4, July 2015,
- 46 Hossein Jafari, Morteza Habibi, Hamidreza Allivaneghi, "High-Voltage Pulsed-Power Supply Operating at Repetitive Discharge Mode for Driving Very Small Plasma Focus Devices", *IEEE TRANSACTIONS ON PLASMA SCIENCE*, Vol. online, Num. 0, Page 1-10, July 2015,
- 47 Morteza Habibi, Asghar Sadighzadeh, Abbas Rezaei, Mohsen Afsharmanesh, Gholamhossein Roshani, "Prediction of Optimum Gas Mixture for Highest SXR Intensity Emitted by A 4kj Plasma Focus Device Using Artificial Neural Network", *Boson Journal of Modern Physics -OPEN*, Vol. 1, Num. 1, Page 1-10, June 2015,
- 48 Mohsen Afsharmanesh, Morteza Habibi, "Analytical investigation of neutron production rate in spherical IECF devices", *EUROPEAN PHYSICAL JOURNAL D*, Vol. 0, Num. 0, Page 1-8, June 2015,
- 49 Fereshteh Karami, Mahmud V. Roshan, Morteza Habibi, Reza Asadnezhad, Paul Lee, Sorheoh Saw, Sing Lee, "Neutron Yield Scaling With Inductance in Plasma Focus", *IEEE TRANSACTIONS ON PLASMA SCIENCE*, Vol. 43, Num. 7, Page 2155-2159, May 2015,
- 50 Azita Laktarashi, Morteza Habibi, Sajjad Bordbar, "Deposition of AlN on Nimonic 75 by a PFD device", *SURFACE ENGINEERING*, Vol. online, Num. 0, Page 1-6, January 2015,
- 51 Behrooz Soltani, Morteza Habibi, "Tritium Breeding Ratio Calculation for ITER Tokamak Using Developed Helium Cooled Pebble Bed Blanket (HCPB)", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-6, January 2015,
- 52 Morteza Habibi, Mohammad Hossein Shahidi Alavi, "Argon ion beam interaction on polyethylene terephthalate surface by a 4 kJ plasma focus device", *PRAMANA-JOURNAL OF PHYSICS*, Vol. 0, Num. 0, Page 1-9, December 2014,
- 53 , Morteza Habibi, Vahid Ramezani, "Helium ion distributions in a 4kJ plasma focus device by 1 mm-thick large-size polycarbonate detectors", *PHYSICS LETTERS A*, Vol. online, Num. 378, Page 3631-3637, October 2014,
- 54 Hossein Jafari, Morteza Habibi, "Simulation of electrical discharge in a 3.6 Joule miniature plasma focus device using SIMULINK", *EUROPEAN PHYSICAL JOURNAL D*, Vol. online, Num. 0, Page 1-11, June 2014,

- 55 , Vahid Ramezani, Morteza Habibi, "A new method for detection of alpha particles in 1 mm thick polycarbonate detectors using 50 Hz e HV ECE method", *RADIATION MEASUREMENTS*, Vol. 67, Num. 0, Page 59-66, June 2014,
- 56 Mahsa Mahtab, M. Taghipour, G.H. Roshani, Morteza Habibi, "Approach to the Highest HXR Yield in Plasma Focus Device Using Adaptive NeuroFuzzy Inference System to Optimize Anode Configuration", *Journal of Experimental Physics*, Vol. 1, Num. 1, Page 1-8, May 2014,
- 57 Mojtaba Dehghanibaharani, Morteza Habibi, Khairollah Mohammadi, "Three Dimensional Angular Distributions of X-Rays in a 4 kJ Plasma Focus Device for Different Anode Tips Using TLD-100", *CONTRIBUTIONS TO PLASMA PHYSICS*, Vol. ONLINE, Num. 0, Page 1-7, January 2014,
- 58 Mohammad Javad Nemati, Reza Amrollahi, Morteza Habibi, "Concrete shielding of neutron radiations of plasma focus and dose examination by FLUKA", *The European Physical Journal Plus*, Vol. 128, Num. 77, Page 1-9, July 2013,
- 59 Morteza Habibi, Razieh Sharifi, Reza Amrollahi, "Study of Pyrex and Quartz Insulators Contamination Effect of Xray Intensity in a 4kJ Plasma Focus Device", *PLASMA PHYSICS REPORTS*, Vol. 39, Num. 12, Page 999-1003, June 2013,
- 60 Mahsa Mahtab, Morteza Habibi, "Nitrogen Soft and Hard Xray Emissions using Different Shapes of Anodes in a 4kJ Plasma Focus Device", *PLASMA PHYSICS REPORTS*, Vol. 40, Num. 1, Page 34-39, June 2013,
- 61 , Morteza Habibi, H.R.Yousefi, G.H. Roshani, "Angular Distribution Analysis of Nitrogen Ions in a Low Energy Dense Plasma Focus Device", *CONTRIBUTIONS TO PLASMA PHYSICS*, Vol. online, Num. 0, Page 1-7, June 2013,
- 62 Saeideh Koohestani, Morteza Habibi, Reza Amrollahi, "Study of the effect of pyrex and quartz insulators on X-ray intensity in a 4 kJ plasma focus device", *EUROPEAN PHYSICAL JOURNAL D*, Vol. online, Num. 0, Page 1-6, March 2013,
- 63 Maliheh Omrani, Reza Amrollahi, Morteza Habibi, "The effect of TiN nanoparticles deposition with different number of shots on SS316L by plasma focus device", *RADIATION EFFECTS AND DEFECTS IN SOLIDS*, Vol. online, Num. 0, Page 1-12, February 2013,
- 64 M. Saed, A. Banoushi, Morteza Habibi, M. V. Roshan, "Optimization of N-13 production with enhancement of repeat rate at canonical plasma system", , Vol. 2, Num. 2, Page 53-63, January 2013,
- 65 Mohsen Afsharmansh, Morteza Habibi, "Experimental study and analysis of multiple peaks in the SXR emitted from a 4 kJ plasma focus device", *EUROPEAN PHYSICAL JOURNAL D*, Vol. online, Num. 0, Page 1-8, December 2012,
- 66 Mohammad Javad Nemati, Morteza Habibi, Reza Amrollahi, "Analysis of concrete labyrinth shielding and radiation dose for APF plasma focus neutron source by FLUKA Monte Carlo code", *JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY*, Vol. Online, Num. 0, Page 1-6, September 2012,
- 67 Maryamosadat Ghasemi, Morteza Habibi, Reza Amrollahi, "Prediction of potential well structure formed in spherical inertial electrostatic confinement fusion devices with various parameters", *JOURNAL OF PLASMA PHYSICS*, Vol. Online, Num. 0, Page 1-9, September 2012,
- 68 , Morteza Habibi, Gholamhossein Roshani, Vahid Ramezani, "A novel method for observation by unaided eyes of nitrogen ion tracks and angular distribution in a plasma focus device using 50 Hz-HV electrochemically etched polycarbonate detectors", *RADIATION MEASUREMENTS*, Vol. 47, Num. 7, Page 530-536, August 2012,
- 69 Maliheh Omrani, Morteza Habibi, Reza Amrollahi, Arash Khosravi, "Improvement of corrosion and electrical conductivity of 316L stainless steel as bipolar plate by TiN nanoparticle implantation using plasma focus", *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*, Vol. online, Num. 0, Page 1-11, June 2012,
- 70 Mohammad Javad Nemati, Morteza Habibi, Reza Amrollahi, "Using FLUKA to Study Concrete Square Shield Performance in Attenuation of Neutron Radiation Produced by APF Plasma Focus Neutron Source", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-6, June 2012,
- 71 Soolmaz Abolhassani, Morteza Habibi, Reza Amrollahi, "Analytical Study of Quantum Magnetic and Ion Viscous Effects on p11B Fusion in Plasma Focus Devices", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-7, May 2012,

- 72 Mehdi Sohrabi, Morteza Habibi, Gholamhossein Roshani, Vahid Ramezani, "A Novel method for observation by unaided eyes of nitrogen ion tracks and angular distribution in a plasma focus device using 50 Hz - HV electrochemically etched polycarbonate detectors", *RADIATION MEASUREMENTS*, Vol. ONLINE, Num. 0, Page 1-23, May 2012,
- 73 Moslem Kazemi, Morteza Habibi, M. A. Tafreshi, "Study of Total Detection Efficiency (g) of Charge Exchange Analyzer (CXA) in TVD Tokamak", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-7, April 2012,
- 74 Morteza Habibi, "Study of the Electrode Material and Insulator Length Effect on High_Energy X Rays Emitted by a 4 kJ Plasma Focus Device", *PLASMA PHYSICS REPORTS*, Vol. 38, Num. 7, Page 566-573, January 2012,
- 75 Afshin Roomi, Morteza Habibi, "Comprehensive Time-Resolved Study of X-Ray Signals in a 4 kJ Dense Plasma Focus Facility", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-9, December 2011,
- 76 Gholamhossein Roshani, Morteza Habibi,, "An improved design of Faraday cup detector to reduce the escape of secondary electrons in plasma focus device by COMSOL", *VACUUM*, Vol. 86, Num. 3, Page 250-253, November 2011,
- 77 Maliheh Omrani, Morteza Habibi, Reza Amrollahi, "Coating of Titanium Nitride on Stainless Steel Targets by a 4 kJ Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 0-0, November 2011,
- 78 Mohammad Javad Nemati, Reza Amrollahi, Morteza Habibi, "31.Analysis for Radiation and Shielding Dose in Plasma Focus Neutron Source Using FLUKA", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-14, September 2011,
- 79 Mohamad Afrashteh, Morteza Habibi, "Study of Dense Nitrogen Plasma Irradiation of Aluminum Targets by APF Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-4, August 2011,
- 80 Afshin Roomi, Morteza Habibi, "The Effect of Working Gas Admixture Applied Voltage and Pressure on Focusing Time Parameter in the APF Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-7, August 2011,
- 81 Moslem Kazemi Kerahrodi, Morteza Habibi, M. Tafreshi, "Effect of Incident Energy and Foil Thickness on Foil Stripping and Scattering Efficiency in Charge Exchange Analyzer Detector", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-5, July 2011,
- 82 Morteza Habibi, "Influence of Pyrex Insulator Thickness and it's Length on Hard X-Ray Intensity in APF Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-4, June 2011,
- 83 Mohamad Afrashteh, Morteza Habibi, Ehsan Heydari, "Interaction of dense nitrogen plasma with SS304 surface using APF plasma focus device", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-4, June 2011,
- 84 Afshin Roomi, E. Saion, Morteza Habibi, Reza Amrollahi, Reza Baghdadi, Gholamreza Etaati, "Comprehensive Study on Soft X-Ray Emission from Admixtures of Nitrogen and Neon Gases in the APF Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-9, June 2011,
- 85 Gholamhossein Roshani, Morteza Habibi, Mehdi Sohrabi, "An improved design of Faraday cup detector to reduce the escape of secondary electrons in plasma focus device by COMSOL", *VACUUM*, Vol. 86, Num. 3, Page 250-253, June 2011,
- 86 Morteza Habibi, "Study of Reflected Shock Wave Perturbations at the Central Axis of Dense Plasma Column in a Plasma Focus", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-4, May 2011,
- 87 Reza Baghdadi, Gholamreza Etaati, Morteza Habibi, Reza Amrollahi, "Comprehensive Study of Neon HXR and SXR Emitted from APF Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. online, Num. 0, Page 1-10, May 2011,
- 88 Afshin Roomi, E. Saion, Morteza Habibi, Reza Amrollahi, Reza Baghdadi, Gholamreza Etaati, W. Mahmood, M. Iqbal, "The Effect of Applied Voltage and Operating Pressure on Emitted X-Ray from Nitrogen (N2) Gas in APF Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, March 2011,
- 89 A. Roomi, E. Saion, W. Mahmood, M. Iqbal, Reza Amrollahi, Morteza Habibi, Reza Baghdadi, Gholamreza Etaati, "Investigation of Nitrogen HXR with Neon Admixture on the APF Plasma Focus", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, February 2011,

- 90 Afshin Roomi, Morteza Habibi, E. Saion, Reza Amrollahi, "Modified Reconstruction of Neutron Spectrum emitted in dense plasma focus devices by MCNP and Monte-carlo method", *JOURNAL OF FUSION ENERGY*, Vol. 30, Num. 1, Page 78-82, January 2011,
- 91 Morteza Habibi, Reza Baghdadi, Reza Amrollahi, Gholamreza Etaati, "Investigation of the neutron angular distribution and neutron yield on the APF plasma focus device", *JOURNAL OF FUSION ENERGY*, Vol. 30, Num. 1, Page 72-77, January 2011,
- 92 Morteza Habibi, Saeideh Koohestani, Reza Amrollahi, Reza Baghdadi, Afshin Roomi, "Effect of Quartz and Pyrex Insulators Length on Hard X-ray Signals in APF plasma focus device", *JOURNAL OF FUSION ENERGY*, Vol. 1, Num. 30, Page 68-71, January 2011,
- 93 Morteza Habibi, "Trajectory of plasma current layer in accelerating and decelerating shock wave in a Mather type plasma focus device", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, January 2011,
- 94 Morteza Habibi, "Study of Shock Wave and Magnetic Pressure Effects on the Rail Gap Switch Surface Used at the APF Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, December 2010,
- 95 Reza Baghdadi, Reza Amrollahi, Gholamreza Etaati, Morteza Habibi, Afshin Roomi, "Characterization of the Soft X-Ray Emission from the APF Plasma Focus Device Operated in Neon", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, December 2010,
- 96 Mohammad Hossein Shahidi Alavi, Morteza Habibi, Reza Amrollahi, Faramarz Afshar Taromi, "A study on plasma polymerization of acrylic acid using APF plasma focus device", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, December 2010,
- 97 Gholamreza Etaati, Reza Amrollahi, Morteza Habibi, Reza Baghdadi, "Angular Distribution of Argon Ions and X-Ray Emissions in the Apf Plasma Focus Device", *JOURNAL OF FUSION ENERGY*, Vol. 0, Num. 0, Page 0-0, November 2010,
- 98 Gholamreza Etaati, Reza Amrollahi, Morteza Habibi, Kh. Mohammadi, Reza Baghdadi, A. Roomi, "Study of the Soft and Hard X-Ray Emitted by APF Plasma Focus Device in Different Pressures", *JOURNAL OF FUSION ENERGY*, Vol. 29, Num. 5, Page 0-0, July 2010,
- 99 Morteza Habibi, Reza Amrollahi, "High Energetic Deuteron Ion Irradiation of Al Samples by Dense Plasma Focus Device", *Journal of Fusion Energy*, Vol. 29, Num. 5, Page 0-0, June 2010,
- 100 Gholamreza Etaati, Reza Amrollahi, V. Doust Mohammadi, N. Ghaleh, Morteza Habibi, "Calibration Constant of a Silver Activated Geiger Counter Used for Neutron Efficiency Measurements in Plasma Focus Devices: Theoretical vs. Experimental Studies", *Journal of Fusion Energy*, Vol. 29, Num. 4, Page 0-0, April 2010,
- 101 Morteza Habibi, Reza Amrollahi, "Anisotropic Investigation of Hard X-ray Emission with Flat Anode Tips in APF Plasma Focus Device", *Journal of Fusion Energy*, Vol. 26, Num. 1, Page 0-0, September 2009,
- 102 Morteza Habibi, Reza Amrollahi, Gholamreza Etaati, "Experimental Study of Hard X-ray Emission with Different Anode Tips in APF Plasma Focus Device", *Journal of Fusion Energy*, Vol. 29, Num. 1, Page 0-0, July 2009,
- 103 Morteza Habibi, Reza Amrollahi, "Correlation between plasma pinch intensity, current sheath symmetry, and HXR yield by APF plasma focus device", *Plasma Devices and Operations*, Vol. 17, Num. 1, Page 0-0, March 2009,
- 104 Reza Amrollahi, Morteza Habibi, "Correlation between plasma current sheath and HXR radiated by APF plasma focus facility", , Vol. 0, Num. 0, Page 0-0, March 2009,
- 105 Morteza Habibi, Reza Amrollahi, Gholamreza Etaati, "Correlation between Plasma Pinch Intensity and Current Sheath Symmetry in Amirkabir Plasma Focus Facility", *J. Plasma Fusion Res. SERIES*, Vol. 8, Num. 1, Page 0-0, March 2009,
- 106 Morteza Habibi, Reza Amrollahi, "Experimental investigation of current pinch behavior and hard x ray signals by APF plasma focus facility", *Journal of Technical Physics*, Vol. 50, Num. 3, Page 283-289, January 2009,
- 107 Morteza Habibi, Reza Amrollahi, Gholamreza Etaati, "Design, construction and the first experiments on the Amirkabir Plasma Focus (APF) facility", *Plasma Devices and Operations*, Vol. 16, Num. 3, Page 0-0, September 2008,

- 108 Morteza Habibi, Reza Amrollahi, "Experimental Study of Current Discharge Behavior and Hard X-ray Anisotropy by APF Plasma Focus Device", *Journal of Fusion Energy*, Vol. 28, Num. 1, Page 0-0, July 2008,
- 109 Morteza Habibi, Reza Amrollahi, "Study of Dense Plasma-Surface Interaction by a Filippov type Plasma Focus Device", *Brazilian Journal of Physics*, Vol. 38, Num. 2, Page 0-0, June 2008,
- 110 Morteza Habibi, Reza Amrollahi, "plasma material interaction investigation by DENA plasma focus facility", *Amirkabir Journal of science and technology*, Vol. 19, Num. 68, Page 0-0, March 1999,

مقالات کنفرانس

داده های ثبت شده در پورتال

- 1 Narges Ziveh, Morteza Habibi, "coating of carbon on 316 stainless steel by a plasma focus device ", Iranian Nuclear Conference , 26 th, February 2020
- 2 Peyman Karkon, Morteza Habibi, Mohammad Fooladgar, "design and 3D simulation of a helicon plasma propulsion ", Iranian Nuclear Conference , 26 th, February 2020
- 3 Amin Masoumzadeh, Morteza Habibi, "Design and construction of the conical Faraday cup for measuring the Argon ion beam current in Amirkabir Helicon Ion Source ", 24th iranian nuclear conference, February 2018
- 4 Hossein Jafari, Morteza Habibi, "Determination of Optimum Operating Conditions of a 3 Joule Pinch Plasma Generator, Using Sensitive Analysis ", Iranian Physics Conference, August 2017
- 5 Morteza Habibi, "Formation of nano bubbles on Al samples by deuterium plasma interaction in a small plasma focus device ", 16th International Conference on Plasma-Facing Materials and Components for Fusion Applications, May 2017
- 6 Morteza Habibi, Hossein Jafari, G. H. Etaati, "optimization of a 3J miniature plasma focus device for optimum operation in repetitive performance ", 23th Iranian Nuclear Conference, February 2017
- 7 Hossein Jafari, Morteza Habibi, "Optimization of miniature PF electrodes with pinch column pictures ", 23th Iranian Nuclear Conference, February 2017
- 8 Maliheh Omrani, Reza Amrollahi, Maryamosadat Ghasemi, Morteza Habibi, "Different coating using plasma focus device in order to improve the electrical conductivity and corrosion resistance of SS316L as PEM bipolar plate ", 43rd EPS Conference on Plasma Physics, July 2016
- 9 Iman Jalali, Hossein Sadeghi, Mohsen Zare Mohammadjani, A. Alast, Morteza Habibi, "Design and manufacture of an optimal Rogowski coil for discharge signal reception in fusion devices ", 1st International Conference on New Research Achievements in Electrical and Computer Engineering, May 2016
- 10 Hossein Jafari, Morteza Habibi, Hamidreza Allivaneghi, "design and construction of a high voltage power supply with repetitive performance for driving fusion reactors ", 22nd nuclear conference of Iran, February 2016
- 11 Mojtaba Rafee, Morteza Habibi, Parviz Parvin, Ali Bavali, "Plasma temperature and its density determination based upon visible light spectroscopy in a plasma focus device ", 22nd nuclear conference of Iran, February 2016
- 12 Morteza Habibi, Hossein Jafari, Parviz Parvin, Mojtaba Rafee, "Determination of electron density and temperature of a pinch plasma column in a very small 3J plasma focus device (PF-3J) ", 22nd nuclear conference of Iran, February 2016
- 13 Mohsen Afsharmanesh, Morteza Habibi, "radial profile of neutrons in inertial IECF devices ", 22nd nuclear conference of Iran, February 2016
- 14 Morteza Habibi, Fateme Mohammadian, Ali Masoudi, Mahdi Valikhani, Sedighe Alsadat Tabaei Aghdaei, Melika Mohsenygooya, "Experimental optimization of ion beam emitted from the APF plasma focus facility by using different anode tip shapes ", 22nd nuclear conference of Iran, February 2016
- 15 Farzin Shama, Mohsen Hayati, Gholam Hossein Roshani, Milad Ekhteraie, Morteza Habibi, "Investigation and analysis of a High Power Amplifier as a new radio frequency heating system for auxiliary heating in small tokamaks ", IEEE 2015, 2nd International Conference on Knowledge-Based Engineering and Innovation (KBEI), November 2015












- 16 Hamidreza Mirzaei, Reza Amrollahi, Morteza Habibi, D. Iraj, Moslem Kazemi, Mohammad Hosseini, Dariush Rostamifard, "design of data acquisition of Alborz tokamak ", International Conference on Plasma Science and Application, September 2015
- 17 Mohsen Afsharmanesh, Morteza Habibi, "Multiple peaks in the SXR emitted from APF plasma focus device ", International Conference on Plasma Science and Application, September 2015
- 18 Hossein Jafari, Morteza Habibi, Hamidreza Allivaneghi, "switched-mode pulsed-power supply for plasma generation application ", International Conference on Plasma Science and Application, September 2015
- 19 Hossein Sadeghi, Mohsen Zare Mohammadjani, Abolfazl Mazandarani, Samaneh Fazelpour, Iman Jalali, Morteza Habibi, Reza Amrollahi, "Design and simulation of a new space propulsion system ", International Conference on Plasma Science and Application, September 2015
- 20 Hossein Jafari, Morteza Habibi, Hamidreza Mirzaei, "pinch current limitation analyzing of plasma focus devices using simulink ", International Conference on Plasma Science and Application, September 2015
- 21 Hossein Jafari, Morteza Habibi, G. R. Etaati, "Pinching evidence in a very small plasma focus, operating in repetitive discharge mode ", International Conference on Plasma Science and Application, September 2015
- 22 Mohsen Afsharmanesh, Morteza Habibi, "Investigation of neutron production rate in spherical IECF devices ", International Conference on Plasma Science and Application, September 2015
- 23 D. Rostamifard, Morteza Habibi, H. Akbarian Shorkaei, "Design of electrostatic lenses for pyroelectric crystal neutron source ", International Conference on Plasma Science and Application, September 2015
- 24 Morteza Habibi, Reza Amrollahi, "Effect of Accelerated Ions Interacted with Al Targets Using Plasma Focus Device ", 17th international conference on Fusion and Plasma physics, August 2015
- 25 Mahsa Mahtab, Morteza Habibi, "Analysis of Soft and Hard X-Ray Intensities Using Different Shapes of Anodes in a 4kJ Mather Type Plasma Focus Facility ", 17th international conference on Fusion and Plasma physics, August 2015
- 26 D. Rostamifard, Morteza Habibi, H. Akbarian Shourkaei, M. M. Nasser, "Calculation of neutron yield of pyroelectric crystal neutron source ", The Annual Physics Conference of Iran, August 2015
- 27 Morteza Habibi, "Spatial Emission of Ions Produced by the APF Plasma Focus Device ", 17th international conference on Plasma physics, May 2015
- 28 Morteza Habibi, "Quantum Magnetic Effects of P-B Fusion in Plasma Focus Devices ", 17th international conference on Plasma physics, May 2015
- 29 Morteza Habibi, "Comprehensive Study of X-Ray Emission by APF Plasma Focus Device ", 17th international conference on Plasma physics, May 2015
- 30 Morteza Habibi, "Time integrated study of x-ray emission by APF plasma focus device ", The 42nd IEEE International Conference on Plasma Science, May 2015
- 31 Morteza Habibi, "Time integrated study of x-ray emission by APF plasma focus device ", 2015 IEEE International Conference on Plasma Sciences (ICOPS), May 2015
- 32 Morteza Habibi, Reza Amrollahi, Maliheh Omrani, "Implantation of TiN nanoparticles to improve bipolar plate of fuel cells using a 3kJ plasma focus device ", 15th International Conference on Plasma Surface Engineering, September 2014
- 33 Morteza Habibi, Reza Amrollahi, Maliheh Omrani, "A New Method for Titanium Nitride Coating on Bipolar Plates by A Small Pulsed Plasma Focus System ", INTERNATIONAL ADVANCES IN APPLIED PHYSICS AND MATERIALS SCIENCE CONGRESS, APMAS, April 2014
- 34 Reza Amrollahi, Maliheh Omrani, Morteza Habibi, "new results on ion implantation by the APF plasma focus device ", international conference on plasma science and applications, December 2013
- 35 Reza Amrollahi, Morteza Habibi, Mohammad Hossein Shahidi Alavi, "hydrophilicity on PET surface using a 4kJ plasma focus device ", international conference on plasma science and applications, December 2013
- 36 Morteza Habibi, Reza Amrollahi, Razieh Sharifi, "hard x ray intensity degradation with insulator contamination in a 4kj plasma focus device ", international conference on plasma science and applications, December 2013

- 37 Mahsa Mahtab, Morteza Habibi, Gholamhossein Roshani, "approach to maximum performance in nanoparticles deposition, charged beams and x ray emission in a 4kj plasma focus device ", international conference on plasma science and applications, December 2013
- 38 Morteza Habibi, Reza Amrollahi, "Effect of accelerated ions interacted with the targets using a plasma focus device ", international conference on plasma science and applications, December 2013
- 39 Mojtaba Dehghanibaharani, Morteza Habibi, Khairollah Mohammadi, "Improvement of x ray yields of amirkabir plasma focus device ", 3rd National Conference of Fuel, Energy & Environment, September 2013
- 40 Maliheh Omrani, Morteza Habibi, Reza Amrollahi, "TiN ions implantation on SS316L targets by a 4kJ plasma focus facility ", The 12th International Workshop on Plasma-Based Ion Implantation and Deposition, July 2013
- 41 Mohsen Afsharmansh, Morteza Habibi, "Generation of the several current sheaths in the APF plasma focus device and its effect on the X-ray emission ", The First Conference in Plasma Engineering and Physics, May 2013
- 42 Mojtaba Dehghanibaharani, Morteza Habibi, Khairollah Mohammadi, "Experimental Investigation of Spatial Distribution of X-rays in APF Plasma Focus Device Using Thermoluminescence Dosimeters ", The first conference in plasma engineering and physics, May 2013
- 43 Saeideh Koohestani, Morteza Habibi, Reza Amrollahi, "the effect of APF plasma focus insulator sleeve length on X ray intensity ", The First Conference in Plasma Engineering and Physics, May 2013
- 44 Hossein Jafari, Morteza Habibi, Reza Amrollahi, "a new approach to investigate the effect of inductance variations of pinched plasma system by MATLAB ", 19th iranians nuclear conference, February 2013
- 45 Morteza Habibi, Reza Amrollahi, Mohammad Hossein Shahidi Alavi, "Polymerization of Acrylic Acid by a 4kJ plasma focus device ", Thirteenth International Conference on Plasma Surface Engineering, September 2012
- 46 Behrooz Soltani, Morteza Habibi, "TBR CALCULATION FOR ITER WITH HCPB BLANKET ", Iranian Physics Conference, August 2012
- 47 Hossein Jafari, Morteza Habibi, Reza Amrollahi, "conceptual design and simulation of a miniature plasma focus ", Iranian Physics conference, August 2012
- 48 Maliheh Omrani, Morteza Habibi, Reza Amrollahi, "Improvement of corrosion of 316L stainless steel by TiN using APF plasma focus ", iran nuclear conference, February 2012
- 49 , Morteza Habibi, Gholamhossein Roshani, Vahid Ramezani, "Investigation of angular distribution of Nitrogen ions of APF device by Polycarbonate detectors ", 18th iranian nuclear conference, February 2012
- 50 Soolmaz Abolhassani, Morteza Habibi, Reza Amrollahi, "Analytical investigation of P-B fuel in plasma focus device ", iranian nuclear conference, February 2012
- 51 Mohamad Afrashteh, Morteza Habibi, Reza Amrollahi, "nitriding of ss304 surface by APF plasma focus device facility ", The 4th International Workshop on Plasma Science and Applications, October 2011
- 52 A. Roomi, Morteza Habibi, Reza Amrollahi, "experimental study on hard x ray emission from nitrogen and neon gas mixtures in the APF plasma focus device ", The 4th International Workshop on Plasma Science and Applications, October 2011
- 53 Gholamhossein Roshani, Morteza Habibi,, "design and study of an improved faraday cup detector ", 4th international workshop on plasma science and applications, October 2011
- 54 Maliheh Omrani, Morteza Habibi, Reza Amrollahi, "deposition of titanium nitride on SS316L targets using APF PLASMA FOCUS DEVICE ", The 4th International Workshop on Plasma Science and Applications, October 2011
- 55 Mahsa Mahtab, Morteza Habibi, A. Tafreshi, "THE effect of Anode shape on nitrogen hard x ray emission in plasma focus ", The 4th International Workshop on Plasma Science and Applications, October 2011
- 56 , Morteza Habibi, Gholamhossein Roshani, Sobhan Roshani, "A new method to computation of ion tracks in polycarbonate detector ", 3th iranian conference on electrical and electronics engineering (ICEEE, July 2011

- 57 Gholamhossein Roshani, Morteza Habibi, Farzin Shamma, "introduce and technical analysis of a new and optimum RF heating system with 8kw power for external heating of small tokamaks ", 3th iranian conference on electrical and electronics engineering (ICEEE, July 2011
- 58 Morteza Habibi, Reza Amrollahi, "study of hard x ray anisotropy emission from anode surface of APF plasma focus device ", 17th iranian nuclear conference, March 2011
- 59 Morteza Habibi, Reza Amrollahi, "Analysis of electron and ion plasma temperature as nuclear fusion fuel ", IRANIAN NUCLEAR CONFERENCE, February 2010
- 60 Morteza Habibi, Reza Amrollahi, "Application of plasma focus as a propulsion genertation system ", IRANIAN NUCLEAR CONFERENCE, February 2010
- 61 Gholamreza Etaati, Morteza Habibi, Reza Amrollahi, "experimental improvement of pressure in varous voltages results to pinched plasma ", iranian physics conference, August 2009
- 62 Reza Amrollahi, Morteza Habibi, "Amirkabir plasma focus APF a new iranian mather type plasma focus facility ", international workshop on plasma diagnostics and applications, July 2009
- 63 Gholamreza Etaati, Reza Amrollahi, Morteza Habibi, "measurement of argon energy spectrum in APF device ", IRANIAN NUCLEAR CONFERENCE, March 2009
- 64 Morteza Habibi, Reza Amrollahi, "Correlation between plasma pinch intensity and current sheath symmetry at Amirkabir plasma focus facility ", International Congress on Plasma Physics, September 2008
- 65 Morteza Habibi, Reza Amrollahi, "Computational simulation of imploding current sheath trajectory at the radial phase of plasma focus performance" ", WCSET 2008:World Congress on Science, Engineering and Technology, September 2008
- 66 Morteza Habibi, Reza Amrollahi, "Experimental investigation of pinched plasma current and HXR intensity using Ne in different pressures by Amirkabir Plasma Focus facility ", The 35th IEEE International Conference on Plasma Science, June 2008
- 67 Morteza Habibi, Reza Amrollahi, "Design, Construction and illustration of Amirkabir PF; the first Iranian Mather type Plasma Focus Facility ", The 35th IEEE International Conference on Plasma Science, June 2008
- 68 Morteza Habibi, Reza Amrollahi, "Theoretical analysis of pressure perturbations at dense plasma column formed in radial phase of a Mather type plasma focus ", The 35th IEEE International Conference on Plasma Science, June 2008
- 69 Morteza Habibi, Reza Amrollahi, "Theoretical study of magnetic and shock wave pressure effects on the rail gap switch surface used at the Amirkabir Mather type plasma focus facility ", The 35th IEEE International Conference on Plasma Science, June 2008
- 70 Morteza Habibi, Reza Amrollahi, "Amirkabir Plasma focus facility, design and construction ", Iranian Nuclear Conference, February 2008
- 71 Morteza Habibi, Reza Amrollahi, "Experimental Study of Dense Plasma Irradiation on Plasma Focus Cathode Surface ", ICFRM13, December 2007
- 72 Morteza Habibi, Reza Amrollahi, "analysis of pressure perturbations at dense plasma column formed in radial phase of a mather type plasma focus ", iranian physics conference, August 2007
- 73 Morteza Habibi, Reza Amrollahi, "study of plasma surface interaction in nuclear fusion powerplants by plasma focus devices ", iranian physics conference, August 2004
- 74 Morteza Habibi, Reza Amrollahi, "investigation of plasma material interaction in DENA plasma focus facility ", international conference on nuclear science and engineering in iran, April 2004

دروس ارائه شده

#	عنوان درس	توصیف درس	دوره سرفصل درسی ها
---	-----------	-----------	-----------------------

1	General Physics (II)	This course is the second semester of introductory physics. The focus is on electricity and magnetism.		Spring 2022
2	Industrial Applications of Plasma Engineering	This course is intended to provide a description of plasma-related devices and processes which are used industrially. Because plasmas are conductive and respond to electric and magnetic fields and can be efficient sources of radiation, they are used		Spring 2022
3	Nuclear Fusion Laboratory (II)	goal:		Fall 2021
4	Engineering Electromagnetic	the goal of engineering electromagnetic:		Fall 2021
5	General Physics (I)	The goal of this course is to provide the student with a broad understanding of the physical principles of the universe, to help them develop critical thinking and quantitative reasoning skills, to empower them to think creatively and critically about		Fall 2021
6	Nuclear Fusion Laboratory (I)	in this course student must learn about the experimental foundations and data analysis and also work with plasma focus device.		Spring 2021
7	General Physics (II)	This course is the second semester of introductory physics. The focus is on electricity and magnetism.		Spring 2021
8	Industrial Applications of Plasma Engineering	This course is intended to provide a description of plasma-related devices and processes which are used industrially. Because plasmas are conductive and respond to electric and magnetic fields and can be efficient sources of radiation, they are used		Spring 2021
9	Engineering Electromagnetic	the goal of engineering electromagnetic:		Fall 2020
10	General Physics (I)	The goal of this course is to provide the student with a broad understanding of the physical principles of the universe, to help them develop critical thinking and quantitative reasoning skills, to empower them to think creatively and critically about		Fall 2020
11	General Physics (I)	The goal of this course is to provide the student with a broad understanding of the physical principles of the universe, to help them develop critical thinking and quantitative reasoning skills, to empower them to think creatively and critically about		Fall 2020

اختراعات/ ثبت پتنت

#	عنوان اختراع	شماره کشور ثبت کننده	همکاران	تاریخ ثبت	تاریخ انقضا
داده های ثبت شده در پورتال					
1	ساخت مولد تابش پالسی مینیاتوری با عملکرد تخلیه تکراری	95530 -	حسین جعفری، مرتضی حبیبی	1397/1/12	1416/4/11
2	فرآیند لایه نشانی بر روی الکترودهای اصلی سوئیچ به منظور افزایش عمر و راندمان انتقال بار الکتریکی	93821 -	حسین جعفری، مرتضی حبیبی	1396/7/9	1415/7/10

