

Curriculum Vitae

Personal Data:

Name	Surname	Date of Birth	Nationality	Sex	Marital Status
Saleh	Ashrafi	1965	Iranian	M	Married

Telephone	Fax	E-mail
0098-41-33393331	0098-41-33341244	ashrafi@tabrizu.ac.ir

Educational Background:

Certificate Degree	Field of Specialization	Name of Institution Attended	Date Received
Ph.D	Nuclear Engineering	Ljubljana University, Slovenia	2002
MSc	Nuclear Engineering	Sharif Technology University, Iran	1992
BSc	Physics	Tabriz University, Iran	1988

Title of Post-Graduate Thesis: Optimization of a collimator for neutron diffractometer
Title of Doctorate Thesis: Monte-Carlo simulation of γ -ray and charged particle detectors used in In-beam spectrometry of nuclei

Teaching Experiences: (Last One First)

Title of Course	Level	Name of Institution
Nuclear Reactor Physics	BSc, MSc	Physics Faculty
Nuclear Physics	BSc, MSc	
Monte Carlo techniques in Nuclear Physics	PhD	Physics Faculty
Gamma ray	PhD	Physics Faculty
Analytical Mechanics	BSc	Physics Faculty
Radiation protection	BSc	
Computational Physics	BSc, MSc	Physics Faculty
Mathematical Method in Physics	BSc	Physics Faculty
Special topics	MSc	Physics Faculty
Radiation Detectors	BSc, MSc, PhD	Physics Faculty
Radiation interactions with matter	MSc, PhD	
General Physics I	BSc	Physics Faculty
Radioisotopes	BSc	Physics Faculty

Administrative Responsibilities:

Job Title	Place of Work	Date		Name of Institution
		From	To	
Head of Faculty	Physics Faculty	2020	now	Tabriz University
Vice Dean	Physics Faculty	2018	2020	Tabriz University
Head of Nuclear Physics Department	Physics Faculty	2015	2018	Tabriz University
Head of Faculty	Physics Faculty	2010	2014	Tabriz University
Vice Dean	Physics Faculty	2004	2010	Tabriz University
Head of Nuclear Physics Department	Physics Faculty	2008	2010	Tabriz University

Academic Positions:

Title of Position	Field of Specialization	Date		Name of Institution
		From	To	
Professor	Nuclear Physics	2021	now	Physics Faculty
Associate Professor	Nuclear Physics	2011	2020	Physics Faculty
Assistant Professor	Nuclear Physics	2003	2011	Physics Faculty

Master and Doctorate Thesis Supervision:

Supervising 36 Msc and 8 PhD students

Papers in International Journals

- Ashrafi Saleh, Likar Andrej, Vidmar Tim, 1999/12/01, Precise modeling of a coaxial HPGe detector, Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 438, 421-428
- Ashrafi Saleh, Jahanbakhsh Okhtay, Alizadeh Davood, salehpoor behrooz, 2013/05/01, A novel method for non-destructive Compton scatter imaging based on the genetic algorithm, Central European Journal of Physics, 11, 560-567
- Jahanbakhsh Okhtay, Ashrafi Saleh, Salehpoor Behrooz, Bodaghi Hosseinabadi Roghayye, Khayyatoli Negar, 2013/10/01, Industrial scattering densitometry using a mCi gamma-ray source, Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 726, 47-51
- Ashrafi Saleh, Jahanbakhsh Okhtay, Alizadeh Davood, 2014/10/01, Application of artificial neural network in non-destructive Compton scattering densitometry, Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 760, 1-4

- Eslami Baharak, Ashrafi Saleh, 2016/01/01, Effect of gamma ray absorbed dose on the FET transistor parameters, *Results in Physics*, 6, 396-400
- Ashrafi Saleh, Eslami Baharak, 2016/10/31, Investigation of sensitivity and threshold voltage shift of commercial MOSFETs in gamma irradiation, *Nuclear Science and Techniques*, 27, 144
- Ghahremani Gol Maryam, Ashrafi Saleh, Rahighi Javad, 2016/12/12, Basic design of a multi wire proportional counter using Garfield++ for ILSF, *Journal of Instrumentation*, 11, C12021-C12021
- Jahanbakhsh Okhtay, Ashrafi Saleh, Alizadeh Davood, 2017/03/01, A New Method Based on Adaptive Neuro-Fuzzy Inference System for Determination of Acid Molarity Using Compton Scattered Photons, *INSTRUMENTS AND EXPERIMENTAL TECHNIQUES*, 60, 444-449
- Ghahremani Gol Maryam, Ashrafi Saleh, Rahighi Javad, Menk Ralf Hedrik, 2017/04/19, Design and fabrication of a preamplifier to be used with a MWPC at the ILSF, *Journal of Instrumentation*, 12, T04008-T04008
- Jahanbakhsh Okhtay, Ashrafi Saleh, Alizadeh Davood, 2017/05/01, A new method based on adaptive neuro-fuzzy inference system for determination of acid molarity using Compton scattered photons, *INSTRUMENTS AND EXPERIMENTAL TECHNIQUES*, 60, 444-449
- Ashrafi Saleh, Khalili Golmankhaneh Ali, 2017/05/04, Energy Stragglng Function by $F\alpha$ -Calculus, *Journal of Computational and Nonlinear Dynamics*, 12, 051010
- Ashrafi Saleh, Ahmadi shahin, 2017/06/05, Calculation of the low-energy gamma ray detection efficiency for a GM tube, *Journal of Instrumentation*, 12, P06005-P06005
- Ashrafi Saleh, Kalili Golmankhaneh Ali, Baleanu Dumitru, 2017/07/22, GENERALIZED MASTER EQUATION, BOHR'S MODEL, AND MULTIPOLES ON FRACTALS, *Romanian Reports on Physics*, 69, 117
- Ashrafi Saleh, Khalili Golmankhaneh Ali, 2018/04/26, Dimension of quantum mechanical path, chain rule, and extension of Landau's energy stragglng method using $F\alpha$ -calculus, *Turkish Journal of Physics*, 42, 104
- Ahmadi shahin, Ashrafi Saleh, Yazdansetad Farhad, 2018/05/14, A method to calculate the gamma ray detection efficiency of a cylindrical NaI (TI) crystal, *Journal of Instrumentation*, 13, P05019-P05019
- Alizadeh Davood, Ashrafi Saleh, 2019/01/01, New hybrid metaheuristic algorithm for scintillator gamma ray spectrum analysis, *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*, 915, 1-9
- Jahanbakhsh Okhtay, Ashrafi Saleh, 2019/08/01, Measurement of natural radioactivity of Iranian granite samples using beta-gamma coincidence spectrometer and maximum likelihood method, *Environmental Earth Sciences*, 78, 473
- Kalili Golmankhaneh Ali, Ashrafi Saleh, Baleanu Dumitru, Fernandez Arran, 2020/01/11, Brownian Motion on Cantor Sets, *INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION*, 0, 1
- Ashrafi Saleh, Kasani Hadi, Ghal-Eh Nima, Rene Vega-Carrillo Hector, 2020/09/01, Sparsity-based pulse-processor for digital α -particle spectroscopy with Si-PIN-Diode detector, *APPLIED RADIATION AND ISOTOPES*, 163, 109245
- ghale asadi aydin, Ashrafi Saleh, Alizadeh Davood, Meric Niyazi, 2021/05/23, Gamma ray interactions based optimization algorithm: Application in radioisotope identification, *Nuclear Engineering and Technology*, xx, xxx

- Ashrafi Saleh, Alizadeh Davood, Ghale Asadi aydin, 2021/05/26, Numerical solution of integral equations with Monte Carlo-collocation (MC-Coll) method and its application in neutron transport, INTERNATIONAL JOURNAL OF MODERN PHYSICS C, -, 2150135
- Kasani Hadi, Ashrafi Saleh, Ghal-Eh Nima, Rene Vega-Carrillo Hector, 2021/07/01, Gamma-ray spectroscopy with anode pulses of NaI(Tl) detector using a low-cost digitizer system, APPLIED RADIATION AND ISOTOPES, 1, 109854
- Ashrafi Saleh, Kasani Hadi, Ghal-Eh Nima, 2021/07/01, High count-rate digital gamma-ray spectroscopy using a low-cost COTS digitizer system, RADIATION PHYSICS AND CHEMISTRY, 184, 109438
- Ashrafi Saleh, Ahmadi Shahin, Yazdansetad Farhad, Roshanshah Mrs. N, Akar Tarim Mr. U, 2021/11/01, A computational modelling of low-energy gamma ray detection efficiency of a cylindrical NaI(Tl) detector, RADIATION PHYSICS AND CHEMISTRY, 188, 109581
- ghale asadi aydin, Sahiner Eren, Ashrafi Saleh, Geranmayeh Sasan, Kasani Hadi, Meric Niyazi, 2021/11/13, Photoneutron dose and flux determination of a typical LINAC by MCNP simulation, Radiation Detection Technology and Methods, 5, 486
- Alizadeh Davood, Ashrafi Saleh, Jahanbakhsh Okhtay, Ghale Asadi aydin, Geranmayeh Sasan, 2022/01/18, A new image reconstruction method for inner corrosion detection based on Compton scattering and gray wolf optimizer (GWO), INDIAN J PHYS, 5, 486
- Ashrafi Saleh, Kasani Hadi, Ghal-Eh Nima, 2022/09/01, Real-time alpha-particle spectroscopy by a low-cost COTS digitizer system: A fast pulse-shaper incorporation, RADIATION PHYSICS AND CHEMISTRY, 198, 110274
- Rezaei Akbarieh Amin, Kucukakca Yusuf, Ashrafi Saleh, 2023/04/01, Exact solutions in teleparallel dark energy model, CHINESE JOURNAL OF PHYSICS, 82, 47-61

Papers in National Journals

- Jahangiri Ahmad, Ashrafi Saleh, 2011/03/15, Natural Radioactivity in Iranian Granites Used as Building Materials, Journal of Environmental Studies, 36, 16
- Ashrafi Saleh, Hashemzadeh Reza, Naghshara Hamid, Kasani Hadi, 2021/04/15, Alpha particle spectrometry with CMOS webcam and a SBC, barg, 51, 27-32

Presented Papers in International Conferences



- Alizadeh Davood, Ashrafi Saleh, Jahanbakhsh Okhtay, Movahedifar Amir, Second National and First International Conference on Soft Computing, poster presentation, complete article, detection of internal cracks arising from tension corrosion and fatigue in drilling pipes using gamma photons and ANFIS model, 2017/11/22, 2017/11/23
- Arifar H, Ashrafi S, Jalilzadeh H. International Conference on Nuclear Science and Technology (ICNST2024), Isfahan, Iran. An improved model for dead time correction of G-M detector, 2024.

- Jalilzadeh H., Ashrafi S, Arifar H International Conference on Nuclear Science and Technology (ICNST2024), Isfahan, Iran. Determining Detector Dead Time by Statistical Analysis of Detector counts, 2024.

-

Presented Papers in National Conferences

- mahmudigharayi mohammadhossein, Ashrafi Saleh, nasseri nasser, Jahanbakhsh Okhtay, 15th Symposium of Geological Society of Iran, announcer, complete article, N, 2011/12/14, 2011/12/15
- Ashrafi Saleh, Khayyatali Negar, Jahanbakhsh Okhtay, Bodaghi Hosseinabadi Roghayye, 5th national physics conference of PNU, poster presentation, complete article, The study of saturation depth of 662 keV gamma photons, 2012/01/03, 2012/01/04
- Ashrafi Saleh, Bodaghi Hosseinabadi Roghayye, Jahanbakhsh Okhtay, Khayyatali Negar, 5th national physics conference of PNU, poster presentation, complete article, Study of the effect of target density on the intensity of Compton scattered photons, 2012/01/05, 2012/01/06
- Ashrafi Saleh, Jahanbakhsh Okhtay, Khayyatali Negar, Bodaghi Hosseinabadi Roghayye, 18th Iran's Nuclear Conference, poster presentation, complete article, study of saturation depth effect in CT, 2012/02/22, 2012/02/23
- Ashrafi Saleh, Jahanbakhsh Okhtay, Bodaghi Hosseinabadi Roghayye, Khayyatali Negar, 18th Iran's Nuclear Conference, poster presentation, complete article, Densitometry by Compton scattered photons, 2012/02/22, 2012/02/23
- Ashrafi Saleh, Jahanbakhsh Okhtay, Alizadeh Davood, Alayi Somayye, 19th Iran's Nuclear Conference, poster presentation, complete article, Application of neural network in CT by Compton scattering method, 2013/02/20, 2013/02/21
- Ashrafi Saleh, Jahanbakhsh Okhtay, Alizadeh Davood, Alayi Somayye, 19th Iran's Nuclear Conference, poster presentation, complete article, Image reconstruction in CT by genetic algorithm, 2013/02/20, 2013/02/21
- Ashrafi Saleh, Jahanbakhsh Okhtay, Alizadeh Davood, 20 th iranian nuclear conference, poster presentation, complete article, S, 2014/02/26, 2014/02/27
- Jahanbakhsh Okhtay, Ashrafi Saleh, Alizadeh Davood, Hasanzadeh Iran, 21st Iranian Nuclear Conference, announcer, complete article, determination the acid molarity using compton scattering photons, 2015/02/25, 2015/02/26
- Alizadeh Davood, Jahanbakhsh Okhtay, Ashrafi Saleh, Iranian Physics Conference, announcer, complete article, Use of artificial ANFIS model to determine the acid molarity, 2015/08/24, 2015/08/27
- Ashrafi Saleh, Alizadeh Davood, Jahanbakhsh Okhtay, ghale asadi aydin, nuclear conference of Iran, announcer, complete article, Determination of saturation depth in Compton scattering using artificial models, 2021/03/01, 2021/03/04

		شناسه یکتا: ۱۴۰۳۰۳۴۰۰۰۳۰۰۰۱۷۱
		رمز تصدیق: ۷۵۲۷۷۰
کوابی نام ثبت اختراع		
شماره اظهارنامه اختراع:	۱۴۰۱۵۰۱۴۰۰۰۳۰۰۷۲۲۳	شماره ثبت اختراع: ۱۱۰۸۸۳
تاریخ ثبت اظهارنامه اختراع:	۱۴۰۱/۱۰/۱۱	تاریخ ثبت اختراع: ۱۴۰۳/۰۱/۲۷
عنوان اختراع: طیف سنج و شمارنده ذرات آلفا با استفاده از دیود سیلیکونی و پردازنده رزبری پای		
مشخصات مالک: هادی کسانی، شماره ملی: ۲۹۰۹۷۳۱۵۸۲، نشانی: استان آذربایجان شرقی، شهرستان تبریز، بخش مرکزی، شهر تبریز، توانیر، خیابان بعثت، بن بست ۱۰ متری غنچه، پلاک ۵، طبقه سوم، کد پستی: ۵۱۵۶۹۷۳۶۴۹، تابعیت جمهوری اسلامی ایران		
مشخصات مخترع: هادی کسانی، شماره ملی: ۲۹۰۹۷۳۱۵۸۲، نشانی: استان آذربایجان شرقی، شهرستان تبریز، بخش مرکزی، شهر تبریز، توانیر، خیابان بعثت، بن بست ۱۰ متری غنچه، پلاک ۵، طبقه سوم، کد پستی: ۵۱۵۶۹۷۳۶۴۹، تابعیت جمهوری اسلامی ایران اختای جهانبخش، شماره ملی: ۲۹۰۹۶۸۱۷۱۸، نشانی: استان آذربایجان شرقی، شهرستان تبریز، بخش مرکزی، شهر تبریز، بلوار ۲۹ بهمن، خیابان دانشگاه، بلوار ۲۹ بهمن، پلاک ۰، طبقه همکف، کد پستی: ۵۱۶۶۶۱۶۴۷۱، تابعیت جمهوری اسلامی ایران رسول آزمایش کندرود، شماره ملی: ۱۳۶۰۴۰۳۲۰۵، نشانی: استان آذربایجان شرقی، شهرستان تبریز، بخش مرکزی، شهر تبریز، محله رسالت، رسالت، کوچه شهیدرجانی، بن بست شهیدپورزینالی، پلاک ۲-، طبقه منفی ۱، کد پستی: ۵۱۷۸۷۵۴۸۱۱، تابعیت جمهوری اسلامی ایران صالح اشرفی، شماره ملی: ۲۷۵۵۲۹۷۵۸۱، نشانی: استان آذربایجان شرقی، شهرستان تبریز، بخش مرکزی، شهر تبریز، بلوار ۲۹ بهمن، بلوار ۲۹ بهمن، بن بست جام جم، پلاک ۵۰۵.۱، ساختمان استادان، طبقه ۵، کد پستی: ۵۱۶۶۶۱۷۵۳۳، تابعیت جمهوری اسلامی ایران حمید نقش آرا، شماره ملی: ۱۳۷۶۴۴۱۰۳۹، نشانی: استان آذربایجان شرقی، شهرستان تبریز، بخش مرکزی، شهر تبریز، محله ویلاشهر، گلها، کوچه پامچال، کوچه اول شرقی- [۱۰ متری پردیس]، پلاک ۴۱، ق ۷۳، طبقه دوم، کد پستی: ۵۱۶۸۷۴۶۱۵۸، تابعیت جمهوری اسلامی ایران		
طبقه بندی بین المللی: H۰۱J ۴۹/۴۴		
مدت حمایت از تاریخ: ۱۴۰۱/۱۰/۱۱ تا تاریخ: ۱۴۲۱/۱۰/۱۱ منوط به پرداخت اقساط سالیانه وفق ماده ۱۶ قانون ثبت اختراعات، طرحهای صنعتی و علائم تجاری و ماده ۶۶ آئین نامه اجرایی قانون ثبت اختراعات، طرحهای صنعتی و علائم تجاری در مواعید مقرر می باشد.		
رئیس اداره ثبت اختراعات:	از طرف علی رضائی بوکت	تاریخ: ۱۴۰۳/۰۲/۰۸ امضا
		
مستندات گواهی نامه شامل توصیف، ادعاینامه، خلاصه و نقشه در زمان تصدیق اصالت در نشانی الکترونیک my.ssaa.ir قابل رویت است.		
صفحه ۱ از ۱		

