

<p>1. A NOVEL AND FAST TECHNIQUE FOR EVALUATION OF PLASTIC ROD SCINTILLATORS AS POSITION SENSITIVE GAMMA-RAY DETECTORS USING ARTIFICIAL NEURAL NETWORKS <i>RADIATION PHYSICS AND CHEMISTRY 157 (2019) 1–5, ISSN: 0969-806X ,</i> BY <u>S. Z. ISLAMI RAD</u> , <u>R. GHOLIPOUR PEYVANDI</u></p>
<p>2. PRECISE PREDICTION OF RADIATION INTERACTION POSITION IN PLASTIC ROD SCINTILLATORS USING A FAST AND SIMPLE TECHNIQUE: ARTIFICIAL NEURAL NETWORK <i>NUCLEAR ENGINEERING AND TECHNOLOGY, ISSN: 1738-5733, JUNE 2018</i> BY <u>R. GHOLIPOUR PEYVANDI</u> , <u>S. Z. ISLAMI RAD</u></p>
<p>3. SYNTHESIS AND DEVELOPMENT OF A VINYL TOLUENE-BASED PLASTIC SCINTILLATOR <i>JOURNAL OF LUMINESCENCE, ISSN: 0022-2313, VOLUME 194, FEBRUARY 2018, PAGES 456-460</i> BY <u>ROOHOLLAH RAHMANIFARD</u> , <u>FATEMEH KATEBI</u> , <u>ALI REZA ZAHEDI</u> , <u>REZA GHOLIPOUR PEYVANDI</u></p>
<p>4. APPLICATION OF ARTIFICIAL NEURAL NETWORKS FOR PREDICTION OF VOLUME FRACTION USING SPECTRA OF GAMMA RAYS BACKSCATTERED BY THREE-PHASE FLOWS <i>THE EUROPEAN PHYSICAL JOURNAL PLUS, DOI 10.1140/EPJP/I2017-11766-3</i> BY <u>R. GHOLIPOUR PEYVANDI</u> , <u>S. Z. ISLAMI RAD</u></p>
<p>5. DETERMINATION OF URANIUM AND THORIUM CONCENTRATIONS IN THORIUM ORE SAMPLE USING ARTIFICIAL NEURAL NETWORK AND COMPARISON WITH NET AREA PEAK METHOD <i>RADIOCHIMICA ACTA, VOLUME 106, ISSUE 8, PAGES 669–674, ISSN (ONLINE) 2193-3405, ISSN (PRINT) 0033-8230</i> BY <u>S. Z. ISLAMI RAD</u> , <u>R. GHOLIPOUR PEYVANDI</u></p>
<p>6. AN OPTIMAL EXPERIMENTAL- MONTE CARLO COMBINED MODEL FOR ANALYZING OF THE CEMENT RAW BY PROMPT GAMMA NEUTRON ACTIVATION <i>RUSSIAN JOURNAL OF NONDESTRUCTIVE TESTING, VOL. 54, NO. 6, PP. 448–454. ISSN 1061-8309, 2018</i> BY <u>S. Z. ISLAMI RAD</u> , <u>R. GHOLIPOUR PEYVANDI</u> , <u>A.TAHERI</u> , <u>S. RAHMANZADEH TOOTKALEH</u></p>
<p>7. A BULK ANALYSIS SYSTEM USING THE PROMPT GAMMA NEUTRON ACTIVATION METHOD AND NEURAL NETWORK <i>EUROPEAN PHYSICAL JOURNAL PLUS, DOI: 10.1140/EPJP/I2017-11533-6, 2017,</i> BY <u>A.TAHERI</u> , <u>S. HEIDARY</u> , <u>R. GHOLIPOUR PEYVANDI</u></p>
<p>8. THE IMPACT OF WRAPPING METHOD AND REFLECTOR TYPE ON THE PERFORMANCE OF ROD PLASTIC SCINTILLATORS <i>MEASUREMENT, ISSN: 0263-2241, 2016, AVAILABLE ONLINE 25 OCTOBER 2016</i> BY <u>A.TAHERI</u> , <u>REZA GHOLIPOUR PEYVANDI</u></p>
<p>9. DETERMINATION OF OIL-WATER VOLUME FRACTION BY USING A PENCIL-BEAM COLLIMATED GAMMA-RAY EMITTING SOURCE IN A HOMOGENIZED FLOW REGIME CONDITION <i>FLOW MEASUREMENT AND INSTRUMENTATION, ISSN: 0955-5986, VOLUME 52, DECEMBER 2016, PAGES 17–24</i> BY <u>MOHSEN SHARIFZADEH</u> , <u>HOSEIN KHALAFI</u> , <u>HOSEIN AFARIDEH</u> , <u>REZA GHOLIPOUR</u></p>
<p>10. DETERMINATION OF GAUSSIAN ENERGY BROADENING PARAMETERS FOR ORGANIC SCINTILLATORS <i>JOURNAL OF INSTRUMENTATION (JINST), ISSN: 1748-0221, 2016, VOL. 11(5),</i> BY <u>A. TAHERI</u> , <u>M. ASKARI</u> , <u>R.G. PEYVANDI</u></p>
<p>11. A NEW AUTOMATED AND PRECISE CALIBRATION METHOD FOR GAMMA LEVEL GAUGES WITH ROD DETECTOR ARRANGEMENT <i>APPLIED RADIATION AND ISOTOPES, ISSN: 0969-8043, 112 (2016) 1–4</i></p>

<p>REZA GHOLIPOUR PEYVANDI, ALI TAHERI , ALI OLFATE, SEYYEDEH ZAHRA ISLAMI</p>
<p>12. PRODUCTION OF ^{153}Sm USING NATURAL SAMARIUM TARGET IN TEHRAN RESEARCH REACTOR FOR RADIOTHERAPY PURPOSES JOURNAL OF RADIOANALYTICAL & NUCLEAR CHEMISTRY (JRNC),ISSN: 0236-5731,ACCEPTED REZA GHOLIPOUR PEYVANDI, ALI TAHERI , SEYYEDEH ZAHRA ISLAMI</p>
<p>13. SPECTRAL RESPONSE EVALUATION OF PLASTIC ROD SCINTILLATORS AS POSITION SENSITIVE BETA PARTICLE DETECTORS JOURNAL OF INSTRUMENTATION (JINST), ISSN: 1748-0221,2015, VOL. 10, BY A. TAHERI, R.G. PEYVANDI, M.T. SASANPOUR AND M. ASKARI</p>
<p>14. INCREASING THE ACCURACY OF RADIOTRACER MONITORING IN ONE-DIMENSIONAL FLOW USING POLYNOMIAL DECONVOLUTION CORRECTION APPLIED RADIATION AND ISOTOPES, ISSN: 0969-8043, 107 (2016) 335–339 BY R. GHOLIPOUR PEYVANDI, A.TAHERI</p>
<p>15. PRECISE VOID FRACTION MEASUREMENT IN TWO-PHASE FLOWS INDEPENDENT OF THE FLOW REGIME USING GAMMA-RAY ATTENUATION NUCLEAR ENGINEERING AND TECHNOLOGY, NO. 48, PP. 64-71,2016 E. NAZEMI^{1,2*}, S.A.H. FEGHHI¹, G.H. ROSHANI¹, R. GHOLIPOUR PEYVANDI² AND S. SETAYESHI³</p>
<p>16. A RADIATION-BASED HYDROCARBON TWO-PHASE FLOW METER FOR ESTIMATING OF PHASE FRACTION INDEPENDENT OF LIQUID PHASE DENSITY IN STRATIFIED REGIME FLOW MEASUREMENT AND INSTRUMENTATION, NO. 45, PP. 25-32,2015 E. NAZEMI¹, S.A.H. FEGHHI¹, G.H. ROSHANI¹, S. SETAYESHI² AND R. GHOLIPOUR PEYVANDI²</p>
<p>17. MEASURING U CONCENTRATION IN SOLUTION PRODUCT OF UF6 HYDROLYSIS USING A GAMMA RAY DENSITOMETER KERNTECHNIK, ISSN: 0932-3902,2015, VOL. 80, NO. 5, PP. 481-484. R. GHOLIPOUR PEYVANDI, F. HASSANALI.S. RAHMANZADEH AND Z. ISLAMI RAD.M. GHANNADI</p>
<p>18. STUDY OF ^{60}Co AS GAMMA SOURCE IN BACKSCATTER GAMMA DENSITOMETERS KERNTECHNIK, ISSN: 0932-3902,2015, VOL. 80, NO. 3, PP. 275-279 BY R. GHOLIPOUR PEYVANDI, S. Z. ISLAMI RAD, A. TAHERI, S. RAHMANZADEH TOOTKALEH, AND M. ASKARI LEHDARBONI</p>
<p>19. Evaluation of a new position sensitive detector based on the plastic rod scintillators JOURNAL OF INSTRUMENTATION (JINST), ISSN: 1748-0221,2015, VOL. 10, NO. 6, PP. 1-14,1.53 By R.G. Pevvandi, A. Taheri and M.A. Lehdarboni</p>
<p>20. DESIGN PERFORMANCE EVALUATION OF A HIGH RESOLUTION IRI-MICROPET PRECLINICAL SCANNER NUCLEAR INSTRUMENT & METHODS IN PHYSIC RESEARCH A , ISSN: 0168-9002,2015, VOL. 781, NO. ., PP. 6-13,1.32 BY S.Z. ISLAMI RAD, R. GHOLIPOUR PEYVANDI, M.ASKARI LEHDARBONI, A. A. GHAFARI</p>
<p>21. PET BLOCK DETECTOR CALIBRATION USING SUBTRACTIVE CLUSTERING ALGORITHM AND COMPARISON WITH HOUGH TRANSFORM ALGORITHM INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412, 2016, VOL. 59, NO. 1, PP. 75-81 By S.Z. Islami rad, R. Gholipour Pevvandi, M.Askari Lehdarboni, A.A.Ghafari</p>
<p>22. Evaluation of Thallium Quantity Through Grown NaI(Tl) Crystal by Czochralski Method Crystallography Reports (Kristallografiya) ISSN: 1063-7745 ,2014,VOL.59,No.7,pp.1118-1120 By H. Faripour^a, R. Gholipour Pevvandi^b, S.Z. Islami rad^b</p>
<p>23. INFLUENCE OF TEMPERATURE ON THE PERFORMANCE OF GAMMA DENSITOMETER INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412, 2014, VOL. 57, NO. 6, PP. 667-670 By R. G. Pevvandi, S. R. Tootkaleh, S.Z. Islami rad, R.Hosseinzadeh</p>
<p>24. STUDY OF THE SLOW-FAST PREAMPLIFIER INPUT PARAMETER'S EFFECTS ON OUTPUT IMAGE FOR LYSO SCINTILLATOR WITH PS-PMT BASED ANIMAL PET INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412,2014, VOL. 57, NO. 4, PP. 488-493 BY S. Z. ISLAMI RAD M. SHAMSAEI, R. GHOLIPOUR PEYVANDI, M. GHANNADI MARAGHEH</p>
<p>25. EVALUATING IMAGE RECONSTRUCTION METHODS IN IMPROVING EFFECTIVE PARAMETERS ON IMAGE QUALITY IN IRI-MICRO PET INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412,2014, VOL. 57, NO. 2, PP. 276-282 By S. Z. Islami rad M. Shamsaei, R. Gholipour Pevvandi, M. Ghannadi Maragheh</p>

<p>26. MOTION DETECTION IN CT IMAGES WITH A NOVEL FAST TECHNIQUE <i>INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412,2013, VOL. 56, NO. 3, PP. 218-221</i> By <i>S. Z. Islami Rad, R. Gholipour Peyvandi, R.Heshmati</i></p>
<p>27. INFLUENCE OF PROJECTION STEPS ON IMAGE QUALITY USING SINGLE SOURCE- SINGLE DETECTOR GAMMA RAY TOMOGRAPH <i>INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412,2011, VOL. 54, NO. 4, PP. 542-547</i> By <i>R. GHOLIPOUR PEYVANDI, S. Z. ISLAMI RAD, R.HESHMATI, M. GHANADI MARAGHEH</i></p>
<p>28. REACTOR PRODUCTION AND PURIFICATION OF ¹⁵³Sm RADIOISOTOPE VIA ^{nat}Sm TARGET IRRADIATION <i>Radiochemistry , 2011, Vol. 53, No. 6, pp. 542–544</i> By <i>S. Z. Islami rad, M. Shamsaei, R. Gholipour Peyvandi, M. Ghannadi Maragheh</i></p>
<p>29. IMAGE reconstruction using industrial gamma ray CT with different scatter windows <i>INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412,2011, VOL. 54, NO. 2, PP. 153- 155</i> By <i>R. Gholipour Peyvandi, S. Z. Islami Rad, M. Ghanadi Maragheh</i></p>
<p>30. Study of beam width on reconstructed image contrast using the first generation gamma ray CT <i>INSTRUMENTS AND EXPERIMENTAL TECHNIQUES- ISSN: 0020-4412,2011, VOL. 54, NO. 2, PP. 149- 152.</i> By <i>R. Gholipour Peyvandi, S. Z. Islami Rad, M. Ghanadi Maragheh</i></p>
<p>31. Prediction of the correct measured activity of ¹⁸⁶Re and ¹⁸⁸Re from reactor produced natural rhenium using an artificial neural network <i>Annals of Nuclear Energy (02 November 2009)/0.831</i> By <i>B. Leila Moghaddam, Saeed Setayeshi, Mohammad G. Maragheh, Reza Gholipour</i></p>

International Conference & Meeting

کنفرانس ها و نشست های بین المللی

<p>1- Design and construction an IRI-microPET preclinical scanner <i>The 21th Annual and 6th international Nuclear Medicine and Molecular Imaging Congress, 22-24 November, 2017, Mashhad ,Iran</i> By <i>S. Z. Islami Rad, R. Gholipour Peyvandi</i></p>
<p>2- Design and fabrication of a fast and high sensitivity dosimeter equipped by GPS data export named IR-PGSD1 <i>Technical Meeting on the Development of Nuclear Instrumentationfor In Situ Environmental Monitoring Programmes, 30 November – 4 December 2015,IAEA,Vienna,Austria</i> By <i>R.Gholipour Peyvandi</i></p>
<p>3- Participated in the IAEA Training Course <i>Theoretical and practical training in assembly and operation of the radioactive waste inventory system,12-16May ,2014, Dubna, Russia</i></p>
<p>4- Participated in the IAEA International Conference <i>International Conference on Clinical PET and Molecular Nuclear Medicine (IPET 2011), 8–11 November 2011 ,IAEA, Vienna, Austria</i></p>
<p>5- Participated in the IAEA Training Course <i>Quality management system in radioactive waste management, 20-24 May, 2006,Tehran, Iran</i></p>