

Annex-I

Scientific Publications of Prof. Dr. Abdus Sattar Mollah

A. Papers Published in Journals/Proceedings

Interational

11.	A. S. Mollah , M. M. Rahman and S.R. Husain, "Distribution of gamma emitting radionuclides in soils at the Atomic Energy Research Establishment, Savar, Bangladesh", Health Physics, Vol.50, 835 (1986)(USA).
12.	A. S. Mollah , G. U. Ahmed, S. R. Husain and M. M. Rahman, "The natural radioactivity of some building materials used in Bangladesh", Health Physics, Vol.50, 849 (1986)(USA).
13.	A. S. Mollah , S. R. Husain and M. M. Rahman, "Environmental gamma radiation from deposited fallout ¹³⁷ Cs", Indian Jour. Of Pure & Appl. Physics, Vol.24, 211 (1986)(India).
14.	A. S. Mollah , S. R. Husain and M. M. Rahman, "Environmental gamma radiation measurements by TLD in and around AERE, Dhaka", Radiation Protection Dosimetry, Vol.14, 261 (1986)(UK).
15.	A. S. Mollah , M. M. Rahman, A. Koddus, S. R. Husain and M. A. Malek, "Measurement of high background radiation level by TLD at the coastal areas of Cox's Bazar in Bangladesh", Radiation Protection Dosimetry, Vol, 18(1), 39 (1987)(UK).
16.	A. S. Mollah and M. M. Rahman, "Measurement of gamma activity from fallout ¹³⁷ Cs in the environmental samples at AERE in Bangladesh", Bulletin of Radiation Protection, Vol. 10(4), 3, (1987)(India).
17.	S. I. Bhuiyan, F. U. Ahmed, A. S. Mollah , M. Rahman and M. Azizur Rahman, "Neutron transport and shielding properties studies of POLY-BORON and ILMENITE-MAGNETITE concrete developed locally with indigenously resources", Proc. Of the 7 th Inter. Conference on Radiation Shielding, Vol. 2, 560 (1988)(UK).
18.	A. S. Mollah , S. C. Das, A. Begum, M. M. Rahman and M. A. R. Molla, "Indoor gamma radiation exposure at the Cox's bazar coastal areas", Radiation Protection Dosimetry, Vol. 27(1), 43 (1989)(UK).
19.	S. I. Bhuiyan, F. U. Ahmed, A. S. Mollah and M. A. Rahman, "Studies on the neutron transport and shielding properties of locally developed shielding material: POLY-BORON", Health Physics, Vol. 57, 819 (1989) (USA).
110.	A. S. Mollah and M. M. Rahman, "Environmental surveillance for radionuclide contamination utilizing high resolution intrinsic germanium detector", Proc. Of the IAEA/FAO/WHO International Symposium on Environmental Contamination Following a Major Nuclear Accident, IAEA-SM-306, Vol. I, 472, 1990 (Austria).
111.	A. S. Mollah , M. M. Rahman, M. A. R. Molla, S. C. Das and Y. Akan, "Measurements of radiation levels by TLD in the mineral processing plant in Bangladesh", Radiation Protection Dosimetry, Vol.34, 223(1990)(UK).
112.	A. S. Mollah , N Vana, M. Fugger and H. Bock, "Determination of the decay characteristics of residual radiation intensity in the thermal column of the Vienna TRIGA Mark II reactor", Proc. Of the 11 th European TRIGA Users Conference, Heidelberg, TOC-22, Section 2, pp.1-8 (1990)(Germany).
113.	A. S. Mollah , N. Vana, M. Fugger and H. Bock, "The gamma and neutron dose measurements in the spent fuel elements of a TRIGA Mark II reactor", Proc. Of the International seminar on Spent Fuel Storage, Safety, Engineering and Environmental Aspects, International Atomic Energy Agency, Vienna, IAEA-SR-171/2 (1990)(Austria).
114.	A. S. Mollah , "Measurements of radioactivity in some beach sand minerals", Bull. Of Radiation Protection, Vol. 13(3 & 4), 14(1990)(India).
115.	S. I. Bhuiyan, F. U. Ahmad, A. S. Mollah , M. A. Rahman and M. M. Rahman, "Studies of neutron shielding properties of ilmenite-magnetite concrete using a Cf-252 source", Nuclear Technology, Vol. 93, 357 (1991)(USA).
116.	M. R. Amin, M. Siddique, M. M. Raman and A. S. Mollah , "Evaluation of the locally available white perspex as a dosimeter in radiation processing", Proc. Of the Int. Symposium on High Dosimetry in Radiation Processing, IAEA-SM-374/2, p.55. (1991)(Austria).
117.	M. R. Amin, A. S. Mollah , M. M. Rahman and M. Siddique, "Radiation dosimetry using locally available perspex in the range of 5-35 kGy", Nuclear Science Journal, Vol. 24, 283(1991)(Republic of China).
118.	A. S. Mollah , "Detection of radioactive products in the cooling system of the Bangladesh research reactor", Proc. Of the 3 rd Asian Symposium on Research Reactor, JAERI-M 92-028, 457(1992)(JAPAN).
119.	F. U. Ahmed, S. I. Bhuyian, A. S. Mollah and M. A. Rahman, "Measurements of gamma-ray shielding properties of ilmenite- magnetite concrete and poly-boron slabs using Cf-252", Nuclear Technology, Vol. 98, 379(1992)(USA).
120.	A. S. Mollah , G. U. Ahmad and S. R. Hussain, "Measurements of neutron shielding properties of heavy concretes using a Cf-252 source", Nucl. Engg. And Design, Vol. 135, 321(1992)(Holland).
121.	A. S. Mollah and M. M. Rahman, "Locally manufactured incandescent gas mantles that contain thorium: source term, doses and risk assessment", Proc. of the International Workshop on "Radium, Uranium, Thorium and Related Nuclides in Industry and Medicine: History and Current Uses", Austria, October 1-3, 1991, Health Physics, Vol. 64, 202(1993)(USA) (Abstract).
122.	A. S. Mollah and M. M. Rahman, "Evaluation of radiological hazards in the beach sand mineral processing plant at Cox's bazar", Radiation Protection in Australia, Vol. 11(3), 97(1993)(Australia).

123.	A. S. Mollah and M. M. Rahman, "Radioactive waste management and practice in Bangladesh", Proceedings of the 1993 Int. Conference on Nuclear Waste Management and Environmental Remediation, The American Society of Mechanical Engineers (ASME), Vol.3, 617(1993)(USA).
124.	S. I. Bhuiyan, F. U. Ahmad, A. S. Mollah , M. R. Sarder, Q. Huda and M. Rahman, "Transport studies and shielding effectiveness of poly-boron and ilmenite-magnetite concrete for neutrons from reactor beam", Proc. Of the 8 th International Conference on Radiation Shielding(ICRS8), 24-28 April, Vol. 1, pp.59(1994)(USA).
125.	A. S. Mollah , N. Vana, M. Fugger and G. U. Ahmad, "A study on neutron and gamma-ray responses of laboratory made LiF:Mg, Ti single crystal TLD, Proc. Of the 9 th International Conference on Radiation Protection (IRPA9), Vol. 4, 373 (1996) (Austria).
126.	A. S. Mollah , "Assessments of internal doses by ingestion of radioactive foodstuffs in Bangladesh", Proc. Of the 9 th Int. Conf. on Radiation Protection (IRPA9), Vol. 2, 234 (1996) (Austria).
127.	M. M. Rahman, A. S. Mollah , K. Alam, Aleya. Begum and S. Islam, "Development of improved radioactive effluents treatment technology by precipitation and ion exchange and the related analytical control system", IAEA-TECDOC-929, 129 (1997)(Austria).
128.	A. S. Mollah and Matiur Rahman, "Thermoluminescence dosimetry in medical applications", Physica Medica, Vol. XIII (suppl. 1), 126 (1997)(Italy).
129.	A. S. Mollah , M. Idrish Miah, Aleya Begum and A. Yunus, "Measurements of environmental background radiation levels by TLD in and around the JahangirnagarUniversity campus", Radiation Protection and Environment, Vol. 20(4), 193 (1997)(India).
130.	A. S. Mollah , "Radiation protection and safety aspects of brachytherapy medical personnel", Proc. Of the 1998 ANS Radiation Protection and Shielding Conference, Vol. II, 269, (1998)(USA).
131.	A. S. Mollah , G. U. Ahmad and N. Vana, "A study on neutron-gamma mixed field dosimetry and dose mapping in the tangential beamport using a thermoluminescent dosimeter (TLD)", Proc. of the 1998 ANS Radiation Protection and Shielding Tropical Conference, Vol. I, 98, (1998)(USA).
132.	S. I. Bhuiyan, A. S. Mollah , F. U. Ahmad, Q. Huda and A. Hossain "Shielding aspects for installation of brachytherapy source at DMCH, Dhaka", Proc. Of the 1998 ANS Radiation Protection and Shielding Tropical Conference, Vol. II, 416, (1998)(USA).
133.	Q. Huda, S. I. Bhuiyan, F. U. Ahmad, A. S. Mollah , and M. A. W. Mondal, "MCNP4B verification on experimental studies of neutron shielding properties of ilmenite-magnetite concrete and polyboron using a Cf-252 source", Proc. of the 1998 ANS Radiation Protection and Shielding Tropical Conference, Vol. II, 187, (1998)(USA).
134.	A. S. Mollah , Aleya Begum and M. M. Rahman, "Removal of radionuclides from low-level radioactive liquid wastes by precipitation", J. of Radioanal. Nucl. Chem. Vol 229(1-2), 187(1998)(Hungary).
135.	A. S. Mollah , Aleya Begum and S. M. Ullah, "Determination of soil-to-plant transfer factors of ¹³⁷ Cs and ⁹⁰ Sr in the tropical environment of Bangladesh", Radiation and Environmental Biophysics, Vol. 37(2), 125 (1998) (Germany).
136.	A. S. Mollah and S. M. Ullah, "Determination of distribution coefficient of ¹³⁷ Cs and ⁹⁰ Sr in soil from AERE, Savar", Waste Management, Vol. 18(4), 287 (1998)(USA).
137.	A. S. Mollah , "Radiation protection management for the Atomic Energy Research Establishment 3MW TRIGA Mark-II research reactor, Savar, Bangladesh", Radiation Protection Management, Vol. 15(4), 43 (1998)(USA).
138.	Aleya Begum, M.A.R. Molla, G. U. Ahmad and A. S. Mollah , "Determination of plutonium in some environmental and biological samples by alpha spectrometry", Radiation Protection in Australasia, Vol. 15(3/4), 63(1998)(Australia).
139.	A. S. Mollah , Md. Maniruzzaman Khan and M. A. Zaman, "An assessment of patient exposure and radiation protection aspects in diagnostic radiology", Journal of Medical Physics, Vol. 23(4), 283(1998)(India).
140.	F. U. Ahmad, S. I. Bhuiyan, A. S. Mollah , M. R. Sarder, Q. Huda and M. A. W. Mondal, "Studies on the shielding properties of polyboron and ilmenite-magnetite concrete using a reactor neutron beam", Nuclear Technology, Vol. 126, 196 (1999)(USA).
141.	A. S. Mollah , "Neutron and gamma-ray dose distribution in and around the neutron radiography facility of 3MW TRIGA Mark-II reactor at AERE, Savar", Radiation Protection Management, Vol. 16(4), 41(1999) (USA).
142.	A.K. Siddique, M.R. Amin, N.A. Chowdhury, F. Begum, A. S. Mollah , R.A. Molla and A.H. Chowdhury, "Development of standardised methods to verify absorbed dose of irradiated fresh and dried fruits, tree nuts in trade", IAEA-TECDOC-1201, 41 (2001)(Austria).
143.	A. S. Mollah and Aleya Begum, "A study on transfer factors of ⁶⁰ Co and ⁶⁵ Zn from soil to plants in the tropical environment of Bangladesh", Environmental Monitoring and Assessment, Vol. 68, 91(2001) (The Netherlands).
144.	A. S. Mollah , "Radiation shielding design based on an empirical model for diagnostic x-ray facilities", Jour. of Medical Physics, Vol. 26(3), 139 (2001)(India).
145.	A. S. Mollah , N. U. Bhuiyan and S. Rahman, "IAEA/WHO TLD postal dose intercomparison results in Bangladesh", Jour. Of Medical Physics, Vol. 26(3), 179 (2001)(India).
146.	M.J. Frissel, D.L. Dev, M. Fathony, Y.M. Lin, A. S. Mollah , N.T. Ngo and M.A. Wasserman, "Generic values for soil-to-plant transfer factors of radiocesium", J. Environmental Radioactivity, Vol. 58(2-3), 113(2002)(The Netherlands).
147.	A. S. Mollah , "Regulatory control of radiation sources in Bangladesh", Proc. of the Int. Conference on Measures to Prevent, Intercept, and Respond to Illicit uses of Nuclear Material and Radioactive Sources, IAEA-CN-86/60, p.521, IAEA, Vienna (2002)(Austria).
148.	G. U. Ahmad, A. S. Mollah and M. K. Biswas, "Assessment of patient doses during x-ray diagnostic procedures", Proc. of the First Asian and Oceanic Congress for Radiation Protection (AOCR-1), CD version, (2002)(Korea).
149.	A. S. Mollah , S.R. Chakraborty, G.U. Ahmad and Aleya Begum, "Radioactivity and radiation dose levels in some sea-beaches of Bangladesh", Proc. of the Int. Con. On Radioactivity in the Environment, CD version (2002), NRPA, (Norway).

150.	A. S. Mollah , "AERE whole-body counting facility", Proceedings of the IAEA RCM on Intercomparison in-vivo counting system, IAEA-TECDOC-1334, p.69 (2003), IAEA (Austria).
151.	A. S. Mollah and C. S. Karim, "Regulatory infrastructure for the control of radiation sources in Bangladesh: Present status and future", Proc. Of the Int. conference on national infrastructures for radiation safety: towards effective and sustainable system, IAEA-CN-107/16, 456(2003)(Austria).
152.	C. S. Karim and A. S. Mollah , "Implementation of IAEA Model Project: Bangladesh perspectives", Proc. Of the Int. conference on national infrastructures for radiation safety: towards effective and sustainable system, IAEA-CN-107/23, 63(2003)(Austria).
153.	A. S. Mollah and S. M. Rahman, "Analysis of film reject rate in the department of radiology of DhakaMedicalCollegeHospital, Dhaka, Bangladesh", J. of Medical Physics, Vol. 28(3), 116 (2003)(India).
154.	A. S. Mollah , "Transport of radioactive materials in Bangladesh: A regulatory perspective", Packaging, Transport and Security of Radioactive Materials, Vol. 15(1), 57 (2004) (UK).
155.	A. S. Mollah , "Analysis of the radiation protective barriers for installation of a new ⁶⁰ Co teletherapy unit at DhakaMedicalCollegeHospital", J. of Medical Physics, Vol. 29(3), 202 (2004)(India).
156.	Monira Begum, S. M. Ullah, A. S. Mollah and N. Chowdhury, " ¹³⁷ Cs- uptake into wheat (<i>triticum vulgare</i>) plants from five representative soils of Bangladesh", Environmental Monitoring and Assessment, Vol. 104, 59 (2005) (The Netherlands).
157.	A. I. Imtiaz, Aleya Begum, A. S. Mollah and M. A. Zaman, "Measurements of radioactivity in books and calculations of resultant eye doses to readers", Health Physics, Vol. 88 (2), 169(2005) (USA).
158.	S. R. Chakraborty, A. S. Mollah , Aleya Begum and G. U. Ahmad, "Determination of radioactivity in samples of drinking water of Bangladesh", Japanese J. Health Physics, Vol. 40(2), 191 (2005)(Japan).
159.	A. S. Mollah , "National program and regulatory requirements for the radioactive waste management in Bangladesh", Proc. Of the 10 th International Conference on Environmental Remediation and Radioactive Waste Management, ICEM'05-1218 (UK)(2005) [4-8 September].
160.	A. S. Mollah , K. Alam, A. Koddus and Aleya Begum, "Regulatory control and management of disused radium sources in Bangladesh", Proc. of the 10 th International Conference on Environmental Remediation and Radioactive Waste Management, ICEM'05-1467 (UK)(2005) [4-8 September].
161.	A. S. Mollah and Aleya Begum, "Regulatory and organizational framework for safe management and disposal of radioactive waste in Bangladesh", Proc. of the International Conference on the Safety of Radioactive Waste Disposal, IAEA-CN-135/11, 47 (2005), Tokyo (Japan).
162.	A. S. Mollah , "Regulatory system for control of nuclear facilities in Bangladesh", Proc. of the International Conference on Operational Safety Performance in Nuclear Installations, IAEA-CN-133/13, 61,(2005), Vienna (Austria).
163.	A. S. Mollah , Aleya Begum and Roksana Begum, "Long-term follow-up after accidental gamma irradiation from a Ir-192 source in Bangladesh", Proc. of the Second Asian and Oceanic Congress for Radiation Protection, 9-13 October 2006 (CD version), page 385, Beijing (China)
164.	A. S. Mollah , "Radiation safety status in medical applications of radiation in Bangladesh-An update", Proc. of the 2 nd Asian and Oceanic Congress for Radiation Protection, 9-13 October 2006, Beijing, China (CD version), page 232, Beijing (China).
165.	M. Soheler Rahman, A. S. Mollah , A. Begum, M. Islam and M. A. Zaman, "Body radioactivity and radiation dose from ⁴⁰ K in Bangladesh subjects measured with a whole-body counter", Radiation Protection Dosimetry, Vol. 130, 236 (2008) (UK).
166.	A. S. Mollah , "Regulatory control and national policy of inadvertent radioactive sources in scrap metal in Bangladesh", Proc. of the International Conf. on Control and Management of Inadvertent Radioactive Material in Scrap Metal, 23-27 February 2009 (Spain).
167.	A. S. Mollah , "Security of radioactive sources and nuclear materials in Bangladesh", Proc. of the International Conference on Nuclear Security, IAEA-CN-166/3P, 121, 30 March -3 April, 2009, Vienna (Austria).
168.	A. S. Mollah , "Overview of Regulatory Control for Radioactive Sources and Nuclear Materials for Peaceful Applications of Nuclear Technology", Int. J. of Nuclear Law, Vol. 2(3), 175 (2009) (France).
169.	A. S. Mollah and S.R. Chakraborty, "Radioactivity and radiation levels in and around the proposed nuclear plant site at Rooppur", Japanese Journal of Health Physics, Vol. 44(4), 408 (2009) (Japan).
170.	A.S. Mollah , "An overview for achieving public understanding and acceptance of nuclear power: Bangladesh perspective", Proceedings of the 18 th International Conference on Nuclear Engineering – 2010, ICON EI 8-29781, Vol. 2, 381 (ASME, USA).
171.	A. S. Mollah , A.H.M. R. Quddus, and M. A. Zaman, "Calculation of Patient-Specific Internal Radiation Doses Due to ¹³¹ I by Using IRDA Software", Proc. Of the International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering (M&C 2011) Rio de Janeiro, RJ, Brazil, May 8-12, 2011, on-line publication, Latin American Section (LAS) / American Nuclear Society (ANS)[ISBN 978-85-63688-00-2].
172.	A. S. Mollah and S. M. Muraduzzaman, "Calculation of shielding and radiation doses for pet/ct nuclear medicine facility", Proc. Of the International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering (M&C 2011) Rio de Janeiro, RJ, Brazil, May 8-12, 2011, on-line publication, Latin American Section (LAS) / American Nuclear Society (ANS)[ISBN 978-85-63688-00-2].
173.	A. S. Mollah , "Regulations, Policies and Strategies for LLRW Management in Bangladesh", Proc. of the WM2012 Conference, Vol. 4 of 7, p. 2935 (ISBN: 978-1-62276-308-5), February 26 – March 1, 2012, Phoenix, AZ (USA).

174.	A. S. Mollah , Aleya Begum and D. Pal, "Planning, management and organizational aspects of the decommissioning of nuclear facilities in Bangladesh", IAEA TEC-DOC-1702, 13 (2013)(Austria).
175.	A.K.M. F. Hoque, M. S. Hossain, A. S. Mollah and M. A. Zamman, "A study on power density due to non-ionizing radiation from wireless/telecommunication in Bangladesh", Int. Journal of Computing, Vol. 3 (1), 1 (2013) (India).
176.	A.K.M. F. Hoque, M. S. Hossain, A. S. Mollah and M. A. Zamman, "A study on specific absorption rate (SAR) due to non-ionizing radiation from wireless/telecommunication in Bangladesh", American Jour. of Physics and Applications, V. 1(3), 104 (2013) (USA).
177.	A. S. Mollah , ""Safety and security of radioactive sources in industrial radiography in Bangladesh", Paper accepted for publication in the WM14 Conference, March 1-5, 2014, Phoenix, AZ (USA).
178.	A. S. Mollah and M. Begum, "Development of diagnostic reference level (DRL) from patient doses for conventional radiology procedures in Bangladesh", Paper accepted for presentation in the 34th National Conference of Association of Medical Physicists of India, 13-16 November 2013, Kolkata (India).
179.	M. Abu-Jarad and A. S. Mollah , "Radiation safety awareness program for radiation workers and public at large in industrial radiography practices", Paper accepted for presentation in the Safety Awareness Campaign by ARAMCO, 2013 (KSA).
180.	A.S. Mollah , "Distribution coefficient of Cs-137, Sr-90 and Co-60 in soils:statistical analysis on effects of soil properties", Paper presented in the 7 th Int. Conference on the Chemistry and Migration behavior of Actanides and Fission Products in the Geosphere, MIGRATION'99, Sept. 26-October 1, 1999 (USA) (Abstract published).
181.	A.S. Mollah , "Regulatory control and safety of radiation and radioactive sources in Bangladesh", Paper presented in the IAEA conference, IAEA-CN-86/60, 2007 (Austria) (Abstract published).
182.	A.S. Mollah , "Transport of radioactive material in Bangladesh: A regulatory perspective", Paper presented in the Int. Conference on the Packaging and Transportation of Radioactive Materials (PATRAM2004), Sept. 20-24, 2004 (UK) (Abstract published).
183.	A.S. Mollah , "Radiological threat reduction program efforts: six years of collaboration experience between USDOE and BAEC", Paper presented in the Fifty-first Annual Meeting of INMM, July 11-15, 2010 (USA) (Abstract published)
184.	A.S. Mollah , "Strengthening of organizational infrastructure for meeting IAEA nuclear safeguards obligations: Bangladesh perspective", Paper presented in the IAEA conference, IAEA-CN-184/003, 2010 (Austria) (Abstract published).
185.	A. S. Mollah , "Analysis of fission products in air samples due to nuclear explosion source", Paper presented in the Int. Conf. on Science and Technology of CTBTO, 8-10 June 2011, Vienna (Austria) (Abstract published).
186.	HossainSahadath, Abdus Sattar Mollah , Khorshed Ahmad Kabir and Md. Fazlul Huq, Calculation of the different shielding properties of locally developed ilmenite-magnetite (I-M) concrete, Radioprotection 50(3), 203-207 (2015)(France).
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190.	J. Sied, M. A. Hossain, A. Z. M. Salahuddin, A. S. Mollah and S. H. Khan, Assessment of Economic Feasibility of Nuclear Option for Newcomer Countries Using INPRO Methodology, <i>International Journal of Scientific & Engineering Research</i> , Volume 7, Issue 5, May-2016, p-156 .
191.	A.Z.M. Salahuddin, Altab Hossain, R. A. Khan, M.S. Akbar and A. S. Mollah , An Intelligent Approach for Nuclear Security Measures on Nuclear Materials: Demands and Needs, Proc. of the IAEA Conference, 2016..
192.	A. S. Mollah , SabihaSattar, M. Altab Hossain, M. H. Jahangir and, A.Z. M. Salahuddin, Analysis of the Institutional Framework for Radioactive Waste Management inBangladesh, <i>Journal of Nuclear Sciences</i> , Vol. 3(2), 35, 2016.
193.	MeherunNahar, Md. SazzadHossain, Abdus Sattar Mollah , and Mir Md. Akramuzzamsan, A preliminary study of percentage breast glandularity of Bangladeshi women from mammography data, <i>Journal of Medical Physics and Biophysics</i> , Vol. 3, No. 1, 56, December 2016
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195.	F. Ahmed, N. Ara, V. Deshpande, A. S. Mollah , B. Almutairi, C. Goodwin, D. Kumar and S B. Alam. "CFD analyses of nanofluid coolant in a standard PWR subchannel" Proc. Of the International Congress on Advances in Nuclear Power Plants (ICAPP-2019), France, 12-15 May, 2019.
196.	F. Ahmed, N R Remon, A K Monisha, and A. S. Mollah , "Deterministic Analysis of Burnup Benchmark and Isotopic Prediction in Spent Fuel Pool of a PWR Pincell Using WIMSD5b Transport Lattice Code ", 2nd International Conference on Innovation in Engineering and Technology (ICIET 2019), Dhaka, Bangladesh, 23 - 24 December, 2019.
197.	Islam, Sazirul, Mahmoud, K. A., Sayyed, M. I., Alim, Bünyamin, Rahman, Md. M., A. S. Mollah , Study on the radiation attenuation properties of locally available bees-wax as a tissue equivalent bolus material in radiotherapy, <i>Radiation Physics and Chemistry</i> , Volume 172, article id. 108559, 2020.
198.	F Ahmed, N Ara, V Deshpande, AS Mollah , PK Bhowmik, CFD validation with optimized mesh using benchmarking data of pebble bed high-temperature reactor, <i>Progress in Nuclear Energy</i> , Vol. 134, 103653, 2021.

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1103.	Borhan, Ridhita, Hossain, Hasibul and Mollah, A. Sattar , Conceptual design and gamma ray shielding analysis of a spent fuel transportation cask for TRIGA Mark II research reactor, <i>Proceedings of the European Nuclear Young Generation Forum, ENYGF'21</i> , September 27-30, 2021, Tarragona, Spain.
1104.	Shamsun Nahar Raka, Abdus Sattar Mollah , and Jannatul Ferdous, Measurement of Internal Dosimetry for Occupational Radiation Workers of I-131 Using Biokinetic Model, <i>Proc. of the (paper selected as Young Participant Award US\$500) the 20th Annual General Meeting of the Asian Regional Cooperative Council for Nuclear Medicine, 2021.11.01 ~ 2021.11.03, Virtual meeting, 2021, Korea.</i>
1105.	Md. Sifatul Mukhtadit, D. Datta and A. S. Mollah , Probabilistic Fracture Mechanics Analysis of the Bellline of A PWR Nuclear Power Plant Pressure Vessel, <i>Proc. of the 2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI), IEEE Xplore</i> : 08 September 2021, DOI: 10.1109/ACMI53878.2021.9528105.
1106	A. S. Mollah , A. Begum, S. M. Ullah and Z. H. Khan, Studies on radionuclide transfer from soil to the food chain of man in tropical environment of Bangladesh, <i>IAEA-TECDOC-1979 (SUPPLEMENTARY FILES)</i> , pp 47-49, IAEA, Vienna, September 2021.
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D25.	A. S. Mollah, "Regulatory control of radiotherapy practices in Bangladesh", Paper presented at the 3 rd National Convention of Bangladesh Society of Radiation Oncologists, Dhaka, January 25, 2002.
D26.	A. S. Mollah, "Regulatory control activities in Bangladesh", Paper presented in the Workshop on Radiation Safety: Review of BAEC Activities and Future Plan, 8-10 August 2003, RTML, Chittagong.
D27.	A. S. Mollah, "Establishment of regulatory infrastructure in Bangladesh", Paper presented paper in the National Training Workshop on Planning, Selection and Design of IAEA TC Project, 26-28 August 2003, BAEC, Dhaka.
D28.	A. S. Mollah, "National legislation system on radiation safety", Paper presented in the BAEC-MEXT Technical Meeting, 27 November- 2 December 2004, BAEC, Dhaka.
D29.	D. Paul, A.S. Mollah, R. Samina, S. Akhter, M. Nehar, M. Kabir, M. Haider, M. Ferdows and R. Kabir, "Regulatory survey of radiotherapy practices", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D30.	M. Haider, A.S. Mollah, R. Samina, S. Akhter, D. Paul, M. Nehar, M. Kabir, M. Ferdows, A. Hosain and R. Kabir, "Regulatory survey of nuclear medicine practices", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D31.	M. Nehar, A.S. Mollah, R. Samina, S. Akhter, D. Paul, M. Kabir, M. Haider, M. Ferdows and R. Kabir, "Regulatory survey of x-ray facilities practices", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D32.	KH Hoever, GU Ahmad and A.S. Mollah, "Cooperation between BMPA and DGMP- 8 years experience", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D33.	A. S. Mollah, "Regulatory control activities in Bangladesh", Paper presented in the 2 nd Workshop on Radiation Safety: Review of BAEC Activities and Future Plan, RTML, Chittagong, 24-25 August 2005.
D34.	A. S. Mollah, K. Rahman and M. M. Rahman, Analysis of Radionuclides in Some Soil Samples from Shallow Land Disposal Site of Contaminated Milk Powder at AERE, Poster presented at the Radiation Safety Seminar, AECD, BAEC, Dhaka (4-5 Feb 2005).

D35.	<u>A. S. Mollah</u> , "Regulatory control system on emergency response", Paper presented in the BAEC-MEXT meeting on Emergency Response, Dhaka, 5-8 February, 2006.
D36.	<u>A. S. Mollah</u> , "Regulatory infrastructure for nuclear power plant (NPP)", Paper presented in the BAEC-IAEA meeting on Common Users Criteria for NPP, Dhaka, August 17-21 August 2007.
D37.	<u>A. S. Mollah</u> , "Regulatory requirements for implementation of nuclear power plant (NPP)", Paper presented in the BAEC-MEXT meeting on Implementation phase for NPP, Dhaka, 17-21 March 2008.
D38.	<u>A. S. Mollah</u> , "Radiation protection and regulatory requirements for nuclear medicine practices", Paper presented in the 13 th National Conference of Society of Nuclear Medicine of Bangladesh, Khulna, 21-23 February 2008.
D39.	<u>A. S. Mollah</u> , "Radiation protection and regulatory requirements for nuclear medicine practices", Paper presented in the 13 th National Conference of Society of Nuclear Medicine of Bangladesh, Khulna, 21-23 February 2008.
D40.	<u>A. S. Mollah</u> , "Assessment of nuclear medicine capabilities in responding to a nuclear/radiological emergency", Paper presented in the 15 th National Conference of Society of Nuclear Medicine of Bangladesh, Bogra, 5-6 March 2010.
D41.	A.H.M.R. Quddus, S. M. Iqbal, M. A. Zaman and <u>A. S. Mollah</u> , "Calculation of internal radiation doses in nuclear medicine practices by using locally developed IRDA software", Paper presented in the 15 th National Conference of Society of Nuclear Medicine of Bangladesh, Bogra, 5-6 March 2010.
D42.	<u>A. S. Mollah</u> , S. M. Iqbal and A.H.M.R. Quddus, "RIDA-A software package for internal radioactivity and radiation dose assessment in nuclear medicine practices", Paper presented in the 16 th National Conference of Society of Nuclear Medicine of Bangladesh, Dhaka, 17-18 December 2010.
D43.	<u>A.K.M.F. Haque</u> , <u>A. S. Mollah</u> , M.A. Zaman and SM Hossain, "Calculation of SAR due to non-ionizing radiation from mobile phone", Paper presented in the National Conference of Physical Society, Dhaka, 10-11 February 2011.
D44.	<u>A. S. Mollah</u> , "Lessons from radiation accident in radiotherapy practices", Paper presented in the Regional conference on medical physics, Bangladesh Medical Physics Association, Dhaka, 18 February 2011.
D45.	S. M. Yeasmin, <u>A. S. Mollah</u> , and N. Zaman "Radiation protection management in several X-ray installations", Paper presented in the Regional conference on medical physics, Bangladesh Medical Physics Association, Dhaka, 18 February 2011.
D46.	<u>A. S. Mollah</u> and Iqbal M., "NMPP software for calculation of radiation doses for release of patients administered 19radio isotope", Paper presented at the 17 th National Conference of SNM, Chittagong, March 2012.
D47.	Participated and presented an invited talk on "Accident analysis in radiotherapy practices" in the International Conference on Physics in Medicine and Clinical Neuroelectrophysiology (PMCN-2015), 19-20 February, 2015.
D48.	Participated and presented a paper on "Dosimetric characteristics of flattened photon beams of two elekta linear accelerators" in the 20 th Annual Conference of Society of Nuclear Medicine Bangladesh, Dhaka, 18-19 March 2015.
D49.	Participated and presented a paper on "Roles of nuclear medicine professionals in case of nuclear or radiological emergency in Bangladesh" in the 21 st Annual Conference of Society of Nuclear Medicine Bangladesh, Barisal, 19-21 February 2016.
D50.	Participated and presented an invited talk on "Application of radiobiological modeling in radiation therapy for treatment plan evaluation and optimization" in the International Conference on Physics in Medicine and Clinical Neuroelectrophysiology (PMCN-2017), 10-11 March, 2017.
D51.	Participated and presented a paper on "Use of Iradioactive sources in medical facilities: Analysis of radiation protection, safety and security issues" in the 22 nd Annual Conference of Society of Nuclear Medicine Bangladesh, Gazipur, 24-25 February 2017.
D52.	A. Rahman, M. M. Rahman, A. S. Mollah, N. Jahan and M. Q. Huda, Assessment of the radiological consequences of radionuclide releases from TRIGA Mark-II research reactor, Paper presented at the CUET Conf. on Sustainable Energy, Chittagong, Nov. 17-18 Nov 2017.
D53.	Atiar Rahman and A. S. Mollah, Benchmarking of IAEA 3D PWR with MSRA SRAC, Paper presented at the CUET Conf. on Sustainable Energy, Chittagong, Nov. 17-18 Nov 2017.
D54.	Fahmida Haque, N. H. Badrun, M. H. Altaf and A. S. Mollah, Limit of inserted reactivity calculation to study safety of TRIGA fuel at different cycles of core burnt, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D55.	Farid Ahmed, VikramDeshpande, NusratAra and A. S. Mollah, Numerical prediction of thermal-hydraulic characteristics of Pebble Bed Modular nuclear reactor, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D56.	A. Rahman, M. M. Rahman, A. S. Mollah , N. Jahan and M. Q. Huda, Atmospheric dispersion modeling for assessment of the radiological consequences of radionuclide releases in a research reactor accident scenario, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D57.	F. Zaheen, S. A. Ananna, JerinTasmin and A. S. Mollah , Development of high density concrete using locally available different aggregates for gamma-ray shielding, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D58.	FahmidaHaque and A. S. Mollah , Modeling and simulation of reactor point kinetic equations in training nuclear science and engineering students, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018 (Awarded for Best Poster).

D59.	Shamsun Nahar Raka, Sunjida Jahan, Shanjida Akte and A. S. Mollah , Assessment of internal radiation doses for occupational workers from inhalation of ¹³¹ I by using MONDAL-3 software, 24th National Conference of Society of Nuclear Medicine, Bangladesh, Bangladesh J. Nucl. Med. Vol. 22 No. 1, p.84, January 2019.
D60.	A.S.M. Nasim, G.R. Rahman, A. Erfan and A. S. Mollah , Study on processing and validation of ENDF/B-VIII nuclear data library for criticality benchmark of PWR pin cells using NJOY21 and OpenMC, Paper presented at the 3 rd Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D61.	G.R. Rahman, A.S.M. Nasim, A. Erfan and A. S. Mollah , Verification of Monte Carlo code OpenMC using VVER-1200 MOX fuel assembly against criticality benchmark data, Paper presented at the 3 rd Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D62.	R. B. Borhan, H. R. Rasheeq, M. Arefin and A. S. Mollah , Simulation of dynamic behavior of Xenon-135 and Sm-149 production using MATLAB code for a typical research reactor, Paper presented at the 3 rd Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D63.	A. Islam, R. Nushrat, T. A. Rahim and A. S. Mollah , Modeling and validation of IAEA 3D PWR Benchmark problem using COMSOL multiphysics code, Paper presented at the 3 rd Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D64.	Muntakim Mahmud Khan, Tanima Sharif, Nahid Farzana Mim, Abdus Sattar Mollah , M Mahfuza Khatun, Calculation of Standardized Uptake Value (SUV) from PET-CT image by using inhouse developed MATLAB software, INTERNATIONAL CONFERENCE ON PHYSICS IN MEDICINE ICPM-2020,Dhaka, Bangladesh, 6-7 February, 2020.
D65.	Fahum Nufikha Jahan, Tasnim Ahmed, Abu Sayed Muhammad Faisal, Abdus Sattar Mollah , M Mahfuza Khatun, Analysis of quality control of Gamma Camera SPECT System by using barPhantom, INTERNATIONAL CONFERENCE ON PHYSICS IN MEDICINE ICPM-2020,Dhaka, Bangladesh, 6-7 February, 2020.
D66.	Md. Nazirul Huda Anik, Mosaddak Ahamed Zahid, Md. Rezwanur Rahman Ony, A. S. Mollah , Generation of cosine shape thermal response for thermal hydraulic test facility (THTF) heated rods by using locally developed induction heating system, Poster Presented at International Conference on Electronics and Informatics 2021, 27-28 November, 2021 at Atomic Energy Centre, Dhaka.
D67.	Mayesha Tahsin and A.S. Mollah , A Study on Performance of Two NaI(Tl) Detectors Using Point Radioactive Sources, Paper presented at International Conference on Electronics and Informatics 2021, 27-28 November, 2021 at Atomic Energy Centre, Dhaka.
D68.	Shamsul Arefin Shibly, Nishat Vasker, and A. S. Mollah , Design and Development of an lot Based Robotic Arm System for Safe Handling of Radioactive Materials, National Conference on Physics – 2023, 9 – 11 March 2023, JN University, Savar.
D69.	M. R. Hasan, M. J. H. Khan and A. S.Mollah , Calculation of Individual Fuel Element Burnup for Identification of Hottest Fuel Element of BAEC TRIGA Research Reactor Using TRIGLAV Code, National Conference on Physics – 2023, 9 – 11 March 2023, JN University, Savar.
D70.	Md. Nazirul Huda Anik, Md. Naib Hasan, Md. Rajin Rahman and A S Mollah , Fuel Composition Optimization of Molten Salt Reactor (MSR) Using Openmc Monte Carlo Code, National Conference on Physics – 2023, 9 – 11 March 2023, JN University, Savar.
D71.	Roshlan Rahman Dipto, Safius Sakib Shuddho, Aqueeb Anjum Sunny and Abdus Sattar Mollah , Analysis of Neutronics Parameters of Different Annular Fuel using Monte Carlo Code OpenMC Utilizing JEFF-3.3 and ENDF/B-VIII.0 Nuclear Data Libraries, 1 st Energy Conference, 14-15 December 2023, BUET, Dhaka.
D72.	Roshlan Rahman Dipto and A. S. Mollah , Validation of Gamma Radiation Attenuation Parameters in locally developed Shielding Material by Using Geant4 Monte-Carlo Code (Abstract ID 006), 1st National Research Conclave 2024, MIST, Dhaka.
D73.	M. Rahman and A. S. Mollah , Investigation of Radiation Properties in a PWR-Based VVER Reactor Fuel Assembly Using GEANT4 and EpiXS: Analysis of Chromium-Coated Zirconium Alloy (E110) and Silicon Carbide (SiC) as Cladding Materials (Abstract ID 026). 1st National Research Conclave 2024, 1 st October, 2024 (Awarded for best poster).
D74.	SUK Sadia, MT Khan, and A. S. Mollah, Neutronic analysis of benchmark for valuation and validation of reactor (BEAVRS) pressurized water reactor core using OpenMC, Paper presented at the the BPS National Conference on Physics, 6-7 February, 2025, Rajshahi, Bangladesh.
D76.	MT Khan, SUK Sadia, and A. S. Mollah, Design analysis of European Sodium-cooled fast reactor oxide core (MOX-3600) using OpenMC, Paper presented at the the BPS National Conference on Physics, 6-7 February, 2025, Rajshahi, Bangladesh.

E. Thesis Works

E1.	<u>A. S. Mollah</u> , "Energy levels in ²⁰ F from (³ He, p) reaction in ¹⁸ O at 18 MeV", M. Sc. Thesis, Department of Physics, University of Dhaka, Dhaka (1979).
E2.	<u>A. S. Mollah</u> , "An investigation on the attenuation of neutrons and gamma-rays in reactor biological concrete shield", M. Phil. Thesis, Department of Physics, Bangladesh University of Engineering and Technology (BUET), Dhaka (1987).
E3.	<u>A. S. Mollah</u> , "Dosimetric properties of some commercially available and laboratory made TLDs for radiation dosimetry", a report submitted in partial fulfilment for the Ph. D. Comprehensive Examination, Department of Physics, BUET, Dhaka(1995).
E4.	<u>A. S. Mollah</u> , "Dose measurements in neutron-gamma mixed radiation field with thermoluminescence dosimeters", Ph. D. Thesis, Department of Physics, BUET, Dhaka (1996).

F. Research Abstracts Published (International)

F1.	R. Amin, M. M. Rahman, <u>A. S. Mollah</u> , A. H. Chowdhury, A. Koddus and M. A. Malek, "Design, development and evaluation of high radiation measurement dosimeter from locally available perspex", IAEA-Health Physics Research Abstracts, <u>Vol. 13</u> , 15 (1987)(Austria).
F2.	<u>A. S. Mollah</u> , M. M. Rahman and S. R. Husain, "Environmental radioactivity monitoring around the 3 MW TRIGA Mark II research reactor", IAEA-Health Physics Research Abstracts, <u>Vol. 13</u> , 116 (1987)(Austria).
F3.	S.R. Husain, M. M. Rahman, <u>A. S. Mollah</u> , A. Koddus, A. Malek, M. A. R. Molla, F. K. Miah and A. Jalil, "Establishment of secondary standard dosimetry laboratory (SSDL) in Bangladesh", IAEA-Health Physics Research Abstracts, <u>Vol. 13</u> , 15 (1987)(Austria).
F4.	<u>A. S. Mollah</u> , M. M. Rahman, S. Islam, H. Rahman and S. R. Husain, "Sorption of some radionuclides on soil", IAEA-Waste Management Research Abstracts, <u>Vol. 18</u> , 7 (1987)(Austria).
F5.	M. M. Rahman, <u>A. S. Mollah</u> , S. R. Husain, S. Islam, M. Rahman and A. Husain, "Studies of soil characteristics from representative shallow land trenches for disposal of radioactive wastes in hot and humid climate", IAEA- Waste Management Research Abstracts, <u>Vol. 18</u> , 8 (1987)(Austria).
F6.	<u>A. S. Mollah</u> and M. M. Rahman, "Characteristics of direct reading pocket dosimeters", IAEA-Health Physics Research Abstracts, <u>Vol. 14</u> , 17 (1989)(Austria).
F7.	<u>A. S. Mollah</u> and M. M. Rahman, "Doses to the public from building materials and evaluation of radon concentration in dwelling in Bangladesh", IAEA-Health Physics Research Abstracts, <u>Vol. 14</u> , 124 (1989)(Austria).
F8.	<u>A. S. Mollah</u> and M. M. Rahman, "The influence of climatic parameters of external background radiation level in Bangladesh", IAEA-Health Physics Research Abstracts, <u>Vol. 14</u> , 221 (1989)(Austria).
F9.	<u>A. S. Mollah</u> , M. M. Rahman, F. Elahi, S. Islam, H. Rahman and S. R. Husain, "Studies on sorption/desorption of selected radionuclides using various soil matrice", IAEA-Waste Management Research Abstracts, <u>Vol. 19</u> , 124 (1988)(Austria).
F10.	M. M. Rahman, H. M. M. Khan, <u>A. S. Mollah</u> , A. Koddus and S. Roy, "Demonstration experiments for shallow land disposal of radioactivity contaminated skimmed milk powder and allied products", IAEA-Waste Management Research Abstracts, <u>Vol. 20</u> , 103(1990)(Austria).
F11.	M. M. Rahman, A. Koddus, <u>A. S. Mollah</u> , S. Roy and K Alam, "Inventory of radioactive wastes generated from 3 MW TRIGA Mark-II research reactor at AERE, Savar, Bangladesh", IAEA-Waste Management Research Abstract, <u>Vol. 21</u> , 174 (1992)(Austria).
F12.	<u>A. S. Mollah</u> , G. U. Ahmad and N. Vana, "Dose measurements in neutron-gamma mixed radiation field with thermoluminescence dosimeters (TLDs)", IAEA-Radiation Safety Research Abstracts, <u>Vol. 1</u> , 2(1995)(Austria).

G. Supervision of M. Sc. Thesis Works

G1.	A study on neutron and gamma mixed field by LiFthermoluminescence dosimeter, Roll No. Phy. 464, Session: 1987-88, 1991, JU (Supervisors: Prof. A. Yunus and Dr. A. S. Mollah).
G2.	Extraction of pure thermal neutron beam for a prompt gamma neutron activation analysis facility at a radial beam port of TRIGA research reactor of AERE, Savar, Roll No. 465, Session: 1989-90, 1992, JU (Supervisors: Prof. M. A. Zama, Dr. M. H. Ahsan and Dr. A. S. Mollah).
G3.	A study on neutron and gamma mixed field dosimetry at the neutron radiography facility at 3MW TRIGA Mark-II reactor, 1994, Roll No. Phy. 273, Session: 1990-91, JU (Supervisors: Prof. AfroziYonus and Dr. A. S. Mollah).
G4.	A study on dosimetric properties of LiF (TLD-100) thermoluminescence dosimeter, Roll No. Phy.205, Session:1991-1992, 1995, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G5.	Standardization of high radiation dosimetry systems in radiation processing, Roll No. Phy.204, Session: 1991-92, 1995, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G6.	Measurements of environmental gamma radiation by thermoluminescencedosimetry in and around the JahangirnagarUniversity campus, Bangladesh, Roll No. Phy.197, Session: 1991-92, 1995, JU (Supervisors: Prof. AfroziYonus and Dr. A. S. Mollah).
G7.	An assessment of radiation exposure level around some diagnostic X-ray installations in Savar, Manikgonj and Dhamrai region, Roll No. Phy.230, Session: 1992-93, 1996, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G8.	Influence of soil properties on the transfer factor of Cs-137 in wheat plants, Roll No. 8315, Session: 1991-92, 1996, DU (Supervisors: Prof. S.M. Ullah and Dr. A. S. Mollah).
G9.	Transfer of Cs-137 from soil to vegetable crops in Bangladesh, Roll No. 8309, Session: 1991-92, 1996, DU (Supervisors: Prof. I.U. Ahmed, Prof. S.M. Ullah and Dr. A. S. Mollah).
G10.	An assessment of medical exposure and radiation protection aspects for different diagnostic x-ray procedures, Roll No. Phy.66, Session: 1993-1994, 1997, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G11.	A study on dosimetric properties of Harshaw personnel monitoring TLD badge for implementation of ICRU new operational quantities, Roll No. Phy.68, Session: 1992-1993, 1997, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G12.	Radioactivity in underground and commercial mineral drinking water in Dhaka city, Roll No. 58, Session:1993-94, 1997, JU (Supervisors: Prof. DilderHossain and Dr. A. S. Mollah).
G13.	Gamma spectrometric analysis of natural radioactivity in ground water, Roll No. 6905, Session: 1993-94, 1997, DU(Supervisors: Prof. A. H. Khan and Dr. A. S. Mollah).
G14.	Measurements of radioactivity in books, Roll No. Phy.915, Session: 1994-95, 1998, JU (Supervisors: Prof. Mir. Md. Akramuzzaman, and Dr. A. S. Mollah).
G15.	A study on dose distribution in the core of 3 MW TRIGA Mark-II research reactor, AERE, Savar, Dhaka, Roll No. Phy.96339, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G16.	Assessment of radioactivity and absorbed doses of human body by a whole-body counter, Roll No. Phy.96330, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).

G17.	A study on shielding effectiveness of some radiation facilities, Roll No. Phy.96333, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G18.	A study of response of gamma radiation on some radiation measuring instruments, Roll No. Phy.96327, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G19.	Measurements of radioactivity in total diet and estimation of resulting doses to population at large, Roll No. Phy. 96324, Session: 1995-96, 1999, JU (Supervisors: Prof. DliderHossain ,Aleya Begum and Dr. A. S. Mollah).
G20.	Measurements of radioactivity in soils around the research reactor at AERE, Savar, Roll No. Phy. 96340, Session: 1995-96, 1999, JU (Supervisors: Prof. DliderHossain, Aleya Begum and Dr. A. S. Mollah).
G21.	A study on the radiation protection aspects in the Sylhet Nuclear Medicine Center, Roll No. PSM008/97, Session: 1996-97, 1999, SUST (Supervisors: Mr. Delwar Hossain and Dr. A. S. Mollah).
G22.	An assessment of radiation exposure level around some diagnostic x-ray installations in sylhet city, roll no. Psm010/97, session: 1996-97, 1999, sust (supervisors: Mr. Delwar hossain and dr. A. S. Mollah).
G23.	Optimization of shielding thickness for radiation facilities, Roll No. Phy.970063, Session:1996-97, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G24.	Radiation dose measurements in different high rise buildings, Roll No. Phy.970067, Session: 1996-97, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G25.	Evaluation of radiation doses in mammography in Bangladesh, Roll No. Phy.970061, Session: 1996-97, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G26.	Shielding design and safety evaluation for linear accelerator and brachytherapy facilities using computer codes, Roll No. Phy.980029, Session: 1997-98, 2001, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G27.	Assessment of glandular radiation dose in mammography practices, Roll No. Phy.913456, Session: 2002-2003, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
G28.	Calculation of gamma-ray attenuation of IM concrete, Roll No. SH5782 session 2013-2014, DU (Supervisors: Prof. M. K. Kabir and Dr. A. S. Mollah).
G29.	Calculation of gamma-ray attenuation of poly-boron, Roll No. FH7865 session 2013-2014, DU (Supervisors: Prof. M. K. Kabir and Dr. A. S. Mollah).
G30.	Study on gamma ray attenuation of locally developed bees wax bolus, Roll No. 1012, Session 2016-2017, KYAU (Supervisors: Prof. Dr. A. S. Mollah and M. I Sayyed), Dec 2018.
G31.	Study on shielding attenuation of X-ray for different X-ray facilities, Roll No. 1011, Session 2016-2017, KYAU (Supervisors: Prof. Dr. A. S. Mollah and Md. M. Rahman), Dec 2018.
G32.	Ultrasound image quality analysis by using ImageJ software, Roll No. 1009, Session 2016-2017, KYAU (Supervisors: Prof. Dr. A. S. Mollah and Md. M. Rahman), Dec 2018.
G33.	Analysis of PMF of VVER based RPV (Co-supervisor)-Completed, 2021, MIST.
G34.	Analysis of neutronics safety parameters and core burnup life time of BAEC TRIGA Mark-II research reactor using deterministic TRIGAP and TRIGALAV codes (Co-supervisor)-Completed, 2023, MIST

H. Supervision of M. Phil. Thesis Works

H1.	Neutron flux measurement by activation method and study of neutrons and gamma rays attenuation properties of multilayered shields by Md. Abdul Matin, 1990, BUET (Supervisors: Prof. G.U. Ahmad, M.A. Rahman and Dr. A. S. Mollah).
H2.	Development of high radiation dosimeters using locally available materials for industrial radiation processing by Md. Delwar Hossain, December 1998, Roll No. Phy.3, Session: 1995, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
H3.	Effect of dose of some ionizing radiation on cancer patients by Md. Nurul Amin, December 1999, Roll No. Phy.340 Session:1995-1996, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
H4.	A study of radioactivity and radiation levels in Bangladesh for assessment of population exposure by Shyamal Ranjan Chakraborty, March 1999, BUET (Supervisors: Prof. G. U. Ahmad and Dr. A. S. Mollah).
H5.	The determination of organ doses of diagnostic and therapeutic patients by Md. MotiurRahman, Roll No. Phy.345, Session: 1995-1996, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
H6.	Evaluation of the population exposure from X-ray uses in medical field by Manash Kanti Biswas, May 2000, BUET(Supervisors: Prof. G. U. Ahmad and Dr. A. S. Mollah).
H7.	Radiation protection management in several x-ray installations of Narayanganj by Ms. Sultana Mahmuda Yeasmin, Roll No. 9514020F, Session 1994-95-96, 2004, BUET (Supervisors: Prof. Nazma Zaman and Dr. A. S. Mollah).
H8.	Quality assurance and radiation safety assessment of diagnostic X-ray unit by Mahfuza Begum, October 2006, BUET (Supervisors: Prof. M. Hoque and Dr. A. S. Mollah).

I. Supervision of BSc (Nucl. Sci. & Engg.) Project Works

I1.	Thermal hydraulics analysis of pebble bed modular reactor by using ANSYS (2017).
I2.	Development of low cost gamma-ray shielding materials from locally available materials (2017).
I3.	Development of a Computer Program Based on Analytical Method for SMR Core Design Calculations (2018).
I4.	Modeling and Validation of IAEA 3D PWR Benchmark Problem Using Comsol Multiphysics (2019).
I5.	Simulation of dynamic behavior of Xe-135 and Sm-149 production using MATLAB Code for a typical research reactor (2019).

I6.	Nuclear Fuel Depletion Analysis Using MATLAB Software (2020).
I7.	Computational benchmark analysis of VVER-1000 assemblies with LEU by using OpenMC code (2020).
I8.	Shielding Design for High Radioactive Source (2020).
I9.	Generation of cosine shape thermal response for thermal hydraulic test facility (THTF) heated rods by using locally developed induction heating system (2021).
I10.	Development of a robotic system for handling of radioactive materials (2021).
I11.	Development of heat transfer system for spent fuel pool (2022).

J. Supervision of BSc (Nucl. Sci. & Engg.) Thesis Works

J1.	Use of biokinetic model for calculation of internal radiation doses for occupational worker (December 2018).
J2.	A PWR pin cell burnup benchmark analysis using WIMSD5 transport lattice code (December 2018).
J3.	Studies on gamma-ray & neutrons attenuation properties of locally developed concrete as radiation shielding material (December 2018).
J4.	Calculation of Standardized Uptake Value (SUV) from PET-CT image by using inhouse developed MATLAB software (2019).
J5.	Analysis of quality control of Gamma Camera SPECT System by locally developed using barPhantom (2019).
J6.	Steady-State Thermal-Hydraulic Analysis of a Small Modular Pressurized Water Reactor (2019).
J7.	Nuclear Data Processing and Neutronics Analysis of Nuclear Reactors Using OPENMC and NJOY21 Codes (2019) (Awarded best student thesis).
J8.	Calculation of Core Design Parameters For Small Modular Reactor (SMR) Using In-House Developed Computer Program (2019).
J9.	Calculation Of Gamma Ray Dose Rate By GEANT4 Software and Thermal Analysis by ANSYS Software Through the Multilayer Shielding of a Generic VVER-1200 (2020).
J10.	A comparative Study on PWR Based VERA Depletion Benchmark Problems With OPENMC, OPENMC-ONIX AND DRAGON Codes (2020).
J11.	Conceptual Design and Gamma Ray Shielding Analysis of a Spent Fuel Transportation Cask for TRIGA MARK II Research Reactor (2020).
J12.	Thermal analysis of spent fuel dry storage cask by using Ansys software (2021)
J13.	Computational benchmark analysis of VVER-1000 MOX core by using OpenMC code (2021).
J14.	Conceptual Design and Shielding Analysis of a Radioactive Waste Storage Container by using GEANT4 Software (2021).
J15.	CFD analysis of triangular sub-channels of TRIGA Mark-II research reactor (2021)
J16.	Neutronic analysis of low enriched uranium salt composition proposed for molten salt reactor using OPENMC monte carlo method (2022).
J17.	Thermal hydraulic analysis of different sub-channels of generic VVER1200 reactor with Al ₂ O ₃ -water based nanofluid (2022).
J18.	Neutronic analysis of VVER-1200 reactor by using OpenMC code (2023)
J19.	Heat transfer analysis for counter flow heat exchanger (2023)
J20.	Modeling and neutronic simulation of modular very high temperature gas cooled reactor, 2024 (on going).
J21.	Modeling and neutronic simulation of lead cooled reactor, 2024 (on going).
J22.	Modeling and CFD simulation of Fuel rods and RPV, 2024 (on going).

K. Supervision of Ph. D. Thesis

K1.	A study on biological shield design and analysis of radiation doses for a nuclear power reactor by Md. Sazzad Hossain, JNU, Savar, May 2005 (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
K2.	Assessment of health hazard and exposure limits due to non-ionizing radiation from wireless/telecommunication in Bangladesh by AKM Fazlul Haque, JNU, Savar, March 2008 (Supervisors: Prof. M. A. Zaman and Dr. A. S. Mollah).
K3.	Assessment of radiological dose arising due to a hypothetical accident of a research reactor by using indigenously developed computer code by Md. Moksed Ali, JNU, Savar, February 2010 (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
K4.	Assessment of internal radiation doses due to intake of radionuclides by ingestion in human body by A.H.M. Ruhul Koddus, JNU, Savar, April 2010 (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
K5.	Assessment of radiological health hazard due to severe accident of nuclear power reactor by Md. Moniruzzaman, JNU, Savar, July 2011 (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
K6.	Calculation of radiation dose from intake of radionuclides by Sayed Mohammad Iqbal, National University, Gazipur, Dhaka, July 2011 (Supervisor: Dr. A. S. Mollah).

K7	Calculation of MGD and breast densities for Bangladehi women by Ms. Meherun Nahar, JN University, Savar (Thesis submitted in June 2014 (Supervisors: Prof. Mir. Md. Akramuzzaman and Dr. A. S. Mollah).
L. WHO-BAEC Regulatory Guides	
L1.	Regulatory Guide (RG) on Quality Assurance for Diagnostic X-ray Facilities, NSRC-XR-G03, 2005 (ISBN 984-32-2622-4).
L2.	RG on Radiation Protection in Radioactive Waste Management Practices, NSRC-WM-G-01, 2005 (ISBN 984-32-2623-2).
L3.	Regulatory Guide on Radiation Protection in Dental X-ray, NSRC-XR-G-02, 2005 (ISBN 984-32-2621-6).
L4.	Regulatory Report on Environmental Impact Assessment on Radioactive Waste Management Situation in Bangladesh, NSRCD-TRS-02, 2005 (ISBN 984-32-2860-X).
L5.	Regulatory Report on A Study on Assessment of Radiation Hazard Due to Use of Ionizing Radiation Sources in Bangladesh, NSRCD-TRS-01, 2005 (ISBN 984-32-2859-6).
L6.	Regulatory Guide on Radiation Protection in Health Facilities, NSRC-RP-G-01, 2007 (ISBN 984-300-000818-5).
M. Book Chapter	
M1	Book name: Radionuclide Contamination and Remediation Through Plants A. S. Mollah, Radionuclide Uptake from Soil to Plants: Influence of Soil Classification, Springer International Publishing Switzerland, 2014 (Chapter 3).
M2.	A. S. Mollah and J. Ferdous, Distribution of radionuclides in soil and their uptake by plants and finally into food, Mechanism of Radionuclide Uptake into Food and Consequences for Humans, World Scientific Publisher, Singapore, 2025 .