

Curriculum Vitae

DR. SADIA AFROZE SULTANA

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SUMMARY

Professor (Grade 1) of Physics at Open School, Bangladesh Open University. Has strong research interest in Nuclear Physics, Open and Distance Learning, Open Schooling, Instructional Design in eLearning, Open Pedagogy, Copyright and Female Education. A regular contributor in national and international journals. Passionate about leveraging knowledge, experience, and skills in wider educational platform.

EXPERIENCE

- Professor (Grade 1), Open School, 2012 – Current
Bangladesh Open University, Gazipur, Bangladesh
- Dean, Open School, 2012 – 2016
Bangladesh Open University, Gazipur, Bangladesh
- Vice Chairperson, 2013
Commonwealth Open Schooling Association (COMOSA)
- Lecturer – Associate Professor, Open School, 1998 – 2012
Bangladesh Open University, Gazipur, Bangladesh

EDUCATION

- Doctor of Engineering (Nuclear Engineering), Department of Applied Quantum Physics and Nuclear Engineering, 2005
Kyushu University, Kyushu, Japan
- Master of Science in Physics, Thesis Group, Department of Physics, 1995 (held in 1998)
Jahangirnagar University, Dhaka, Bangladesh
- Bachelor of Science (Honours) in Physics, Department of Physics, 1994 (held in 1996)
Jahangirnagar University, Dhaka, Bangladesh

CERTIFICATIONS

- CopyrightX, 2023
Harvard Law School, Berkman Klein Center
- Certified Facilitator, 2020
Creative Commons, USA
- Certified Educator, 2018
Creative Commons, USA
- Certificate in Instructional Design in eLearning, 2014 (1 year program)
Open Polytechnic, New Zealand

PUBLICATIONS

ARTICLE – PHYSICS (INTERNATIONAL)

United States

1. “The $^{96}\text{Mo}(p,d)^{95}\text{Mo}$ Reaction at 50 MeV”, Physical Review C, Vol. 70, No. 3, pp. 034612(1) - 034612(15), Sep 2004; with D. Maki, G. Wakabayashi, Y. Uozumi, N. Ikeda, Syafarudin, F. Aramaki, T. Kawaguchi, M. Matoba and H.M. Sen Gupta

United Kingdom

2. “Local Optical Model Studies of Pion-nucleus Scattering”, J. Phys. G: Nucl. Part. Phys. 27, pp. 755-771, 2001; with Md. A. E. Akhter, S. A. Sultana, H. M. Sen Gupta and R. J. Peterson,
3. “A Study of the Inelastic Scattering of Pions from $^{40,42,44,48}\text{Ca}$ and ^{54}Fe ”, J. Phys. G: Nucl. Part. Phys. 28, pp. 223-231, 2002; with H. M. Sen Gupta

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Japan

4. **"Analysis of Continuum Spectra of (n,d) Reactions With Direct Reaction Model"**, Proceeding of The Symposium on Nuclear Data of JAERI-Conf 2004-005, pp.133-137, Nov 27-28, 2003; with Syafarudin, F. Aramaki, D. Maki, G. Wakabayashi, Y. Uozumi, N. Ikeda, M. Matoba, Y. Watanabe, H.M. Sen Gupta
5. **"Continuum Spectra Analysis of (p,d) and (n,d) Reactions on Bi in Several Tens of MeV energy Region"**, Proceeding of The Symposium on Nuclear Data of JAERI-Conf 2005-003, pp. 143-147. Nov 11-12, 2004; with Syafarudin, D. Maki, T. Kin, G. Wakabayashi, Y. Uozumi, N. Ikeda, Y. Watanabe, F. Aramaki, M. Matoba, T. Kawaguchi and H. M. Sen Gupta
6. **"Analysis of Continuum Spectra for Proton Induced Reactions on ^{27}Al , ^{58}Ni , ^{90}Zr , ^{197}Au and ^{209}Bi at 42 and 68 MeV- Direct Reaction Model Analysis"**, Proceeding of the 2005 Symposium on Nuclear Data of JAEA-Conf 2006-009, pp.185-189, Feb 2-3, 2006; with T. Kin, G. Wakabayashi, Y. Uozumi, N. Ikeda, Y. Watanabe and M. Matoba

ARTICLE – PHYSICS (NATIONAL)

7. **"Continuum Spectra in the (n,d) Reaction on ^{209}Bi "**, Journal of Nuclear Science and Applications, Vol.18, No.1, pp. 20-23, Jan-Jun 2009; with D.R.Sarker, G. Wakabayashi, Y. Uozumi, N. Ikeda, and M. Matoba
8. **"Analysis of the $^{197}\text{Au}(p,d)^{196}\text{Au}$ Reaction With Direct Reaction Model"**, Journal of Nuclear Science and Applications, Vol.18, No.1, pp.24-28, Jan-Jun 2009; with D.R.Sarker, G. Wakabayashi, Y. Uozumi, N. Ikeda, Y. Watanabe and M. Matoba
9. **"Analysis of Continuum Spectra for the $^{27}\text{Al}(p,d)^{26}\text{Al}$ reactions At 42 MeV"**, Journal of Nuclear Science and Applications, Vol. 18, No. 2, pp.12-15, Jul-Dec 2009; with D.R.Sarker, G. Wakabayashi, Y. Uozumi, N. Ikeda, Y. Watanabe and M. Matoba
10. **"A Study of Inelastic Scattering of Pions from Nuclei"**, Journal of Nuclear Science and Applications Vol. 18, No. 2, pp.16-23, Jul-Dec 2009; with D.R. Sarkar, A.Begum, Md. A. Rahman and H.M. Sen Gupta
11. **"Analysis of the $^{209}\text{Bi}(n,d)^{208}\text{Pb}$ Reaction with Direct Reaction Model"**, Journal of Nuclear Science and Applications, Vol. 19, No. 2, pp. 27-30, 2010; with G. Wakabayashi, Y. Uozumi, N. Ikeda and M. Matoba
12. **"Pions-nucleus Scattering over the Energy Range 100-800 MeV"**, Journal of Nuclear Science and Applications, Vol.19, pp. 17-26, 2010; with D.R. Sarkar, A. Huda, G. Mostafa, A.Begum, Md. A. Rahman and H.M. Sen Gupta
13. **"Excitation Function of the $^{72}\text{Ge}(n,p)^{72}\text{Ga}$ Reaction"**, Nuclear Science and Applications, Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 7, No. 1,2, pp.29-31, Dec 1998; with S. M. Azharul Islam, S. M. Hossain, S. Basunia, M. A. Hafiz, R. U. Miah, M. Rahman and N. I. Molla,
14. **"Elastic Scattering of Pions from $^3, ^4\text{He}$ "**, Nuclear Science and Applications, Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 9, No. 1, pp. 51-61, Dec 2000; with F. Khanam, D. R. Sarker and H. M. Sen Gupta,
15. **"Local Optical Model Studies of Low Energy Pion-Nucleus Scattering"**, Journal of Bangladesh Academy of Sciences, Vol. 25, No. 2, pp. 107-114, 2001; with H. M. Sen Gupta
16. **"Analysis of Continuum Spectra for $^{64}\text{Ni}(p,d)^{63}\text{Ni}$ reaction at 65 MeV"**, Nuclear Science and Applications, Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 15, No. 1, pp. 1-4, Jan-Jun 2006
17. **"Continuum Spectra in One-nucleon Transfer Reaction - $^{209}\text{Bi}(n,d)^{208}\text{Pb}$ Reaction, $E_p=41.0-53.5$ MeV"**, Nuclear Science and Applications, Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 15, No. 1, pp. 53-57, Jan-Jun 2006
18. **"Analysis of the $^{197}\text{Au}(p,d)^{196}\text{Au}$ reaction at 68 MeV with Direct Reaction Model"**, Nuclear Science and Applications (NSA), Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 25, No. 1 & 2, pp. 17-21, Jun-Dec 2016

19. **"Analysis of Continuum Spectra for the $^{209}\text{Bi}(n,d)^{208}\text{Pb}$ Reaction"**, Nuclear Science and Applications (NSA), Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 25, No. 1 & 2 pp. 13-16, Jun-Dec 2016
20. **"Analysis of Continuum Spectra for the $^{58}\text{Ni}(p,d)^{57}\text{Ni}$ Reaction with Direct Reaction Model"**, Nuclear Science and Applications (NSA), Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 25, No. 1 & 2 pp. 41-44, Jun- Dec 2016; with S.M. Hossain
21. **"Study of $^{27}\text{Al}(p,d)^{26}\text{Al}$ Reaction at 42 MeV"**, Nuclear Science and Applications (NSA), Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 26, No. 1 & 2 pp. 29-32, Jun-Dec 2017; with A. Imtiaz
22. **"Study of the $^{58}\text{Ni}(p,d)^{57}\text{Ni}$ Reaction with Direct Reaction Model"**, Nuclear Science and Applications (NSA), Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, Vol. 26, No. 1 & 2 pp. 45-48, Jun-Dec 2017
23. **"Study of (p,d) reaction on ^{209}Bi at 42 MeV"**, Journal of Bangladesh Academy of Sciences, National Museum of Science and Technology, Agargaon, Dhaka 1207, Bangladesh, Vol. 45, No. 2, pp. 197-203, Dec 2021
24. **"One nucleon pick-up reaction $^{58}\text{Ni}(p,d)^{57}\text{Ni}$ at 68 MeV"**, Journal of Bangladesh Academy of Sciences, National Museum of Science and Technology, Agargaon, Dhaka 1207, Bangladesh, Vol. 46, No. 1, pp. 57-63, Dec 2022

ARTICLE – OPEN AND DISTANCE LEARNING/ OPEN SCHOOLING/ FEMALE EDUCATION (INTERNATIONAL)

25. **"Distance Education and Open Learning in a Developing Country Like Bangladesh: Philosophy and Reality"**, Proceeding of 2nd Pan-Commonwealth Conference, Durban, South Africa, 29 Jul – 2 Aug 2002; with Mostafa Azad Kamal
26. **"Barriers to Development in Open Learning and Distance Education: Bangladesh"**, Proceeding of 2nd Pan-Commonwealth Conference, Durban, South Africa, 29 Jul – 2 Aug 2002; with Mostafa Azad Kamal
27. **"Socio-cultural Aspects of Quality Issues: A case Study of BOU's SSC Programme"**, Pakistan Journal of Distance Education, Vol. XIX, Issue 1, pp. 171-179, 2000; with Monzur-e-Khoda Tarafdar and Mostafa Azad Kamal
28. **"Open and Distance Learning to Empower Rural Women: Bangladesh"**, Proceeding of 3rd Pan - Commonwealth Conference, Dunedin, New Zealand, 4-8 Jul 2004; with Mostafa Azad Kamal
29. **"Female Education through ODL in Rural Bangladesh – Successes, Challenges and Recommendations"**, Proceedings of ICDE Conference 2005. New Delhi, India; with Kamal, M.A.
30. **"Role of ODE in Improving Socio-cultural Condition of Rural Females in Bangladesh: Opportunities, Challenges and Recommendations"**, Proceeding of 19th AAOU Annual Conference, Jakarta, Indonesia, 15-17 Sep 2005; with Mostafa Azad Kamal
31. **"Reaching the unreached through ODL: How it contributes to female empowerment in Bangladesh?"**, 6th Pan-Commonwealth Conference, Kochi, India, 2010; with M. A. Kamal ([Reaching the unreached through ODL: How it contributes to female empowerment in Bangladesh?](#)).
32. **"Open Schooling for Female Education and Empowerment in Bangladesh: Scope, Practices and Challenges"**, International Conference on Education for All: Role of Open Schooling, New Delhi, India, 13-15 Mar, 2013; with M. A. Kamal ([Vedams Books](#)).
33. **"ODL to Reinforce Gender Equity of Junior Secondary Level Education: Opportunities, Challenges and Strategies"**, 7th Pan-Commonwealth Conference, Nigeria, 2-6 Dec 2013; with M. A. Kamal and A. Laboni (<http://oasis.col.org/handle/11599/1998>).
34. **"Quality and Effectiveness of Distance Education in Secondary and Higher Secondary Programmes of Bangladesh Open University- A Learner- Based Evaluation"**, 8th Pan-Commonwealth Conference, Kuala Lumpur, Malaysia, 27- 30 Nov 2016; with M.A. Kamal and A.

Laboni (<http://oasis.col.org/handle/11599/2635>).

35. "Using Technologies and OER to Enhance Efficiency and Effectiveness of Higher Education in Bangladesh: Opportunities and Challenges", 8th Pan-Commonwealth Conference, Kuala Lumpur, Malaysia, 27- 30 Nov 2016; with M.A. Kamal and P. Uys ([Using Technologies and OER to Enhance Efficiency and Effectiveness of Higher Education in Bangladesh: Opportunities and Challenges](#))
36. "Supporting Empowerment of Female Readymade Garment Workers in Bangladesh through Lifelong Distance Learning Approach", 9th Pan-Commonwealth Conference, Edinburgh, Scotland, from September 09-12, 2019; with A. Laboni (<http://oasis.col.org/handle/11599/3316>)
37. "ICT Enabled Education to Empower Girls: Potentials for the Vulnerable Groups", 10th Pan-Commonwealth Conference, Calgary, Canada, from September 14-16, 2022; ([ICT Enabled Education to Empower Girls: Potentials for the Vulnerable Groups](#)).
38. "Unlocking Financial Freedom of Girls Through Personal Skill Development", 11th Pan-Commonwealth Conference, Botswana, From September 09-12, 2025; with Md. Anwarul Islam and A. Laboni ([Unlocking Financial Freedom of Girls Through Personal Skill Development](#)).

ARTICLE – OPEN AND DISTANCE LEARNING/ OPEN SCHOOLING/ FEMALE EDUCATION (NATIONAL)

39. "Learner Support of Admission in Secondary and Higher Secondary Programme of BOU: Practices and Opportunities", Journal of Open School, 5(1), 2016; with A. Laboni and R. Biswas
40. "Business Education through Distance Mode - Importance, Problems and Remedies", Journal of Business Studies. Southeast University. Vol.1. No.1. January 2005; with M.A.Kamal and M. Islam.

BOOK CHAPTER (INTERNATIONAL)

1. "Bangladesh Open University: Bangladesh", Setting Standards, Maintaining Quality: Quality Assurance Policies for Open Schooling, Published by: Commonwealth of Learning; with Ananya Laboni
2. "OER and Open Schooling", Addressing the Learning Needs of Out-of-School Children and Youths through the Expansion of Open Schooling, Published by: Commonwealth of Learning; with Ephraim Mhlanga

BOOK TRANSLATION (INTERNATIONAL)

1. "শিক্ষক এবং শিক্ষার্থীদের জন্য শিক্ষামূলক অ্যাপ প্রযুক্তির সহায়ক নির্দেশিকা", Translated from "Education App Development Toolkit for Teachers and Learners" (<http://oasis.col.org/handle/11599/3069>)
2. "জলবায়ুর পরিবর্তন এবং মোকাবেলায় করণীয়", Translated from "Micro-course 1: Climate Change and Taking Action", Commonwealth of Learning.
3. "জীবিকা নির্বাহ এবং টেকসই কৃষিকাজের মাধ্যমে খাদ্য নিরাপত্তা অর্জন: জলবায়ু পরিবর্তনের প্রভাব প্রশমিতকরণ এবং টেকসই জীবিকা অর্জন", Translated from "Micro-course 2: Attain Food Security through Subsistence and Sustainable Agriculture: Mitigating Climate Change Impact and Achieving Sustainable Livelihoods", Commonwealth of Learning.
4. "জলবায়ু পরিবর্তন এবং খাদ্য নিরাপত্তায় লিঙ্গ সমতা", Translated from "Micro-course 3: Gender Equality in the Context of Climate Change and Food Security", Commonwealth of Learning.
5. "স্বনির্ভর ও সহনশীল স্থানীয় অর্থনীতি প্রবর্তন করার লক্ষ্যে জেন্ডার সচেতন, জলবায়ু প্রতিক্রিয়াশীল এবং টেকসই জীবিকা নির্মাণ", Translated from "Micro-course 4: Creating Gender-Sensitive, Climate-Responsive, Sustainable Livelihoods to Build Self-Reliant, Resilient Local Economies".
6. "উদ্ভাবন এবং জলবায়ু প্রতিক্রিয়াশীল কার্যক্রমের মাধ্যমে সামাজিক সহনশীলতা নির্মাণ", Translated from "Micro-course 5: Using Innovations and Climate-Responsive Actions to Build Community Resilience", Commonwealth of Learning.
7. "প্রথাগত অধিকার এবং প্রচলনকে সম্মান প্রদর্শন: একটি সুন্দর পৃথিবী গড়ার উপায়", Translated from "Micro-course 6: Respecting Indigenous Rights and Practices: Ways to a Better Planet", Commonwealth of Learning.
8. "উদ্যোক্তাদের জন্য ই-কমার্স: অংশগ্রহণকারীদের হ্যান্ডবুক", Translated from "eCOMMERCE FOR

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ENTREPRENEURS: Participant's Handbook", Commonwealth of Learning.

9. "নারীর অধিকার ও লিঙ্গভিত্তিক সহিংসতা: প্রশিক্ষণ নির্দেশিকা", Translated from "Women's Rights and Gender-Based Violence: TRAINING MANUAL", Commonwealth of Learning.

BOOK – BOU MODULES (NATIONAL)

1. "Textbook on Physics-I, Higher Secondary School Certificate Program", Bangladesh Open University, 2003
2. "Textbook on Physics-II, Higher Secondary School Certificate Program", Bangladesh Open University, 2005
3. "Textbook on General Science, Secondary School Certificate Program", Bangladesh Open University, 2003
4. "Textbook on Physics-I, Higher Secondary School Certificate Program", Bangladesh Open University, 2016
5. "Textbook on Physics-II, Higher Secondary School Certificate Program", Bangladesh Open University, 2017
6. "Textbook on Physics, Secondary School Certificate Program", Bangladesh Open University, 2016
7. "Textbook on Science, Secondary School Certificate Program", Bangladesh Open University, 2017

TRAINING WORKSHOP AND CONFERENCE

1. Attended: "Script writing and video production for Educational Television", 11-day training workshop, jointly organized by Commonwealth Educational Media Center for Asia (CEMCA) and Bangladesh Open University (BOU), 19-29 Mar 2001
2. Attended: "Laboratory Management in ODL system", Workshop, Colombo, Sri Lanka, 2000
3. Attended: "Familiarization training on ODL", Colombo, Sri Lanka, 2001
4. Presenter: "2nd Pan-Commonwealth Conference", Durban, South Africa, 29 Jul-02 Aug 2002
5. Presenter: "3rd Pan-Commonwealth Conference", New Zealand, 2 –7 Jul 2004
6. Presenter: "AAOU Conference", Jakarta, Indonesia, 14 –19 Sep 2005
7. Attended: "Kenya National Symposium on Open Education", Nairobi, Kenya, 6 - 7 Jun 2013
8. Presenter: "7th Pan-Commonwealth Conference", Nigeria, 2-6 Dec 2013
9. Presenter: "8th Pan-Commonwealth Conference", Malaysia, 27- 30 Nov 2016
10. Presenter: "9th Pan-Commonwealth Conference", Scotland, 09–12 Sep 2019
11. Presenter: "11th Pan-Commonwealth Conference", Botswana, 10–12 Sep 2025
12. Facilitator: "Open Educational Resources (OER) Policy", Workshop, Bangladesh, 15-17 Feb 2014
13. Organizer: "Instructional Design (ID)", Workshop, Bangladesh, 10-22 Mar 2014
14. Facilitator: "Leadership for Girls for Change (L4G4C)", Workshop, Bangladesh, 26-27 Sep 2014
15. Observer: "QAA workshop", Workshop, Maputo, Mozambique, 7-9 Mar 2016
16. Attended: "COMOSA Gender Workshop Programme", Workshop, New Delhi, India, 17 Mar 2013
17. Attended: "COMOSA AGM", New Delhi, India, 16 Mar 2013
18. Presenter: "International Conference on Education for All: Role of Open Schooling", New Delhi, India, 13-15 Mar, 2013.
19. Attended: "Institutional Peer to Peer Quality Assurance Workshop", New Delhi, India, 2-4 May 2017
20. Attended: "QA Policy", Workshop, New Delhi, India, 2014

S. sultana