

Curriculum Vitae

- 1. Name** : DR. MD. ABU HASHAN BHUIYAN
2. Address : Department of Physics,
Bangladesh University of Engineering & Technology
(BUET), Dhaka 1000, Bangladesh.

3. Nationality : Bangladeshi
4. Present Position : Professor of Physics, BUET

5. Educational Qualifications:

Degree Name	Institution	Year
Ph.D	University of Poona, India	1989
M. Phil	University of Dhaka	1981
M.Sc.	University of Dhaka	1975
B.Sc.	University of Dhaka	1973
H.S.C.	Netrokona College	1971
S.S.C.	C.N. High School, Netrakona	1969

6. Job Experience (starts from present)

Professor	Department of Physics, BUET	22 March 1998 onward
Associate Professor	Department of Physics, BUET	10 August `94-21 March 1998
Assistant Professor	Department of Physics, BUET	2 March `85- 9 August 1994
Lecturer	Department of Physics, BUET	7 Sept. `81 – 1 March 1985

7. Administrative Responsibility

Designation	Office	From	To
• Dean	Faculty of Engineering	01/07/2015	08/07/2017
• Provost	Sher-e-Bangla Hall	11/10/2011	About 2.5 Y
• Head of the Department	Department of Physics	25/09/2005	02/12/2005
• Head of the Department	Department of Physics	01/08/1999	14/10/2001
• Assistant Provost	Dr. M.A. Rashid Hall	01/12/1991	28/02/1995

8. Research Experience

(a) Research interest:

Plasma polymerized thin films, Composites, Ceramics, etc.

(b) Publications :	i) International Journal:	92 (A list is attached for i – v)
	ii) Proceedings:	5
	iii) Reports:	2
	iv) Presentations:	62
	v) Books (Bangla medium)	2

(c) Postgraduate Students Supervised:

1. **Ph. D.** - 13 2. **M. Phil.** -34 3. **M. S./M. Sc.** -20

(d) Titles of own theses:

- **Ph.D.** : Characterization of Plasma Polymerized Acrylonitrile Thin Films for Photovoltaic Application.
- **M.Phil.** : Thermally Stimulated Polarization and Thermally Stimulated Depolarization Currents in Alkali Borosilicate Glass.
- **M. Sc.:** An Investigation of the Electrical Properties of Alkali Borosilicate Glass.

9. Other Contributions

Laboratory Development

- Selection of necessary equipment to procure for undergraduate and postgraduate laboratories in every session.
- Establishment of a polymer and polymer composite extrusion facility in the postgraduate polymer physics laboratory.
- Design and fabrication of a Capacitively Coupled Plasma Polymerization system organic thin film preparation.

Fellowships/workshops/seminars participated

- Spring College on Materials Science on “Nucleation, Growth and Segregation in Materials Science and Engineering”, held at the AS International Centre for Theoretical Physics (ICTP), Trieste, ITALY, 6 May – 7 June, 1991.
- Spring College on “Superconductivity”, held at the AS International Centre for Theoretical Physics (ICTP), Trieste, ITALY, 27 April-19 June, 1992.
- Post Doctoral Fellowship: Commonwealth Staff Fellowship, Interdisciplinary Research Centre (IRC) in Polymer Science and Technology, University of Leeds, Leeds, England, UK, October 1997 to September 1998 .

- (iv) International Nathiagali Summer College on Physics and. Contemporary Needs, Nathiagali, Pakistan, 2 - 7 July, 2001.
- (v) International Host Lab Experiments for Synthesis of Nanomaterials by Thermal Plasma, Department of Physics, University of Pune, Pune, INDIA, 17 November – 1 December, 2004
- (vi) Asia Materials Network Workshop, Institute of Materials Research and Engineering, Singapore, 14 – 16 November, 2005.
- (vii) International Conference on Frontiers of Physics (ICFP 2009), June 2 - 5, 2009; Kathmandu, Nepal.

Memberships/Fellowships of Learned Societies, professional Institutions and Other Noteworthy Affiliations, etc.

(a) **Scientific Professional Organization**

- (i) **President**, Bangladesh Physical Society (BPS), 2018-2019.
- (ii) **Fellow**, Bangladesh Physical Society (BPS).
- (iii) **Vice President**, BPS, 2012-13, 2016-2017
- (iv) **Secretary**, BPS, 2004-2008
- (v) **Member**, Executive Board, Bangladesh Physical Society, 2009-2011 and 2014-15
- (vi) **Life Member**, Bangladesh Association for the Advancement of Science (BAAS), Life Membership no. -III 706.
- (vii) **President**, Section III, BAAS, 2007-2008, 2009-2010.
- (viii) **Vice President**, Executive Council, BAAS, 2016-2017.
- (ix) **Member**, Executive Board, BAAS, 2014-2015

(b) **BUET**

- (i) **Member**, Syndicate, BUET (July, 2015 – June, 2017)
- (ii) **Member**, Academic Council, BUET.
- (iii) **Member**, Faculty of Engineering, BUET.
- (iv) **Member**, BUGS, Dept. of Physics, BUET.
- (v) **Member**, BUGS, Dept. of Physics, BUET.
- (vi) **Member**, BPGS, Dept. of Physics, BUET.
- (vii) **Member**, Committee for Advanced Studies and Research(CASR), BUET
- (viii) **External Member**, Faculty of Electrical and Electronic Engineering, BUET, (2002-2004).
- (ix) **Junior Associate**, AS International Centre for Theoretical Physics (ICTP), Trieste, ITALY, 1991-94.

- 10.** (i) **Editor**, Bangladesh Journal of Physics, Published by BPS, Bangladesh since 2004.
- (ii) **Member of Editorial Board**, Bangladesh Journal of Scientific Research, Published by BAAS, Bangladesh, Since 2014.
- (iii) **Member of Editorial Board**, Bangladesh Journal of Scientific and Industrial Research, Published by BCSIR, Bangladesh, Since 2014.
- iii) **Reviewer** of Several National and International Standard Journals.

11. Examiner

- i) Examiner of Ph. D., M. Phil. and M. Sc. Theses of different (Home and Abroad) Universities.
- ii) Examiner of Different theoretical papers of different Universities.

12. Convener/Member of Committees formed by the Govt. of Bangladesh

- i) **Convener**, Scholarship and Fellowship award Committee, MoS&T.
- ii) **Member**, Research Proposal Peer Review Committee (Physical Sciences), MoS&T.

13. Honours and Awards

- i) University of Dhaka Merit scholarship during M. Sc, 1977.
- ii) University of Dhaka Merit scholarship during M. Phil., 1979-1981.
- iii) Indian Govt. Scholarship for Ph. D., 1985-1988.
- iv) Commonwealth Staff Fellowship, 1997-1998.

14. Language proficiency other than mother Language

English: Good in speaking, reading and writing.

15. Country Visited: India, Italy, France, Pakistan, Saudi Arabia, Singapore, UK.



Dr. Md. Abu Hashan Bhuiyan

Professor,
Department of Physics
Bangladesh University of Engineering & Technology (BUET)
Dhaka 1000, Bangladesh
Cell No.: 01712836384
Email: abhuiyan@phy.buet.ac.bd, Web: www.buet.ac.bd/abhuiyan

Enclosure

List of publications

A: Journals

1. R. Nasrin, K. S. Hossain, **A. H. Bhuiyan**, Morphological, elemental, and optical characterization of plasma polymerized n-butyl methacrylate thin films, *Applied Physics A*, 2018, 124, 391(1-8)
2. R. Nasrin, **A. H. Bhuiyan**, Thermal and AC Electrical Properties of Thin Films Prepared from n-Butyl Methacrylate by a Capacitively Coupled Plasma Reactor, *Surface Review and Letters*, 2018, article no. 1850146
3. M. J. Rahman, **A. H. Bhuiyan**, AC Electrical Properties of Plasma Polymerized o-Methoxyaniline Thin Films, *Polymer Science, Series A*, 2018, 60(3), 290–297.
4. M. Sharmin, **A. H. Bhuiyan**, Influence of substrate temperature on the properties of spray deposited nanofibrous zinc oxide thin films, *Applied Physics A*, 2018, 124 (1), 57(1-11).
5. H. Kabir, M. M. Rahman, K. M. Uddin, **A. H. Bhuiyan**, Structural, morphological, compositional and optical studies of plasma polymerized 2-furaldehyde amorphous thin films, *Applied Surface Science*, 2017, 423, 983-994.
6. M. Nesa, M. Sharmin, KS Hossain, **A. H. Bhuiyan**, Structural, morphological, optical and electrical properties of spray deposited zinc doped copper oxide thin films, *Journal of Materials Science: Materials in Electronics* 28 (17), 12523-12534.
7. S. S. Roy, **A. H. Bhuiyan**, Properties of Spray Pyrolysed Copper Oxide Thin Films, *Sensors & Transducers*, 2017, 209 (2), 20.
8. T. Afrose, **A. H. Bhuiyan**, Thickness dependence of AC electrical conductivity and dielectric behavior of plasma polymerized 1, 1, 3, 3-tetramethoxypropane thin films, *Polymer Engineering & Science*, 2017, DOI 10.1002/pen.24712.
9. M. M. Kamal, **A. H. Bhuiyan**, Temperature Dependence of DC Electrical Conduction in Plasma Polymerized Pyrrole Thin Films, *Journal of Modern Science and Technology*, 2016, 4 (1), 36-45.
10. H. Kabir, **A. H. Bhuiyan**, MM Rahman, Understanding the charge carrier conduction mechanisms of plasma-polymerized 2-furaldehyde thin films via DC electrical studies, *Thin Solid Films* 609, 35-41.
11. S. S. Roy, **A. H. Bhuiyan**, TiO₂ and Cu/TiO₂ Thin Films Prepared by SPT, *Sensors Trans.*, 2015, 195 (12), 18-24.

12. T.Afroze, **A. H. Bhuiyan**, Electrical Conduction Mechanism in Plasma Polymerized 2-(diethylamino) Ethyl methacrylate Thin Films, *Polym. Engin. Sci.*,2015, 55 (12), 2729-2734.
13. R.Nasrin, M. A.Gafur, **A. H. Bhuiyan**, Characterization of Isotactic Polypropylene/Talc Composites Prepared by Extrusion Cum Compression Molding Technique, *Mater. Sci. Appl.*, 2015,6 (11), 925-934.
14. S. S. Roy, **A. H. Bhuiyan**, Surface Morphology, Compositional, Optical and Electrical Properties of TiO₂ Thin Films, *Sensors Trans.*, 2015, 192 (9), 66-73.
15. S. S. Roy, **A. H. Bhuiyan**, Optical Characterization of Synthesized Pure and Copper Doped Titanium Oxide Thin Films, *ARPN J. Sci.Technol.*, 2015, 5 (8), 360 - 363.
16. R.Nasrin, **A. H. Bhuiyan**, M. A.Gafur, Influence of Talc Filler Content on the Mechanical and DC Electrical Behavior of Compression Molded Isotactic Polypropylene Composites, *Int. J. Compos. Mater.*, 2015, 5 (6), 155-161.
17. S. S. Roy, **A. H. Bhuiyan**, J. Podder, Optical and Electrical Properties of Copper Oxide Thin Films Synthesized by Spray Pyrolysis Technique, *Sensors Trans.s*, 2015,191 (8), 21-27.
18. K. Hasin, I.Tasnim, M. M.Masud, **A. H. Bhuiyan**, A. A.Mamun, Coexistence of DA shock and solitary waves in dusty plasmas with two-temperature-ions, *Astrophys. Space Sci.*, 2015, 357, 25(1-7).
19. S.Majumder, **A. H.Bhuiyan**, Effect of Heat Treatment on the Optical Properties of Plasma-Polymerized Vinylene Carbonate Thin Films, *Adv. Polym. Technol.*, 2015,34 (1), 21468.
20. R. Matin, **A. H. Bhuiyan**, Changes in the optical properties of as-deposited plasma polymerized 2, 6-diethylaniline thin films by iodine doping, *J. Phys. Chem. Solids*, 2014, 75(10), 1179-1186.
21. T. Afroze, **A. H. Bhuiyan**, Effect of iodine doping on the ac electrical properties of plasma polymerized 2 (diethylamino) ethyl methacrylate thin films, *Strategic Technology (IFOST)*, 2014, 9th International Forum on, 452-455.
22. T. Afroze, **A. H. Bhuiyan**, Alternating Current Electrical Properties of Thin Films of Plasma Polymerized 1, 1, 3, 3-Tetramethoxypropane, *Adv. Polym. Tech.*, 2014, 33(2).
23. R. Matin, **A. H. Bhuiyan**, Effect of iodine doping on the electrical transport mechanism in plasma polymerized 2, 6-diethylaniline thin films, *J. Phys. Chem. Solids*, 2014, 75(2), 198-202.
24. M. M. Kamal, **A. H. Bhuiyan**, Direct Current Electrical Conduction Mechanism in Plasma Polymerized Pyrrole Thin Films, *J. Mod. Sci. Tech.*, 2014, 2(2), 1-9.
25. M. M. Kamal, **A. H. Bhuiyan**, Thickness Dependent Direct Current Electrical Conduction in Plasma Polymerized Pyrrole Monolayer Thin Films, *Adv. Mat. Res.*, 2013, 741, 59-64.
26. T. Afroze, **A. H. Bhuiyan**, Effect of heat treatment on the structural and optical characteristics of plasma deposited 2-(diethylamino) ethyl methacrylate thin films by a capacitively coupled glow discharge plasma system, 2013, *Phys. Scripta.*, 88 (4), 045502.

27. T. Afroze, **A. H. Bhuiyan**, Effect of Aging on the Optical Properties of Plasma Polymerized 1, 1, 3, 3-Tetramethoxypropane Thin Films, *Adv. Polym. Tech.*, 2013, 32 (2).
28. M. J. Rahman, **A. H. Bhuiyan**, Structural and optical properties of plasma polymerized o-methoxyaniline thin films, *Thin Solid Films*, 2013, 534, 132-136.
29. R. Matin, A. H. Bhuiyan, Infrared and ultraviolet-visible spectroscopic analyses of plasma polymerized 2, 6 diethylaniline thin films, *Thin. Solid. Films.*, 2013, 534, 100-106.
30. M. M. Kamal, **A. H. Bhuiyan**, Structural and optical characterization of plasma polymerized pyrrole monolayer thin films, *Adv. Optoelec. Mater.*, 2013, 1 (2), 11-17K.
31. M. M. Anwer and **A. H. Bhuiyan**, Alternating Current Electrical Properties of Argon Plasma Treated Jute, *Int. J. Dev. Sust.*, 2012, 1 (2), 599, 613.
32. M. T. Rahman, and A.H. Bhuiyan, In Vitro Screening of Fungicides and Antagonists Against Sclerotiumrolfsii, *Afr. J. Biotech.*, 2012, 11 (82), 14822.
33. R Matin and **A. H. Bhuiyan**, Heat Treatment and Aging Effect on The Structural and Optical Properties of Plasma Polymerized 2, 6-Diethylaniline Thin Films, *Thin Sol. Films*, 2012, 520 (21), 6463-6470.
34. M. M. Kamal and **A. H. Bhuiyan**, Direct Current Electrical Characterization of Plasma Polymerized Pyrrole-N, N, 3, 5 Tetramethylaniline Bilayer Thin Films, *J. Appl. Pol. Sci.*, 2012, 125 (2), 1033-1040.
35. M. Haque, M. Mina, A. K. M.Moshiul Alam, M. Rahman and **M. A. H. Bhuiyan**, Multiwalled Carbon Nanotubes-Reinforced Isotactic Polypropylene Nanocomposites: Enhancement of Crystallization and Mechanical, Thermal, and Electrical Properties, *Pol. Comp.*, 2012, 33 (7), 1094-1104.
36. **A. H. Bhuiyan**, M. F. Mina, S. Seema, M. M. Khan, M. J. Rahman and M. A. Gafur, Structural, Elastic and Thermal Properties of Titanium Dioxide Filled Isotactic Polypropylene, *J. Pol. Res.*, 2011, 18 (5), 1073-1079.
37. S. Yasmm, S. Choudhury, M. A. Hakim, **A. H. Bhuiyan** and M. J. Rahman, Effect of Cerium Doping on Microstructure and Dielectric Properties of Batio 3 Ceramics, *J. Mat. Sci. Tech.*, 2011, 27 (8), 759-763.
38. M. M. Kamal, **A. H. Bhuiyan**, Optical Characterization of Plasma-Polymerized Pyrrole-N, N, 3, 5-Tetramethylaniline Bilayer Thin Films, *J. Appl. Pol. Sci.*, 2011, 121 (4), 2361-2368.
39. S. Yasmin, S. Choudhury, M. A. Hakim, **A. H. Bhuiyan** and M. J. Rahman, Structural and Dielectric Properties of Pure and Cerium Doped Barium Titanate, *J. Cer. Proc. Res.*, 2011, 12 (4), 387-391.
40. S. Majumder and **A. H. Bhuiyan**, Direct Optical Transition in Plasma Polymerized Vinylene Carbonate Thin Films, *Ind. J. Phys.*, 2011, 85 (8), 1287-1297.
31. R. B. Sarker and **A. H. Bhuiyan**, Electrical Conduction Mechanism in Plasma Polymerized 1-Benzyl-2-Methylimidazole Thin Films Under Static Electric Field, *Thin Solid Films*, 2011, 519 (18), 5912-5916.

42. M. A. Ashraf, **A. H.Bhuiyan**, M. A. Hakim and M. T. Hossain, Microstructure and Electrical Properties of Sm₂O₃ Doped Bi₂O₃-Based Znvaristor Ceramics, *Mat. Sci. Eng.*, 2011, 176 (11), 855-860.
43. R. B. Sarker and **A. H. Bhuiyan**, Structural and Optical Properties of Plasma-Polymerized 1-Benzyl-2-Methylimidazole Thin Films, *Int. J. Mod. Phys. B*, 2011, 25 (14), 1941-1955.
44. R. Matin and **A. H. Bhuiyan**, Electrical Transport Mechanism in Plasma Polymerized 2, 6, Diethylaniline Thin Films, *Thin Solid Films*, 2011, 519 (11), 3462-3467.
45. H. Akther and **A. H. Bhuiyan**, Dielectric Properties of Plasma Polymerized N, N, 3, 5 Tetramethylaniline Thin Films, *Surf. Rev. Lett.*, 2011, 18, 53-60.
46. T. Afroze and **A. H. Bhuiyan**, Infrared and Ultraviolet-Visible Spectroscopic Studies of Plasma Polymerized 1, 1, 3, 3-Tetramethoxypropane Thin Films, *Thin Sol. Films*, 2011, 519 (6), 1825-1830.
47. S. Majumder and **A. H.Bhuiyan**, DC Conduction Mechanism in Plasma Polymerized Vinylene Carbonate Thin Films Prepared By Glow Discharge Technique, *Pol. Sci. Ser. A*, 2011, 53 (1), 85-91.
48. Tamanna Afroze and **A. H. Bhuiyan**, Infrared and ultraviolet-visible spectroscopic studies of plasma polymerized 1, 1, 3, 3 - tetramethoxypropane thin films, *Thin Solid Films*, 519(6), (2010)1825-1830.
49. **A. H. Bhuiyan**, M. F. Mina, S. Seema, M. J. Rahman, M. M. Khan, and M. A. Gafur; Structural, Elastic and Thermal Properties of Titanium Dioxide Filled Isotactic Polypropylene, *J. of Polym. Res.*, 18 (2011) 1073-1079.
50. Md. Abdul Gafur, Rahima Nasrin, Md. Forhad Mina, **Md. Abu Hashan Bhuiyan**, Yukihiko Tamba and Tsutomu Asano, Structures and properties of the compression-molded isotactic-polypropylene/talc composites: Effect of cooling and rolling, *Polymer Degradation and Stability* 95(9), (2010), 1818-1825.
51. M.A. Ashraf, **A. H. Bhuiyan**, M.A. Hakim , M.T. Hossain, Microstructure and electrical properties of Ho₂O₃ doped Bi₂O₃-based ZnO varistor ceramics, *Physica B*, **405** (2010), 3770-3774.
52. H. Akther and **A. H. Bhuiyan**, Dielectric Properties of Plasma Polymerized N,N,3,5 Tetramethylaniline Thin Films, *J. Mod. Phys. B*, accepted on Jan 15, 2010.
53. Nishat Bagum, M. A. Gafur, **A. H. Bhuiyan**, and D. K. Saha, MgCl₂ doped Cu_xZn_{1-x}Fe₂O₄ ferrite humidity sensors, *Phys. Status Solidi A* 207(4), (2010) 986-992.
54. M. Zaman and **A H Bhuiyan**, Direct Current electrical conduction mechanism in plasma polymerized TEOS thin films, *Thin Solid Films*, 517 (2009) 5431-5434.
55. Md. Forhad Mina, Nasima Banu, Abdur Razzak, Md. Jellur Rahman,Md. Abdul Gafur, **Md. Abu Hashan Bhuiyan**, Study of Structures and performance of white-clay filled isotactic-polypropylene composites prepared by double-molding techniques; *Polymer Plastic Technology and Engineering*, 48 (2009) 1275-1281.

56. Shamima Choudhury , Shurayya Akter, M. J. Rahman,S. N. Rahman, N. Khatun, M. T. Hossain and **Md. Abu Hashan Bhuiyan**, Study of Dielectric and Electrical Properties of Zirconium Doped Barium Titanate Perovskite; *J. Bangladesh Acad. Sci.* 32(2): 221-229 (2008).
57. Md. Forhad Mina , Sharmin Seema, Rummana Matin, Md. Jellur Rahaman, Rama Bijoy Sarker, Md. Abdul Gafur, **Md. Abu Hashan Bhuiyan**, Improved performance of isotactic polypropylene/titanium dioxide composites: Effect of processing conditions and filler content , *Polymer Degradation and Stability* 94, (2009)183-188.
58. Z. H. Khan , S. S. Sikder, M. A. Asgar and **A.H. Bhuiyan**, Electrical and Effect of Annealing Temperature on Complex Initial Permeability of $\text{Co}_{80-x}\text{Fe}_x\text{B}_{10}\text{Si}_{10}$ Amorphous Ribbons, *Bangladesh Journal of Physics*, 3 (2007) 15-23
59. M. J. Rahman, Shamima Choudhury, S. N. Rahman and A. H. Khan **A.H. Bhuiyan**, Electrical and Properties of Cerium Doped Barium Titanate, *J. Bangladesh Acad. Sci.*, 31(1) (2007) 137-141.
60. B.K. Sarker, A.B.M.O. Islam, F. Ahmed and **A.H. Bhuiyan**, Optical and Dielectric Properties of PVC, PVA and Their Blends, *Polymers & Polymer Composites*. 14, 741 (2006).
61. H Akther and **A. H. Bhuiyan**, Electrical and Optical Properties of Plasma Polymerized N, N, 3, 5 Tetramethylaniline Thin Films, *New J. Phys.* 7 (2005) 173.
62. H Akther and **A. H. Bhuiyan**, Space Charge Limited Conduction in Plasma Polymerized N, N, 3, 5 Tetramethylaniline Thin Films, *Thin Solid Films* 488 (2005) 93-97
63. Al-Mamun, A. B. M. O. Islam and **A. H. Bhuiyan**, Structural, Electrical and Optical Properties of Copper Selenide Thin Films Deposited By Chemical Bath Deposition Technique, *J. Mater. Sci.: Mater.in Electr.* 16(5) (2005) 263 - 268.
64. H Akther and **A. H. Bhuiyan**, Infrared and Ultra Violet-Visible Spectroscopic Investigation of Plasma Polymerized N, N, 3, 5 Tetramethylaniline Thin Films, *Thin Solid Films* 474(1-2) (2005) 14 - 18 .
65. A. Razzak and **A.H. Bhuiyan**, An Investigation of the Structural Modification of Polypropylene-Bijoypur White Clay (PP-BWC) Composites, *Bangladesh J. Phys.* 1(1) (2004) 60 - 68
66. Mustari Zaman and **A.H. Bhuiyan**, Elemental Analysis and Infrared Investigation of Plasma Polymerised Tetraethylorthosilicate Thin Films, *J. Appl. Sci. & Technol. (Bangladesh)* 3(2) (2003) 133-137.
67. A. Razzak and **A.H. Bhuiyan**, DC Electrical Conduction Mechanism in Polypropylene Bijoypur White Clay (PP - BWC) Composites, *Ind. J. Phys.* 77A (4) (2003) 353 - 357.
68. A. Razzak and **A.H. Bhuiyan**, Structural Modification of Polypropylene-Bijoypur White Clay (PP - BWC) Composites, *Ind. J. Phys.* 76A (5) (2002) 443 - 448.
69. F.-U.-Z. Chowdhury and **A.H. Bhuiyan**, The DC Electrical Conduction Mechanism of Heat-treated Plasma polymerized Diphenyl(PPDP) Thin Films, *Ind. J. Phys.* 76A(3) (2002) 239 - 244.

70. F.-U.-Z. Chowdhury and **A.H. Bhuiyan**, An Investigation of the Optical Properties of Plasma-Polymerized Diphenyl Thin Films, *Thin Solid Films* 360(1-2) (2000) 69-74.
71. F.-U.-Z. Chowdhury and **A.H. Bhuiyan**, Dielectric Properties of Plasma-Polymerized Diphenyl Thin Films, *Thin Solid Films*, 370 (2000) 78-84.
72. F.-U.-Z. Chowdhury A.B.M.O. Islam and **A.H. Bhuiyan**, Chemical analysis of the Plasma-Polymerized Diphenyl Thin Films, *Vacuum* 57 (2000) 43-50.
73. A.B.M. Obaidul Islam and **A.H. Bhuiyan**, Electrical Properties of Electrodeposited Copper Selenide Thin Films, *Bangladesh J. Sci. Res.* 18 (1) (2000) 175-177.
74. F. -U.-Z. Chowdhury and **A. H. Bhuiyan**, Study of the Dielectric Properties of the Bijoypur White Clay of Bangladesh, *J. Bangladesh Acad. Sci.* 23(2) (1999) 163-171.
75. S.J. Ahmed, J. Khanam, F.-U.-Z. Chowdhury and **A.H. Bhuiyan**, Structural and Optical Properties of Polypropylene-Talc Composites, *Ind. J. Phys.* 74(A) (6) (2000) 555-558.
76. F.-U.-Z. Chowdhury, and **A.H. Bhuiyan**, Study of the Structural Modification on Heat Treatment of Bijoypur White Clay (BWC) of Bangladesh, *Ind. J. Phys.* 71A (6), (1997) 569-577.
77. F.-U.-Z. Chowdhury and **A.H. Bhuiyan**, Study of the DC Electrical Properties of Bijoypur White Clay of Bangladesh, *Ind. J. Phys.* 71A, (1997) 635-642.
78. A.B.M. Shah Jalal, S. Ahmed, **A.H. Bhuiyan** and M. Ibrahim, UV-Vis Absorption Spectroscopic Studies of Plasma-Polymerized m-Xylene Thin Films, *Thin Solid Films* 288 (1996) 108-111.
79. A.B.M. Shah Jalal, S. Ahmed, **A.H. Bhuiyan** and M. Ibrahim, On the Conduction Mechanism in Plasma-Polymerized m-Xylene Thin films, *Thin Solid Films* 295 (1997) 125-130.
80. **A.H. Bhuiyan**, S.V. Bhoraskar and S. Badrinarayanan, X-ray Photoelectron Spectroscopic Studies on Pyrolysis of Thin Films of Plasma-Polymerized Acrylonitrile Thin Solid Films 240 (1994) 66-69.
81. O. Islam, **A.H. Bhuiyan** and S. Ahmed, IR and Dielectric Studies of Plasma-Polymerized m-Xylene thin Films, *Thin Solid Films* 238 (1994) 191-194.
82. **A.H. Bhuiyan** and S.V. Bhoraskar, Evidence of the Formation of a Charge-Transfer Complex Between Iodine and Plasma-Polymerized Acrylonitrile, *Thin Solid Films* 235 (1993) 43-46.
83. **A.H. Bhuiyan** and S.V. Bhoraskar, Electrical, Optical and ESR Study of Thin Films of Plasma-Polymerized Acrylonitrile, *J. Mater. Sci.* 24 (1989) 3091-94.
84. **A.H. Bhuiyan**, N.R. Rajopadhye and S.V. Bhoraskar, A Few Electronic Properties of Thin Films of Plasma-Polymerized Acrylonitrile, *Thin Solid Films* 161 (1988) 187.
85. **A.H. Bhuiyan** and S.V. Bhoraskar, Photovoltaic Properties of Thin Films of Plasma-Polymerized Acrylonitrile, *Thin Solid Films* 62 (1988) 333.
86. **A.H. Bhuiyan** and S.V. Bhoraskar, Photoelectric Properties of Polyacrylonitrile Prepared by Plasma-CVD, *Ind. J. Phy.* 62A (1988) 960.

87. **A.H. Bhuiyan** and S.V. Bhoraskar, Study of structural Modification of Thin Films of Plasma-Polymerized Acrylonitrile on Pyrolysis, Ind. J. Phys. 62A (1988) 907.
88. **A.H. Bhuiyan** and S.V. Bhoraskar, DC Conduction Study on Thin Films of Plasma-Polymerized Acrylonitrile, Ind. J. Pure & Appl. Phys. 27 (1989) 419.
89. **A.H. Bhuiyan** and S.V. Bhoraskar, Suitability of Plasma-Polymerized Polyacrylonitrile for Photovoltaic Application, Polym. Mater. Sci. Eng. 56 (1987) 609.
90. **A.H. Bhuiyan** and S. Ahmed, Thermally Stimulated Depolarization Current in Sodium Potassium Borosilicate Glass, J. Non-Cryst. Solids 43 (1981) 353.
91. A.F.M.Y. Haider, A. Begum and **A.H. Bhuiyan**, ITC Measurements on Mn-doped NaCl: Evidence of MnCl Precipitates in NaCl, Ind. J. Phy. 57A (1983) 417.
92. **A.H. Bhuiyan**, Recent Trends in Polymer Science, The Physicists, 16(1), (1996), 26-36, Dhaka, Bangladesh.

B: Papers Submitted for Publication:

C: Proceedings

1. Al-Mamun, A. B. M. O. Islam and **A. H. Bhuiyan**, Structural, Electrical and Optical Properties of Copper Selenide Thin Films Deposited By Chemical Bath Deposition Technique, ICTP, Trieste, Italy, IC/2004/48 (2004).
2. **A. H. Bhuiyan** and F.-U.-Z. Chowdhury, Plasma Polymerization: A Novel Technoqe for Material Processing, Proc. of the 4th Int. Conf. on Mech. Engn., Dec. 26-28, 2001 Dhaka, Bangladesh, Vol.IV., Sec. VI, 27-32.
3. F. -U.-Z. Chowdhury and **A. H. Bhuiyan**, Design and Fabrication of a Capacitively coupled Plasma Polymerization System, Proceedings of the BAAS Conference, Dhaka, Bangladesh, 28-30 November, 1998.
4. F.-U.-Z. Chowdhury and **A. H. Bhuiyan**, Preparation and DC Conduction Study of Plasma-Polymerized Diphenyl (PPDP) Thin Films Proceedings of 7th International Conference on Material Science & Technology organized by BPS, 23-25 Oct. (1999) 124-127.
5. **A. H. Bhuiyan**, P.L. Carr, J. Humphreys and G.R. Davies, Design and Fabrication of a Corona Triode Poling Rig, Proceeding of the 20th Bangladesh Science Conference, Organized by the Bangladesh Association for the Advancement of Science (BAAS), Bangladesh University of Engineering & Technology, Dhaka, Bangladesh, 28-30 November, 1998.
6. **A. H. Bhuiyan** and S. Ahmed, Thermally Stimulated Polarization Current (TSPC) and Thermally Stimulated Depolarization Current (TSDC) in Borosilicate Glass, Proceedings of the International Conference on the Role of Physics in Development, Dhaka, Bangladesh 1982, 19.

D: Reports

1. **A. H. Bhuiyan**, Fabrication of a Corona Triode Poling rig and Study of Relaxation and Reaction Kinetics of some Epoxy-amines, a report on the research work during Commonwealth Staff Fellowship Programme 1997-98.
2. **A. H .Bhuiyan** International Host Lab Experiments for Synthesis of Nanomaterials by Thermal Plasma, Department of Physics, University of Pune, INDIA, 17 November - 1 December, 2004.

E: Presentations in International and National Conferences and Workshops

1. Mohammad Jellur Rahman and **Md. Abu Hashan Bhuiyan**, Study of Optical Properties of Plasma Polymerized O-Methoxyaniline Thin Films, International Conference on Recent Advances in Physics (RAP-2010), organized by Dept. of Physics, Dhaka University, Dhaka, Bangladesh, 27-29th March, 2010.
2. Sabina Yasmina, Shamima Choudhury, M. A. Hakim, **A. H. Bhuiyan** and M. J. Rahman; Structural and Dielectric Properties of Pure and Cerium Doped Barium Titanate, International Physics Conference (IPC-09), Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, 15-17, May, 2009.
3. Tamanna Afroze and **A. H. Bhuiyan** Infrared and Ultraviolet Spectroscopic Studies of Plasma Polymerized 1, 1, 3, 3 - Tetramethoxypropane Thin Films International Conference on Frontiers of Physics (ICFP 2009), June 2 - 5, 2009; Kathmandu, Nepal.
4. Z. H. Khan, S. S. Sikder and **A. H. Bhuiyan**, The effect of annealing temperature on the complex permeability of $\text{Co}_{76} \text{Fe}_4 \text{B}_{10} \text{Si}_{10}$ amorphous ribbon, International Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, May 15-17, 2009.
5. Rummana Matin and **A. H. Bhuiyan**, Structural and optical characterization of plasma polymerized 2, 6, diethylaniline thin films, International Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, May 15-17, 2009.
6. Md. Ali Ashraf, Jasim Uddin Khan, S. F. U. Farhad, Nur Zaman Ara Ahmed, Mohammad Tofazzal Hossain, M. A. Hakim and **A. H. Bhuiyan**, Effect of sintering temperature on microstructure and electrical properties of bismuth based ZnO varistors, International Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, May 15-17, 2009.
7. R. B. Sarker, M. M. Reza and **A. H. Bhuiyan**, Optical properties of plasma polymerized 1- Benzyl-2-methylimidazole thin films, International Physics Conference Organized by the Bangladesh Physical Society, Dhaka, Bangladesh, May 15-17, 2009
8. Sabina Yasmin, Shamima Choudhury, M. A. Hakim, **A. H. Bhuiyan** and M. J. Rahman Study of dielectric and structural properties of pure and cerium doped barium titanate, International Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, May 15-17, 2009.
9. M. M. Kamal and **A.H. Bhuiyan**, , Characterization of plasma polymerized pyrrole-N, N, 3, 5, tetramethylaniline composite thin films by IR and UV_Vis. spectroscopy, Proceeding of the 21st Bangladesh Science Conference, Organized by the Bangladesh Association for

the Advancement of Science (BAAS), Bangladesh Agricultural Research Institute, Gazipur, Bangladesh, 18-20 February 2009.

10. S. Majumder and **A.H. Bhuiyan**, , Chemical structure and optical transitions in plasma polymerized vinylene carbonate thin films, Proceeding of the 21st Bangladesh Science Conference, Organized by the Bangladesh Association for the Advancement of Science (BAAS), Bangladesh Agricultural Research Institute, Gazipur, Bangladesh, 18-20 February 2009.
11. Rumman Matin and **A. H. Bhuiyan**, Direct current conduction mechanism in plasma polymerized 2, 6, diethylaniline thin films, Proceeding of the 21st Bangladesh Science Conference, Organized by the Bangladesh Association for the Advancement of Science (BAAS), Bangladesh Agricultural Research Institute, Gazipur, Bangladesh, 18-20 February 2009.
12. Rama Bijoy Sarker and **A. H. Bhuiyan**, Optical and structural properties of plasma polymerized 1- Benzyl-2-methylimidazole thin films, Proceeding of the 21st Bangladesh Science Conference, Organized by the Bangladesh Association for the Advancement of Science (BAAS), Bangladesh Agricultural Research Institute, Gazipur, Bangladesh, 18-20 February 2009.
13. Md. Ali Ashraf, Md. Tofazzal Hossain, M. A. Hakim and **A. H. Bhuiyan**, Effect of sintering time on microstructure and electrical properties of bismuth based ZnO varistors, Proceeding of the 21st Bangladesh Science Conference, Organized by the Bangladesh Association for the Advancement of Science (BAAS), Bangladesh Agricultural Research Institute, Gazipur, Bangladesh, 18-20 February 2009.
14. M. A. Gafur, H.Akter, S. Sharma and **A. H. Bhuiyan**, Thermal properties of natural fiber reinforced PVC composites, 4th BSME - ASME International Conference on Thermal Engineering Organised by the Bangladesh Society of Mechanical Engineers, Dhaka, Bangladesh, December 27-29,2008
15. H. Akter, M. A. Gafur, and **A. H. Bhuiyan**, Electrical properties of palm fiber reinforced PVC composites, 4th BSME - ASME International Conference on Thermal Engineering Organised by the Bangladesh Society of Mechanical Engineers, Dhaka, Bangladesh, December 27-29,2008
16. M. F. Mina N. Banu, R. Matin, M. J. Rahman, M. A. Gafur and **A. H. Bhuiyan**, Mechanical, Thermal and Electrical Properties of Polypropylene/White-Clay Composites, Bose Conference on Contemprorary Physics, LCPTF-9, March 19-21, p. 78 (2008).
17. M. J. Rahman, Shamima Choudhury, **A. H. Bhuiyan**, S. N. Rahman and A. H. Khan; Electrical Properties of Cerium Doped Barium Titanate; Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh (2007).
18. B. K. Sarker, A. B. M. O. Islam, F. Ahmed and **A. H. Bhuiyan**, Optical and dielectric properties of PVC, PVA and their blends, Annual Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, May 04-05, 2007.
19. Mustari Zaman and **A. H. Bhuiyan**, Electrical properties of plasma polymerized tetramethylorthosilicate thin films, Annual Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, May 04-05, 2007.

20. Tamanna Afroze and **A H Bhuiyan** Dielectric properties of Plasma Polymerized 1, 1, 3, 3 - Tetramethoxypropane Thin Film, International Conference Cum Workshop on Materials Science and Technology organised by the Department of Physics, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh on the occasion of Celebrating 60 years of Engineering Education in Bangladesh and Silver Jubilee of Postgraduate Program of the Department of Physics, December 02 - 04, 2007.
21. H. Akther, Jamal A. Syed and **A.H. Bhuiyan**, XPS analysis of plasma polymerized N, N, 3, 5, tetramethylaniline thin films, International Conference Cum Workshop on Materials Science and Technology organised by the Department of Physics, Bangladesh University of Engineering and Technology(BUET), Dhaka, Bangladesh on the occasion of Celebrating 60 years of Engineering Education in Bangladesh and Silver Jubilee of Postgraduate Program of the Department of Physics, December 02 - 04, 2007.
22. Z. H. Khan, M. Mahbubur Rahman, S. S. Sikder and **A. H. Bhuiyan**, Two step annealing time effect on magnetization process of Co-Fe based amorphous ribbons, Regional Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, February 11-13, 2006.
23. **A. H. Bhuiyan**, Organic polymer thin films prepared by electric glow discharge and study of their properties, **Invited Talk**, Regional Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, February 11-13, 2006.
24. Khan Alal Uddin, M. Mahbubur Rahman, S. S. Sikder and **A. H. Bhuiyan**, Effect of salinity on dynamic dielectric permittivity and conductivity of Sundari wood, Regional Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, February 11-13, 2006
25. Sangita Sharma, A. Gafur and **A. H. Bhuiyan**, DC electrical properties of PVC-sawdust composites, Regional Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, February 11-13, 2006.
26. H. Akther and **A.H. Bhuiyan**, Dielectric properties of plasma polymerized N, N, 3, 5, tetramethylaniline thin films, Regional Physics Conference Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, February 11-13, 2006
27. M.A. Badsha, F. Ahmed, A.B.M.O. Islam and **A.H. Bhuiyan**, Study of plasma-polymerized tetraethylorthosilicate thin film, Poster Session 1, Poster Group 5 Molecular Materials And Devices, AMN-2, 2nd International Conference on Advanced Materials and Nanotechnology, 6-11 February 2005, Queenstown, New Zealand.
28. Z. H. Khan, S. S. Sikder, M. Ali Asgar and **A. H. Bhuiyan**, The effect of annealing temperature on ac initial permeability of amorphous ribbon with composition $Co_{80-x} Fe_x B_{10} Si_{10}$ [x = 0, 2, 4, 6, and 8], International Conference on Physics for Understanding and Applications Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, February 22-24 2004.
29. H. Akther and **A.H. Bhuiyan**, I - V characteristics of plasma polymerized N, N, 3, 5, tetramethylaniline thin films, International Conference on Physics for Understanding and Applications Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, February 22-24 2004.

30. F. U. Z. Chowdhury and **A.H. Bhuiyan**, , plasma polymerized diphenyl (PPDP) film as ammonia and humidity sensor, Biennial Symposium on Physics and Modern Development Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, March 30-31 2002.
31. A. Razzak and **A.H. Bhuiyan**, , An investigation of the structural modification of PP-BWC composites, Biennial Symposium on Physics and Modern Development Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, March 30-31 2002.
32. F. U. Z. Chowdhury and **A.H. Bhuiyan**, , Preparation and DC conduction study of plasma polymerized diphenyl (PPDP) film, International Conference on Material Science and Technology Organised by the Bangladesh Physical Society, Dhaka, Bangladesh, March 23-25 1999.
33. **A.H. Bhuiyan**, P. L. Carr, J. Humphreys and G. R. Davies, Design and Fabrication of a Corona Triode Poling Rig, Proceeding of the 20th Bangladesh Science Conference, Organized by the Bangladesh Association for the Advancement of Science (BAAS), Bangladesh University of Engineering Technology, Dhaka, Bangladesh, 28-30 November 1998.
34. F.-U.-Z Chowdhury and **A. H. Bhuiyan**, Preparation and DC Conduction Study of Plasma-Polymerized diphenyl (PPDP) Thin Films Proceeding of 7th International Conference on Material Science and Technology, Dhaka, Bangladesh, 23-25 Oct. (1999) 124-127
35. F.-U.-Z Chowdhury and **A.H. Bhuiyan**, Design and Fabrication of a Capacitively coupled Plasma Polymerization System, Proceedings of the BAAS Conference, Dhaka, Bangladesh 28-30 November, 1998.
36. O. Islam, **A.H. Bhuiyan** and S. Ahmed, Preparation of Plasma Polymerized M-Xylene and Study of its Electrical Behaviour, Presented in the International Symposium on the 25th Birth Anniversary of GSW Theory, Dhaka, Bangladesh 19-24, April, 1992.
37. **A. H. Bhuiyan** and S. Ahmed, Preparation and Properties of Borosilicate Glass, Presented in the 3rd Annual BAAS Conference, Chittagong, Bangladesh, 1978, Abs. P-109.
38. **A.H. Bhuiyan** and S. Ahmed, An Investigation of the Mixed Alkali Effect in Brositicate Glass, Present in the Physics Symposium, Dhaka, Bangladesh, 1979, Abs. P-27.
39. **A. H. Bhuiyan** and S Ahmed, Thermally Stimulated Depolarization Current in Borosilicate Glass, Presented in the 4th & 5th Annual BAAS Conference, Rajshahi, Bangladesh, 1981.
40. **A. H. Bhuiyan** and S. V. Bhoraskar, Characterization of Plasma-Polymerized PAN for Photovoltaic Application, Presented in the National Seminar on electrical conduction in Organic Semi-conductors, Delhi, India, 1986.
41. **A. H. Bhuiyan** and S.V. Bhoraskar, ESR Study of thin films of plasma-polymerized acrylonitrile pyrolyzed at Different Temperatures, Presented in the Second National Seminar on Defects in Insulating Solids, Madras, India, 1988, Abs. 64.
42. **A.H. Bhuiyan** and S. V. Bhoraskar, Electrical and Optical properties of Plasma-Polymerized Polyacrylonitrile?, Presented in Research Student Seminar, University of Poona, Pune, India, 1986.

43. V. Manorama, **A.H. Bhuiyan** and S. V. Bhoraskar, Defects Study by Thermally Stimulated Exoelectron Emission in Gamma Irradiated alkali Halides, Presented in the Second National Seminar on Defects in Insulating solids, Madras, India, 1988, 65.
44. **A. H. Bhuiyan**, Plasma Polymerization: A Novel Method for Organic Thin Film Deposition, Presented in the 14th Bangladesh Science (BAAS) Conference, BRRI, Gazipur, Bangladesh, January 1989.
45. P.K. Bala, **A.H. Bhuiyan** and A. K. Roy, An Investigation of the Electrical Properties of Polyethylene-Nylon 66 Blend, Presented in the 14th Bangladesh, 5-7 July, 1991, p-15.
46. **A. H. Bhuiyan**, Preparation of Properties of Conducting Polymers, **Invited Talk** in the International Symposium on the 25th birth Anniversary of Glashow-Salam-Weinberg (GSW) theory and workshop on Physics, Dhaka, Bangladesh, 19-24 April, 1992.
47. N. Shaheen, **A.H. Bhuiyan** and S. Ahmed, Electrical Behaviour of LDPE-Nylon 6 Blends, presented in the International Symposium on the 25th Birth Anniversary of GSW Theory, Dhaka, Bangladesh, 1924 April, 1992.
48. F. Chowdhury and **A.H. Bhuiyan**, Effects of Heat Treatment on the Electrical properties of Bijoypur White Clay, presented in the 17th Bangladesh Science (BAAS) Conference, Salna, Bangladesh, 6-9 May, 1992, p-18.
49. **A. H. Bhuiyan** and S.V. Bhoraskar, Evidence of CTC Formation between iodine and plasma-polymerized acrylonitrile, Proceedings of the International Seminar on Recent Advances in Physics, January, 14-19, 1990, Dhaka, Bangladesh.
50. **A.H. Bhuiyan** and S.V.Bhoraskar, Suitability of plasma-polymerized polyacrylonitrile for photovoltaic application, in the Proceedings of the Symposium on Plasma Polymerization and Plasma Treatment of Polymers, Denver, USA, April, 1987.
51. **A. H. Bhuiyan**, Plasma-Polymerization of Organic Materials, in the Regional Workshop on Materials Science and Nuclear and Particle Physics, 5-10 February, 1994, Dhaka, Bangladesh.
52. **A.H.Bhuiyan** and M. Rahman, Thermally stimulated depolarization current in polyethylene polyamide 6 blends, International Symposium and Workshop on Bose Statistics and Recent Advances in Physics, 8-9 March, 1995, Dhaka, Bangladesh.
53. **A. H. Bhuiyan**, K. S. Hossain and S. Ahmed, Study of the DC electrical conductivity properties of LDPE and Polyamide 6 Blends, 18th Bangladesh Science Conference, Mymensing, Bangladesh, 21-23 June, 1994, 8.
54. **A.H. Bhuiyan**, Recent Trends in Polymer Science, Presented an Invited Lecture in the seminar in memory of late Prof. Dr. S. Ahmed, 13 November, 1995, Dhaka, Bangladesh.
55. S. Amin and **A. H. Bhuiyan**, A Study of the DC Electrical Properties of Polyvinylpyrrolidone-Lithium Hydroxide Complex, 19th bangladesh Science Conference, October, 1996, jahangir nagar University, Savar, Dhaka, Bangladesh.
56. A.B.M. Shah Jalal, S. Ahmed, **A.H.Bhuiyan** and M. Ibrahim, Electrical conduction in Heat treated plasma-Polymerized m-Xylene Thin Films, International Symposium on Recent Advances in Physics Organized by Bangladesh Physical society, 21-23 March, 1997, Dhaka, Bangladesh.

57. A.B.M. Shah Jalal, S. Ahmed, **A.H.Bhuiyan** and M. Ibrahim, Thermally Stimulated Current Measurement of Plasma-Polymerized m-Xylene Thin Films, International Symposium on Recent Advances in Physics Organized by Bangladesh Physical Society, 21-23 March, 1997, Dhaka, Bangladesh.
8. A.B.M. Shah Jalal, S. Ahmed, **A.H.Bhuiyan** and M. Ibrahim, ?Degradation of Plasma-Polymerized m-Xylene Thin Films, International Symposium on Recent Advances in Physics Organized by Bangladesh Physical Society, 21-23 March, 1997, Dhaka, Bangladesh.
59. S. J. Ahmed and **A.H. Bhuiyan**, UV-Vis and TSDC Study of Polypropylene-Hydrous magnesium Silicate Composite, International Symposium on Recent Advances in Physics Organized by Bangladesh Physical Society, 21-23 March, 1997, Dhaka, Bangladesh.
60. Mehnaz Sharmin, **A. H. Bhuiyan**, *INFLUENCE OF BORON DOPING ON THE STRUCTURAL PROPERTIES OF ZNO THIN FILMS DEPOSITED BY SPRAY PYROLYSIS TECHNIQUE*, National Conference on Physics Research and Education in Bangladesh, Dhaka, 2015.
61. Meherun Nesa, Mehnaz Sharmin, **A. H. Bhuiyan**, EFFECT OF ZINC DOPING ON STRUCTURE AND PROPERTIES OF CUO THIN FILMS SYNTHESIZED BY SPRAY PYROLYSIS TECHNIQUE, International Conference on Physics-2016, (Awarded one of the best 10 posters in the conference).
62. M. J. Rahman and A. H. Bhuiyan, Optical and AC Electrical Properties of Plasma Polymerized o-methoxyaniline Thin Films, Shizuoka University International Symposium 2011, 28- 29 November, 2011, Shizuoka, Japan.

v) Books

1. Uchchamadhyamic Padartha Bignan vol-1 and vol-2