

CURRICULUM VITAE



Dr. M. A. Majeed Khan

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Present Position: *Assistant Professor*, King Abdullah Institute for Nanotechnology,
King Saud University, Riyadh-11451, Kingdom of Saudi Arabia

ACADEMIC QUALIFICATIONS:

Ph.D. (PHYSICS) [Exp. Condensed Matter Physics]	Department of Physics, Jamia Millia Islamia (A Central University), New Delhi, India	2003
M. Sc (PHYSICS) [Material science]	Department of Physics, Jamia Millia Islamia New Delhi, India	1998
B. Sc. (Phys, Chem, Maths)	MJP Rohelkhand University, Bareilly, U.P. India	1996

Ph.D. Title: "Estimation of the density of localized states in chalcogenide glasses from electrical Properties"

Scholarship award

- ✓ Worked as a Project Assistant in U.G.C. project from Jamia Millia Islamia, (Jan. 1999 - Sep. 2001).

Professional experience

- (a) **Teaching Experience** : 6 Years
- ✓ Guest Faculty in the Department of Bio-Sciences, JMI, New Delhi for the session 2005-2008.
 - ✓ Guest Faculty in the Department of Applied Sciences and Humanities, F/O Engineering and Technology, Jamia Millia Islamia, New Delhi, India, for the session 2002-2004.
- (b) **Research Experience** : 15 Years

AREAS OF RESEARCH INTEREST

- ❖ Materials science (Amorphous Semiconducting thin film)
- ❖ **Nanostructured Materials**
- ❖ **Solar Cell**
- ❖ Nanocomposites

PUBLICATIONS

- ☛ Papers Published in National/International Journals : 75
 - ☛ Research papers Communicated in International Journals : 05
 - ☛ Research papers presented in Conferences/Symposia/Workshops : 21
- } **(Please see Appendix)**

REVIEWER FOR INTERNATIONAL JOURNALS

- ❖ Physica B
- ❖ Journal of Magnetism and Magnetic Materials
- ❖ Journal of Alloys and Compounds
- ❖ Nano-Micro letters
- ❖ Philosophical Magazine letter
- ❖ Journal of Physics and Chemistry of Solids
- ❖ Materials Science in Semiconductor Processing

MEMBERSHIP OF ACADEMIC SOCIETIES

- ☼ Life member of Semiconductor Society of India, New Delhi
- ☼ Life member of American Nano Society, U.S (Membership ID: **1393408**)
- ☼ Editorial Board Member: Advanced Research in Analytical Chemistry
- ☼ Editorial Board Member: International Journal of Metallurgical & Materials Engineering
- ☼ Editorial Board Member: American Journal of Materials Synthesis and Processing
- ☼ Editorial Board Member: Journal of Modern Materials

RESEARCH PROJECTS (Principle Investigator)

“Investigation of Nanostructured Si, In₂O₃ CuInS₂, and Cu₂ZnSnS₄ (CZTS), thin films for Photovoltaic / Solar Cell Applications” funded by Ministry of Higher Education, King Abdul Aziz City for Science and Technology, Riyadh, Kingdom of Saudi Arabia. (2010 to 2012)

MASTERS STUDENTS UNDER SUPERVISION/SUPERVISED

1. **Co-supervisor:- Mohammed. S. Al Sobaie**, Physics and Astronomy Department, College of Science, King Saud University, P.O. Box 2455, Riyadh 11451, Saudi Arabia, (Sept. 2013-2015).

Title of dissertation: The measurement of refractive and reflective parameters of various geometrical light collectors for high-efficiency solar cell

EXPERIMENTAL SKILLS

- ☐ Bulk samples preparation by melt-quenching techniques
- ☐ Thin film deposition by vacuum evaporation technique
- ☐ X-ray diffraction (XRD) and Small angle x-ray scattering (SAXS) [Model: PANalytical X'Pert]
- ☐ Transmission electron microscope (FE-TEM) [JEOL, JEM-2100F]
- ☐ Scanning electron microscope (FE-SEM) [JEOL, JSM-7600F]
- ☐ Four probe electrical resistivity measurements upto liquid Helium temperature
- ☐ Atomic force microscopy (AFM) [Veeco]
- ☐ Dielectric measurements
- ☐ Optical measurements
- ☐ Thermal Properties
- ☐ Raman Spectroscopy

PRESENTATIONS

- ❖ Presentation in “National Conference on Materials and Semiconductor Technologies in Electronics Research (MASTER)” “*Optical & Electrical Properties of a-Se_{100-x}Sb_x films*” held at G. B. Pant University, Pantnagar, India, during the period November 8-10, 2000..
- ❖ Presentation in “National Conference on SMART” “*Study of density of localized states of a-Se_{100-x}Bi_x using SCLC Measurement*” held at G. B. Pant University, Pantnagar, India, during the period November 11-13, 1999.
- ❖ Presentation in “National Seminar on Materials and Devices (MD-2002),” “*Low Temperature hopping conduction in amorphous Se₇₅In_{25-x}Pb_x*” held at M. J. P. Rohilkhand University, Bareilly, U. P., India, during the period March 9-10, 2002.

COMPUTER LITERACY

- MS Word, Power Point, Paint etc
- DOS
- Origin, Excel
- Powder X

PERSONAL DETAILED

Father's Name : Mr. Mohammad Abdul Hai Khan
Nationality : Indian

Place: Riyadh, Kingdom of Saudi Arabia
Date: October 7, 2012

(Dr. M. A. Majeed Khan)

2017

75. Microstructural properties and enhanced photocatalytic performance of Zn doped CeO₂ nanocrystals: **M. A. Majeed Khan**, Wasi Khan, Maqsood Ahamed Abdulaziz N. Alhazaa: **Scientific Reports** 7 (2017) 12560
74. Mechanism of Enhanced Carbon Substitution in CNT-MgB₂ Superconductor Composite Using Ball Milling in a Methanol Medium: Positive Role of Boron Oxide: Fahad Saad Alghamdi, M. Shahabuddin, Nasser S. Alzayed Niyaz Ahamad Madhar, Jafar M. Parakkandy, **M. A. Majeed Khan**, Aslam Khan, Md. Shahriar Al Hossain: **J. Superconductivity and Novel Magnetism** DOI 10.1007/s10948-017-4279-y
73. Nanocubes of indium oxide induce cytotoxicity and apoptosis through oxidative stress in human lung epithelial cells: Maqsood Ahamed, Mohd Javed Akhtar, **M.A. Majeed Khan**, Hisham A. Alhadlaq, Ali Aldalbahi: **Colloids and Surfaces B: Biointerfaces** 156 (2017) 157-164

2016

72. Cobalt iron oxide nanoparticles induce cytotoxicity and regulate theapoptotic genes through ROS in human liver cells (HepG2): Maqsood Ahamed, Mohd Javed Akhtar, **M.A. Majeed Khan**, Hisham A. Alhadlaq, Aws Alshamsan: **Colloids and Surfaces B: Biointerfaces** 148 (2016) 665–673
71. Role of Zn doping in oxidative stress mediated cytotoxicity of TiO₂ nanoparticles in human breast cancer MCF-7 cells: Maqsood Ahamed, **M.A. Majeed Khan**, Mohd Javed Akhtar, Hisham A. Alhadlaq and Aws Alshamsan: **Scientific Reports: 6 (2016)** 30196
70. CdS quantum dots: growth, microstructural, optical and electrical characteristics: Tansir Ahamad, **M. A. Majeed Khan**, Sushil Kumar, Maqsood Ahamed, Mohammed Shahabuddin and Abdulaziz N. Alhazaa: **Applied Physics B (2016)** 122:179
69. Thickness-Dependent Structural and Optoelectronic Properties of In₂O₃ Films Prepared by Spray Pyrolysis Technique: **M.A. Majeed Khan** and Wasi Khan: **Journal of Electronic Materials** 45 (2016) 4453-4459
68. Modes of tetra (4 - pyridyl) porphyrinato manganese (III) ion intercalation inside natural clays: Ahed Zyoud, Waheed Jondi, Waseem Mansour, **M. A. Majeed Khan** and Hikmat S. Hilal1: **Chemistry Central Journal** 10 (2016) 12 DOI 10.1186/s13065-016-0153-4
67. Band-gap tuning of lead halide perovskite using a single step spin-coating deposition process: Saif M. H. Qaid, Mohammed. S. Al Sobaie, **M.A. Majeed Khan**, Idriss M. Bedjae, Fahhad. H. Alharbid, Mohammad Khaja Nazeeruddin, Abdullah S. Aldwayyan: **Materials Letters** 164 (2016) 498–501

2015

66. Aluminum doping tunes band gap energy level as well as oxidative stress-mediated cytotoxicity of ZnO nanoparticles in MCF-7 cells: Javed Akhtar, Hisham Alhadlaq, Aws Alshamsan, **M.A. Majeed Khan**, and Maqsood Ahamed: *Scientific Reports* 5 (2015) 13876 DOI: 10.1038/srep13876
65. Fe-doping induced tailoring in the microstructure and optical properties of ZnO nanoparticles synthesized via sol-gel route: **M. A. Majeed Khan**, Sushil Kumar, Maqsood Ahamed, Salman A. Alrokayan: *Journal of Materials Science: Materials in Electronics* 26 (2015) 6113-6118.
64. Antioxidative and cytoprotective response elicited by molybdenum nanoparticles in human cells: Mohd Javed Akhtar, Maqsood Ahamed, Hisham A Alhadlaq, Aws Alshamsan, **M. A. Majeed Khan**, Salman A Alrokayan: *Journal of Colloid and Interface Science* 457 (2015) 370-377.
63. Comparative cytotoxic response of nickel ferrite nanoparticles in human liver HepG2 and breast MCF-7 cancer cells: Ahamed M, Alhadlaq HA, Akhtar MJ, **M. A. Majeed Khan**: *Chemosphere* 135 (9) (2015) 278-288.
62. Glutathione replenishing potential of CeO₂ nanoparticles in human breast and fibrosarcoma cells: Mohd Javed Akhtar, Maqsood Ahamed, Hisham Alhadlaq, **M.A. Majeed Khan**, Salman Alrokayan: *Journal of Colloid and Interface Science* 453 (9) (2015) 21-27.
61. Cytotoxic Response of Platinum-Coated Gold Nanorods in Human Breast Cancer Cells at Very Low Exposure Levels: Maqsood Ahamed, Mohd Javed Akhtar, **M. A. Majeed Khan**, Hisham A. Alhadlaq, Salman A. Alrokayan: *Environmental Toxicology* 30 (2015) 169-173.
60. Structural, electrical and optical properties of nanocrystalline silicon thin films deposited by pulsed laser ablation: **M.A. Majeed Khan**, Sushil Kumar, Maqsood Ahamed: *Materials Science in Semiconductor Processing* 30 (2015) 169-173.

2014

59. Microstructure and blue shift in optical bandgap of nanocrystalline Al_xZn_{1-x}O thin films: **M. A. Majeed Khan**, Sushil Kumar, M. Naziruddin Khan, Maqsood Ahamed, A.S. Al Dwayyan: *Journal of Luminescence* 155 (2014) 275-281.
58. Comparative Study on Electronic, Emission, Spontaneous property of Porous Silicon in different Solvents; Muhammad Naziruddin Khan, **M. A. Majeed Khan**, Abdullah S. Aldwayyan, and J. Puzon Labis; *Journal of Nanomaterials* 10 (2014) 682571 DOI: 10.1155/2014/682571
57. Synthesis, Characterization, and Antimicrobial Activity of Copper Oxide Nanoparticles; M. Ahamed, H. A. Alhadlaq, **M. A. Majeed Khan**, P. Karuppiah, and Naif A. Al-Dhabi; *Journal of Nanomaterials* 10 (2014) 637858 DOI: 10.1155/2014/637858

56. Microstructure and optical characterization of nanometric silicon films prepared by pulsed laser ablation” **M. A. Majeed Khan**, Sushil Kumar, Maqsood Ahamed; **Journal of Modern Optics** 61 (2014) 504-508.
55. Optical and Electrical Investigations of a-GaTe Nanoparticles Thin Films Prepared by Inert Gas Condensation Technique; Sushil Kumar, **M.A. Majeed Khan** ; **Journal of Optoelectronics and Advanced Materials** 8 (2014) 1096-1099.

2013

54. Synthesis and characteristics of spray deposited CuInS₂ nanocrystals thin films for photovoltaic applications” **M. A. Majeed Khan**, Sushil Kumar, M. S. Al-Salhi; **Materials Research Bulletin** 48 (2013) 4277-4282.
53. Iron oxide nanoparticles induce oxidative stress mediated genotoxicity in two different human cell lines; M. Ahamed, H. A. Alhadlaq, **M. A. Majeed Khan**, J. Alam, D. Ali, S. Alarafi; **Current Pharmaceutical Design** 19(37) (2013) 6681-6690
52. Morphological, optical and DC conduction properties of a-GaSe semiconductor nanoparticles thin films; Sushil Kumar, **M. A. Majeed Khan**; **J. Mater. Sci. Technol.**, 29(12) (2013) 1151-1155.
51. Spray pyrolysed Cu₂ZnSnS₄ absorbing layer: A potential candidate for photovoltaic Applications; **M. A. Majeed Khan**, Sushil Kumar, Mansour Alhoshan, A.S. Al Dwayyan; **Optics & Laser Technology** 49 (2013) 196-201.
50. Crystallite structural, electrical and luminescent characteristics of thin films of In₂O₃ nanocubes synthesized by spray pyrolysis ; **M.A. Majeed Khan**, Wasi Khan, Maqsood Ahamed, M.S. Al-Salhi and Tansir Ahmed; **Electronic Materials Letters** 9 (2013) 53-57.

2012

49. Morphology and non-isothermal crystallization kinetics of CuInS₂ nanocrystals synthesized by solvo-thermal method; **M. A. Majeed Khan**, Sushil Kumar, M. S. Alsalhi, Maqsood Ahamed, Mansour Alhoshan, Salman A. Alrokayan and Tansir Ahmed; **Materials Characterization** 65 (2012) 109.
48. Nanoporous characteristics of sol-gel-derived ZnO thin film; A. A. Ansari, **M. A. Majeed Khan**, M. Alhoshan, S. A. Alrokayan, M. S. Alsalhi; **J. of Semiconductors** 33 (2012) 4.
47. Structural and optical properties of In₂O₃ nanostructured thin film; **M.A. Majeed Khan**, Wasi Khan, Maqsood Ahamed, Mansour Alhoshan; **Materials Letters** 79 (2012) 119.
46. Schottky barrier junction of gold with lead chalcogenide: Growth and Characteristics; Sushil Kumar & **M.A. Majeed Khan**; **Chalcogenide letters** 9 (2012) 99.

45. Structural and electrical properties of spray deposited thin films of CuInS₂ nanocrystals; **M. A. Majeed Khan**, Sushil Kumar, M. Ahamed, M. S. AlSalhi; **Materials Letters** 68 (2012) 497.
44. Structural and spectral investigations of Rhodamine (Rh₆G) dye-silica core-shell nanoparticles; A. S. Al Dwayyan, Saif M. H. Qaid, **M A Majeed Khan**, and M. Al Salhi; **Optical Materials** 34 (2012) 761–768.
43. Non-isothermal kinetic analysis on the crystallization process in Se-S glassy system”; Nadeem Musahwar, Wasi Khan, M. Husain, M. Zulfequar and **M.A. Majeed Khan**; **J. Therm. Anal. Calorim.** 110 (2012) 823–829.
42. Optical properties of amorphous Se₉₄Te₆ and Se₉₁Te₉ thin films deposited by thermal evaporation; Sushil Kumar and **M. A. Majeed Khan**; **Chalcogenide letters** 9 (2012) 145.
41. Cytotoxicity and Apoptosis Induction by Nano-Scale Talc Particles from Two Different Geographical Regions in Human Lung Epithelial Cells; Mohd Javed Akhtar, Maqsood Ahamed, **M. A. Majeed Khan**, Salman A. Alrokayan , Iqbal Ahmad, Sudhir Kumar; **Environmental Toxicology** 29 (2014) 394-406
40. Nickel oxide nanoparticles induce cytotoxicity, oxidative stress and apoptosis in cultured human cells that is abrogated by the dietary antioxidant curcumin; Maqsood A. Siddiqui , Maqsood Ahamed, Javed Ahmad, **M.A. Majeed Khan**, Javed Musarrat, Abdulaziz A. Al-Khedhairi, Salman A. Alrokayan; **Journal of Food and Chemical Toxicology** 50 (2012) 641.
39. Zinc oxide nanoparticles selectively induce apoptosis in human cancer cells through reactive oxygen species”; Mohd Javed Akhtar, Maqsood Ahamed, Sudhir Kumar, **M.A. Majeed Khan**, Javed Ahmad, Salman A. Alrokayan; **International Journal of Nanomedicine** 7 (2012) 845.
38. Selective killing of cancer cells by iron oxide nanoparticles mediated through reactive oxygen species via p53 pathway; Maqsood Ahamed, H. A. Alhadlaq, **M. A. Majeed Khan**, Mohd. Javed Akhtar; **J Nanopart Res** 14 (2012) 1225

2011

37. Structural and spectroscopic studies of thin film of silver nanoparticles” **M. A. Majeed Khan**, Sushil Kumar, Maqsood Ahamed, Salman A. Alrokayan, M S AlSalhi, Mansour Alhoshan and A.S. Aldwayyan; **Applied Surface Science** 257 (2011) 10607.
36. Thermal Properties of Se_{100-x}Zn_x Glassy System; Mohd Nasir, **M. A. Majeed Khan**, M. Husain, M. Zulfequar; **Materials Sciences and Applications** 2 (2011) 289-298.
35. Optical and electrical properties of electrochemically deposited polyaniline/CeO₂ hybrid nanocomposite film; Anees A. Ansari, **M. A. Majeed. Khan**, M. Naziruddin Khan, Salman A. Alrokayan, M. Alhoshan, and M. S. Alsalhi; **Journal of Semiconductors** 32 (2011) (4).

34. Structural and thermal studies of silver nanoparticles and electrical transport study of their thin films; **M. A. Majeed Khan**, S. Kumar, M. Ahamed, Salman A. Alrokayan, M.S. AlSalhi; *Nanoscale Research Letters* **6** (2011) 434.
33. Green synthesis, characterization and evaluation of biocompatibility of silver nanoparticles; Maqusood Ahamed, **M. A. Majeed Khan**, M.S. AlSalhi, S. A. Alrokayan; *Physica E* **43** (2011) 1266.

2010

32. Influences of Co doping on the structural and optical properties of ZnO nanostructured; **M. A. Majeed Khan**, M. Wasi Khan, Mansour Alhoshan, M.S. AlSalhi, and A.S. Aldwayyan; *Applied Physics A* **100** (2010) 45 (Rapid Communication).
31. Structural, optical and electrical characterization of Selenium sulphide nanostructured thin film; **M.A. Majeed Khan**, M. Wasi Khan, Mansour Alhoshan, M.S. AlSalhi, A.S. Aldwayyan and M. Zulfeqar; *Materials Letters* **64** (2010) 1929.
30. Small polaron hopping conduction in Ni doped LaFeO₃; M. Wasi Khan, Shahid Husain, **M.A. Majeed Khan**, Maneesha Gupta, Ravi Kumar and J.P. Srivastava; *Philosophical Magazine* **90** (2010) 3069.
29. Influence of Pb doping on the structural, optical and electrical properties of nanocomposite Se-Te thin films"; **M.A. Majeed Khan**, M. Wasi Khan, Mansour Alhoshan, M.S. AlSalhi, A.S. Aldwayyan and M. Zulfeqar; *J. Alloys Compd.* **503** (2010) 397.
28. Influence of 190 MeV Ag⁺¹⁵ ion irradiation on electrical transport and magnetic properties of LaFe_{1-x}Ni_xO₃ (x=0.3 and 0.4) thin films; M. Wasi Khan, **M. A. Majeed Khan**, Ravi Kumar, Mansour Alhoshan, M.S. AlSalhi, A.S. Aldwayyan and Shahid Husain; *J. Appl. Phys.* **107** (2010) 093704.
27. Electrical transport mechanisms in a-Se₉₅M₅ films (M = Ga, Sb, Bi); **M.A. Majeed Khan**, S. Kumar, M. Wasi Khan, M. Husain, M. Zulfeqar; *Materials Research Bulletin* **45** (2010) 727.

2009

26. Electrical transport and optical properties of Zn doped Bi-Se chalcogenide glasses; **M.A. Majeed Khan**, M. Wasi Khan, M. Husain and M. Zulfeqar; *J. Alloys and Compound* **486** (2009) 876.
25. Solubility of Co clusters in Co-implanted ZnO thin films by 200 MeV Ag¹⁵⁺ ions irradiation; M. Wasi Khan, Ravi Kumar, **M.A. Majeed Khan**, Basavaraj Angadi, Y.S. Jung, W.K. Choi and J.P. Srivastava; *Semicond. Sc. Technol.* **24** (2009) 095011.
24. Effect of laser irradiation on thermal and optical properties of selenium – tellurium alloy; Adam A. Bahishti, **M. A. Majeed Khan**, B.S. Patel, F.S. Al-Hazmi, M. Zulfeqar; *J. of Non-Crystalline Solids* **355** (2009) 2314.

23. Optical properties of Selenium – Tellurium nanostructured thin films grown by thermal evaporation; K. Tripathi, Adam A. Bahishti, **M. A. Majeed Khan**, M. Husain, M. Zulfeqar; **Physica B** 404 (2009) 2134.
22. Dielectric studied on a-Se_{100-x}Bi_x system”; **M. A. Majeed Khan**, Sushil Kumar M. Husain & M. Zulfeqar; **J. of Non-oxide glasses** 1 (2009) 71.
21. Structural and Optical Properties of NanocrystallineSe_{0.8}Te_{0.2}; **M. A. Majeed Khan**, M. Wasi Khan; **Chalcogenide letters** 6 (2009) 213.

2008

20. The effect of annealing on the electrical conduction of amorphous Bi_{0.5}Se_{99.4}Zn_{0.1} thin films; **M. A. Majeed Khan**, Sushil Kumar, M. Husain, M. Zulfeqar; **Materials Letters** 62 (2008) 1572.

2007

19. Thermal properties of Selenium-Bismuth glassy alloys; **M.A. Majeed Khan**, Sushil Kumar, M. Husain & M. Zulfeqar; **Chalcogenide Letters** 4 (2007) 147.
18. Optical, Structure and electrical investigation on PbTe_{1-x}S_x alloys; Sushil Kumar, **M. A. Majeed Khan**, M. Husain & M. Zulfeqar; **J. of Materials Science** 42 (2007) 363.
17. Effect of laser irradiation on optical properties of Se-Ga thin films; Adam A. Bhashti, **M. A. Majeed Khan**, M. Husain & M. Zulfeqar; **Chalcogenide letters** 4 (2007) 155.
16. Electrical conductivity and relaxation of Se_{90-x}S₁₀In_x glasses; Nadeem Musahwar, **M. A. Majeed Khan**, M. Husain and M. Zulfeqar ; **Applied Physics D** 40 (2007) 7787.
15. Dielectric Properties of Se_{100-x}S_x glassy alloys; Nadeem Musahwar, **M. A. Majeed Khan**, M. Husain and M. Zulfeqar; **Physica B** 396 (2007) 81.

2005

14. High field conduction mechanism and dielectric properties of Se_{78-x}Te₂₂Bi_x Alloys; **M. A. Majeed Khan**, M. Zulfeqar & M. Husain; **Physica B** 366 (2005) 1.
13. Studies on thin films of Leads Chalcogenide; Sushil Kumar, Z. H. Khan, **M. A. Majeed Khan** & M. Husain; **Current Applied Physics** 5 (2005) 561.

2004

12. Study of density of localized states of a-Ga_xSe_{100-x} alloys using SCLC measurements; Shagufta B. Husain, **M. A. Majeed Khan**, M. Zulfeqar & M. Husain; **Current Applied Physics** 4 (2004) 445.
11. Conduction Mechanism in a-Se₇₅In_{25-x}Pb_x films; **M. A. Majeed Khan**, M. Zulfeqar, A. Kumar & M. Husain; **Materials Chemistry & Physics** 87 (2004) 179.

10. Study of Vacuum Evaporated $\text{PbS}_{1-x}\text{Se}_x$ thin films"; Sushil Kumar, **M. A. Majeed Khan**, Shamshad A. Khan, M. Husain; **Optical Material** 25 (2004) 25.

2003

09. Study of density of localized states of a- $\text{Se}_{80}\text{Te}_{20-x}\text{Pb}_x$ films by space charge limited conduction measurement; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Material Letters** 57 (2003) 2894.
08. Optical Band Gap and Optical Constant of a- $\text{Se}_{100-x}\text{Sb}_x$ films; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Journal of Modern Optics** 50 (2003) 251.
07. Space Charge Limited Conduction in a- $\text{Bi}_{0.5}\text{Se}_{99.5-x}\text{Zn}_x$ alloys; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Material Science Letter** 22 (2003) 61.
06. Optical Investigation of a- $\text{Se}_{100-x}\text{Bi}_x$ alloys; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Optical Material** 22 (2003) 21.
05. Low temperature hopping conduction a- $\text{Ga}_5\text{Se}_{95-x}\text{Sb}_x$ alloys; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Solid State Communication** 125 (2003) 213.

2002

04. Electrical Transport Properties of a- $\text{Se}_{78-x}\text{Te}_{22}\text{Bi}_x$ alloys; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **J. Material Science** 37 (2002)1.
03. Electrical conduction mechanics of a- $\text{Se}_{80}\text{In}_{20-x}\text{Pb}_x$ thin films; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Current Applied Physics** 2 (2002) 401.
02. Estimation of Density of Localized State of a- $\text{Se}_{100-x}\text{Bi}_x$ from dc conductivity measurement; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Physica B** 322 (2002) 1.

2001

01. Estimation of Density of Localized State of a- $\text{Se}_{100-x}\text{Sb}_x$ using electrical properties; **M. A. Majeed Khan**, M. Zulfequar & M. Husain; **Physics & Chemistry of Solids** 62 (2001) 1093.

Papers in Conferences / Symposia/Workshops

1. "Microstructure and optical characterization of nanometric silicon thin films prepared by pulsed laser ablation for solar cell applications" International Conference on Nanoscience and nanotechnology (ICNN-2013), Nov. 18-20, 2013, held at Babasaheb Bhimrao Ambedkar University, Lucknow, India

2. "Thickness Dependence of structural and Optical properties of nanostructured In_2O_3 thin prepared by spray pyrolysis" 3rd International Advances in Applied Physics & Materials Science Congress, (APMAS 2013), April 24-28, 2013, held at Antalya, Turkey
3. "Spray-deposited CuInS_2 nanocrystalline thin film suitable for solar cells" International Conference and Exhibition on Nanotechnology & Nanomedicine, March 12-14, 2012 Omaha Marriott, USA
4. "Structural, optical and electrical investigations on spray deposited $\text{Cu}_2\text{ZnSnS}_4$ films" Second International Symposium on Semiconductor Materials & Devices, Jan. 31-Feb. 02, 2013, held at University of Jammu, Jammu.
5. "Investigations on CuInS_2 thin films prepared by spray pyrolysis for photovoltaic applications" International Conference on Advances in Materials and Processing: Challenges and Opportunities, Nov. 02-04, 2012, held at I.I.T., Roorkee.
6. "Characterization of spray deposited CuInS_2 nanocrystalline thin films" International Conference on Frontiers in Nanoscience, Nanotechnology and their Applications, Feb. 16-18, 2012, held at Panjab University, Chandigarh.
7. "Morphological and optical properties of thin films of amorphous GaSe nanoparticles" International Conference on Nanomaterials & Nanotechnology, Dec. 18-21, 2011, held at University of Delhi, Delhi.
8. "Effect of Crystallization on Optical properties of $\alpha\text{-Ge}_5\text{Se}_{95-x}\text{Te}_x$ " Workshop on Physics of Semiconductor, during December 2011, held in the Department of Physics, IIT, Delhi, India. Volume 2, Page No. 1300-1303.
9. "Effect of selenium and tellurium doping in lead sulphide thin films" XV International Workshop on Physics of Semiconductor Devices, Dec. 15-19, 2009, held at Jamia Millia Islamia, New Delhi.
10. Dielectric Relaxation Studies in $\alpha\text{-Se-Te-Ga}$ System" Proceedings of the XIII International Workshop on the Physics of Semiconductor Devices, 2005, held at NPL, New Delhi, Volume I, page 1457.
11. Dielectric Properties of Se-S Glassy Alloys" Proceedings of the XIII International Workshop on the Physics of Semiconductor Devices, 2005, held at NPL, New Delhi, Volume I, Page 1453-1456.
12. Differential Scanning Calorimetry Study of $\text{Se}_{100-x}\text{Bi}_x$ Glasses" Proceedings of the XIII International Workshop on the Physics of Semiconductor Devices, 2005, held at NPL, New Delhi, Vol I, Page No. 1449-1452.
13. Kinetics Study of $\alpha\text{-Se}_{80}\text{Te}_{20-x}\text{Pb}_x$ using non-isothermal crystallization. Proceeding of twelfth International Workshop on Physics of Semiconductor, 2003, held at IIT, Delhi, Volume 1 Page No. 316-318.
14. Attend Workshop on Nanotechnology, (March 11-12, 2003), held at Jamia Millia Islamia , New Delhi-25

15. High field conduction in a-Bi_{0.5}Se_{99.5-x}Zn_x films” Proceedings of the XII International Workshop on the Physics of Semiconductor Devices, 2003, held at Chennai, India, Vol I, Page No. 319.
16. “Thermal Properties of a-Se_{100-x}Bi_x Glasses” Proceeding of (BSME-ASME)-International Conference on Thermal Engg., 2002, held at Department of Mechanical Engg. DUET, Dhaka, Bangladesh Page No. 690.
17. Crystallization studies in a-Bi_{0.5}Se_{99.5-x}Zn_x glasses using electrical conductivity measurements Presented in National Seminar on Materials and Devices, (March 9-10, 2002, held at M. J. P. Rohilkhand University, Bareilly, U. P.).
18. Attend Workshop on Nanomaterials (November 01,2002), held at Jamia Millia Islamia , New Delhi-25
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