Publications

1- Effect of phase transition on the optical properties of $In_{x}Se_{1-x}$ thin film.

*Falah I. Mustafa*, Akshay Kumar, N. Goyal, S.K. Tripathi.

3rd International conference on amorphous and nanostructure chalcogenides
Brasov Romania, July 2-6 2007.


2- Temperature dependence of the energy gap, refractive index and optical-oscillator parameters of amorphous $Ga_{x}Se_{1-x}$ ($x = 0.4, 0.5, 0.6$) thin films.

*Falah I. Mustafa*, S. Gupta, N.Goyal, S. K. Tripathi


3- Laser induced changes on $a-Ga_{50}Se_{50}$ thin films

S.K. Tripathi, Shikha Gupta, *Falah I. Mustafa*, N. Goyal and G.S.S. Saini

Journal of Physics D (Submitted after revision) 2009

4- Effect of temperature on the optical parameters of $a$-$SbSe$ thin films.

*Falah I. Mustafa*, Shikha Gupta, N. Goyal, S. K. Tripathi

Journal of Non-Crystalline Solids (Communicated) 2009

5- Effect of In concentration on the electrical properties of InSe alloy.

*Falah I. Mustafa*, Shikha Gupta, N. Goyal and S. K. Tripathi

Applied Surface Science (Communicated) 2009

6- Temperature dependent optical parameters of $MSe$ ($M=In, Ga, Sb$) thin films.

S. K. Tripathi, *Falah I. Mustafa*, Shikha Gupta and N. Goyal

Philosophical Magazine B (Communicated) 2009

7- Irradiation induced effects on the optical constants of $a$-$GaSe$ thin films.

S.K. Tripathi, Shikha Gupta, *Falah I. Mustafa*, N. Goyal and G.S.S. Saini

Thin solid films (Communicated) 2009
Papers in International & National conferences and symposia

1- Determination of optical constants of amorphous InSe thin films.
   **Falah. I. Mustafa, Shikha Gupta, N. Goyal, S.K. Tripathi.**
   National conference on recent advances in material science, ‘RAMS-06’ Sept. 27-29, 2006. Kurukshetra University Kureshetra, India.

2- Preparation and characterization of diamond like carbon thin films.
   **S.K. Tripathi, S. Gupta, J. Sharma, Falah. I. Mustafa, N. Goyal, G.S.S. Saini.**
   1st Chandigarh science congress, March 10-11, 2007, Panjab University, Chandigarh 160 014, India.

3- Effect of In on the optical constants of amorphous InSe thin films.
   **Falah. I. Mustafa, Akshay Kumar, N. Goyal and S.K. Tripathi**
   1st Chandigarh science congress, March 10-11, 2007, Panjab University, Chandigarh, 160 014, India.

4- Electrical properties of amorphous Ga₃₅Se₁ₓ thin films (x=40, 50, 60)
   **Falah. I. Mustafa, N. Goyal, S. K. Tripathi**
   Proceedings of the national conference on recent advances in innovative material- RAIM-08, February 16-17, 2008, NIT Hamirpur, India.

5- Determination of optical constants in a-(GeₓSe₉₀)₉₀Ag₁₀ Thin films
   **Akahay Kumar, Falah. I. Mustafa, Shikha Gupta and S. K. Tripathi.**
   Proceedings of the national conference on recent advances in innovative material- RAIM-08, February 16-17, 2008, NIT Hamirpur, India.

6- Photo bleaching in a-Ga₅₀Se₃₀ thin films.
   **S. Gupta, Falah. I. Mustafa, A. Kumar, N. Goyal, G.S.S. Saini and S.K.Tripathi.**
   Proceedings of the national conference on recent advances in innovative material- RAIM-08, February 16-17, 2008, NIT Hamirpur, India.
7- Transit Time measurements of charge carriers in amorphous Indium Selenide films by TOF techniques.

_Falah. I. Mustafa, N. Goyal, S. K. Tripathi_
Chascon- 2008-2nd Chandigarh science congress, March 14-15 2008, Chandigarh, India

8- Optical constants of \((\text{Ge}_{20}\text{Se}_{80})_{90}\text{Ag}_{10}\) thin films.

_Akshay Kumar, Falah. I. Mustafa, Shikha Gupta and S.K. Tripathi._
Chascon- 2008-2nd Chandigarh science congress, March 14-15 2008, Chandigarh, India

9- Temperature dependence of the energy gap, refractive index and optical-oscillator parameters of amorphous Ga\(_x\)Se\(_{1-x}\) \((x = 0.4, 0.5, 0.6)\) thin films.

_Falah I. Mustafa, N.Goyal, S. K. Tripathi_

10- Phase transition studies in In\(_x\)Se\(_{1-x}\) \((x = 0.4, 0.5, 0.6)\) thin films.

_Falah I. Mustafa, Shikha Gupta, N.Goyal, S. K. Tripathi_
International conference on multifunction oxide material (IC MOM 2009)
April 16-18, 2009 Shimla

11- Electrical properties of In\(_x\)Se\(_{1-x}\) \((x = 0.4, 0.5 \text{ and } 0.6)\) thin films.

_Falah I. Mustafa, Shikha Gupta, Kriti Sharma, N.Goyal and S. K. Tripathi_
Chascon- 2009-3nd Chandigarh science congress, Feb 26-28 2009, Chandigarh, India

12- Laser, plasma and annealing effects on the optical constants of III-VI layered thin films.

_Shikha Gupta, Falah I. Mustafa, N. Goyal and S.K. Tripathi_
International conference on multifunction oxide material (IC MOM 2009)
April 16-18, 2009 Shimla