

Curriculum Vitae

Present address : Abhijit Majumdar
Max Planck Research School
2/3 bahnhof strasse (IBZ)
Greifswald-17489
Germany

Present position: Ph.D student
Date of Birth: 10th May, 1978
Sex: Male
Marital Status: Single
Nationality: Indian
Religion: Hindu

Academic Qualifications:

Ph.D (Doctor of Philosophy), title of the thesis : 2002 to date

“Molecular synthesis and chemical dynamics of organic gas mixture and study of carbon nitride film”

M.Tech. (Master of Technology), First Class, DAV Univ., Indore, India: 2002

M.Sc. (Master of Science), First Class, DAV Univ., Indore, India: 2001

B.Sc. (Bachelor of Science), Second Class, Burdwan Univ., W.B., India: 1999

H.S. (Higher Secondary), First class, Pre University, W.B. Council, India: 1996

Honors/Awards/Educational Experience:

Recipient of a Scholarship, Max-Planck Research School, Germany : 2002

Qualified J.E.S.T. (Joint Entrance Screening Test for Research Fellow), India: 2001

G.A.T.E. (Graduate Aptitude Test for Engineering), Rank 250, India: 2001

I.P.R. (Institute for Plasma Research), rank 5th in Project Competition, India: 2000

Work Experience:

- 10/2002-until present - Scientific staff at the Institute for Physics, E.M.A University of Greifswald, Germany.
- Member of “International Max-Planck Research School on Bounded Plasmas”, since 2002.
- Member of German Physical Society (Deutsche Physikalische Gesellschaft), Membership No: 039833.

Experimental skill:

- X-ray Photo-electron Spectroscopy
- Fourier Transformed Infrared Spectroscopy
- Raman Spectroscopy
- Atomic Force Microscopy
- Ellipsometry
- Secondary Electron Microscopy
- Mass Spectrometry

List of Publications:

Papers:

1. Abhijit Majumdar, Konstantin Matyash, Jürgen F. Behnke, Ralf Schneider and Rainer Hippler, “*Chemical reaction studies in CH₄/Ar and CH₄/N₂ gas mixture of a dielectric barrier discharge*”, J. Phys. Chem. A, **109**, (9371-9377), 2005.

2. Abhijit Majumdar, Jürgen F. Behnke, Rainer Hippler, Contributed paper of IXth Int. Symp. on *High pressure, low temperature plasma chemistry* (Hakone IX, Padova, Italy, August 23-27), **4P-01**, 2004.

3. Abhijit Majumdar, Jan Schäfer, Puneet Mishra, Debabrata Ghose, Jürgen Meichsner, Rainer Hippler, “Chemical compositions and bond structure of carbon-nitride film deposited by CH₄/N₂ barrier discharge”, (ready to submit)

Posters:

1. Study break down discharge of CH₄/N₂ gas mixture in dielectric barrier discharge. Hakone IX international symposium (Padova, Italy, August 23-27, 2004)

2. Study of mass spectrum analysis of CH₄/N₂ gas mixture in dielectric barrier discharge. 2004, DPG (German Physical society) conference, (Kiel, Germany, March 8-11, 2004)

3. Chemical analysis of carbon nitride film prepared in barrier discharge. Max-Planck Evaluation Programme (Greifswald ,Germany October 17-20, 2004)

4. Carbon-nitride film deposited by CH₄/N₂ dielectric barrier discharge. Braunschweig conference (Braunschweig, Germany, March 21-24, 2005)

Colloquium and Seminar talks:

1. “X-ray reflectivity of Fe-Ni multilayer thin film”, International Max-Planck Research School on Bounded plasma (IMPRS), 14th November, 2002.

2. “Study of breakdown properties of CH₄/N₂ gas mixture in dielectric barrier discharge plasma”, International Max-Planck Research School on Bounded plasma (IMPRS), 4th December 2003.

3. “Study of carbon nitride film deposited by CH₄/N₂ gas mixture in barrier discharge plasma”, International Max-Planck Research School on Bounded plasma (IMPRS), 14th October, 2004.