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Associate Professor
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Ramananda College, Bishnupur
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AREAS OF INTEREST/SPECIALISATION

Solid State Physics
Electronics

ACADEMIC ACHIEVEMENTS

Received Merit Cum means Scholarship from IIT Khragpur in 1990
Qualified NET for Research Fellowship and Lecturership, UGC in 1992
STA fellowship ,Technology Center of Nagasaki, Japan, in 2000

RESEARCH EXPERIENCE

From	To	Name and Address of Company / Organization	Position held
1993	1995	IACS, Kolkata	JRF
1996	1999	IACS, KOLKATA	SRF
2000		Technology Center of Nagasaki, Japan	PDF

ACADEMIC EXPERIENCE

Lecturer in Physics (25.02.2000)
Sr. Lecturer (25.02.2004)
Reader (25.02.2009)
Associate Professor(25.02.2012)

ADMINISTRATIVE EXPERIENCE

Head, Dept. of Physics, Ramananda College,
Co-ordinator, IQAC, NAAC, Ramananda College
Subject Expert of CAS under Bankura University.
Member of Board of Studies, UG, Midnapur College (Autonomous)

PUBLICATIONS

(Journals/Proceedings/Chapter in Books)

- 1. Low Temperature Electrical Conductivity of Polyaniline - Polyvinyl Alcohol Blends.*
M. Ghosh, A. Barman, S. K. De
and S. Chatterjee. Solid State
Communication **103**, 629 (1997).
- 2. Electrical Transport in Paratoluene Sulphonate Doped Polypyrrole Films at Low Temperature.*
M. Ghosh, A. Barman, A. Das, A. K. Meikap, S. K. De and S.
Chatterjee
J. App. Phys. **83**, 4230, (1998).
- 3. Transport Properties of HCl Doped Polyaniline and Polyaniline - Methyl Cellulose Dispersion.*
M. Ghosh, A. Barman, S. K. De and S. Chatterjee.
J. App. Phys. **84**, 806, (1998).
- 4. Crossover from Mott to Efros - Shklovskii Variable Range Hopping Conductivity in Conducting Polyaniline.*
M. Ghosh, A. Barman, S. K. De and S. Chatterjee.
Synth. Met. 97/1, **23**, (1998).
- 5. Hopping Transport in HCl Doped Conducting Polyaniline.*
M. Ghosh, A. Barman, A. K. Meikap, S. K. De and S. Chatterjee.
Phys. Lett. A, **260** (1999).
- 6. Low temperature transport Properties of Cl doped conducting Polyaniline.*
M. Ghosh, A. Barman, A. K. Meikap, S. K. Chattopadhyay and S.
Chatterjee.

- J. Phy. and Chem. of Solids **62**, 475 (2001)
7. *Electrical Resistivity and Magnetoresistivity of Protonic acid (H_2SO_4 , & HCl) Doped Polyaniline at Low Temperature.*
M. Ghosh, A. Barman, A. K. Meikap, S. K. De and S. Chatterjee.
J. Applied Polymers. **75**, 1480 (2000)
8. *Resistivity and Magnetoresistance Studies of Nb_3Ir and V_3Sb Compounds*
M. Ghosh, A. Barman, A. Das, A. K. Meikap, S. K. De and S. Chatterjee.
Phys. Stat. Sol. (b) **201**, 153 (1997).
9. *Electrical Transport Properties of $LaXO_{3+}$ ($X = Mn, Co, Ni$)*
A. Barman, **M. Ghosh**, A. Das, S. K. De and S. Chatterjee.
Ind. J. Phys. **71A**, 517 (1997).
10. *Electrical Transport Properties of Bulk $La_{1-x}Ba_xCoO_3$ at Low Temperature.*
A. Barman, **M. Ghosh**, S. K. De and S. Chatterjee
Phys. Lett. A **234**, 384 (1997).
11. *Giant Magnetoresistance in $La_{0.8}Sr_{0.2}Fe_xCo_{1-x}O_3$ ($0.025 \leq x \leq 0.3$)*
A. Barman, **M. Ghosh**, S. Biswas, S. K. De and S. Chatterjee.
Appl. Phys. Lett. **71**, 3150 (1997)
12. *Electrical Properties of $La_{0.6}Re_{0.1}Ca_{0.3}MnO_3$ ($Re = Pr, Sm, Gd, Dy$) at Low Temperature*
A. Barman, **M. Ghosh**, S. Biswas, S. K. De and S. Chatterjee.
Solid State Communication **106**, 691 (1998)
13. *Charge Ordered State and Giant Magnetoresistance in $Pr_{0.7}R_{0.1}Ca_{0.2}MnO_3$ ($R = Y, Dy, Gd, Sm, Nd$).*

- A. Barman, **M. Ghosh**, S. Biswas, S. K. De and S. Chatterjee.
Letter to the Editor, J. Phys.: Cond. Matter **10**, L199 (1998).
14. *Magnetic and Magnetocaloric Properties of the GMR ceramic $La_{0.7-x}Y_xSr_{0.3}MnO_3$.*
T. K. Bose, A. Chachine, B. R. Gopal, M. Foldeaki, A. Barman, **M. Ghosh**, S. K. De and S. Chatterjee.
Cryogenics **38**, 849 (1998).
15. *The study of defects, transport properties and dissipative flux motion in proton irradiated textured polycrystalline $Bi_2Sr_2CaCu_2O_{8+}$ and $Bi_{1.84}Pb_{0.34}Sr_{1.91}Ca_{2.03}Cu_{3.06}O_{10+}$ superconductors.*
P. Sen, P.M.G. Nambissan, S.K. Bandyopadhyay, P. Barat, **M. Ghosh**, A. Barman, P. Mukherjee & S. K. De
J. Physica C, **303**, 108 (1998).
16. *Electrical and Magnetic Properties of $La_{0.7-x}Y_xSr_{0.3}MnO_3$ at Low Temperature.*
A. Barman, **M. Ghosh**, S. Biswas, S. K. De and S. Chatterjee.
J. Phys.:Condens. Matter, **10**, 9799, (1998).
17. *Transport Properties of Iron Nitrided Films Prepared by Ion Beam Assisted Deposition.*
S. K. Chattopadhyay, A. K. Meikap, K. Lal, D. Biswas, S. K. Chatterjee, **M. Ghosh**, K. Baba and R. Hatada.
Solid State Communication **108**, 977, (1998).
18. *A Study on the Transport properties of $Fe_{67}Co_{18}B_{14}Si$ and $Fe_{81}B_{13.5}Si_{3.5}C_2$ Metallic Glass Alloys at Low Temperatures.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, **M. Ghosh**, A. Barman and S. Chatterjee.
Solid State Communication, **113**, 533 (2000).
19. *Transport Properties of Ti_3Ir Compound at Low Temperature.*
M. Ghosh, A. Barman, A. K. Meikap, S. K. De and S. Chatterjee.

- Czech. J. Phys, **50**, 883, (2000).
20. *Low Temperature Electrical Resistance and Magnetoconductance of $Fe_{39}Ni_{39}Mo_4Si_6B_{12}$ and $Co_{58}Ni_{10}Fe_5Se_{11}B_6$ Metallic Glass Alloys.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, **M. Ghosh**, A. Barman and S. Chatterjee.
Czech J. Phys., **51**, 897, (2001).
21. *Dc and Ac Conductivity of Polyaniline-Polyvinyl Alcohol Blend*
P. Dutta, S. Biswas, **M. Ghosh**, S. K. De and S. Chatterjee.
Synth. Met., **122**, 455, (2001)
22. *Structural features of La-Sr-Fe-Co-O system.*
A. Cziraki, I. Gerocs, M. Koteles, A. Gabris, L. Pogany, I. Bakonyi, Z. Klencsar, A. Vertes, S.K. De, **M. Ghosh**, A. Barman, S. Biswas, S. Chatterjee, B. Arnold, H.D. Bauer, K. Wetzig, C. Ulhaq-Bouillet, V. Pierron-Bohnes.
Euro. Phy. J. B **21**, 521 (2001)
23. *AC conductivity study of thin ZnO films prepared by Sputtering Technique.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, **M. Ghosh**, and S. K. Chatterjee.
Czech J. Phys., **51**, 897, (2001).
24. *Low Temp. Transport Properties of TiN thin films Prepared by Ion Beam Assisted deposition*
S. K. Chattopadhyay, K. Lal, A. K. Meikap, **M. Ghosh**, S. K. Chatterjee, K. Baba and R. Hatada.
Physica B. **307**, 150, (2001).
25. *AC conductivity study of Aluminium Nitride Films prepared by Ion beam Assisted Deposition.*
K. Lal, A. K. Meikap, S. K. Chattopadhyay, **M. Ghosh**, S. K. Chatterjee, K. Baba and R. Hatada
J. Thin solid Film **434**, 264(2003).
26. *A study on the effect of dopant concentration*

(HCl) in Transport Properties of conducting

Polyaniline.

P. Ghosh, A. sarkar, **M. Ghosh**, A. K. Meikap, S. K. Chattopadhyay, S. K. Chatterjee, P. Adikari, R. Saha.

Czech J. Phys., **53**, 1219, (2003).

27. *Low Temp. Transport Properties of TaN thin films Prepared by Ion Beam Assisted Deposition*

S.K. Chattopadhyay, A.K. Meikap, K. Lal, S.K. Chatterjee, **M. Ghosh**, K. Baba and R. Hatada.

Solid State Communication 131 (2004) 479-484.

28. *Quadratic Temp. dependence of electron-phonon scattering in disordered $V_{1-x}Pd_x$ Alloys.*

D. Biswas, **M. Ghosh**, A. K. Meikap, S. K.

Chattopadhyay, S. K. Chatterjee. Solid State Comm.,

134, 223 (2004)

29. *Alternate and direct current conductivity of conducting polyaniline dispersed with poly vinyl alcohol and blended with methyl cellulose.*

A. Sarkar, P. Ghosh, **M. Ghosh**, A. K. Meikap, S. K.

Chattopadhyay, S. K. Chatterjee. J. Appl. Phys. **97**, 113713

(2005).

30. *Electron transport properties of cobalt doped polyaniline.*

P. Ghosh, A. Sarkar, A. K. Meikap, S. K. Chattopadhyay, S. K. Chatterjee, **M. Ghosh**,

J. Phys. D: Appl. Phys. **39**, 3047 (2006)

[Book](#)

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PRESENTATION

1. DAE Solid State Physics Symposium, University of Rajasthan, Jaipur, Dec 27-31,1994.
2. Materials Research Society of India, Bangalore Chapter: Seventh Annual General Meeting, 1-3 February'96, IISc., Bangalore.
3. Fifteenth National Symposium on Cryogenics, 1996, September 12-14, New Delhi.
4. Materials Research Society of India, Mumbai Chapter: Eighth Annual General Meeting, 11-13 February'96, IISc., Bangalore.
5. Condensed Matter Days at Viswabharati University, West Bengal.
6. Materials Research Society of India, Madras Chapter: Ninth Annual General Meeting, 11- 13 February 1996, IISc., Bangalore.
7. Introduction to Microcontroller USIC, Burdwan University, Burdwan February 2-7,2004.
8. IAPT INFOSYS WORKSHOP FOR THE UG PHYSICS TEACHERS, IAPT Eastern Zone, Midnapore College, Midnapore, December 18 - 23, 2004.

RESOURCE PERSON

Paper setter of Vidyasagar University.
Paper setter of Midnapur College (Autonomous)
Paper setter, Head Examiner, Internal and External
Examiner of Buardwan University
Paper setter, Head Examiner, Internal and External
Examiner of Buardwan University

MEMBER OF PROFESSIONAL BODIES

Life member of **The Indian Physical Society (IPS), Kolkata.**
Life member of **The Indian Physics Teacher s Association (IAPT)**
Life member of **Paschimbanga Bigan Mancha, Kolkata.**

PERSONAL DETAILS IN BRIEF

Date of Birth : 24-03-1968

Marital Status : Married
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Current Status : Associate Professor
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