

Curriculum – Vitae

Dr NEERAJ PANWAR

Assistant Professor
Department of Physics
Central University of Rajasthan
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ACADEMIC QUALIFICATIONS

Sr. No.	Position/Degree	University/Institute	Work detail
1	Assistant Professor (June2013-till date)	Department of Physics, Central University of Rajasthan	Teaching and Research
2	Post Doctoral Researcher	University of Aveiro, Portugal	Nanoscale characterization of charge ordered manganites, Multiferroics
3	Post Doctoral Researcher	University of Puerto Rico, USA	Wide bandgap semiconductors, Multiferroics
4.	Project Scientist	IIT Delhi	GMR and TMR materials
5.	Ph.D.	IIT Delhi	CMR manganites
6.	Project Assistant	NPL New Delhi	Superconductivity
7.	M.Sc.	IIT Roorkee	Physics
8.	B.Sc.	CCS University, Meerut	Physics, Chemistry, Maths

AREAS OF RESEARCH INTEREST

Lead free piezoelectrics, magnetic materials like CMR manganites, spintronic and multiferroic materials, magnetism in nanostructured materials, room temperature ferromagnetic semiconductors, UV sensors, photovoltaic effect in ferroelectrics, thermoelectric materials.

MEMBERSHIP OF PROFESSIONAL BODIES

1. Life member Indian Science Congress Association (ISCA)
2. Life member Indian Association of Physics Teachers (IAPT)
3. Life member Magnetic Society of India (MSI)-LM692
4. Life Member Materials Research Society of India (MRSI)
5. Member of Instrument Society of India, Delhi Chapter, for 2003-2004.
6. Member of American Physical Society (APS) from 2010-2012.

TEACHING EXPERIENCE (From July 2013 to till date)

Courses Taught:

1. Physics3A: Semiconductor Devices and Technology (Pre. PhD Physics)
2. PHY-401 Fundamentals of Semiconductor (M.Sc. Phys. III and IV semesters)
3. CST-406 Basic Electronics & Instrumentation (M.Sc. Chemistry IV semester)
4. PHY-103 Electronics (M.Sc. Physics I semester)
5. PH-101 Fundamental Concepts of Physics (Int. M.Sc. I semester)
6. PH-201 Electricity and Magnetism, Basic Electronics (Int. M.Sc. III semester)
7. PHY Electronics Laboratory (M.Sc. Physics I semester)
8. PH-306 Fundamentals of Solid State Physics (Int. M.Sc. VI semester)
9. PH LAB Laboratory (Int. M.Sc. IV semester)

COURSE DESIGN

1. Fundamentals of Semiconductor for M.Sc. Physics Final Year
2. Semiconductor Devices and Technology for Pre-PhD. Physics Course Work
3. Basic Electronics & Instrumentation for M.Sc. Chemistry IV semester

RESEARCH PUBLICATIONS (In SCI Journals)

2017

1. **Impact of low level praseodymium substitution on the magnetic properties of YCrO_3 orthochromites**
S. Kumar, I. Coondoo, A. Rao, B.-H. Lu, Y.-K. Kuo, A. L. Kholkin, **Neeraj Panwar**
Physica B: Condensed Matter, In Press, Accepted Manuscript
(DOI: [10.1016/j.physb.2017.01.003](https://doi.org/10.1016/j.physb.2017.01.003))
2. **Magnetization reversal behavior and magnetocaloric effect in $\text{SmCr}_{0.85}\text{Mn}_{0.15}\text{O}_3$ chromites**
S. Kumar, I. Coondoo, M. Vasundhara, A. K. Patra, A. L. Kholkin and **Neeraj Panwar**
Journal of Applied Physics (under Review)
3. **Structural, Magnetic, Magnetocaloric and Specific heat Investigations on Mn doped PrCrO_3 Orthochromites**
S. Kumar, I. Coondoo, M. Vasundhara, Sandeep Kumar, A. L. Kholkin and **Neeraj Panwar**

Journal of Physics: Condensed Matter (under Review)

4. **Observation of negative magnetization and Magnetocaloric Effect in Manganese Doped EuCrO₃ Orthochromites**

S. Kumar, I. Coondoo, M. Vasundhara, V. S. Puli, and Neeraj Panwar

Journal of Alloys and Compounds (under Review)

2016

5. **Defect chemistry and relaxation processes: effect of an amphoteric substituent in lead-free BCZT ceramics**

I. Coondoo, Neeraj Panwar, R. Vidyasagar and A. L. Kholkin

Phys. Chem. Chem. Phys. **18** (2016) 31184.

2015

6. **Enhanced piezoelectric properties of praseodymium modified lead free (Ba_{0.85}Ca_{0.15})(Ti_{0.90}Zr_{0.10})O₃ ceramics**

I. Coondoo, Neeraj Panwar, H. Amorín, V. E. Ramana, M. Algueró and A.

L.Kholkin

J. Am. Ceram. Soc. **98** (2015)3127-3135.

7. **Improved piezoelectric and energy harvesting characteristics in lead-free Fe₂O₃ modified KNN ceramics**

I. Coondoo, Neeraj Panwar, H. Maiwa and A. L. Kholkin

Journal of Electroceramics **34**(2015) 255-261.

2014

8. **Structural and magnetic studies on praseodymium and transition-metal co-substituted BiFeO₃ ceramics**

I. Coondoo, Neeraj Panwar, V. S. Puli, V. E. Ramana, A. L. Kholkin and R. S. Katiyar

Multiferroic Materials, **1** (2014) 23-26.

9. **Magnetoelectric coupling effect in transition metal modified polycrystalline BiFeO₃ thin films**

V. S. Puli, D. K. Pradhan , S. Gollapudi , I. Coondoo, Neeraj Panwar, S. Adireddy, D. B. Chrisey, R. S. Katiyar

Journal of Magnetism and Magnetic Materials **369** (2014) 9-13.

10. **Photovoltaic effect in transition metal modified polycrystalline BiFeO₃ thin films**
V. S. Puli, D. K. Pradhan, R. K. Katiyar, I. Coondoo, Neeraj Panwar, P. Misra, D. B. Chrisey, J. F. Scott and R. S. Katiyar

Journal of Physics D: Applied Physics **47** (2014) 075502.

11. **Structural, dielectric and impedance spectroscopy studies in (Bi_{0.90}R_{0.10})Fe_{0.95}Sc_{0.05}O₃ [R=La, Nd] ceramics**

I. Coondoo, Neeraj Panwar, M. A. Rafiq, V. S. Puli, M. N. Rafiq, R. S. Katiyar

Ceramics International **40** (2014) 9895-9902.

2013

12. **Synthesis and characterization of lead-free 0.5Ba(Zr_{0.2}Ti_{0.8})O₃-0.5(Ba_{0.7}Ca_{0.3})TiO₃ ceramic**

I. Coondoo, Neeraj Panwar, H. Amorín, Miguel Alguero, Andrei Kholkin

J. Applied Physics **113** (2013) 214107.

13. **Synthesis and Physical Properties of Ca- and Ta- modified (K,Na)NbO₃ lead free piezoelectric ceramics**

I. Coondoo, Neeraj Panwar, R. Rai, H. Amorin, A. L. Kholkin,

Phase Transitions, **86**(11), 1130-1140 (2013)

14. **Voltage-dependent domain evolution in La_{0.89}Sr_{0.11}MnO₃ single crystals by Piezoresponse Force Microscopy**

Neeraj Panwar^{*}, Indrani Coondoo and A. L. Kholkin

Solid State Communications **164** (2013) 38-41.

2012

15. **Nanoscale piezoresponse and magnetic studies of multiferroic Co and Pr co substituted BFO thin films**

Neeraj Panwar^{*}, I. Coondoo, A. Tomar, A. L. Kholkin, V. S. Puli and R. S. Katiyar

Materials Research Bulletin **47** (2012) 4240. (Cover Page Article)

16. **Domain growth kinetics in La_{0.89}Sr_{0.11}MnO₃ single crystal studied by piezoresponse force microscopy**

Neeraj Panwar^{*}, I. K. Bdikin, A.N. Morozovska, and A. L. Kholkin

Journal of Applied Physics **112** (2012) 052019.

17. **Nanoscale piezoresponse behavior of cobalt substituted BiFeO₃ thin film**

I. Coondoo, Neeraj Panwar, I. Bdikin, A. L. Kholkin, V. S. Puli and R. S. Katiyar

Thin Solid Films **520** (2012) 6493.

18. **Structural, morphological and piezoresponse studies of Pr and Sc co-doped BiFeO₃ Ceramics**
I. Coondoo, Neeraj Panwar, I. Bdikin, V. S. Puli, R. S. Katiyar and A. L. Kholkin
J. Phys. D: Applied Physics **45** (2012) 055302.
 19. **Structural, morphological and enhanced ferroelectromagnetic properties of Ba_{0.7}Ca_{0.3}TiO₃/BaFe_{0.2}Ti_{0.8}O₃ multiferroic composites**
V. S. Puli, I. Coondoo, Neeraj Panwar, A. Srinivas and R. S. Katiyar
J. Appl. Phys. **111**(2012) 102802.
 20. **Temperature dependent magnetic, dielectric studies of Sm-substituted bulk BiFeO₃**
V. S. Puli, D. K. Pradhan, R. Martinez, I. Coondoo, Neeraj Panwar and R. S. Katiyar:
J. Supercond. Novel Magnetism **25** (2012) 1109.
 21. **Impedance and dc conductivity studies in wolframium substituted Strontium Bismuth Tantalate**
Indrani Coondoo, Neeraj Panwar, Amit Tomar, A. K. Jha and S. K. Agarwal;
Physica B: Condens. Mater. **407** (2012) 4712.
 22. **Effect of the grain size on the magnetic phase separation in La_{0.8}Sr_{0.2}MnO₃ by magnetic force microscopy**
P. De Sousa, Neeraj Panwar, I. Bdikin, A. L. Kholkin, C.M. Fernandes, A.M.R. Senos, *Microscopy and Microanalysis* **18** (2012) 101.
- 2011**
23. **Structural and optical analysis of ZnBeMgO powder and thin films**
Neeraj Panwar*, J. Liriano, Ram S. Katiyar:
J. Alloys and Compounds **509** (2011) 1222.
 24. **Nanoscale Electromechanical Properties of CaCu₃Ti₄O₁₂ Ceramics**
R. Tararam, I. K. Bdikin, Neeraj Panwar, J. A. Varela, P. R. Bueno, A. L. Kholkin
J. Appl. Phys. **110** (2011) 052019.
 25. **Transition metal modified bulk BiFeO₃ with improved magnetization and linear magneto-electric coupling**
V. S. Puli, A. Kumar, Neeraj Panwar, I. C. Panwar, R. S. Katiyar;
J. Alloys and Compounds **509** (2011) 8223-8227.
 26. **Room Temperature Ferromagnetism in Co-doped Titania Thin Films**

S. Sharma, S. Chaudhary, Neeraj Panwar, S. Kashyap, Dinesh Pandya:

J. Nanoscience and Nanotechnology **11**(2011) 2743.

27. **Effect of sintering temperature on the structural, dielectric and ferroelectric properties of tungsten substituted SBT ceramics**

Indrani Coondoo, Neeraj Panwar and A. K. Jha,

Physica B: Condensed Matter **406** (2011) 374.

28. **A comparative study of oxygen loss on in-situ heating in PrMnO₃ and BaMnO₃**

K. B. Garg, M. Heinonen, P. Nordblad, S. Dalela, Neeraj Panwar, V. Sen, S. K. Agarwal, and Neha Sharma

Intl. J. Mod. Phys. B **25** (2011) 1235.

29. **Ferroelectric and piezoelectric studies on Mo-substituted SrBi₂Ta₂O₉ ferroelectric ceramics: Indrani Coondoo**

Neeraj Panwar, Venkata S. Puli, and R S Katiyar

Integrated Ferroelectrics **125**(2011) 1-9.

30. **ZnBeMgO thin films based UV Detectors by Spin Coating**

Neeraj Panwar*, J. Liriano and Ram S. Katiyar

MRS Proceedings, 1315(2011) mrsf10-1315-mm05-03-f0503

doi:10.1557/opl.2011.775

2010

31. **Low field magnetoresistance, temperature coefficient of resistance and magnetocaloric effect in Pr_{2/3}Ba_{1/3}MnO₃: PdO composites**

Neeraj Panwar*, Indrani Coondoo, S. K. Agarwal:

Materials Letters **64** (2010) 2638.

32. **Intrinsic and extrinsic transport properties of Pr_{0.67}Ba_{0.33}MnO₃: Ag₂O composites**

Neeraj Panwar*, Indrani Coondoo, R. S. Singh and S. K. Agarwal

J. Alloys and Compounds **507** (2010) 439-442.

33. **Thermal properties of La_{2/3}Ba_{1/3}(Mn_{1-x}Sb_x)O₃ manganites**

V. Sen, G. L. Bhalla, Neeraj Panwar, W. K. Syu, N. Kaurav, Y. K. Kuo, Ashok Rao and S. K. Agarwal

Physica B: Condensed Matter **405** (2010)1-4.

34. **Structural, electrical and thermal studies of Nb-doped Pr_{0.7}Sr_{0.3}Mn_{1-x}Nb_xO₃ (0 ≤ x ≤ 0.03) manganites**

S. K. Agarwal, Neeraj Kumar, Neeraj Panwar, B. Gahtori, Ashok Rao, P. C. Chang and Y. -K. Kuo:

Solid State Communication 150(2010)684-688.

35. **Structural, dielectric and magnetic properties of Pr substituted $\text{Bi}_{1-x}\text{Pr}_x\text{FeO}_3$ ($0 \leq x \leq 0.15$) multiferroic compounds**

N. Kumar, Neeraj Panwar, B. Gahtori, Neelam Singh, H. Kishan and V.P.S. Awana:

J. Alloys and Compounds 501(2010) L29-L32.

36. **Effect of W substitution in Strontium Bismuth Tantalate Ferroelectric Ceramics: Enhanced Ferroelectric properties**

I. Coondoo, Neeraj Panwar, A. M. Biradar and A. K. Jha

Proceedings 2010 MRS Spring Meeting, 1250 (2010) pp.1250-G16-02.

2009

37. **Enhanced room temperature coefficient of resistance and magneto-resistance of Ag added $\text{La}_{0.7}\text{Ca}_{0.3-x}\text{Ba}_x\text{MnO}_3:\text{Ag}_x$ composites**

R. Tripathi, V. P. S. Awana, Neeraj Panwar, G.L. Bhalla, H. U. Habermier, S. K. Agarwal, and H. Kishan:

Journal of Physics D: Applied Physics 42(2009) 175002.

38. **Nano-vanadium Doping-Driven Low Temperature Structural Phase Transformation in Titania**

A. Kumar, B. Gahtori, N. Kumar, V.P.S. Awana, A. K. Srivastava, Neeraj Panwar, H. Kishan and I. Felner:

Modern Physics Letters B 23 (2009)3543-3549.

39. **Study of Sb substitution for Pr in the $\text{Pr}_{0.67}\text{Ba}_{0.33}\text{MnO}_3$ system**

K. B. Garg, P. Nordblad, M. Heinonen, Neeraj Panwar, V. Sen, F. Bondino, E. Magnano, E. Carleschi, F. Parmigiani and S. K. Agarwal

J. Magnetism and Magnetic Materials 321(2009) 305-311.

2008

40. **Magnetotransport, Thermoelectric Power, Thermal Conductivity and Specific Heat of $\text{Pr}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Manganite**

Neeraj Panwar*, Ashok Rao, R. S. Singh, W. K. Syu, N. Kaurav, Y. -K. Kuo and S. K. Agarwal:

J. Applied Physics 104 (2008) 083906.

41. **Electrical and Thermal Properties of $\text{Pr}_{2/3}(\text{Ba}_{1-x}\text{Cs}_x)_{1/3}\text{MnO}_3$ Manganites**

Neeraj Panwar*, D. K. Pandya, Ashok Rao, K. K. Wu, N. Kaurav, Y.-K. Kuo and S. K. Agarwal:

European Journal of Physics B, **65** (2008) 179-186.

42. **Magneto-transport and Thermal Properties of Pr_{2/3}Ba_{1/3}(Mn_{1-x}Sb_x)O₃ System**

S. K. Agarwal, **Neeraj Panwar**, Vikram Sen and D. K. Pandya

Journal of Physics D: Applied Physics **41**(2008) 105004.

43. **Thermoelectric Power Studies on (1-x) Pr_{2/3}Ba_{1/3}MnO₃+x Ag₂O composites**

Neeraj Panwar*, D. K. Pandya and S. K. Agarwal;

J. Physics: Condens. Mat. **20** (2008) 285223.

44. **Magnetotransport and Thermoelectric Power of La_{2/3}Sb_{1/3}Mn_{1-x}Sb_xO₃(x=0-0.05) manganite perovskites**

V. Sen, **Neeraj Panwar**, Ashok Rao, C. K. Hsu, Y. K. Kuo and S. K. Agarwal

Solid State Communication, **145** (2008) 86-90.

45. **Transport properties of Cs doped Pr_{2/3}(Ba_{1-x}Cs_x)_{1/3}MnO₃ perovskite manganites**

Neeraj Panwar*, Vikram Sen, D. K. Pandya and S. K. Agarwal

J. Alloys and Compounds, **456** (2008) 479-484.

2007

46. **Magneto-transport and magnetization studies of Pr_{2/3}Ba_{1/3}MnO₃: Ag₂O composite manganites**

Neeraj Panwar*, D. K. Pandya and S. K. Agarwal;

J. Physics: Condens. Mat. **19**(2007) 456224.

47. **Magnetotransport, magnetization and thermoelectric power of Pr_{2/3}Ba_{1/3}MnO₃ PdO composite manganites**

Neeraj Panwar*, D. K. Pandya and S. K. Agarwal

Physics D: Applied Physics **40** (2007) 7548-7554.

48. **Structural, Electrical and Magnetic Properties of Pr_{1-x}Ba_xMnO₃ (x =0.33-0.80)**

Neeraj Panwar*, S. K. Agarwal, G. L. Bhalla, D. Kaur, D. K. Pandya

International Journal of Modern Physics B, **21** (2007) 2647- 2656.

49. **Structural, Electrical and Magnetic Properties of Sb-doped Pr_{2/3}Ba_{1/3}MnO₃ Perovskite manganites**

Vikram Sen, **Neeraj Panwar**, G. L. Bhalla and S. K. Agarwal

Alloys and Compounds, **439** (2007) 205-209.

50. **Structural, Magnetotransport and Morphological studies of Sb-doped La_{2/3}Ba_{1/3}MnO₃ Ceramic Perovskites**

Vikram Sen, **Neeraj Panwar**, G. L. Bhalla and S. K. Agarwal

Physics and Chemistry of Solids, **68** (2007) 1685-1691.

51. **Grain Boundary Effects on the Electrical and Magnetic Properties of Pr_{2/3}Ba_{1/3}MnO₃ and La_{2/3}Ca_{1/3}MnO₃ Manganites**

Neeraj Panwar*, Vikram Sen, D. K. Pandya and S. K. Agarwal;

Materials Letters, **61** (2007) 4879-4883.

2006

52. **Effect of Mn doping on the Specific Heat of the High T_C Superconductor Y_{1-x}Pr_xBa₂Cu₃O₇:**

A. Rao, R. Shyam, Anirban Das, Rajeev Rawat, B. Gahtori, V. Sen, **Neeraj Panwar**, S. K. Agarwal

J. Physics: Conference Series, **43** (2006) 531-534.

➤ **In Conference/ Symposium Proceedings**

National:

1. Comparative Study of Extrinsic and Intrinsic Properties of Perovskite Manganites on the Basis of Ionic Size Mismatch
Neeraj Panwar:
21st National Symposium on Cryogenics, NPL, New Delhi.
2. Effect of Ga doping on the Resistivity Behaviour of Pr_{2/3}M_{1/3}MnO₃ Perovskites Manganites: **Neeraj Panwar**, D.K. Pandya and S. K. Agarwal: Souvenir of 17th Material Research Society of India Conference (2006).
3. Electrical Transport Behaviour of Pr_{2/3}(Ba_{1-x}Cs_x)_{1/3}MnO₃ Perovskites **Neeraj Panwar**, D. K. Pandya and S. K. Agarwal
Solid State Physics 50 (2005) 725-726 (Proc. DAE Solid State Physics Symp.).
4. Effect of Ba and Cs on the Resistivity Behaviour of Pr-based Manganites **Neeraj Panwar**, Vikram Sen, D. Kaur, D. K. Pandya and S. K. Agarwal
Solid State Physics 49 (2004) 722-723 (Proc. DAE Solid State Physics Symp.).
5. Resistivity Behaviour of Pr_{2/3}M_{1/3}MnO₃ (M=Ca, Sr, Ba) Manganite Perovskites Vikram Sen, **Neeraj Panwar**, G. L. Bhalla, S. K. Agarwal
Solid State Physics 49 (2004) 724-725 (Proc. DAE Solid State Physics Symp.).

International:

1. Investigation of magnetization reversal and its suppression in Mn doped SmCrO₃ orthochromite
Surendra Kumar, I. Coondoo, M. Vasundhara, Vinod Kumar, A. K. Patra, **Neeraj Panwar**
Oral Presentation at ICTAM-AMF2016, University of Delhi, India

2. Microstructural, Dielectric and AC conductivity investigations on sol-gel derived $\text{Ba}_{0.85}\text{Ca}_{0.15}\text{Ti}_{0.9}\text{Zr}_{0.1}\text{O}_3$ ceramics
I. Coondoo, Ramovatar, A. L. Kholkin and **Neeraj Panwar**
Poster Presentation at ICTAM-AMF2016, University of Delhi, India
3. Effect of neodymium addition on dielectric and piezoelectric properties in lead-free (K, Na, Li) $\text{Nb}_{1-x}\text{Sb}_x\text{O}_3$ ceramics
Neeraj Panwar, Indrani Coondoo, Harvey Amorin and Andrei Kholkin
Oral presentation in 13th European Meeting on Ferroelectricity, Porto Portugal
4. Structural and electrical studies in $(\text{Bi}_{0.90}\text{Sm}_{0.10})\text{Fe}_{1-x}\text{Sc}_x\text{O}_3$ ceramics
Neeraj Panwar, Indrani Coondoo, E. Venkata Ramana, Venkata S. Puli, A. L. Kholkin, R.S. Katiyar
Poster presentation in 13th European Meeting on Ferroelectricity, Porto Portugal
5. Effect of praseodymium oxide additive on structural and electrical properties of temperature sintered lead-free $\text{Ba}_{0.85}\text{Ca}_{0.15}\text{Ti}_{0.9}\text{Zr}_{0.1}\text{O}_3$ ceramics
I. Coondoo, **Neeraj Panwar**, Harvey Amorin, Miguel Alguero, and A. Kholkin
Poster presentation in 13th European Meeting on Ferroelectricity, Porto Portugal
5. Magnetolectric studies of lead free BZT-BCT/CFO/BZT-BCT tri-layered multiferroic thin films
Venkata S. Puli, D. K. Pradhan, I. Coondoo, **Neeraj Panwar**, D. B. Chrisey, G. L. Sharma, R. S. Katiyar; MRS-spring 2013, USA.
6. Dielectric and Piezoelectric properties of Lead-free $\text{K}_{0.44}\text{Na}_{0.51}\text{Li}_{0.05}\text{Nb}_{1-x}\text{Sb}_x\text{O}_3$ ceramics: I. Coondoo, **Neeraj Panwar**, H. Amorín and A. Kholkin
The 8th Asian Meeting on Ferroelectrics (AMF-8), Pattaya, Thailand.
7. Local and bulk Electromechanical Properties of Lead-Free 50BCT-50BZT ceramics:
I. Coondoo, **Neeraj Panwar**, H. Amorín and A. Kholkin
The 8th Asian Meeting on Ferroelectrics (AMF-8), Pattaya, Thailand.
8. Synthesis and Physical properties of Ca- and Ta- modified (K,Na) NbO_3 lead-free piezoelectric ceramics: I. Coondoo, **Neeraj Panwar**, H. Amorin, R. Rai, and A. L. Kholkin; EMRS-2012, Poland.
9. Energy storage studies of lead free BZT-BCT epitaxial thin films grown on MgO substrate using pulsed laser deposition (PLD)
V. S. Puli, D. K. Pradhan, I. Coondoo, **Neeraj Panwar**, D. Barrionuevo, N. Ortega, R. S. Katiyar: MRS-USA, Fall Meeting 2012.
10. Structural, morphological and piezoresponse studies of $\text{Bi}_{0.9}\text{Pr}_{0.1}\text{Fe}_{1-x}\text{Sc}_x\text{O}_3$ ($0 \leq x \leq 0.07$) ceramics: Indrani Coondoo, **Neeraj Panwar**, I. Bdikin, V. S. Puli, R. S. Katiyar and A. L. Kholkin:
ISAF ECAPD PFM - 2012, Aveiro, Portugal.
11. Scanning Probe Microscopic Studies of Cobalt Substituted Bismuth Ferrite Thin Films
Indrani Coondoo, **Neeraj Panwar**, I. Bdikin, A. L. Kholkin Venkata S. Puli and R. S. Katiyar:
ISAF ECAPD PFM- 2012, Aveiro, Portugal.
12. Kelvin Force Probe Microscopy Study of Manganites
Neeraj Panwar, I. Coondoo, I. K. Bdikin and A. L. Kholkin ISAF ECAPD PFM - 2012, Aveiro, Portugal.
13. Domain growth kinetics in $\text{La}_{0.89}\text{Sr}_{0.11}\text{MnO}_3$ single crystal studied by piezoresponse force microscopy:
Neeraj Panwar , I. K. Bdikin and A. L. Kholkin
ISAF ECAPD PFM - 2012, Aveiro, Portugal.
14. Microstructure and electrical properties of Ca- and Ta- modified (K,Na) NbO_3 lead-free piezoelectric ceramics
I. Coondoo, Harvey Amorín , **Neeraj Panwar**, R. Rai, and A. L. Kholkin

- ISAF ECAPD PFM - 2012, Aveiro, Portugal.
15. Scanning probe microscopic studies of lead free BZT-BCT/CFO-BZT/BCT tri-layered multiferroic thin films:
V. S. Puli, D. K. Pradhan, Indrani Coondoo, **Neeraj Panwar**, A. Srinivas, D. B. Chrisey, M. Tomozawa, A. L. Kholkin, J. F. Scott, R. S. Katiyar
ISAF ECAPD PFM - 2012, Aveiro, Portugal.
 16. Ferroelectric and energy density studies of lead free BZT-BCT thin films
V. S. Puli, Dhiren K. Pradhan, Indrani Coondoo, **Neeraj Panwar**, D. B. Chrisey, M. Tomozawa, A. L. Kholkin, J. F. Scott, R. S. Katiyar:
ISAF ECAPD PFM - 2012, Aveiro, Portugal.
 17. PFM Studies of $\text{Bi}_{1-x}\text{Pr}_x\text{Fe}_{0.95}\text{Co}_{0.05}\text{O}_3$ Thin Films Derived By Chemical Solution Deposition Method: Indrani Coondoo, **Neeraj Panwar**, A. L. Kholkin, Venkata S. Puli, R. S. Katiyar,
ISIF-2011, Cambridge, U. K.
 18. Nanoscale Piezoresponse Studies of Charge ordered Manganites
Neeraj Panwar, F. Figueiras, V. S. Amaral, I. Bdikin and A. L. Kholkin
ISAF- 2011, Vancouver, Canada.
 19. Bias-induced hysteresis and nanoscale multiferroic properties in $[\text{Pr}(\text{La})]_{1-x}\text{Ca}_x\text{MnO}_3$ studied by scanning force microscopy
F. Figueiras, V. S. Amaral, **Neeraj Panwar**, D. Karpinsky, P. Maksimovich, S. V. Kalinin, A. L. Kholkin:
MRS Spring Meeting 2011
 20. ZnBeMgO Nanostructured Based UV Detectors by Spin Coating **Neeraj Panwar**, Jose Liriano, Ram Katiyar:
MRS-USA, Fall Meeting 2010.
 21. Mg and Be doped ZnO Ultraviolet photoconductive detector Jose M. Liriano R, **Neeraj Panwar**, Ram Katiyar
Int. Symposium on Integrated Functionalities, June 13-16, 2010, San Juan, USA.
 22. Growth of ZnBeMgO films by pulsed laser deposition
Neeraj Panwar, Jose Liriano, Venkata S. Puli, Ram S. Katiyar
American Physical Society Meeting, March 14-19, 2010, Portland, USA.
 23. Dielectric and Magnetic Properties of $\text{Bi}_{1-x}\text{Sm}_x\text{FeO}_3$ ($0 \leq x \leq 1$)
R. Melgarejo, Venkata Puli, **Neeraj Panwar**, Reji Thomas, Ram Katiyar
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