

**List of Publications Of Prof. A.K. Raychaudhuri**  
**(Up dated June 2013)**

**(a). Refereed Journals only**

**1980**

1. A.K. Raychaudhuri and R. Hasegawa  
(1980) "Phonon Scattering in non-crystalline alloys" Phys. Rev. B 21, 479

2. A.K. Raychaudhuri and R.O. Pohl  
(1980) "Connection between the low temperature anomaly in glasses and the glass transition temperature" Solid State Comm. 37, 105

**1981**

3. R.E. Stahlbush, C.M. Bastuscheck, A.K. Raychaudhuri and J.C. Scott  
(1981) "Studies of polymeric chromium phosphinate" Phys. Rev. B 23, 33935.

4. T. Klitsner, A.K. Raychaudhuri and R.O. Pohl  
(1981) "Connection between the low temperature thermal conductivity of glasses and the glass transition temperature" J. Phys (Paris) 42, C6 –66

**1982**

5. A.K. Raychaudhuri and R.O. Pohl  
(1982) "Specific heat of glasses at low temperatures" Phys. Rev. B25, 1310

6. A.K. Raychaudhuri and R.O. Pohl  
(1982) "Thermal conductivity of neutron irradiated silica" Solid State Comm. 44, 711

7. A.K. Raychaudhuri and S. Hunklinger  
(1982) "Low frequency elastic properties of glasses at low temperatures"  
J. Phys (Paris) 43, C9 – 485

**1983**

8. A.K. Raychaudhuri and S. Hunklinger  
(1983) "Low temperature elastic properties of a superconducting disordered metal"  
Solid State Comm. 45, 103

**1984**

9. A.K. Raychaudhuri and S. Hunklinger  
(1984) "Low frequency elastic properties of glasses at low temperatures – implication on the tunneling model" Z. Phys. B57, 113

**1985**

10. S.B. Ray, A.K. Majumdar and A.K. Raychaudhuri  
(1985) "A.C. Susceptibility and electrical resistivity in  $Fe_{80-x}Ni_xCr_{20}$  alloys"  
Phys. Rev. B31, 7458

**1986**

11. J.F. Berret, J. Pelous, R. Vacher, A.K. Raychaudhuri and M. Schmidt  
(1986) "Acoustic properties and relationship with the low frequency light scattering in an optical glass" J. of Non Crystalline Solids. 87, 70

12.P.K.Mukhopadhyay and A.K.Raychaudhuri  
(1986) **“Easy to build four terminal a.c. bridge”** J.Phys E: Sci. Instr. **19**, 792

13. Madhu Prasad, Radhika Rani Rao and A.K.Raychaudhuri  
(1986) **“A versatile A.C. Mutual inductance bridge”** J.Phys E: Sci. Instr. **19**, 1013

14.A.K.Raychaudhuri  
(1986) **“Low temperature properties of glasses –Unsolved problems”** Proc. Indian Acad. Sciences (Chem. Sci Ed.) **96**, 559

## **1987**

15. P.K.Mukhopadhyay and A.K.Raychaudhuri  
(1987) **“A Simple vibrating reed apparatus”** J.Phys E: Sci. Instr. **20**, 507

16. P.Ganguly, K.Sreedhar, A.K.Raychaudhuri and C.N.R. Rao  
(1987) **“High temperature superconductivity in the 100K region in perovskite related oxides of Ln-Ba-Cu-O (Ln= Y or Ba) system”** Pramana – J.Phys.(Letters). **21**, L 229

17. C.N.R.Rao, P.Ganguly, A.K.Raychaudhuri and R.A.Mohanram,  
(1987) **“Identification of the phase responsible for high temperature superconductivity in Y-Ba-Cu Oxides”** Nature. **326**, 856

18.R.A.Mohanram, K.Sreedhar, A.K.Raychaudhuri, P Ganguly and C.N.R Rao  
(1987) **“High temperature superconductivity in perovskite oxides of Y-Ba-Cu-O systems”** Phil.Mag. Letters. **55**, 257

19. A.K.Raychaudhuri, K.Sreedhar, K.P.Rajeev, R.A.Mohanram,  
P.Ganguly and C.N.R Rao  
(1987) **“High temperature superconductivity in La and Lu substituted Yba Cu O and related oxides”** Phil.Mag. Letters. **56**, 29

20.K.Sreedhar, R.A.Mohanram, A.K.Raychaudhuri, P.Ganguly and C.N.R.Rao  
(1987) **“High temperature superconductivity in the Y-Ba-Cu-O system”**  
Phase Transition, **10**, 3

## **1988**

21. M.Rajeswari, Sheela K Ramshesha and A.K.Raychaudhuri  
(1988) **“Continuous-cooling method of specific heat measurement in the temperature range 100-300 K”** J.Phys.E: Sci. Instr. **21**, 1017

22.P.K.Mukhopadhyay and A.K.Raychaudhuri  
(1988) **“The elastic manifestation of a spin glass transition: a low frequency study”**  
J.Phys.C:Solid State Phys. **21**, L 385

23. K.P.Rajeev, N.Y.Vasanthacharya, A.K.Raychaudhuri, P.Ganguly and C.N.R.Rao  
(1988) **“Electrical transport in the perovskite solid solution  $\text{LaNi}_{1-x}\text{Co}_x\text{O}_3$ ”**  
Physica C **153-155**, 1331

## **1989**

24.M.Rajeswari and A.K.Raychaudhuri  
(1989) **“Heat release from a supercooled liquid near glass transition”**  
Europhysics Letters. **10**, 153

25. K.B.R.Varma and A.K.Raychaudhuri

**(1989) “Pyroelectric and dielectric properties of potassium hydrogen phthalate single crystals”**  
J phys D:Appl. Phys. **22**, 809

26.N.Y.Vasanthacharya, A.K.Raychaudhuri, P.Ganguly and C.N.R Rao  
**(1989)“Spin glass behaviour in the  $\text{LaNi}_x \text{Mn}_{1-x} \text{O}_3$  system “**  
J. of Mag.and Magnetic Mater. **81**, 133

27. A.K.Raychaudhuri  
**(1989) “Origin of plateau in the low temperature thermal conductivity of silica”**  
Phys.Rev. **B 39**, 1927

## **1990**

28.S.Banerjee, M.K.Gunasekaran and A.K.Raychaudhuri  
**(1990) “A phase-sensitive superheterodyne ultrasonic spectrometer”**  
Measurement. Sci. and Tech. **1**, 505

29. P.K.Mukhopadhyay and A.K.Raychaudhuri  
**(1990) “Elastic properties of reentrant spin glass”** J. Appl. Phys. **67**, 5235

30. G.V.Shivashankar and A.K.Raychaudhuri  
**(1990) “Possible observation of coulomb blockade at room temperature”**  
Pramana-J.Phys.(Letters) **35**, L 503

## **1991**

31. H Srikanth, M.Rajeswari and A.K.Raychaudhuri  
**(1991) “Point contact tunneling studies on ceramic YBCO with STM tips”**  
Pramana-J.Phys. **36**, 207

32. H.Srikanth and A.K.Raychaudhuri  
**(1991) “A versatile system for point contact conductance spectroscopy”**  
Cryogenics. **31**, 421

33. A.K.Raychaudhuri and R.O.Pohl  
**(1991) “Low temperature internal friction of glass ceramics”**  
Phys.Rev. **B 44**, 12 233 (1991-II)

34 .H.Srikanth and A.K.Raychaudhuri  
**(1991) “A comparison of barrier type tunnel junction and point- contact tunnel junction formed on the same high  $T_c$  material”** Pramana-J.Phys. **36**, 621

35. K.P.Rajeev, G.V. Shivashankar and A.K.Raychaudhuri  
**(1991) “Low temperature electronic properties of a normal conducting perovskite oxide ( $\text{LaNiO}_3$ )”** Solid State Comm. **79**, 591

36. R.Karunanithi, A.K.Raychaudhuri, Z.Szucs, G.V.Shivashankar  
**(1991) “Behaviour of power MOSFETs at Cryogenics temperatures”** Cryogenics **31**, 1065

37.A.K.Raychaudhuri  
**(1991) “Low temperature conductivity of Ta compensated sodium bronze near the metal-insulator transition”** Phys.Rev. **B 44**, 8572 (1991-II)

38. H.Srikanth and A.K.Raychaudhuri  
**(1991) “Microshort to tunneling transition in  $\text{Au-Yb}_2\text{Cu}_3\text{O}_{7.8}$  (single crystal) point contacts”**  
Phys.Rev. **B 45**, 383 (1991-II)

39. H.Srikanth, P.K.Mukhopadhyay and A.K.Raychaudhuri  
**(1991) "Superconducting gap in Nb seen by point contact spectroscopy"**  
 Bulletin of materials science **14**, 759
40. H.Srikanth and A.K.Raychaudhuri  
**(1991) "Effect of Surface on the conductance characteristics of Au- Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8-δ</sub> (single crystal) point contact junctions"** J. of Appl. Physics **70**, 7478
41. S.Banerjee, M.R.Srinivasan, A.K.Raychaudhuri and H.L.Bhatt  
**(1991) "Ultrasonic velocity and attenuation in Ferroelectric TAAP"**  
 J.Phys :Condensed Matter (letters) **3**, L225

## **1992**

42. P.K.Mukhopadhyay and A.K.Raychaudhuri  
**(1992) "Freezing of magnetic domain motion in a reentrant spin glass as seen by elastic measurements"** Solid State Communication. **83**, 829
43. Radhika Rani Rao and A.K. Raychaudhuri  
**(1992) "Magnetic studies of a mixed antiferromagnetic system Fe<sub>1-x</sub>Ni<sub>x</sub>PS<sub>3</sub>"**  
 J.Phys. and Chem. Solids **53**, 577
44. Radhika Rani Rao and A.K.Raychaudhuri  
**(1992) "Structural and Vibrational Studies of the layered structure solid Fe<sub>1-x</sub>Ni<sub>x</sub>PS<sub>3</sub>"**  
 J. Phys. and Chem. Solids **53**, 949
45. K.P.Rajeev and A.K.Raychaudhuri  
**(1992) "Quantum corrections to conductivity in a perovskite oxide : A low temperature study of LaNi<sub>1-x</sub>Co<sub>x</sub>O<sub>3</sub>"** Phys. Rev. **B 46**, 1309
46. H.Srikanth and A.K.Raychaudhuri  
**(1992) "Modelling Tunneling data of Normal Metal-Oxide Superconductor point contact junctions"** Physica **C190**, 229
47. H.Srikanth, K.P.Rajeev, G.V.Shivashankar and A.K.Raychaudhuri  
**(1992) "Normal State Tunneling conductance of perovskite oxides : Implication on high T<sub>c</sub> superconductors"** Physica **C 195**, 87
48. H.Srikanth and A.K.Raychaudhuri  
**(1992) "Transition from metallic to Tunneling type conductance in metal-metal (N-N) and normal metal- superconductor (N-S) point contacts."** Phys. Rev **B 46**, 14 713
49. S.Banerjee, M.W.J. Prins, K.P.Rajeev and A.K.Raychaudhuri  
**(1992) "An automated thermal relaxation calorimeter"** Pramana- J.Phys. **39**, 391
50. S.Banerjee and A.K. Raychaudhuri  
**(1992) "Resistivity minima and electron-electron interactions in crystalline alloys of transition metals"** Solid State Commn. **83**, 1047
51. A.K.Raychaudhuri and R.O.Pohl  
**(1992) "Low temperature internal friction and sound velocity in Zener Alloys"**  
 Phys. Rev **B 46**, 10 657
52. H.Srikanth, A.K.Raychaudhuri, C.R.Rao, P.Ramaswamy, H.N. Aiyar, C.N.R. Rao  
**(1992) "Tunneling studies on single crystals of superconducting Bi<sub>2</sub>Ca<sub>1-x</sub>Y<sub>x</sub>Sr<sub>2</sub>Cu<sub>2</sub>O<sub>8-δ</sub>"**  
 Physica **C 200**, 273

## **1993**

53. M.Rajeswari and A.K.Raychaudhuri  
**(1993) "Specific heat measurements during cooling through the glass transition region"**  
 Phys.Rev. **B 47**, 3036
54. R.Goswami, S.Bannerjee, K.Chattopadhyay and A.K.Raychaudhuri,  
**(1993) "Superconductivity in rapidly quenched metallic systems with nanoscale structure"**  
 J. of Appl. Physics **73**, 2934
55. H.Srikanth and A.K.Raychaudhuri  
**(1993) "Tunneling studies on Sagnet tungsten bronzes near the metal – insulator transition "**  
 J. Phys. : Condens. Matter **5**, L551
56. M.Rajeswari and A.K.Raychaudhuri  
**(1993) "A model for the analysis of heat release from a supercooled liquid at the glass transition temperature".** Pramana –J. Phys. **41**, 401
57. S.Banerjee and A.K.Raychaudhuri  
**(1993) "Magnetoresistance of  $\text{Fe}_x\text{Ni}_{80-x}\text{Cr}_{20}$  ( $50 < x < 66$ ) and  $\text{Fe}_{25}\text{Cr}_{75}$  alloys "**  
 J. Phys (Letters): Condens. Matter **5**, L 295
58. H.Srikanth, A.K.Raychaudhuri, J.L.Peng and R.L.Greene  
**(1993) "Point contact tunneling studies on  $(\text{Y}_{1-x}\text{Pr}_x)\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$  single crystals".**  
 Physica **C 218**, 245
- 1994**
59. J.E.Van Cleve, A.K.Raychaudhuri and R.O.Pohl  
**(1994) "Glass like elastic properties in the  $\omega$ - $\beta$  alloys"** Z.Physik **B 93**, 479
60. A.K.Raychaudhuri, K.P.Rajeev, H.Srikanth and R.Mahendiran  
**(1994) "Low temperature studies on normal perovskite oxides: role of correlation an disorder"**  
 Physica **B 197**, 124
61. S.Banerjee and A.K.Raychaudhuri  
**(1994) "Electrical resistivities of  $\gamma$  -phase  $\text{Fe}_x\text{Ni}_{80-x}\text{Cr}_{20}$  alloys"** Phys Rev **B 50**, 8195
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62. S.Bannerjee R.Goswami, K.Chattopadhyay and A.K.Raychaudhuri,  
**(1995) "Structural and electrical transport properties of Al-Cu-Cr Quasicrystals "**  
 Phys. Rev **B 52**, 3220
63. S.Banerjee and A.K.Raychaudhuri  
**(1995) "Low temperature magnetoresistance of  $\gamma$ - phase  $\text{Fe}_x\text{Ni}_{80-x}\text{Cr}_{20}$  alloys near the critical composition of ferromagnetism"** Phys. Rev **B 52**, 3453
64. A.K.Raychaudhuri, K.P.Rajeev, H.Srikanth and N. Gayathri  
**(1995) "Metal – Insulator Transition In perovskite oxides : Tunneling Experiments"**  
 Phys. Rev **B 51**, 7421
65. R. Mahendiran, A.K. Raychaudhuri, A. Chainani and D.D. Sarama  
**(1995) "Large Magnetoresistance in  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$  and its dependence on magnetization"**  
 Appl. Phys. Letts. **66**, 233
66. R. Mahendiran, A.K. Raychaudhuri, A. Chainani and D.D. Sarama  
**(1995) " Low temperature Linear Magnetic field sensor based on magnetoresistance of the perovskite oxide La-Sr-Co-O"** Rev. Sci. Instrum. **66**, 3071

67. R. Mahesh, R. Mahendiran, A.K. Raychaudhuri and C.N.R Rao  
**(1995) “Giant Magnetoresistance in bulk samples of  $\text{La}_{1-x}\text{A}_x\text{MnO}_3$  (A = Sr or Ca)”**  
 J. Solid State Chem. **114**, 297
68. R. Mahendiran, R. Mahesh, A.K. Raychaudhuri and C.N.R Rao  
**(1995) “Composition dependence of giant magnetoresistance in  $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ”**  
 Solid State Comm. **94**, 515
69. R. Mahendiran, R. Mahesh, A.K. Raychaudhuri and C.N.R Rao  
**(1995) “Room temperature giant magnetoresistance in  $\text{La}_{1-x}\text{Pb}_x\text{MnO}_3$ ”**  
 J. of Physics D: Appl. Phys. **28**, 1743
70. R. Mahendiran, R. Mahesh, A.K. Raychaudhuri and C.N.R Rao  
**(1995) “Giant Magnetoresistance in Bulk samples of  $\text{LaMnO}_3$  with varying Mn content”.**  
 Pramana – J.Phys. (letters) **44**, L393
71. R. Mahendiran, A.K. Raychaudhuri, A. Chainani and D.D. Sarama  
**(1995) “Large magnetoresistance of  $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$  at low temperatures.”**  
 J. Phys. Condensed Matter (Letters) **7**, L 561
72. R. Mahesh, R. Mahendiran, A.K. Raychaudhuri and C.N.R Rao  
**(1995) “Effect of Internal Pressure due to the A-site cations on the giant magnetoresistance and related properties of doped rare earth manganates  $\text{Ln}_{1-x}\text{A}_x\text{MnO}_3$  (Ln = La, Nd, Gd)”**  
 J. Solid State Chem. **120**, 204

## **1996**

73. M.Dominguez, S.E. Lofland, S.M.Bhagat, A.K.Raychaudhuri, H.L.Ju and R.L. Greene  
**(1996) “Are single phase manganite samples truly homogeneous? A magnetic resonance study”**  
 Solid state Comm. **97**, 193
74. R. Mahendiran, S.K. Tiwary, A.K. Raychaudhuri, T.V. Ramakrishnan, R. Mahesh, N. Rangavittal and C.N.R Rao  
**(1996) “Structure electron- transport properties and giant magnetoresistance of hole doped  $\text{LaMnO}_3$  systems.”** Phys. Rev B **53**, 3348
75. R. Mahendiran, R. Mahesh, A.K. Raychaudhuri and C.N.R Rao  
**(1996) “Effect of Y substitution in La-Ca-Mn-O perovskite showing giant magnetoresistance”** Phys. Rev. B **53**, 12 160
76. R. Mahesh, R. Mahendiran, A.K. Raychaudhuri and C.N.R Rao  
**(1996) “Effect of particle size on the giant magnetoresistance of  $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ ”**  
 Appl. Phys. Letts. **68**, 2291
77. R. Mahendiran, S.K. Tiwary and A.K. Raychaudhuri  
**(1996) “Thermopower of giant magnetoresistive system  $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ”**  
 Solid state commn. **98**, 701
78. R.Mahendiran, R. Mahesh, A.K. Raychaudhuri and C.N.R Rao  
**(1996) “Resistivity, giant magnetoresistance and thermopower in  $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$  showing a large difference in temperatures corresponding to the ferromagnetic transition and the insulator-metal transition.”** Solid state Comm. **99**, 149
79. R. Mahesh, R. Mahendiran, A.K Raychaudhuri and C.N.R Rao

(1996) **“Effect of dimensionality on the giant magnetoresistance of the manganates : A study of  $(\text{La,Sr})_{n+1}\text{Mn}_n\text{O}_{3n+1}$  family”**. J. Solid State Chem. **122** , 448

80. M. Rajeswari, A. Goel, A.K. Raychaudhuri, C.Kown, T. Venkateswan and R.L. Greene  
(1996) **“Large Resistance fluctuation in epitaxial films thin films of GMR oxides “**  
Appl. Phys. Letts., **69** , 851 and Errata 1978

81. Geetha Ramaswamy and A.K. Raychaudhuri  
(1996) **“Nanostructure of giant magnetoresistive oxide film  $\text{Nd}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ ”**  
J. Appl. Phys. **80**, 4519

82. R. Mahendiran and A.K. Raychaudhuri  
(1996) **“Magnetoresistance of the spin state transition compound  $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ ”**  
Phys. Rev B **54**, 16 044

83. Amlan Biswas and A.K. Raychaudhuri  
(1996) **“Tunneling spectroscopy and the density of states in  $\text{La}_{0.8}\text{Ca}_{0.2}\text{MnO}_3$  “**  
J. Phys : Condensed Matter (letters) **8**, L 739

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(1996) **“Thermopower and nature of the hole doped states in  $\text{LaMnO}_3$  and related systems”**  
Phys. Rev. B (Rapid Commn) **54**, R 9604

85. R. Mahendiran, R. Mahesh, A.K. Raychaudhuri and C.N.R Rao  
(1996) **“Unusual field dependence of the resistivity and magnetoresistance in  $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ ”**  
J. Phys : Condensed Matter (letters) **8**, L 455

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(1996) **“Insulator –Metal transition , Giant magnetoresistance and related aspects of the cation deficient  $\text{LaMnO}_3$  compositions,  $\text{La}_{1-3}\text{MnO}_3$  and  $\text{LaMn}_{1-3}\text{O}_3$  “** J. Solid State Chem. **127** , 87

87. J.J. Hamilton, E.L. Keatley, H.L. Ju. A.K. Raychaudhuri, V. Smolyanionova and R.L. Greene  
(1996) **“Low temperature specific heat of  $\text{La}_{0.67}\text{Ba}_{0.33}\text{MnO}_3$  and  $\text{La}_{0.8}\text{Ca}_{0.2}\text{MnO}_3$  “**  
Phys. . Rev.B, **54**, 14 926

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(1996) **“Structural changes and related effects due to charge ordering in  $\text{Nd}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ ”**  
Phys. Rev B **54**, 15 303

## 1997

89. N. Gayathri, A.K. Raychaudhuri, S.K. Tiwary, R. Gundakaram, A. Arulraj and C.N.R Rao,  
(1997) **“Electrical transport, magnetism and magnetoresistance in ferromagnetic oxides with mixed magnetic exchange : a study of the  $\text{La}_{0.7}\text{Ca}_{0.3}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$  system”**  
Phys. Rev. B **56**, 1345

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(1997) **“Large deviation from Matheissen’s rule in chemical vapor deposited copper films and its correlation to nanostructure”** Journal of Physics D: (Appl. Physics) (Rapid Commn) L5-9, **30**

91. R. Gundakaram, A. Arulraj, P.V. Vanitha, C.N.R Rao , N. Gayathri and A.K. Raychaudhuri  
(1997) **“ Effect of substitution of  $\text{Cr}^{3+}$  in place of  $\text{Mn}^{3+}$  in rare earth manganates on the magnetism and magnetoresistance : role of superexchange interaction and lattice distortion in  $\text{LnMn}_{1-x}\text{Cr}_x\text{O}_3$ ”**  
J. Solid state Chem. **127**, 354

92. S. Bannerjee, A.K. Raychaudhuri, R. Goswami and K. Chattopadhyay

**(1997) “Low temperature resistivity and magnetoresistance of Icosahedral Quasi crystals Al-Cu-Cr”**  
J. Phys : Condensed Matter **9**, 6643

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**(1997) “Direct measurement of charge ordering gap in  $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$  using vacuum tunneling”** J.  
Phys : Condensed Matter (letters) **9**, L 355

94 G. Ramaswamy, A.K. Raychaudhuri, J. Goswami and S.A. Shivashankar  
**(1997) “Scanning tunneling microscope study of the morphology of chemical vapor deposited copper films and its correlations with its resistivity”** J. Appl. Physics **82**, 3797

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**(1997) “Epitaxial films of  $\text{La}_{1-x}\text{MnO}_3$  exhibiting CMR prepared using neublized spray pyrolysis”**  
J. Phys D (Appl Phys) (rapid commn)**30**, L1-L3

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**(1997) “Dependence of the conductivity noise of metallic oxide interconnects on the oxygen stoichiometry : A study of  $\text{LaNiO}_{3-\delta}$ ”**  
J. Phys D (Appl. Phys) (rapid commn) **30**, L 75

## **1998**

97 A. Biswas, A.K. Raychaudhuri  
**(1998) “Temperature dependent vacuum tunneling spectroscopy of rare-earth manganates showing colossal magnetoresistance and charge ordering”** Appl. Phys. A **66**, S1213

98. A. Arulraj, R. Gundakaran , A. Biswas, N Gayathri and A.K. Raychaudhuri and C.N.R Rao ,  
**(1998) “Charge ordered state in  $\text{Y}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$  with a very small average radius of the A-site cation”**  
J. Phys : Condensed Matter **10**, 4447

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**(1998) “A study of spatial variation of electric field in highly resistive metal films by scanning tunneling potentiometry”** Appl. Phys. A **66**, S 435

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**(1998) “Electronic conduction in  $\text{LaNiO}_{3-\delta}$  : Dependence on oxygen stoichiometry”**  
J. Phys: Condens. Matter **10**, 1323

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**(1998) “ Incipient charge order in a manganate with a critical average radius of the A-site cation “**  
Phys. Rev. (Rapid commn.) **57**, R 8115.

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