

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D	Madras	1997	By thesis	Physics
M. Sc	Bharathiar	1988	I	Physics
B. Sc	Madras	1986	I	Physics

9. Academic/Administrative Responsibilities within the Institute

Position	Faculty/Department/Centre/Institution	From	To
M. Sc Co-ordinator	Physics	2007	2009
Ph. D Co-ordinator	Physics	2009	2010
M. Sc Co-orinator (II year)	Physics	2016	Present
NBA Accreditation Committee Member	Institution	2011	2013
HPC center Committee Member	Institution	2013	2015

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
PG BoS Member	Pondicherry Central University	2015	2018

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

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13. Details of Academic Work

(i) Curriculum Development

Developed for the following PG Courses:

1. Classical Mechanics
2. Quantum Mechanics
3. Nuclear and Particle Physics
4. Advanced Statistical Methods and Phase Transition Theories

(ii) Courses taught at Postgraduate and Undergraduate levels

PG - M. Sc

1. Classical Mechanics
2. Quantum Mechanics
3. Thermodynamics and Statistical Physics
4. Nuclear and Particle Physics
5. Advanced Statistical Methods and Phase Transition Theories
6. I and II year labs

PG – M. Tech (Non Destructive Testing)

1. Fabrication Technology
2. Advanced NDE Techniques II
3. Materials Characterization Techniques

B. Tech

1. Engineering Physics I and II
2. 1st and 2nd semester labs

7. Projects guided at Postgraduate level - 25
8. Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Sathya Shella		Supervisor	Ongoing
Kanagaraj		Supervisor	Ongoing

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
Dec. 16-20, 2014		National	Speaker	DAE Solid State Physics Symposium	VIT University, Vellore, India.
Dec. 18-20, 2012,		International	Speaker	4th International Conference on Solid State Science and Technology,	Malacca, Malaysia.
Feb 26-28, 2012		International	Speaker	ICKEM-2012	Singapore

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Students Symposium	Local	22.02.2008	Staff advisor	NIT, Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization

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Refresher course on Quantum Mechanics	Sep. 2012	University of Madras
Introduction to Density Functional Theory	July 2014	Madurai Kamaraj University
UCG lecture series on computational Physics	Dec. 2013	Pondicherry Central University

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life	Institute of Physics, UK	2011
Life	American Physical Society, USA	2011

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

1. Lakshmi Priya K. B and Baskaran Natesan, " Phase Transition Studies of BiMnO₃: Mean Field Theory Approximations", American Institute of Physics Conference series (2015) **1665**, 030004-1.
2. Indrajith V. S and Baskaran Natesan, "Structure and Dynamics of Complex Liquid Water: Molecular Dynamics Simulation", American Institute of Physics Conference series (2015) **1665**, 040002-1.

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3. Sathya Sheela S, Kanagaraj C and Baskaran Natesan, "*Ab initio* Investigations of A-site Doping on the Structure and Electric Polarization of HoMnO_3 ", American Institute of Physics Conference series (2015) **1665**, 090026-1.
4. Sathya Sheela S. and **N. Baskaran**, "Theoretical investigations of structural and magnetic ground state stability of BiMnO_3 ", *Physics Procedia* (2014) **54**, 132.
5. S. Sheela Sathya, C. Kanagaraj, and N. Basakaran, Electric polarization in ferromagnetic $\text{Bi}_{1/2}\text{As}_{1/2}\text{MnO}_3$: A first principle study, American Institute of Physics Conference series (2014), **1591**, 1663.
6. Sathya Sheela S. and **N. Baskaran**, "Magnetic Ground State and Electronic Structure Calculations of PbMnO_3 using DFT", *Advanced Materials Research* (2014), **895**, 420
7. Sathya Sheela S., T. Ozaki, K. Yamauchi, T. Oguchi and **N. Baskaran** "Influence of Lone Pair Doping on the Multiferroic Property of Orthorhombic HoMnO_3 : *Ab initio* prediction", *J. Phys.: Cond. Matt.* (2013), **25**, 385901-8.
8. S. Sudhagar and **N. Baskaran**, "Monte Carlo Simulation of an Antiferromagnetic Spin-1/2 Ising System on the Square Lattice", American Institute of Physics Conference series (2012), **1447**, 121
9. C. Kanagaraj and **N. Baskaran**, "Ab-initio Electronic Structure Studies of CuO Multiferroics", *Advanced Materials Research* (2012) **488-489**, 129
10. N. K. Karan, D. K. Pradhan, R. Thomas, **B. Natesan**, R. S. Katiyar, Solid polymer electrolytes based on polyethylene oxide and lithiumtrifluoro-mehane sulfonate ($\text{PEO-LiCF}_3\text{SO}_3$): Ionic conductivity and dielectric relaxation, *Solid State Ionics* 179 (2008) 689.
11. Arun Kumar, Rahul Singhal, **B. Natesan**, M. S. Tomar and R. S. Katiyar, Synthesis, characterization and application of LiFePO_4 cathode material for Li ion rechargeable batteries, *Electrochem. Soc.* 701 (2007) 208.
12. **B. Natesan**, N.K. Karan and R.S. Katiyar Ion relaxation dynamics and nearly constant loss behavior of polymer electrolyte, *Physical Review E* 74 (2006) 042801.
13. **B. Natesan**, N. K. Karan, R. S. Katiyar, M. B. Rivera and F. M. Aliev, Segmental relaxation and ion transport process in polymer films by dielectric spectroscopy, *J. Non-Crystalline Solids* 352 (2006) 5205.
14. N. K. Karan, **B. Natesan** and R. S. Katiyar, Structure and ion transport properties of lithium borophosphate glasses, *Solid State Ionics* 177 (2006) 1429.
15. **N. Baskaran**, Xu. Hui and Peggy Cebe, Molecular relaxation processes of isotactic polystyrene: Real-time dielectric spectroscopy and X-ray scattering studies, *J. Poly.*

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Sci: Part B: Polymer Phys. Ed. **42** (2004) 777.

16. A. Ghule, **N. Baskaran**, R. Murugan and Hua Chang, Phase transformation studies of Na_3PO_4 by thermo-Raman and conductivity measurements, *Solid State Ionics* 161 (2003) 291.
17. **N. Baskaran**, Conductivity relaxation and ion transport processes in glassy electrolytes, *J. Applied Physics* 92 (2002) 825.
18. **N. Baskaran**, Anil. Ghule, Chetan. Bhongale, Ramasamy Murugan and Hua Chang, Phase transformation studies of ceramic BaTiO_3 using thermo-Raman and dielectric constant measurements, *J. Applied. Physics* 91 (2002) 10038.
19. **N. Baskaran** and Hua Chang, Thermo-Raman and dielectric constant studies of $\text{Ca}_x\text{Ba}_{1-x}\text{TiO}_3$ ceramics, *Mater. Chem. and Phys.* 77 (2002) 889.
20. **N. Baskaran** and Hua Chang, Effect of Sn doping on the ferroelectric transformation properties of ferroelectric BaTiO_3 , *J. Mat. Sci.: Materials in Electronics* 12 (2001) 527.
21. K. J. Rao, **N. Baskaran**, P. A. Ramakrishnan, B. G. Ravi and A. Karthikeyan, Structural and lithium ion transport studies in sol-gel prepared lithium silicophosphate glasses, *Chem. of Materials*, 10 (1998) 3109.
22. Karthikeyan, A., Ravi, B.G., Baskaran, N. and Rao, K. J. (1998): Lithium lead hosphate glasses: Structure and Conductivity studies. **Comm. of the Eur. Comm.**, INCO-DC:950-400, 30-43.
23. Rachna Mishra, **N. Baskaran**, P. A. Ramakrishnan and K. J. Rao, Lithium ion conduction in extreme polymer in salt regime, *Solid State Ionics*, 112 (1998) 261.
24. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, AC conductivity and relaxation processes in silver selenochromate glass, *Solid State Ionics*, 98 (1998) 217.
25. B. G. Ravi, **N. Baskaran** and S. Ramasamy, Effect of anion disorder on the ionic conductivity in CaF_2 single crystals, *Mat. Chem. Phys.*, 47 (1997) 57.
26. B. G. Ravi, **N. Baskaran**, M. Sekar, K. Govindarajan and S. Ramasamy, Preparation and ac conductivity studies of CaF_2 -LiF composites, *Matt. Sci. and Engg.*, B41 (1996) 241.
27. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, Solid State Batteries using glassy electrolytes, *J. Power sources*, 55 (1995) 153.
28. G. Govindaraj, **N. Baskaran**, K. Shahi and P. Manoravi, Preparation, conductivity, dielectric and electric modulus studies of $\text{AgI-Ag}_2\text{O}$ ($\text{SeO}_3+\text{MoO}_3$) glasses, *Solid State Ionics*, 76 (1995) 47.

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29. G. Govindaraj and **N.Baskaran**, Influence of dopant salt AgI, glass modifier Ag₂O and glass formers SeO₃+MoO₃ on electrical conductivity in quaternary glassy system, Solid State Ionic Materials, pp. 271 – 276 (1994), (Ed.) B. V. R.Chowdari et al., World Scientific Publishing Company, Singapore.
30. **N. Baskaran** and G. Govindaraj, Fast ionic conductivity in the presence of competitive glass network formers, Solid State Ionic Materials, pp. 277 – 282, (1994) (Ed.) B. V. R. Chowdari et al., World Scientific Publishing Company, Singapore.
31. **N. Baskaran** and G. Govindaraj, AC conductivity and electric modulus behavior of vitreous AgI-Ag₂O-(SeO₂+V₂O₅) system, Matt. Sci. and Engg., B25 (1994) 135.
32. B. G. Ravi, S. Ramasamy and **N. Baskaran**, Ionic transport studies in the system AgI-HgI₂-CdI₂, J. Mat. Sci. Lett., 12 (1993) 464.

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)

(B) Conferences/Workshops/Symposia Proceedings

1. Lakshmi Priya K. B and Baskaran Natesan, " Phase Transition Studies of BiMnO₃: Mean Field Theory Approximations", DAE Solid State Physics Symposium, Dec. 16-20, 2014, VIT University, Vellore, India.
2. Indrajith V. S and Baskaran Natesan, "Structure and Dynamics of Complex Liquid Water: Molecular Dynamics Simulation", DAE Solid State Physics Symposium, Dec. 16-20, 2014, VIT University, Vellore, India.
3. Sathya Sheela S, Kanagaraj C and Baskaran Natesan, "*Ab initio* Investigations of A-site Doping on the Structure and Electric Polarization of HoMnO₃", DAE Solid State Physics Symposium, Dec. 16-20, 2014, VIT University, Vellore, India.
4. Sathya Sheela S. and **N. Baskaran**, "Theoretical investigations of structural and magnetic ground state stability of BiMnO₃", International Conference on Magnetic Materials and Applications, Dec. 05-07, 2013, IIT Guwahati, Assam, India.
5. S. Sheela Sathya, C. Kanagaraj, and N. Basakaran, Electric polarization in

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- ferromagnetic $\text{Bi}_{1/2}\text{As}_{1/2}\text{MnO}_3$: A first principle study, DAE Solid State Physics Symposium, Dec. 17-21, 2013, Thapar University, Patiala, Patiala, India.
6. Sathya Sheela S. and **N. Baskaran**, "Magnetic Ground State and Electronic Structure Calculations of PbMnO_3 using DFT", 4th International Conference on Solid State Science and Technology, Dec. 18-20, 2012, Malacca, Malaysia.
 7. S. Sathya Sheela, Taisuke Ozaki, Kunihiro Yamauchi, **N. Baskaran** and Tamio Oguchi, A First Principle exploration of A site ordered $\text{Ho}_{0.5}\text{A}_{0.5}\text{MnO}_3$ (A= Ge, Sn, Pb, As, Sb, Bi, Se, Te), APS Meeting, Feb 27-29, 2012, Boston, USA.
 8. C. Kanagaraj and **N. Baskaran**, Ab-initio Electronic Structure Studies of CuO Multiferroics, ICKEM-2012 Singapore, Feb 26-28, 2012.
 9. S. Sudhagar and **N. Baskaran**, Monte carlo simulation of an Antiferromagnetic Spin-1/2 Ising system on the Square lattice, *DAE-SSPS-2011, Dec19-24 2011*, SRM University, Chennai.
 10. C. Kanagaraj and **N. Baskaran**, Ab initio Electronic Structure studies of Triangular Lattice MnI_2 , International Conference on Advanced Materials, Dec 12-16, 2011, PSG college of Technology, Coimbatore.
 11. S. Sathya Sheela and **N. Baskaran**, First Principles Study of Hexagonal and Orthorhombic YMnO_3 , MRS Fall Meeting Nov 27-Dec 1, 2011, Boston, USA.
 12. C. Kanagaraj and **N. Baskaran**, Electronic Structure Calculations of CuCl_2 using First Principles DFT Method, MRS Fall Meeting Nov 27-Dec 1, 2011, Boston, USA.
 13. S. Sathya Sheela, Taisuke Ozaki and **N. Baskaran**, First Principle study of doping HoMnO_3 with lan pair cations, 14th Asian Workshop on First-Principles Electronic Structure Calculations, The University of Tokyo, Japan. Oct 31-Nov 2, 2011.
 14. S. Sathya Sheela, Taisue Ozaki and **N. Baskaran**, Thermodynamic properties of 3C Perovskite Phase of PbMnO_3 , APTPC workshop, Jan. 17-21, 2011, Tokyo, Japan.
 15. S. Sathya Sheela and **N. Baskaran**, Ab-initio Electronic Structure of 3C Perovskite Phase of PbMnO_3 , International Conference on Nano Science and Technology, BARC & TIFR, Mumbai, 17-30 Feb. 2010.
 16. S. Sathya Sheela, K. M. Skarlans and **N. Baskaran**, First Principle Studies of Structure and Spin Ordering in BiMnO_3 , Indo-US workshop on advance magnetic materials and their application, IIT Bombay, March 1-4, 2009.
 17. K. M. Skarlans, S. Sathya Sheela and **N. Baskaran**, Structural Stabilization of YMnO_3 by Collinear Magnetic Ordering using Ab initio Calculations, Indo-US workshop on advance magnetic materials and their application, IIT Bombay, March

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- 1-4, 2009.
18. **N. Baskaran**, Effect of blending on the glass transition and the segmental relaxation dynamics of polyethylene oxide, *The 5th International Workshop on Complex System*, September 25-27, 2007, Sendai, Japan.
 19. N. Ortega, **B. Natesan**, R.S. Katiyar, P. Dutta, M. S. Saheera, I. Takeuchi and M. Tomar, Effect of processing conditions on the electrical and magnetic properties of PbZrTiO₃/CoFeO₂ multilayer thin films, MRS spring meeting, April 9-13, 2007, San Francisco, California, USA.
 20. M. Correa, **B. Natesan**, and R. S. Katiyar, Dielectric Spectroscopy and conductivity relaxation of PSN-PST relaxor thin films, American Physical Society meeting, Denver, Colorado, March 5-9, 2007.
 21. Nora Ortega, **N. Baskaran**, R. S. Katiyar and I. Takeuchi, Dielectric spectroscopy of pulsed laser deposited typePb(Zr,Ti)O₃ (PZT)/CoFe₂O₄ (CFO) and CFO/ PZT multilayer thin films, American Physical Society meeting, Denver, Colorado, March 5-9, 2007.
 22. N. K. Karan, **B. Natesan** and R. S. Katiyar, Dielectric relaxation and ion transport in PEO- LiCF₃SO₃ polymer electrolytes, MRS fall meeting, Boston, November, 26-30, 2007.
 23. Ortega N, **N. Baskaran** , P. Bhattacharya, R.S. Katiyar, P. Dutta, M.S. Seehra I. Takeuchi , and M. Tomar, Dielectric spectroscopy of pulsed laser deposited lead zirconate titanate/ cobalt iron oxide composite thin films, MRS fall meeting, Boston, November, 26-30, 2007.
 24. Naba K. Karan, **B. Natesan** and Ram S. Katiyar, Ionic conductivity and its correlation to segmental motions in solid polymer electrolytes, 210th ECS Meeting Oct. 29th – Nov. 3rd, 2006, Cancun, Mexico.
 25. **B. Natesan**, N.K. Karan, S. Nieto-Ramos, and R.S. Katiyar, Fabrication of All Solid-State Lithium-Polymer Battery Using Nano-Fibrous Polymer Electrolyte, *209th Meeting of the Electrochemical Society*, Denver, CO, May 7-12, 2006.
 26. **B. Natesan**, N.K. Karan, and R.S. Katiyar, Synthesis and Transport Properties of Nano-composite Solid Polymer Electrolytes: Applications to Solid-state Batteries, *DOE/NSF EPSCoR Conference 2005*, Morgantown, West Virginia, June 14-16, 2005.
 27. **N. Baskaran**, N. K. Karan, R. S. Katiyar, M. B. Rivera and F. M. Aliev, Segmental relaxation and ion dynamics of polymer-ceramic composite films using dielectric spectroscopy, Vth International Discussion meeting on Relaxations in Complex Systems, July 4-7, 2005 Lilee, France.

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28. N. K. Karan, **N. Baskaran** and R. S. Katiyar, Structure and morphological studies of ion conducting polymer nano-rods for lithium batteries, Second international conference on fuel cells and batteries, Los Vegas, Nevada, June 12-17, 2005.
29. N. Karan, **N. Baskaran** and R. S. Katiyar, Structure and ion transport properties of lithium phosphate glasses, American Ceramic Society meeting, Baltimore,
30. **N. Baskaran**, N. K. Karan and R.S. Katiyar, A.C. conductivity and dielectric relaxation process of nano-composite polymer electrolytes, Americal Physical Society meeting, Los Angeles, California, March 21-25, 2005.
31. S.B. Majumder, S.R. Das, S. Nieto-Ramos, N.K. Karan, **B. Natesan**, and R.S. Katiyar Material Architecture and Charge Transport in Nano-Crystalline Rechargeable Li Ion Batteries, *206th Meeting of the Electrochemical Society*, Hawaii, October 3-8, 2004, Washington, April 17-21, 2005.
32. **N. Baskaran**, Xu. Hui and Peggy Cebe, Molecular relaxation processes of isotactic polystyrene: Real-time dielectric spectroscopy and X-ray scattering studies, American Physical Society meeting, Houston, Texas, Mar 4-9, 2003.
33. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1996, Ion hopping at low temperatures in vitreous AgI-Ag₂O-SeO₃-CrO₃ system, DAE, Solid State Physics Symposium, BARC, Mumbai, V39, India.
34. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1996, Silver solid state batteries with oxide glass, II National Conference on Solid State Ionics, IIT, Madras, India.
35. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1995, Complex impedance, permittivity and electric modulus studies in AgI-Ag₂O-CrO₃ system, 10th International Conference on Solid State Ionics, Singapore.
36. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1995, Study of ac conductivity and dielectric properties in AgI-Ag₂O-SeO₃-CrO₃ glasses, 10th International Conference on Solid State Ionics, Singapore.
37. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1995, Glass transition studies in fast ion conducting AgI-Ag₂O-SeO₃-MoO₃, glass, 10th International Conference on Solid State Ionics, Singapore.
38. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1994, The effect of glass former composition on conductivity and dielectric loss in silver selenomolybdate glassy system, Materials Research Society Fall Meeting, Boston.
39. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1994, Dielectric studies on the ionic conducting glassy AgI-Ag₂O-SeO₃-CrO₃ system, Fifth International Symposium on Advances in Electrochemical Science and Technology, Madras, India.

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40. **N. Baskaran**, G. Govindaraj and A. Narayanasamy, 1994, Solid state batteries based on glassy electrolytes, DAE Solid State Physics Symposium, Jaipur, V37, India.
41. B. G. Ravi, **N. Baskaran** and S. Ramasamy, 1994, The effect of glass modifier to glass former ratio on the dielectric behaviour of AgI-Ag₂O-SeO₃-MoO₃ glasses, First National Conference on Solid State Ionics, Amirtsar, India.
42. B. G. Ravi, **N. Baskaran** and S. Ramasamy, 1994, Frequency dependent conductivity of the fast ionic conducting vitreous AgI-Ag₂O-SeO₃-CrO₃ system, First National Conference on Solid State Ionics, Amirtsar, India.
43. B. G. Ravi, **N. Baskaran** and S. Ramasamy, 1994, The effect of anion disorder on the ionic conductivity of CaF₂, First National Conference on Solid State Ionics, Amirtsar, India.
44. B. G. Ravi, **N. Baskaran** and S. Ramasamy, 1994, AC conductivity studies on Ca_{1-x}L_xF_{2-x} composites, First National Conference on Solid State Ionics, Amirtsar, India.
45. B. G. Ravi, **N. Baskaran** and S. Ramasamy, 1994, Ionic conductivity studies on CaF₂-LiF composites, XXV National Conference on Bio-Physics and Crystallography, Madras, India.
46. G. Govindaraj and **N. Baskaran**, 1994, Preparation and ac conductivity studies on silver based selenomolybdate glassy system, V Annual Meeting of Materials Research Society, Hyderabad, India.
47. G. Govindaraj and **N. Baskaran**, 1993, Impedance and modulus spectra studies of vitreous AgI-Ag₂O-(SeO₂+V₂O₅) system, DAE, Solid State Physics, V 36, India.
48. N. Satyanarayana, G. Govindaraj, A. Karthikeyan and **N. Baskaran**, 1991, Preparation and ionic conductivity of Ag₂O-B₂O₅-SiO₂ system by sol-gel method, VI International Workshop on glasses and ceramic from gels, Sevilla, Oct. 6 –11 Spain.
49. N. Satyanarayana, G. Govindaraj, A. Karthikeyan and **N. Baskaran**, 1991, Glass formation and ionic conductivity studies of vitreous AgI-Ag₂O-(SeO₂+V₂O₅) system, Solid State Ionics 8th International Conference, Oct. 20 - 26, Ontario, Canada.

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

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(C) Books & Monographs – NIL

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number