

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

Curriculum Vitae

Dr.R.Nagalakshmi received her Ph.D., from Bharathidasan University, Tiruchirappalli, India. She pursued her postdoctoral research in the Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai. She joined in the Department of Physics as faculty in December 2008.



Current work :

1. Synthesis, growth and characterization of new organic non-linear optical crystals with large transparency in UV–VIS region, optical susceptibilities, inherent ultrafast responses times, high optical threshold for laser power and conversion efficiency for second harmonic generation (SHG) and Terahertz (THz) applications
2. Preparation of Poly and single crystalline rare earth intermetallic compounds (3D transition metals, rare earth and uranium) which exhibits strong electron correlations such as magnetic order, Kondo, Heavy fermion, Spin glass and superconductivity at low temperatures. The properties are measured using the techniques of electrical resistivity, magnetization and specific heat in the temperature range 1.8-300K and the analysis of data.
3. Investigations on some rare earth (Gd and Dy) and manganese based magnetic refrigerant materials

*In the study of FeAs systems, for Co-doped sample $CaFe_{1.94}Co_{0.06}As_2$ a superconducting transition is observed at $T= 17$ K (*Physical Review B* **79**, (2009) *012504*)*

1. Name : Dr. R. Nagalakshmi
2. Designation : Assistant professor
3. Office Address: Department of physics, NIT Trichy
4. Telephone & Exchange 0431-2503600 & 3615
5. Email : nagaphys@yahoo.com , nagalakshmi@nitt.edu
6. Field(s) of Specialization :
 - **Nonlinear optics**
Single crystal growth of nonlinear optical materials – Solution and Melt
Vibrational spectroscopy
 - **Strongly correlated electron systems**
Rare earth intermetallic systems - Flux technique and Arc Melting
Magnetism and superconductivity at low temperatures
Rare earth & Non Rare earth based

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Magnetocaloric Materials

7. Employment Profile

| Job Title | Employer | From | To |
|---------------------------------|--|--------------|------------------|
| Assistant Professor/Physics | National Institute of Technology, Tiruchirappalli, TN | Dec 2008 | till date |
| Post doctoral Fellow | Tata Institute of Fundamental Research, Mumbai , Department of Condensed Matter Physics and Materials Science | August 2007 | December 2008 |
| Research Associate | Indian Institute of Science, Bangalore | 02 July 2007 | 31 July 2007 |
| Senior Research Fellow, CSIR | Periyar University , Salem | April 2007 | June 2007 |
| Junior Research Fellow, DRDO | Nehru Memorial College (Autonomous) Puthanampatti, Tiruchirappalli | April 2003 | October 2006 |

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

| Examination | Board / University | Year | Division/ Grade | Subjects |
|--------------------|--|-------------|---------------------------------|-------------------------------|
| Ph.D | Bharathidasan University Tiruchirappalli | 2007 | Commended | Physics, Materials Science |
| M.Phil | Bharathidasan University Tiruchirappalli | 2004 | 89.6%, Distinction | Physics |
| M.Sc | Bharathidasan University Tiruchirappalli | 2002 | 81.9% First Class | Applied Physics |
| B.Sc | Bharathidasan University Tiruchirappalli | 2000 | 83.5%, University, Eighth | Physics |

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| | | | | |
|--|--|--|---|--|
| | | | Rank, First Class with Distinction | |
|--|--|--|---|--|

9. Academic/Administrative Responsibilities within the University

| Position | Faculty/Department/Centre/Institution | From | To |
|---|--|-----------|-----------|
| Ph.D. Coordinator (Department Coordinator) | Ph.D admissions, Conducting Class Test and Semester Examination, Comprehensive Viva and Overall monitoring of the course at Department level | June 2012 | July 2016 |
| Ph.D. Coordinator (Institute) for Physics and Chemistry | ..do... at Institute level for Physics and Chemistry departments | June 2012 | June 2014 |

10. Academic/Administrative Responsibilities outside the University

| Position | Institution | From | To |
|---------------------------------------|--|------|----|
| Doctoral committee member | Anna University of Technology, Tiruchirappalli | - | - |
| | University College of Engineering, Panruti | - | - |
| | Bharathidasan University, Tiruchirappalli | - | - |
| | Anna University of Technology, Tiruchirappalli | - | - |
| | Periyar University, Salem | - | - |
| | Karpagam Academy of Higher Education, Coimbatore | - | - |
| Thesis Examiner (Ph.D/M.Sc/M.Phil) | Anna University of Technology, Tiruchirappalli | - | - |
| | University of Kerala | - | - |
| Question paper Setting and Evaluation | Bharathidasan University, Tiruchirappalli Kalasalingam University, Virudhunagar | | |

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11. Awards, Associateships etc.

| Year of Award | Name of the Award | Awarding Organization |
|---------------|---|--|
| 2016 | Travel grant to present papers (Oral and Poster) in Conference at Big Sky, Montana , USA. | DST and INSA |
| 2010 | Young Scientist Research Award | Basic science Committee, Board of Research in Nuclear Sciences |
| 2009-2012 | Level – II certification on Ultrasonic Testing | ASNT |
| 2002 | First Rank (Gold Medalist) in M.Sc Applied Physics | Bharathidasan University, Tiruchirappalli |
| 2000 | 8 th Rank in B.Sc (Physics) | Bharathidasan University, Tiruchirappalli |

12. Fellowships

| Year of Award | Name of the Fellowship | Awarding Organization | From (Month/Year) | To (Month/Year) |
|---------------|---|---|-------------------|-----------------|
| 2006 | Jawaharlal Nehru Memorial fellowship | Osaka University, Osaka, Japan | Apr 2006 | July 2006 |
| 2006 | Visiting Fellowship | Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore | 2006 | 2007 |
| 2010 & 2016 | National Slovak Scholarship for Teachers, (Twice) | Slovak Academy of Sciences | May 2010 | July 2010 |

13. Details of Academic Work

(i) **Curriculum Development: (Syllabus Revision)**

M.Sc :PH 677 - Instrumentation and PH 661 Solid State Physics,
PH- 659-General Physics Laboratory – I (Introduced New Experiments)

M.Tech :PH 614- Advanced NDT I

Ph.D : Course work

(ii) **Courses taught at Postgraduate and Undergraduate levels :**

B.Tech :PH 101 and PH 102-(PHYSICS I and II)

M.Sc :PH 677 - Instrumentation and PH 661 Solid State Physics,
PH- 659-General Physics Laboratory – I

M.Tech :PH 614- Advanced NDT I

Ph.D : Course work

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(iii)Projects guided at Postgraduate level

MSc Projects

| Year | Roll No & Name | Title of the project |
|------|--------------------------------|---|
| 2010 | 213208016 Alphonse J | Growth and Characterization of Hydroxyethylammonium (L) tartrate monohydrate crystals for Nonlinear Optical applications |
| 2011 | 213209028 Keerthana B | A New Acid – Base Complex Hydroxyethylammonium Picrate single crystal |
| | 213209016 Subramanian G | Growth and Characterization of Anilinium Hydrogen Sulfate single crystal for Nonlinear Optical applications |
| 2012 | 213210003 Jasmine priya G | Growth and Characterization of 2,5 – dichloroanilinium Picrate single crystal for NLO applications |
| | 213210018 Shalini P | Investigation on the properties of para-aminoazobenzene single crystal for Nonlinear Optical applications |
| 2013 | 213211003 Keerthana R | Investigation on new organic crystal: Benzoic Acid-4-Ammonium Picrate(BAAP) |
| | 213211008 Deepanraj K | Investigation of the structural, thermodynamic and magnetic properties of CeSi compounds |
| 2014 | 213212023 Arun K | Magnetization and Thermodynamics studies of CeCuGa ₃ |
| | 213212035 Nithish Karthik E | Growth and Characterization of Hydroxyethylammonium 3,5-dinitrobenzoate single crystal |
| 2015 | 213213013 Deviga S | Growth and Characterization of 3-Carboxyaniline 3-Carboxyanilinium picrate(MCAP) single crystal |
| | 213213027 Shanmuga Priya K | Magnetization and Thermodynamics studies of CeCuAl ₃₀ |
| 2016 | 213214003 Saranya K | Investigations on the structure and magnetic properties of CO ₂ Ti _{1.5} Sn _{0.5} Heusler compound |
| | 213214005 Kavya Mukundan | Structural, Magnetic and Transport Properties of CeAg _{0.68} Si _{0.32} |

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M-Tech Projects

| Year | Roll No & Name | Title of the Project |
|-------------|--|---|
| 2009-10 | 213108020 Chandrashekhar Thiramdas | Thermographic study of defects and damage in materials |
| 2010-11 | 213109003 Venkat Reddy. K | Non Destructive Characterization of powder metallurgy compacts |
| | 213109013 Suresh J | Inspection of composite materials using active NDT thermography techniques |
| 2011-12 | 213110013 Shivputra R. Tangadi | Tool Condition monitoring with Acoustic emission during turning operation on 316l stainless steel rod |
| 2012-13 | 213111022 Ajil P James | Structural health monitoring of steel components through magnetic sensors using Nanostructured materials |
| | 213111015 N. K. S. Praveen Telidevara | Wavelet based signature identification of Acoustic emission signals generated during tensile deformation of aisi type 316 stainless steel |
| 2013-14 | 213112027 Sarath S | Underwater ultrasonic imaging of Complex Geometries |
| | 213112026 Antony Cherian | Compositional analysis of minerals using non-invasive infrared thermography |

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| | | |
|---------|-----------------------------|--|
| 2014-15 | 213113002 Umesh R | Flow Gauging using ultrasonic in small diameter pipes |
| | 213113028 Yateesh Madaka | Characterization of Materials through ultrasonic wave scattering |
| 2015-16 | 213114002 Junais Kumr T | Inspection of composite wing box using non contact air coupled ultrasonic testng |
| | 213114001 Sajith S | Ultrasonic thickness measurement of internal carbide layer in heater tubes |

(iv)Other contribution(s)

- Purchase initiator of department plan fund purchases
- Committee members for convocation at institute level
- Stock verification at institute level
- Establishment of research laboratory facilities

14. Details of Major R&D Projects

| Title of Project | Funding Agency | Duration | | Status |
|---|---|----------|------|-----------------------|
| | | From | To | Ongoing/ Completed |
| Growth and irradiation of Rare earth intermetallic crystals for magnetic applications | DAE Young scientist Research Award by Basic science Committee, Board of Research in Nuclear Sciences (BRNS). No: 2010/20/37P/13/BRNS dt 18/2/2011 | 2010 | 2013 | Completed |
| Functionalized materials for electrooptics: Synthesis, single crystal growth, nonlinear and electrooptical properties | Council Of Scientific And Industrial Research Human Resource Development Group No: 03(1158)/10/EMRII dated 26/4/2010 | 2010 | 2013 | Completed |
| Crystal growth vibrational studies and nonlinear optical properties of tartrates | Indo Portugese Joint Project by DST INT/PORTUGAL/P-12/2009 dated 27/12/2009 | 2010 | 2013 | Completed |
| Magnetic field induced structural transition studies on some rare earth and non-rare earth giant MCE compounds | UGC-DAE Indore CSR-IC/CRS-150/2015-2016/07 Date: 26/03/2016 | 2016 | | Ongoing |

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|---|----------------------|------|------|------------|
| exhibiting first-order magnetic transitions | | | 2019 | |
| Investigations of novel cost-effective Manganese (Mn) based magnetic materials for magnetic refrigeration application | Naval Research Board | 2016 | | Sanctioned |

15. Number of PhDs guided: 2

| Name of the PhD Scholar | Title of PhD Thesis | Role(Supervisor/ Co-Supervisor) | Year of Award |
|--------------------------------|--|--|----------------------|
| S.Nallamuthu | Magnetic, Thermodynamic and Transport Properties of R-T-X Type Intermetallic Compounds | Supervisor | 2016 |
| N.Sudharsana | Growth And Charecterisation Of Novel Organic Crystals For Nonlinear Applications | Supervisor | 2014 |

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

Workshops

| Date (s) | Title of Activity | Level of Event (International/ National/ Local) | Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other) | Event Organized by | Venue |
|----------------------|---|--|---|---------------------------------------|---|
| December 7-10, 2004. | Indo Japan Workshop on crystal growth and applications of advanced materials for Opto electronics | International | Participant | Crystal Growth Centre Anna University | Crystal Growth Centre Anna University, Chennai, India |
| July 6-7, 2005 | Accelerator User | National | Participant | University Accelerator | University |

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|------------------------------------|---|---------------|------------------------|--|--|
| | Workshop | | | Centre (IUAC), New Delhi | Accelerator Centre (IUAC), New Delhi, |
| August 18-19, 2005 | workshop on optics and Photonics-WOOP 2005, | National | Participant | National Institute of Technology | National Institute of Technology |
| August 30-31, 2005. | workshop on recent advances in Physical science Research, | National | Participant | Periyar University, Salem | Periyar University, Salem, |
| 2005 and 2009 | irradiation of swift heavy ions | | Experimental work | Inter University Accelerator Center (IUAC), New Delhi | Inter University Accelerator Center (IUAC), New Delhi |
| November 25 and December 5, 2007. | Workshop on 'Correlated Electrons and Frustrated Magnetism' (CEFM 07), | International | Participant | International Centre, Dona Paula, Goa, | International Centre, Dona Paula, Goa, |
| January 27, 2009 – 2 February 2009 | Training and Certification course on ASNT – Level 2- on Ultrasonic testing, | | Participant | MSME Testing Centre, Chennai | MSME Testing Centre, Chennai |
| December 3-4, 2010 | Science Academics Lecture workshop on Spectroscopy | National | Participant | Department of Chemistry, NITT | Department of Chemistry, NITT |
| 5th September 2012 | CSIR project Monitoring Session of Extramural Research Schemes. | National | Project presenter | physical sciences research committee by CSIR New Delhi | physical sciences research committee by CSIR New Delhi |
| 26-28, November, 2012. | BRNS Project presentation in the Young Scientist Awardees Meet , | National | Principal Investigator | BARC, Mumbai | BARC, Mumbai |
| October 25-26,2013 | BRNS Basic Science Meeting (BRNS Project Monitoring Session) | National | Principal Investigator | Anna University, Chennai-620025 | Anna University, Chennai-620025 |
| on May 28, 2014 | Presented DST project proposal before the Programme | National | Principal Investigator | PSG Institute of Advanced Studies, Coimbatore- 641004 | PSG Institute of Advanced Studies, Coimbatore-641004 |

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|--|--|---------------|--|--|-----------------------------------|
| | Advisory Committee on "Condensed Matter Physics and Materials Science" | | | | |
| Jan 20, 2015 | Strongly Correlated Electron Systems (SCES), | National | Participant | Bharathidasan University, Trichy, | Bharathidasan University, Trichy, |
| Feb 23-27, 2015 | Asian Charge Density Workshop (ACDW) | International | Participant | IISC, Bangalore | IISC, Bangalore |
| 28 th and 29 th April 2015 | TEQIP-II sponsored Conclave on Academic Reforms(CAR 2015), | National | Participant | NITT | NITT |
| 18-19, December 2015 | Research Scholars Workshop | National | Best research paper presentation (oral) award | UGC-DAE Consortium for Scientific Research | Indore, Madhya Pradesh |
| February ,10, 2016 | Collaborative Research Scheme | National | Principal Investigator | UGC-DAE Consortium for Scientific Research | Indore, Madhya Pradesh |
| March 11, 2016 | Materials Research Panel Meeting by | National | Principal Investigator | Naval research Board | IIT Madras, Chennai |

Conferences

| Date (s) | Title of Activity | Level of Event (International/ National/ Local) | Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other) | Event Organized by | Venue |
|----------------------|--|--|---|---|--|
| March 8-10, 2004. | Regional Conference on Photo Acoustics, Condensed Matter Physics | National | Paper Presenter | Condensed Matter Physics and NDT (2004) | Madurai Kamaraj University, Madurai, India |
| December 26-30, 2004 | 49 th DAE Solid State Physics Symposium | National | Paper Presenter | sponsored by Board of Research in Nuclear Sciences, Department of | Nanak Dev University, Amritsar, India |

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|-----------------------------------|--|---------------|---------------------|---|---|
| | | | | Atomic Energy, Nanak Dev University | |
| January 10 - 12, 2005 | fourth DAE- BRNS National Laser Symposium (NLS-4) | National | Paper Presenter | Babha Atomic Research Centre | Mumbai, India |
| February 9 - 12, 2005 | International Conference on Spectrophysics (INCONS 2005) | International | Paper Presenter | Pachaiyappa's College, Chennai | Pachaiyappa's College, Chennai |
| February 28- March 01, 2005 | conference on crystal growth techniques and modelling | National | Paper Presenter | Anna University, Chennai | Anna University, Chennai |
| April 22, 2005 | National Symposium on Chemical Structures and Dynamics | Participated | Paper Presenter | Indian Institute Technology Madras, Chennai | Indian Institute Technology Madras, Chennai |
| February 16 - 17, 2006 | National conference on recent advances in Materials Science | National | Paper Presenter | Periyar University, Salem | Periyar University, Salem |
| December 21-22, 2006. | conference on PTLUPA-6 | National | Paper Presenter | Institute of Technology Madras, Chennai | Institute of Technology Madras, Chennai |
| January 29- 30, 2007 | National conference on Recent Advances in Vibrational Spectroscopy (NCVS 2007) | National | Paper Presenter | Periyar University, Salem | Periyar University, Salem |
| March 26- 27, 2007 | Second National Conference on Nonlinear Optics and Modelling in Crystal Growth | National | Paper Presenter | Anna University, Chennai | Anna University, Chennai |
| December 27-31, 2007. | DAE Solid State physics Symposium sponsored | National | Poster presented | Department of Atomic Energy , Government of India | University of Mysore, Mysore, India |
| Aug 17 th -24, 2008 | International Conference on, | International | Poster | (SCES-2008) | (SCES-2008), held in Brazil |

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|-----------------------|---|---------------|---|---|--|
| | Strongly Correlated Electron Systems | | presented | | |
| December 10-12, 2009 | National Seminar and Exhibition on Nondestructive Evaluation | National | Participated | BHEL ,Trichy | NITT, India. |
| December 17- 18, 2009 | beam time proposal | National | Paper Presenter | 47 th Accelerator User Workshop, Inter University Accelerator Centre | New Delhi |
| 18 -19, March, 2011 | Carried out Swift heavy ion irradiation (Oxygen and Gold ion of different fluences) | National | Paper Presenter | 47 th Accelerator User Workshop Inter University Accelerator Centre | New Delhi |
| July 06 – 09, 2010 | 14 th Czech and Slovak Conference on Magnetism | International | Participated | CSMAG 10 in Kosice | Kosice, Slovakia |
| November 10,2010 | 32 nd Basic Science Review Committee, BRNS | National | presented the salient features of the Major research project proposal at BARC | BARC | Mumbai |
| 21-25 August 2011 | OPTICS+PHOTONICS 2011 | International | poster Presenter | SPIE | San- Diego, CA, USA |
| December 12-16, 2011 | International Conference on Advanced Materials held | International | Paper Presenter | (ICAM-2011) | Department of Physics, PSG college of Technology, Coimbatore |
| December 19-23,2011 | 56 th DAE-Solid State Physics Symposium | National | poster Presenter | SRM University, Kattankulathur | SRM University, Kattankulathur |
| January 9-12, 2012 | DAE-BRNS National Laser Symposium (NLS-20) | National | poster Presenter | DAE-BRNS ,Crystal Growth Centre | Anna University, Chennai |
| Feb 19-22 , | Conference on | National | Paper | (ICMET-2012) | KL, Malaysia |

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|---------------------|--|---------------|------------------|--|--|
| 2012 | Materials Engineering and Technology (ICMET-2012) | | Presenter | | |
| December 9-12, 2012 | Photonics 2012 | National | poster Presenter | IIT Madras | IIT Madras |
| - | International Conference on Fundamental and Applied Sciences, (ICFAS) | International | Paper Presenter | (ICFAS),Singapore | Singapore |
| January 9-11, 2013 | 17 th National seminar on crystal growth | National | Paper Presenter | Department of Physics, Anna University | Chennai |
| February 3-4, 2014 | Recent Advances in Materials Science (RAMS-2014) | National | Paper Presenter | (RAMS-2014 Department of Physics) | Bharathidasan University, Tiruchirappalli-24 |
| December 16-20 2013 | International Union of Materials Research Societies – International Conference | International | poster Presenter | Asia – 2013(IUMRS-ICA 2013) | IISC, Bangalore-12 |
| January 8-11, 2014 | DAE-BRNS National Laser Symposium (NLS) | National | poster Presenter | Department of Atomic and Molecular Physics | MIT, Manipal University, Manipal- 576104, Karnataka, INDIA |
| December 16-20 2013 | International Union of Materials Research Societies – International Conference in Asia – 2013 (IUMRS-ICA 2013) | International | poster Presenter | (IUMRS-ICA 2013) IISC, Bangalore-12 | IISC, Bangalore-12 |
| Oct.23-25, 2013 | Conference on Nanostructuring by Ion Beams (ICNIB 2013) | National | poster Presenter | (ICNIB 2013) -Jaipur | Jaipur |
| 7-11 , July 2014 | International Conference on Strongly | International | poster Presenter | (SCES 14) | Grenoble, France |

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|--|--|---------------|--|--|------------------------|
| | Correlated Electron Systems | | | | |
| September 15-17, 2014 | International Conference on Magnetic Materials and Applications (ICMAGMA-2014) | International | Paper Presenter | Pondicherry University | Pondicherry , India |
| August 2 – 7, 2015 | 20 th American Conference on Crystal Growth and Epitaxy (ACCGE-20) | International | Paper Presenter | Big Sky, Montana, USA | USA |
| October 15-16, 2015 | UGC sponsored two days national seminar | National | Paper Presenter | St. John's College, Anchal, Kollam | Anchal, Kollam, Kerala |
| 26 th – 28 th May 2016 | First Symposium On Advanced Functional Materials(FUNMAT) conducted | National | poster Presenter - 2 (Best Poster) | CECRI, Karaikudi | CECRI, Karaikudi |
| October 31 - November 4, 2016 | 2016 Conference on Magnetism and Magnetic Materials (MMM 2016) | International | Paper Presenter | New Orleans Marriott in New Orleans, Louisiana | U. S. A |

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 |
|--|--|----------------------|--------------|-----------------------------|
| Two days workshop , Convergence 2012, Recent Trends in Materials Research | National | 21-22, December 2012 | Co ordinator | Department of Physics, NITT |
| One day course on Advancements in Crystalline Materials | National | 5 November, 2014 | Co ordinator | Department of Physics, NITT |

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|---|----------|-----------------|--------------|-----------------------------|
| Workshop on statistical Physics and Materials Science | National | 21-23 July 2016 | Co ordinator | Department of Physics, NITT |
|---|----------|-----------------|--------------|-----------------------------|

18. Invited Talks delivered

| Institute | Duration | Lecture Topics |
|--|--|--|
| Periyar University Salem | March 12, 2009 Workshop on Recent Developments in advanced Materials Research | Invited talk on intermetallic Superconductors - |
| Sri Paramakalyani College Alwarkurichi | March , 2009 Physics Association | Anisotropic, Magnetic and Superconducting properties of Iron oxide rare earth inter metallic compounds |
| National College Triruchirappalli | January 23, 2010 Physics Association | Anisotropic, Magnetic and Superconducting properties of rare earth inter metallic compounds |
| Institute of Experimental physics, Slovak Academy of Sciences, Slovakia | May 30, 2010 | Invited talk on Strongly correlated systems |
| Institute of Physics Jan Dlugosz University, Poland | May 27 – May 31,2011 | Invited talk on Studies on rare earth intermetallic systems |
| National College, Trichy | 02 December 2012 | Invited talk on Anisotropic Magnetic and Transport Properties of Rare Earth Intermetallic Compounds |
| Anna University | 9-11 January 2013 XVII National Seminar on Crystal Growth | Strongly Correlated Electron System |
| Bishop Heber College Tiruchirappalli | Physics Association, 5 th August,2013 | Swift Heavy ion irradiation |
| Department of Physics, Central University of Tiuvarur | 29 January 2014 | Strongly Correlated Electron System |
| Department of Production Engineering, NITT | March 17, 2014 | Pnictide superconductors |
| School of Electrical and Electronics Engineering SASTRA University, Thanjavur | October 10,11 2014 | Photonic Materials |

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| Bharathidasan University, Tiruchirappalli | 20 November, 2014 | Refresher Course |
| Dept of Physics, Seethalakshmi Ramaswami College, Trichy | 29 January 2015 | Crystalline Materials |
| Bharathidasan University, Tiruchirappalli | 22 February, 2016 | Refresher Course |
| Dept of Physics National College, Trichy | 1 October 2016 | Technology Assisted Research |

19. Membership of Learned Societies

| Type of Membership (Ordinary Member/ Honorary Member / Life Member) | Organization | Membership No. with date |
|--|--------------|--------------------------|
| Life Member - Indian Society for Non Destructive Testing | 2009 | LM-8455-TC |
| Life Member -Materials Research Society of India | 2015 | LMB2462 |

20. Academic Foreign Visits

| Country | Duration of Visit | Programme |
|----------|-------------------------------|---|
| Japan | April 2006-July 2006 | Jawaharlal Nehru Memorial fellowship, Osaka University |
| Slovakia | May 23, 2010 to July 15, 2010 | National Scholarship Program of the Slovak Republic |
| Portugal | May 15 – June 15, 2011 | Indo Portugese Cooperation of science and Technology |
| Poland | May 27- May 31 , 2011 | Invited talk Studies on rare Earth intermetallic systems |
| Malaysia | Feb 19-22 , 2012 | International Conference on Materials Engineering and Technology (ICMET-2012) |
| Italy | 24- 26 September 2013 | Workshop on Light Element Materials based Superconductors |
| USA | August 2-7, 2015 | AACGE Conference (Oral and Poster) |

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Academic Foreign Visits (By Students)

| Country | Name | Duration of Visit | Programme |
|----------|--|---------------------------------|--|
| Slovakia | Dr.S.Nallamuthu | October – December 2013 | National Scholarship Program of the Slovak Republic Presov University |
| | T.P.Rashid | September – November 2015 | |
| | K.Arun | August – October 2016 | |
| France | Dr.S.Nallamuthu (Sponsored by TEQIP) | July 7-11, 2014 | Strongly Correlated Electron Systems (SCES) Conference , Grenoble |
| USA | T.P.Rashid (Awarded DST Travel Grant) | October 31- November 4, 2016 | 2016 Conference on Magnetism and Magnetic Materials (MMM 2016), New Orleans |

OVERSEAS VISIT FOR COLLABORATIVE RESEARCH

| S. No | Institute | Duration | Research/ Talks |
|-------|---|-------------------------------------|--|
| 1. | Institute of experimental Physics, Slovak academy of sciences, Kosice, Slovakia | May 23, 2010 to July 15, 2010 | Collaborative Research |
| 2. | Laboratory for molecular cryospectroscopy and Biospectroscopy, Department of Chemistry, Universidade de Coimbra , Portugal | May 15 – June 15, 2011 | Collaborative Research |
| 3. | Institute of Physics Jan Dlugosz University, Poland | May 27- May 31 , 2011 | Invited talk Studies on rare Earth intermetallic systems |
| 4. | Kuala Lumpur, Malaysia. July 24-26, 2012 | Feb 19-22 , 2012 | International Conference on Materials Engineering and Technology (ICMET-2012) |
| 5 | International Centre for Theoretical Physics (ICTP), Trieste Italy | 24- 26 September 2013 | Light Element Materials based Superconductors |
| 6. | Big Sky Montana USA | August 2-7, 2015 | AACGE Conference (Oral and Poster) |

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21. **Publications :**

(A) Refereed Research Journals:

| Author(s) | Title of Paper | Journal | Volume (No.) | Page numbers | Year | Impact Factor of the Journal (Optional) |
|---|--|--|--------------|--------------|------|---|
| S Nallamuthu, S Selva Chandrasekaran, P Murugan, Marian Reiffers, R Nagalakshmi | Magnetic, thermodynamic and transport properties of novel non-centrosymmetric RCoSi ₃ (R= Pr, Nd and Sm) compounds | Journal of Magnetism and Magnetic Materials, | 416 | 373-383 | 2016 | 2.357 |
| T.P. Rashid, S. Nallamuthu, K. Arun, Ivan Curlik, Sergej Ilkovic, Marian Reiffers, and R. Nagalakshmi | Magnetocaloric properties of GdFe _{0.83} Al _{3.02} multiphase alloy having multiple magnetic transitions | Journal of Materials Chemistry and Physics, | 180 | 279-283 | 2016 | 2.101 |
| T.P. Rashid, S. Nallamuthu, K. Arun, Ivan Curlik, Sergej Ilkovic, Andrea Dzubinska, Marian Reiffers, and R. Nagalakshmi | Magnetocaloric effect over a wide temperature range due to multiple magnetic transitions in GdNi _{0.8} Al _{1.2} alloy | European Physical Journal Plus, | 31 | 156 | 2016 | 1.521 |
| N.Sudharsana, S.Hamad,S.Venugopal Rao,V.Krishnakumar, R.Nagalakshmi | A systematic study of hydroxyethylammonium p-nitrophenolate single crystal exhibiting third order nonlinearity | Journal of Crystal Growth, doi: 10.1016/j.jcrysgro.2016.01.025 | | | 2016 | 1.462 |
| N.Sudharsana, V.Krishnakumar, R.Nagalakshmi | Experimental and Theoretical Investigations of Non-Centrosymmetric 8-hydroxyquinolinium dibenzoyl-(L)-tartrate methanol monohydrate single crystal | Materials Research Bulletin, (Impact factor: 1.96) | 61 | 136-145 | 2015 | 1.96 |
| N.Sudharsana, S.Hamad,S.Venugopal Rao,V.Krishnakumar, R.Nagalakshmi | Hydroxyethylammonium maleate (HEAM) single crystal for optical limiting applications | Applied Physics A: Materials Science and Processing, | 118 | 553-561 | 2015 | 1.694 |

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

| | | | | | | |
|---|--|--|-----|---------|------|-------|
| R. Nagalakshmi, Ruta Kulkarni, S.K. Dhar, A. Thamizhavel, V. Krishnakumar, Marian Reiffers, Ivan Čurlík, Hans Hagemann, Dominique Lovy, S. Nallamuthu | Magnetic properties of the tetragonal $RCuGa_3$ (R=Pr, Nd and Gd) single crystals | Journal of Magnetism and Magnetic Materials, | 386 | 37-43 | 2015 | 2.002 |
| N. Sudharsana, A. Sharma, N. Kuş, R. Fausto, M. Luísa Ramos, V. Krishnakumar, R. Pal, T.N. Guru Row, R. Nagalakshmi | Low temperature FTIR, Raman, NMR spectroscopic and theoretical study of hydroxyethylammonium picrate | Journal of Molecular Structure, (2015), doi: 10.1016/j.molstruc.2015.08.066 | | | 2015 | - |
| S. Prabu, R. Nagalakshmi, J. Balaji, P. Srinivasan | Synthesis, crystal growth, studies on vibrational spectroscopy and nonlinear optical properties of 4-methoxy-40-chlorochalcone | Materials Research Bulletin | 50 | 446-453 | 2014 | 1.968 |
| S. Prabu, R. Nagalakshmi, J. Balaji, P. Srinivasan | Investigations on the Vibrational Modes and Non-linear Optical Properties of 4-Fluoro Chalcone Crystal | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy http://dx.doi.org/10.1016/j.saa.2014.03.030 | | | 2014 | 2.129 |
| N. Sudharsana, G. Jasmine, S. Muthunatesan, V. Krishnakumar, R. Nagalakshmi | Experimental and theoretical studies of 2,5-dichloroanilinium picrate | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, | 121 | 53-62 | 2014 | 2.129 |
| S. Nallamuthu, T.P. Rashid, V. Krishnakumar, Celine Besnard, Hans Hagemann, Marian Reiffers, R. Nagalakshmi | Anisotropic magnetic, transport and thermodynamic properties of novel tetragonal Ce_2RhGa_{12} compound | Journal of Alloys and Compound, | 604 | 319-383 | 2014 | 2.72 |
| N. Sudharsana, R. Nagalakshmi, V. Krishnakumar | Synthesis, Experimental and Theoretical Studies of 8-hydroxyquinolinium-3, 5-dinitrobenzoate single crystal | Journal of Crystal Growth | 398 | 45-47 | 2014 | 1.69 |
| N. Sudharsana, K. Asokan, V. Krishnakumar, | Oxygen and gold ion irradiation effects on hydroxyethylammonium | Radiation Measurements, | 49 | 88-94 | 2013 | 1.14 |

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

| | | | | | | |
|---|---|---|-----|-----------|------|-------|
| R.Nagalakshmi | (L) tartrate monohydrate single crystals | | | | | |
| S. Prabu, R. Nagalakshmi, P.Srinivasan | Investigations on the physico chemical properties of 4-bromochalcone single crystals for nonlinear optical applications | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | 103 | 45-52 | 2013 | 2.129 |
| V Krishnakumar, G Shanmugam and R Nagalakshmi | Large third-order optical nonlinearity of Mg-doped PbS/PVA freestanding nanocomposite films | J. Phys. D: Appl. Phys. 45 (2012) 000000 (7pp) | 45 | | 2012 | 2.521 |
| N.Sudharsana, B.Keerthana, R.Nagalakshmi, V.Krishnakumar, L. Guru Prasad | Growth and Characterization of Hydroxyethylammonium Picrate Single Crystals for Third-Order Nonlinear Optical Applications | Materials Chemistry and Physics, | 134 | 736-746 | 2012 | 2.129 |
| N. Sudharsana, G. Subramanian, V. Krishnakumar, R. Nagalakshmi | Growth and characterization of anilinium hydrogen sulfate (AHS) single crystals: An organic nonlinear optical material | Spectrochimica Acta , | 97 | 798-805 | 2012 | 2.129 |
| L.Guruprasd, V.Krishnakumar , R. Nagalakshmi | Growth and nonlinear optical studies of N-acetyl-1-Cysteine crystal | Eur. Phys. J. Appl. Phys (Impact Factor: 0.789) | 57 | 10201 | 2012 | 0.789 |
| V.Krishnakumar, M. Rajaboopathi, R. Nagalakshmi | Studies on vibrational, dielectric, mechanical and thermal properties of organic nonlinear opticalco-crystal:2,6-diaminopyridinium-4-nitrophenolate-4-nitrophenol | Physica | 407 | 1119-1123 | 2012 | 1.276 |
| V.Krishnakumar, M.Rajaboopathi, R. Nagalakshmi | Optical and mechanical properties of MgCl ₂ added triglycine sulphate single crystals | International Journal of Modern Physics B,(Impact Factor: 0.4) | 26 | 1250038 | 2012 | 0.4 |
| Nagalakshmi, Ruta Kulkarni, S.K.Dhar, . Thamizhavel, V.Krishnakumar, Céline Besnard, Hans Hagemann, Marian Reiffers | Crystal growth and structure determination of novel tetragonal Ce ₂ RhGa ₁₂ compound | Chemistry of Metals and Alloys Volume 4, Issue 3/4 | | 229-233 | 2011 | - |
| V. Krishnakumar, M. Rajaboopathi, R. Nagalakshmi | MgCl ₂ added triglycine sulphate crystals | Adv. Mater. Letter 2 (2011) 163-169. | | 163-169 | 2011 | 1.93 |

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

| | | | | | | |
|--|---|--|-----|-----------|------|-------|
| L.Guruprasad, V.Krishnakumar, R. Nagalakshmi , S.Manohar | Physicochemical properties of highly efficient organic NLO crystal: 4-aminobenzamide | Materials Chemistry and Physics | 128 | 90-95 | 2011 | 2.129 |
| R. Nagalakshmi, V.Krishnakumar, Hans Hagemann, S.Muthunatesan | Polarized Raman and hyperpolarizability studies of Hydroxyethylammonium (L) tartrate monohydrate for quadratic nonlinear optics | J. Mol. Structure.. | 988 | 17-23 | 2011 | 1.599 |
| R.Nagalakshmi, V.Krishnakumar,N.Sudharsana, A.Wojciechowski, M.Piasecki, I.V.Kityk, Michael Belsley ,DmitryIsakov | Studies on physico – chemical properties of Hydroxyethylammonium (L) tartrate monohydrate single crystals | Physica B: Condensed Matter | 406 | 4019-4026 | 2011 | 1.276 |
| V.Krishnakumar, R. Nagalakshmi , S.manohar, M.Piasecki, I.V.Kityk, P.Bragiel | Parametrical optical effects in the 1:1 complex of resorcinol and urea – a nonlinear optical crystal | Physica B Condensed Matter. (Impact Factor: 1.276) | 405 | 839 | 2010 | 1.276 |
| Neeraj Kumar, K.V.Shah, R. Nagalakshmi , S.K.Dhar | Strongly correlated electron behavior in $R_2Ru_3Ga_9$ (R = Ce and U) | Journal of Applied Physics, | 107 | 09E113 | 2010 | 2.259 |
| L.Guruprasad, V.Krishnakumar, R. Nagalakshmi | Investigation on the physicochemical properties of 2,4-dinitrophenol:Efficient organic nonlinear optical crystal for frequency doubling | Physica B Condensed Matter | 405 | 1652 | 2010 | 1.276 |
| V.Krishnakumar , S.Manohar, R. Nagalakshmi | Semiorganic nonlinear optical l-lysine sulphate growth and characterization | Spectrochim Acta A | 75 | 1394 | 2010 | 2.129 |
| L.Guruprasad, V.Krishnakumar, R. Nagalakshmi et al., | Spectroscopic and physicochemical studies on organic crystal of Brucine hydrogen maleate pentahydrate | Spectrochim Acta A, | 77 | 87 | 2010 | 2.129 |
| V.Krishnakumar, R.Nagalakshmi, S.Manohar, K.Ozga, B.Claudet, M.Piasecki, I.V.Kityk, L.Kocsis, J.Pisarek | Elastooptical spectra of novel L-lysine monohydrochloride dehydrate single crystals | International Journal of Modern Physics B. | 24 | 629 | 2010 | 0.4 |
| L.Guruprasad, V.Krishnakumar, R. Nagalakshmi | Structural, spectral, thermal and optical studies on organic nonlinear optical 2-naphthol crystal | Crystal Research Technology. | 45 | 1057-1063 | 2010 | 1.12 |

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

| | | | | | | |
|---|--|---|---------|-----------|------|-------|
| V. KrishnaKumar, S. Manohar, R. Nagalakshmi, M. Piasecki, I.V. Kityk, P. Bragiel | Zinc potassium phosphate hexahydrate crystals for nonlinear optics | Eur. Phys. J. Appl. Phys. | 423 | 263-267 | 2009 | 0.789 |
| Neerajkumar, R. Nagalakshmi, R.Kulkarni, P.L.Paulose, A.K.Nigam,S.K.Dhar, A.Thamizhavel | Anisotropic magnetic and superconducting properties of $\text{CaFe}_{2-x}\text{Co}_x\text{As}_2$ ($x=0,0.06$) single crystals | Physical Review B | 79 | 012504 | 2009 | 3.767 |
| V. Krishnakumar, L. Guruprasad, R. Nagalakshmi | Physicochemical properties of organic non-linear optical crystal for frequency doubling : glycine acetamide | Materials Letters. | 63 | 1255-1257 | 2009 | 2.269 |
| V.Krishnakumar, R.Nagalakshmi, K. Ozga, M. Piasecki, I. V. Kityk, P. Bragiel | 3-nitroaniline and 3-nitrophenol – A novel non linear optical material | Journal of optoelectronics and Advanced Materials | 11 | 123-133 | 2009 | 0.52 |
| V.Krishnakumar, L.GuruPrasad, R.Nagalakshmi | Investigation on 3-aminophenol: a nonlinear optical crystal for frequency doubling | Eur. Phys. J. Appl. Phys. | 48 2 | 20403 | 2009 | 0.789 |
| Devang A. Joshi, R. Nagalakshmi, R. Kulkarni, S.K. Dhar, A. Thamizhavel | Crystal growth and anisotropic magnetic properties of RAg_2Ge_2 ($\text{R}=\text{Pr, Nd and Sm}$) single crystals | Physica B <u>Condensed Matter</u> . | 404(19) | 2988 | 2009 | 1.276 |
| Devang A. Joshi, R. Nagalakshmi, S.K. Dhar, A. Thamizhavel | Anisotropic magnetization studies of R_2CoGa_8 single crystals ($\text{R}=\text{Gd, Tb, Dy, Ho, Er, Tm, Y, and Lu}$) | Physical Review B | 77 | 174420 | 2008 | 3.767 |
| V.Krishnakumar, R. Nagalakshmi, and S.Manohar | Crystal growth and characterization of N-Hydroxyphthalimide ($\text{C}_8\text{H}_5\text{NO}_3$) crystal | Spectrochim Acta A. | 71 | 110-115 | 2008 | 2.129 |
| V.Krishnakumar, R. Nagalakshmi, and S.Sivakumar | Investigations on the physicochemical properties of the nonlinear optical crystal for blue green laser generation | Spectrochim Acta A. | 71 | 119-124 | 2008 | 2.129 |
| V.Krishnakumar and R.Nagalakshmi | Studies on the first order hyperpolarizability and terahertz generation in 3-nitroaniline | Physica B: Physics of Condensed Matter. | 403 | 1863-1869 | 2008 | 1.276 |
| V.Krishnakumar, G. Eazhilarasi, R. Nagalakshmi, M. | Field-induced non-linear optical features of p-aminoazobenzene crystals | European Physical Journal Applied Physics. | 42 | 263-267 | 2008 | 2.259 |

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

| | | | | | | |
|--|---|--|-------|-----------|------|-------|
| Piasecki, I.V. Kityk and P. Bragiel | | | | | | |
| V.Krishnakumar R.Nagalakshmi, and S.Manohar | <u>Probes on l-lysine monohydrochloride dihydrate: A semiorganic nonlinear optical crystal</u> | Spectrochimica Acta. | 71 | 471-479 | 2008 | 2.129 |
| G. Eazhilarasi, R. Nagalakshmi and V. Krishnakumar | <u>Studies on crystal growth, vibrational and optical properties of organic nonlinear optical crystal: p-Aminoazobenzene</u> | Spectrochimica Acta. | 71 | 502-507 | 2008 | 2.129 |
| V.Krishnakumar, R.Nagalakshmi, and S.Sivakumar | <u>Effect of doping an organic molecule ligand on TGS single crystals</u> | Spectrochimica Acta, A. | 71 | 482-285 | 2008 | 2.129 |
| V.Krishnakumar and R.Nagalakshmi | Terahertz generation in 3-Nitroaniline Single Crystals | Crystal Growth and Design. | 8(11) | 3882-3884 | 2008 | 4.69 |
| V.Krishnakumar, D.K.Avasthi, Fouran Singh, P.K.Kulriya and R. Nagalakshmi | Study of the damage produced in K [CS (NH ₂) ₂] ₄ Br non-linear optical single crystal by swift heavy ion irradiation | Nuclear Inst. and Methods in Physics Research. | B256 | 675-682 | 2007 | 1.18 |
| V. Krishnakumar and R.Nagalakshmi | Polarised Raman and infrared spectral analysis of L-alanine oxalate (C ₅ H ₉ NO ₆)- a non-linear optical single crystal | Spectrochim Acta. | A-64 | 736-743 | 2006 | 2.129 |
| V. Krishnakumar and R.Nagalakshmi | Vibrational spectroscopic studies of an organic non-linear optical crystal 8-hydroxyquinolinium picrate | Spectrochim Acta A. | 66 | 924-934 | 2006 | 2.129 |
| V.Krishnakumar and R.Nagalakshmi | Crystal growth and characterization of K[CS(NH ₂) ₂] ₄ Br - a semiorganic non-linear optical crystal | Spectrochim Acta A . | 68 | 443-453 | 2006 | 2.129 |
| V.Krishnakumar, and R.Nagalakshmi | Growth and spectroscopic characterization of a new organic non linear optical crystal-8-hydroxyquinoline | Spectrochim Acta A | 61 | 1097-1103 | 2005 | 2.129 |
| V.Krishnakumar, and R.Nagalakshmi | Growth and vibrational spectroscopic studies of yttrium doped single crystals of trisodium barium pentachloride dihydrate | Spectrochim Acta A. | 61 | 2724-2729 | 2005 | 2.129 |
| V.Krishnakumar and R.Nagalakshmi | Polarised infrared and Raman studies of YCa ₄ O(BO ₃) ₃ - a non- | Spectrochim Acta A. | 60 | 2733-2739 | 2004 | 2.129 |

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

| | | | | | | |
|----------------------------------|---|---------------------|----|---------|------|-------|
| | linear optical single crystal | | | | | |
| V.Krishnakumar and R.Nagalakshmi | Crystal growth and vibrational spectroscopic studies of the semi organic non-linear optical crystal - Bisthiourea zinc chloride | Spectrochim Acta A. | 61 | 499-507 | 2004 | 2.129 |

(B) Conferences/Workshops/Symposia Proceedings

| Author(s) | Title of Abstract/ Paper | Page numbers | Conference Theme | Year |
|--|--|--------------|----------------------------|------|
| R. Nagalakshmi , V.Krishnakumar, Hans Hagemann, S.Muthunatesan | Polarized Raman and hyperpolarizability studies of hydroxyethylammonium (L) tartrate monohydrate for quadratic nonlinear optics | 1200 – 1201 | AIP Conference Proceedings | 2010 |
| V. Krishnakumar, L. Guru Prasad, R. Nagalakshmi, and Hans Hagemann | Vibrational studies of the NLO crystal – 2,4-Dinitrophenol | 1198 – 1199 | AIP Conference Proceedings | 2010 |
| T. Pandiyarajan, R. Nagalakshmi, B. Karthikeyan | Optical and vibrational studies of surface modified ZnO nanostructures | 8094 | Proc. of SPIE | 2011 |
| N.Sudharsana, R.Nagalakshmi, V.Krishnakumar , A.Sharma, R. Fausto, T. N. Guru Row , RumpaPal | Vibrational and third-order nonlinear optical study on hydroxyethylammonium picrate (HEAP) single crystals | 1263 | AIP Conference Proceedings | 2012 |
| P.Srinivasan, R.Nagalakshmi, Dmitry Isakov, Etelvina de Matos Gomes, Michael Scott Belsley and S.Prabu | Ruminations on the effect of MeV Si ⁸⁺ and Ag ⁸⁺ ion irradiation on nonlinear optical l-valinium picrate single crystals | 695-700 | AIP Conference Proceedings | 2012 |

(C) Books & Monographs : Not Eligible