

Conference Publications

Papers Published /Presented/ Participated in the International Conferences

1. Morphology dependent room temperature CO₂ sensing of β -Ga₂O₃.
P.Rekha and **N.Gopalakrishnan**
“International Conference on Novel Engineering Materials for Biomedical, Energy, Environment, Sensing and Other Applications (ICON-BEES 21)” held at NIT-Tiruchirappalli during 11-13 March 2021.
2. Enhancement of Ferromagnetism in Amine functionalized Mn doped ZnO thinfilm Sivanantham Nallusamy and **Gopalakrishnan Nammalvar**
International Conference on MAGnetic Materials and Applications (ICMAGMA) held at NISER, Bhubaneswar, India during 09 -13 December 2018.
3. Thiol functionalized V doped ZnO films for Magnetic storage device Application Sivanantham Nallusamy and **Gopalakrishnan Nammalvar**
International Conference on Sustainable Energy Technologies (i-SET 2018) held at Bharathidasan University, Tiruchirappalli , India during 27-28 June 2018.
4. Y³⁺ incorporated ZnO thin film grown by RF magnetron sputtering for optoelectronic applications.
E. Vinoth and **N. Gopalakrishnan**
International Conference on Sustainable Energy Technologies (i-SET 2018) held at Bharathidasan University, Tiruchirappalli, India during 27-28 June 2018.
5. Organic Ligands Induced Ferromagnetism in Ni doped ZnO films Sivanantham Nallusamy and **Gopalakrishnan Nammalvar**
Intermag 2018 held at Marina Bay Sands Convention Center, Singapore during April 23-27, 2018.
6. Thiol Functionalied Cr doped ZnO films for enhanced ferromagnetism **Gopalakrishnan Nammalvar**, Sivanantham Nallusamy and Varsha Ravichandran *4th International Conference on Nano Science and Nanotechnology (ICONN 2017) held at SRM University, Chennai, during 9-11 August 2017.*
7. Fabrication of Thiol functionalized Ni doped ZnO thin films Sivanantham Nallusamy and **N. Gopalakrishnan**,
2017-IEEE Magnetics summer school, Santander, Spain, July19-23,2017
8. Antibacterial Study on GO incorporated PSF/PVP Mixed matrix membrane for Water Purification,
Pramila P and **N. Gopalakrishnan**
International Conference on Nano for Energy and Water 2017 and Indo-French Workshop on Water Networking, University of Petroleum and Energy Studies, Dehradun, India, Feb 22-24, 2017.

9. Enhancement of ferromagnetism in Thiol functionalized Mn doped ZnO thin films,
N. Sivanantham and **N. Gopalakrishnan**,
*International Conference on Magnetic Materials and Applications, DMRL and
Magnetic Society of India, Hyderabad, Feb 01-03, 2017*
10. Metal Oxide Semiconductors for Gas Sensing Application
Vinoth RAJ, Bhuvaneshwari S, **Gopalakrishnan**
**Nammalvar ICEM16-A-0916, Suntec Singapore, 04th to
08th July, 2016.**
11. Synthesis and Characterisation of ZnO Hierarchical Nanoflowers, Multi-
linked and High Aspect Nanorods (ICMAT13-A-2150)
R.N. Lokesh, L. Balakrishnan, K. Jeganathan and **N. Gopalakrishnan**
*7th International Conference on Materials for Advanced Technologies,
Suntec Singapore, 30 June -5 July 2013*
12. Synthesis and Gas Sensing Properties of CuO Nanorods (ICMAT13-A-2168)
N. Gopalakrishnan, S. Bhuvaneshwari and L. Balakrishnan.
*7th International Conference on Materials for Advanced Technologies,
Suntec Singapore, 30 June -5 July 2013*
13. Optimization of anodic layer and fabrication of organic light emitting diode.
N. Gopalakrishnan, S. Gowrishankar, T.R. Devidas and L. Balakrishnan
*2nd International Conference on Key Engineering Materials (ICKEM
2012), Singapore, February 2012.*
Advanced Materials Research, Vols. 488-489 (2012) 1348-1352
14. Fabrication of *p*-ZnO thin films by ZrNcodoping.
S. Gowrishankar, L. Balakrishnan and **N. Gopalakrishnan**
*SPIE Optics+Photonics 2012, San Diego, USA, August
2012 Proceedings of SPIE, Vol. 8484(2012) 84840W-1-
84840W-6.*
15. Fabrication of ZnO homojunction by Al-As-N tridoping.
L. Balakrishnan, S. Gowrishankar and **N. Gopalakrishnan**
*International Semiconductor Device Research Symposium 2011 (ISDRS 2011),
University of Maryland, Maryland, USA, December 2011 (IEEE Xplore).*
DOI: 10.1109/ISDRS.2011.6135234
16. Realization of *n*-ZnO:Ga/*p*-ZnO:Ga homojunction by RF magnetron sputtering.
S. Gowrishankar, L. Balakrishnan, T. Balasubramanian and **N. Gopalakrishnan**
*International Semiconductor Device Research Symposium 2011 (ISDRS 2011),
University of Maryland, Maryland, USA, December 2011 (IEEE Xplore).*
DOI: 10.1109/ISDRS.2011.6135308
17. Effects of oxygen partial pressure on Zn_{0.95}Cr_{0.05}O thin films grown by RF
sputtering.
N. Gopalakrishnan, L. Balakrishnan, M. Suganya, S. Gowrishankar and
G. Jayalakshmi
International Conference on Nanoscience and Nanotechnology (ICNN 2011),

Coimbatore Institute of Technology, Coimbatore, India, July 2011.

18. Dual codoping for the fabrication of low resistive *p*-ZnO.
L. Balakrishnan, S. Gowrishankar, J. Elanchezhiyan, B.C. Shin, T. Balasubramanian and **N. Gopalakrishnan**
The 16th International Conference on Crystal Growth (ICCG-16), Chinese Academy of Sciences, Beijing, China, August 2010.
19. Fabrication of *p-n* junction with ZnO nanostructures by a novel approach.
L. Balakrishnan, S. Gowrishankar, T. Balasubramanian and **N. Gopalakrishnan**
International Conference on "Synthesis, Characterization Consolidation and Modelling of Nanomaterials" (ICON-2010), PSG College of Technology, Coimbatore, March 2010.
20. Vacancy mediated ferromagnetism in Zn_{0.85}Mn_{0.15}O nanostructures.
L. Balakrishnan, G. Jayalakshmi, B. Srimathy, M. Senthilkumar, T. Balasubramanian and **N. Gopalakrishnan**
International Conference on "Synthesis, Characterization Consolidation and Modelling of Nanomaterials" (ICON-2010), PSG College of Technology, Coimbatore, March 2010.
21. Dual codoping for the fabrication of low resistive *p*-ZnO
L. Balakrishnan, S. Gowrishankar, J. Elanchezhiyan, B.C. Shin, T. Balasubramanian and
N. Gopalakrishnan
The 16th International Conference on Crystal Growth (ICCG-16) held at Beijing, China during Aug. 8-13, 2010.
22. Fabrication of *p-n* junction with ZnO nanostructures by a novel approach
L. Balakrishnan, S. Gowrishankar, T. Balasubramanian and
N. Gopalakrishnan *International Conference on "Synthesis, Characterization Consolidation and Modelling of Nanomaterials" (ICON-2010) held at PSG College of Technology, Coimbatore during Mar. 5-6, 2010.*
23. Vacancy mediated ferromagnetism in Zn_{0.85}Mn_{0.15}O nanostructures
L. Balakrishnan, G. Jayalakshmi, B. Srimathy, M. Senthilkumar, T. Balasubramanian and **N. Gopalakrishnan**
International Conference on "Synthesis, Characterization Consolidation and Modelling of Nanomaterials" (ICON-2010) held at PSG College of Technology, Coimbatore during Mar. 5-6, 2010.
24. Participated in "International Conference on Experimental Condensed Matter Physics", IIT- Bombay, Mumbai, India, Jan. 8-10, 2007.
25. ZnO based diluted magnetic semiconductor thin films by RF magnetron sputtering for spin photonic devices
J. Elanchezhiyan, K. P. Bhuvana, **N. Gopalakrishnan** and T. Balasubramanian
Proc. SPIE. 6674 (2007) 66740C-66746C.

26. A novel approach for development of co-doped ZnO semiconductor film by pulsed laser deposition and R.F.Sputtering.
N.Gopalakrishnan, B.C.Shin, K.P.Bhuvana, J.Elanchezhiyan and T.Balasubramanian
Proceeding of 5th International conference on 'Trends in Industrial measurements and Automation -TIMA-2007' Jan.2007,NIT, Tiruchirapalli, India. pp.97-101.
27. ZnO films grown by pulsed laser deposition.
N.Gopalakrishnan, B.C.Shin, H.S.Lim, G.Y.Kim, J.Kumar, T.Balasubramanian and Y.S.Yu
Proceedings of the "International workshop on Crystal Growth and Characterization of Advanced Materials", Anna University, Chennai, Jan. 2006, pp.336-344.
28. (Ga+N) Codoping in ZnO by Laser ablation
N.Gopalakrishnan, K.P.Bhuvana, J.Elanchezhiyan, B.C.Shin, H.S.Lim, T.Balasubramanian, J.Kumar and Y.S.Yu.
International Conference on Nanoscience and Technology held at University of Madras, Chennai, during 26 – 28 Aug 2006.
29. Fabrication of GaN doped ZnO nanocrystallines by Laser ablation
N.Gopalakrishnan, B.C.Shin, K.P.Bhuvana, J.Elanchezhiyan and T.Balasubramanian
International conference on Advanced Nanomaterials 2007 to be held at Indian Institute of Technology Bombay, Mumbai during 8-10 Jan.2006.
30. Red Shift of NBE in Triple Codoped ZnO by Pulsed Laser Deposition
N.Gopalakrishnan, H.S.Lim, J.Y.Sohn, Sun Yoon, Taeheo Lee, Beomee Kim and Y.S.Yu
Korean Physical Society Meetings, Seoul, April 21-23, 2005
31. Growth of ZnO:Ga, In, N by Pulsed Laser Deposition
J.Y.Sohn, **N.Gopalakrishnan**, H.S.Lim, B.I. Kim, Seunghwan Lee, Yeunkju Lee and Y.S.Yu
Korean Physical Society Meetings, Seoul, April 21-23, 2005
32. Comparison of ZnO:GaN films on Si(111) and Si(100) substrates by pulsed laser deposition
N.Gopalakrishnan, B.C.Shin, H.S.Lim, G.Y.Kim and Y.S.Yu
ICDS-23, Awaji Island, Hyogo, Japan, July 24-29, 2005
33. Growth of ZnO:BN by Pulsed Laser Deposition
N.Gopalakrishnan, H.S.Lim and Y.S.Yu
11th International Meetings on Ferroelectricity, Foz do Iguacu, Brazil, Sept.5-9, 2005.
34. Improvement of ZnO Properties by Triple Codoping in Pulsed Laser Deposition
N.Gopalakrishnan, H.S.Lim and Y.S.Yu

11th International Meetings on Ferroelectricity, Foz do Iguacu, Brazil, Sept.5-9, 2005.

35. A Novel approach to ZnO by PLD
N.Gopalakrishnan, J.Y.Sohn, H.S.Lim, B.I. Kim and Y.S. Yu
3rd International Workshop on ZnO and Related Materials, Sendai, Japan, October 6-8, 2004
36. Optical Characterisation of GaAs:Si/Si Grown by Molecular Beam Epitaxy (MBE)
N.Gopalakrishnan
14th International Conference on Crystal Growth, 9-13 August 2004, Grenoble, France.
37. Tri-doped (Ga, In, n) ZnO by Pulsed Laser Deposition
J.Y.Sohn, **N.Gopalakrishnan**, H.S.Lim, B.I. Kim
and Y.S. Yu
3rd International Workshop on ZnO and Related Materials, Sendai, Japan, October 6-8, 2004
38. Band gap engineering of ZnO thin films prepared by pulsed Laser deposition
B.I.Kim, **N.Gopalakrishnan**, H.S.Lim, J.Y.Sohn and Y.S. Yu
3rd International Workshop on ZnO and Related Materials, Sendai, Japan, October 6-8, 2004.
39. Anisotropy behaviour in InP Selective Regrowth by Hydride Vapour Phase Epitaxy
N.Gopalakrishnan, E.R.Messmer and S.Lourdudoss.
18th Nordic Semiconductor Meeting, Linkoping University, Linkoping, Sweden.
40. Effect of Buffer layer thickness on morphology and optical property of GaAs/Si by MBE.
N.Gopalakrishnan, K.Baskar, H.Kawanami and I.Sakata
14th American Conference on Crystal Growth and Epitaxy to be held at Seattle USA during 4-9 August 2002.
41. Rapid Epitaxial Growth of Conducting and Insulating III-V Compounds on (001), (110), (111)A, (311)A and (311)B Surfaces by HVPE.
S.Lourdudoss, **N.Gopalakrishnan**, H.Holtz, M.Deschler and R.Beccaed
TMS International Symposium on Value-Addition Metallurgy, San Antonio, Texas, USA, Feb.1998.
42. Nucleation mechanism in Vapour Phase Epitaxial Growth of binary, ternary and quaternary semiconductors
N.Gopalakrishnan and R.Dhanasekaran
Proceedings of 14th International Conference on Nucleation and Atmospheric Aerosols, Helsinki, 26 - 30 August 1996.
Nucleation and Atmospheric Aerosols 1996, pp.149-152.
43. Growth kinetics of vapour phase epitaxial growth of $Ga_{1-y}In_yAs_{1-x}P_x$ compounds
N.Gopalakrishnan, R.Dhanasekaran and P.Ramasamy
Eighth International Conference on Vapour Growth and Epitaxy (ICVGE-8), Albert Ludwigs Universitat, Germany. July 24-29, 1994.

44. Investigations on the Nucleation and growth kinetics of $\text{InAs}_{1-x}\text{P}_x$ vapour Phase epitaxy
N.Gopalakrishnan, R.Dhanasekaran and P.Ramasamy
IUMRS International Conference on Electronic Materials, Hsinchu, Taiwan, Dec.19- 22, 1994
45. Growth Kinetics of $\text{Ga}_{1-y}\text{In}_y\text{As}_{1-x}\text{P}_x$ quaternary compound semiconductor thin film by vapour phase epitaxial growth.
N.Gopalakrishnan and R.Dhanasekaran
Seventh international conference on solid films and surfaces, Hsinchu, Taiwan, Dec.19-22, 1994.
46. Investigations on the epitaxial growth of compound semiconductors
N.Gopalakrishnan, R.S.Q.Fareed, R.Jothilingam, S.Moorthy Babu, R.Dhanasekaran and P.Ramasamy
Faraday Society, "General Discussion 95 Crystal Growth", Univ. of Strathclyde, U.K, April 14-16, 1993.
47. Investigations on the two dimensional nucleation and growth kinetics of InP VapourPhase epitaxy
N.Gopalakrishnan, R.Dhanasekaran and P.Ramasamy
Ninth American Conference on Crystal Growth (ACCG-9), Baltimore, Maryland, U.S.A, Aug.1-6, 1993.
48. On the Nucleation, Growth and Characterisation of KDP-ADP mixed crystal
K.Srinivasan, G.Ravi, **N.Gopalakrishnan**, S.Anbukumar R.Dhanasekaran and P.Ramasamy
Eighth international meeting on Ferroelectricity, NIST, Gaithersburg, Maryland, U.S.A, Aug.8-13, 1993.

Papers Published (Proceedings) /Presented/Participated in the National Conferences

1. Development of Nove Ultrasonic wave guide sensor with non-leaky waves for multipoint temperature measurements.
Atul Sharma, N.Gopalakrishnan, Mitra gupta, Krishnan Balasubramanian and Nishanth Raja.
Virtual Conference and Exhibition on Non-Destructive Evaluation (NDE-2021) held during 9-11 December 2021.
2. Inspection of Corrosion Under Insulation (CUI) using ultrasonic guided waves Temperature sensors.
Akash Thathe, **N.Gopalakrishnan**, A.Hankare, N.Raja and Krishnan Balasubramanian
Virtual Conference and Exhibition on Non-Destructive Evaluation (NDE-2021) held during 9-11 December 2021.
3. Integrated Problem Solving Environment for HPC and Cloud Computing Platforms
Arunachalam B, Manavalan and **N. Gopalakrishnan**

Third International Conference on Smart Systems and Inventive Technology (ICSSIT 2020), Tirunelveli, India, August 20-22, 2020

4. Y doped ZnO Interdigitated Electrode (IDE) ammonia sensor fabricated by sputtering
E. Vinoth and **N. Gopalakrishnan**,
64th DAE Solid State Physics Symposium, IITJ, Jodhpur, December 18-22, 2019.
5. Reflection study of shear horizontal wave modes with beveled plate edges
R. Aravinth, Nived Suresh, **N. Gopalakrishnan** and Krishnan Balasubramanian
National Conference and Exhibition on Non-Destructive Evaluation (NDE-2019), Bangalore, December 05-07, 2019.
6. Effect of Temperature on NH₃ Sensing by ZnO: Mg Thin Film Grown by Radio Frequency Magnetron Sputtering Technique,
E. Vinoth and **N. Gopalakrishnan**,
62nd DAE Solid State Physics Symposium, DAE Convention Centre, Bhabha Atomic Research Centre, Mumbai, December 26-30, 2017.
7. Effects of ZnO incorporation on PSF-PEG mixed matrix membrane ,
P. Pramila and **N. Gopalakrishnan**,
62nd DAE Solid State Physics Symposium, DAE Convention Centre, Bhabha Atomic Research Centre, Mumbai, December 26-30, 2017.
8. CuO Mesostructures as Ammonia Sensors
S. Bhuvaneshwari and **N. Gopalakrishnan**,
62nd DAE Solid State Physics Symposium, DAE Convention Centre, Bhabha Atomic Research Centre, Mumbai, December 26-30, 2017.
9. Effect of Bufferlayer thickness for Solar Cell Application, Chennai Nano gathering – 2017,
Vinoth E, Vivekanandhan K and **Gopalakrishnan N**
National Conference on Nanomaterials and Nanobiotechnology NCNSNT, University of Madras, Feb 07 -08, 2017
10. Free Standing CuO-MnO₂ Nanocomposite for Room Temperature Ammonia Sensing
Bhuvaneshwari, S., Seethal Papachan, **N. Gopalakrishnan**
61th DAE Solid State Physics Symposium. DAE-KIIT, Bhubaneswar, Odisha, India. Dec 26 - 30, 2016
11. Diffusion Kinetics and Methanol Sensing of ZnO:Thin Film Fabricated by RF Magnetron Sputtering
Vinoth, and **N. Gopalakrishnan**
6th Interdisciplinary Symposium on Material Chemistry held at DAE-BARC, Mumbai, India during Dec 6 to 10, 2016
12. Effect of radiographic parameters on image quality of the X-ray system in digital Radiography
Rohik K. Agrawal, Sheri George and **N. Gopalakrishnan**

26th National Seminar & International Exhibition on Non-Destructive Evaluation. Thiruvananthapuram, December 15-17 2016.

13. Analysis of defect in butt weld of T91 alloy using ultrasonic C-scan testing and Thermography.
Pramesh Vikram and **N.Gopalakrishnan**
26th National Seminar & International Exhibition on Non-Destructive Evaluation, Thiruvananthapuram, December 15-17 2016.
14. Room temperature ammonia and VOC sensing properties of CuO nanorods. Bhuvaneshwari, S., and **Gopalakrishnan, N.**
60th DAE Solid State Physics Symposium. Amity University Noida, UP December 25-29, 2015.
15. Study of Defects in Friction Stir Welded Dissimilar Aluminium Sample by Using Ultrasonic C Scan.
Angad Acharya, M. Ashok and **N. Gopalakrishnan**
National Seminar and exhibition on Non-Destructive Evaluation: 26-28 Nov.2015, Hyderabad, India.
16. Defect Detection and Quantification with Advanced Ultrasonic Aniket Kumar Tiwary, M. Ashok and **N. Gopalakrishnan**
National Seminar and exhibition on Non-Destructive Evaluation: 26-28 Nov.2015, Hyderabad, India.
17. Multi-Frequency Approach for Accurate Thickness Measurement Of Steam Generator Tubes At Grooves Using Remote Field Eddy Current Technique
Manu Joseph, S. Thirunavukkarasu and **N. Gopalakrishnan**
National Seminar and exhibition on Non-Destructive Evaluation: 26-28 Nov.2015, Hyderabad, India.
18. Evaluation of Residual Stress and High Cycle Fatigue in Low Carbon Steel through Electromagnetic Non-Destructive Techniques
Subash Koner, Ashis Kumar Panda, **N. Gopalakrishnan**, Amitava Mitra
National Seminar and exhibition on Non-Destructive Evaluation: 4-6 Dec.2014, Pune, India.
19. Multi-Frequency Approach for Accurate Thickness Measurement Of Steam Generator Tubes using Remote Field Eddy Current Technique
Manu Joseph, S. Thirunavukkarasu and **N. Gopalakrishnan**, B.P.C. Rao, C.K. Mukhopadhyay and T. Jayakumar
National Seminar and exhibition on Non-Destructive Evaluation: 4-6 Dec.2014, Pune, India.
20. Realization of low resistive p-ZnO thin film by Al-As codoping.
L. Balakrishnan, S. Gowrishankar and **N. Gopalakrishnan**
Department of Atomic Energy- Solid State Physics Symposium (DAE - SSPS 2011), SRM University, Chennai, India, December 2011(AIP Conference Proceedings).
AIP Conf. Proc. 1447 (2012) 763-764

21. Structural, electrical and optical properties of GaPcodopedZnO thin films.
S. Gowrishankar, L. Balakrishnan and **N. Gopalakrishnan**
Department of Atomic Energy- Solid State Physics Symposium (DAE - SSPS 2011), SRM University, Chennai, India December 2011(AIP Conference Proceedings).
AIP Conf. Proc. 1447(2012) 771-772
22. AlN doped (Codoped) ZnO films for the fabrication of p-ZnO.
L. Balakrishnan, J. Elanchezhian, K.P. Bhuvana, T. Balasubramanian and **N.Gopalakrishnan**
38thNational Seminar on Crystallography (NSC-38), University of Mysore, Karnataka, India, February 2009.
23. Effect of thickness and substrate on ZnO thin films by RF sputtering.
K. Latha, L. Balakrishnan, T. Balasubramanian and **N. Gopalakrishnan**
38th National Seminar on Crystallography, Mysore University, Karnataka, India, February 2009.
24. Influence of oxygen pressure on Zn_{1-x}Mn_xO thin films by RF sputtering.
B. Srimathy, L. Balakrishnan, J. Elanchezhian, T. Balasubramanian and N.Gopalakrishnan
38th National Seminar on Crystallography, Mysore University, Karnataka, India, February 2009.
25. Effect of thickness and substrate on ZnO thin films by RF sputtering
K. Latha, L. Balakrishnan, T. Balasubramanian and **N. Gopalakrishnan**
38th National Seminar on Crystallography, Mysore University, Mysore, India, Feb. 11-13, 2009.
26. Influence of oxygen pressure on Zn_{1-x}Mn_xO thin films by RF sputtering
Srimathy, L. Balakrishnan, J. Elanchezhian, T. Balasubramanian and N. Gopalakrishnan
38th National Seminar on Crystallography, Mysore University, Mysore, India, Feb. 11-13, 2009.
27. AlN doped (Codoped) ZnO films for the fabrication of p-ZnO
L.Balakrishnan, J.Elanchezhian, K.P.Bhuvana, T.Balasubramanian and **N.Gopalakrishnan**
National Seminar on Crystallography (NSC-38) held at University of Mysore, Karnataka during Feb. 11-13, 2009.
28. Participated in “Intellectual Property Rights Seminar” Tiruchirappalli, India, Jan. 9, 2009.
29. Participated in “Traditional and Emerging NDE methods for Managers and Engineers”, IIT-Madras, Chennai, India, Feb. 20-21, 2009.
30. Participated in “National seminar & Exhibition on Non Destructive Evaluation-NDE 2009”, BHEL & NIT, Tiruchirappalli, India, Dec.10-12,2009.

31. Participated in “Indo-US workshop on Visible and Ultraviolet sources for Solid state Lighting and Water Purification”, Crystal Growth Center, Anna University, Chennai, India, Jan. 5-7, 2009.
32. Participated in “Non Destructive Evaluation-NDE 2008”, Lonavala, India, Dec. 1-3, 2008.
33. Substrates effects on GaN doped ZnO films grown by Pulsed Laser Deposition.
N.Gopalakrishnan, B.C.Shin, H.S.Lim, G.Y.Kim ,J.Kumar and Y.S.Yu
National Symposium on Crystal Growth and Characterisation, Loyola College, Chennai, Sept.29-30, 2005.
34. Growth of ZnO using codoping and triple codoping method by Pulsed laser deposition.
N.Gopalakrishnan, B.C.Shin, H.S.Lim, J.Kumar, T.Balasubramanian and Y.S.Yu
Second National Symposium on Crystal Growth of Laser related materials SSN college of Engineering, Kalavakam, India, December 19-20, 2005.
35. Vapour Phase Epitaxial Growth of $Ga_xIn_{1-x}As$
N.Gopalakrishnan and R.Dhanasekaran
National Conference on fundamentals of Crystal Growth, Crystal Growth Centre, Anna University, Chennai, India, Jan.29-30, 1996.
36. Investigation on the Nucleation and Growth Kinetics of Vapour Phase Epitaxial Growth of III-V Binary, Ternary and Quaternary Compound Semiconductors- Thesis Presentation.
N.Gopalakrishnan and R.Dhanasekaran
DAE Solid State Physics Symposium, BARC, Bombay, Dec.27-31, 1996.
37. Thermodynamic analysis of $Ga_xIn_{1-x}P$ Vapour Phase Epitaxy
N.Gopalakrishnan and R.Dhanasekaran
Sixth National seminar on Crystal Growth, Anna Univeristy, Chennai, Feb.2-4, 1995
38. Vapour Phase Epitaxial Growth of $Ga_xIn_{1-x}Sb$
N.Gopalakrishnan and R.Dhanasekaran
National Conference on Recent Advances in Semiconductor, Indian Institute of Technology, New Delhi, June 20-22, 1995.
39. Vapour Phase Epitaxial Growth of $Al_xGa_{1-x}As$
N.Gopalakrishnan and R.Dhanasekaran
National seminar on emerging trends thin film technology and device fabrication, Cochin University of Science and Technology, Cochin, India, Nov.27-29, 1995.
40. Investigations on the initial stages of the Vapour Phase Epitaxial Growth of $Ga_xIn_{1-x}P$ compound semiconductors
N.Gopalakrishnan R.Dhanasekaran and P.Ramasamy
Material Research Society of India, Hyderabad, Feb.1994.

41. Nucleation and Growth kinetics of $\text{Ga}_{1-y}\text{In}_y\text{As}_{1-x}\text{P}_x$ by VPE and oxide precipitates in CZ silicon
N.Gopalakrishnan, H.R.Dizasi, R.Dhanasekaran and P.Ramasamy
INDO-US workshop on Nucleation and Growth, Indian Institute of Sciences, Bangalore, March 14-16, 1994.
42. Growth Kinetics of $\text{GaAs}_{1-x}\text{P}_x$ Vapour Phase Epitaxy
N.Gopalakrishnan and R.Dhanasekaran
Proc. of Fifth National Seminar on Crystal Growth, Anna University, Chennai, Nov.18-20, 1993.
43. Nucleation and Growth Kinetics of $\text{InAs}_{1-x}\text{P}_x$ Vapour Phase Epitaxy
N.Gopalakrishnan and R.Dhanasekaran
XXV National seminar on Crystallography, Dept. of Bio-physics and Crystallography, Univ. of Madras, Dec.15-17, 1993.
44. Nucleation Kinetics of $\text{Ga}_x\text{In}_{1-x}\text{As}$ compound during Vapour Phase Epitaxial Growth
N.Gopalakrishnan, R.Dhanasekaran and P.Ramasamy.
XXIII National Seminar on Crystallography, MREC, Jaipur, March 23-25, 1992.
45. Development of Growth Kinetics of InP thin films during Vapour Phase Epitaxy
N.Gopalakrishnan, R.Dhanasekaran and P.Ramasamy
XXIV National Seminar on Crystallography, Univ. Jammu, Oct.20-22, 1992.

Details of the Conferences organized (4)

1. Certificate Course on NDE Techniques during 01 - 05 June 2015 - *Coordinator*
2. Workshop on Magnetic and Semiconductor Nanomaterials during 31 October to 01 November 2014 - *Secretary*
3. Conducted Workshop on '**Advanced Coating Technologies and their Applications**' on 24 Jan. 2008. – *Convener*
4. Conducted '**Workshop on Advances in Nanomaterials and Thin films (WANT-2013)**' during 08-09 March 2013. – *Convener*