

Bio-Data

ADDRESS

Dr. (Mrs.) S. KRISHNAVENI
M.Sc., Ph.D.
Associate Professor in Physics
Department of Studies in Physics
University of Mysore, Manasagangotri
Mysuru-570006, Karnataka, India
Phone: 9844023568/0821 – 2419601
E-mail: sk@physics.uni-mysore.ac.in.

EDUCATION

1. Ph.D., (Physics), 2003, University of Mysore; '*Studies on incoherent scattering cross sections of gamma rays by elements*'.
Research guide: Prof. Ramakrishna Gowda, Ph.D.
2. M.Sc., (Physics), 1997, University of Mysore, Mysore, Major Field - Nuclear Physics, (81.3%)
First class, 1st Rank. Winner of Four Gold Medals in M.Sc (Physics).
Passed State Level Eligibility Test (SLET) conducted by Government of Karnataka during 1997
3. B.Sc., (Physics, Mathematics, Chemistry), 1995, University of Mysore; *First class.*

RESEARCH INTERESTS

- Studies on radiation induced defects in semiconductor devices.
- Reliability studies on electronic devices and circuitry.
- Studies on the incoherent scattering of gamma rays to determine the differential scattering cross sections.
- Studies on the K-shell and L-shell x-ray fluorescence cross sections.
- Studies on the effective numbers and electron densities of some chemical compounds.
- Understanding biomolecular mechanisms using Molecular Dynamics simulation techniques.

PROFESSIONAL EXPERIENCE:

Research: Since 1997

Teaching: Since 2003, Teaching Post-Graduate students leading to M.Sc. Degree in Physics.

Subjects taught: Nuclear Physics, Classical Mechanics, Mathematical methods of Physics, General Theory of relativity, Electromagnetism, Quantum Mechanics and Accelerator physics.

TEACHING COURSES:

2 Year M.Sc.: Mathematical methods, Classical Mechanics, Quantum mechanics, Nuclear Physics, Accelerator Physics.

5 Year Integrated M.Sc.: Electrodynamics, Quantum mechanics, Nuclear Physics, Mathematical methods.

Details of Appointments held:

1. 1999-2001: Junior Research Fellowship- University postgraduate junior research fellowship, Department of Studies in Physics, University of Mysore, Mysore.
2. 2001-2002: Senior Research Fellowship- University postgraduate Senior research fellowship, Department of Studies in Physics, University of Mysore, Mysore.
3. 2002-2005: Senior Research Fellowship-CSIR-SRF, Department of Studies in Physics, University of Mysore, Mysore.
4. 2005-2006: Research Associate-CSIR-RA, Department of Studies in Physics, University of Mysore, Mysore.
5. 2006-2007: Lecturer at the Maharani's Science college for women, Mysore.
6. 2007 till date: Lecturer at Department of Studies in Physics, University of Mysore, Mysore.

TEACHING EXPERIENCE:

2001-2006, *Taught M.Sc. students*, Dos in Physics, University of Mysore, Mysore.

July 2006 – July 2007, Lecturer *in Physics*, Maharani's science college for women, Govt. of Karnataka, Mysore.

July 2007 –till date, Assistant Professor *in Physics*, University of Mysore, Mysore.

AWARDS AND FELLOWSHIPS:

- Passed State Level Eligibility Test (SLET) conducted by Government of Karnataka during 1997.
- Four Gold medals for securing FIRST rank in M.Sc. With 81.3% during 1997-1998, from the University of Mysore.
- University Junior Research Fellowship awarded from University of Mysore, Mysore (1999-2001)
- University Senior Research Fellowship awarded from University of Mysore, Mysore (2001-2002)

- Senior research fellowship awarded from Council of Scientific and Industrial Research, New Delhi (2002-2005)
- Research Associate awarded from Council of Scientific and Industrial Research, New Delhi (2002-2005).
- Best paper presentation award for our paper entitled Measurement of K_{α} and K_{β} XRF cross sections for the elements Ag, Cd, In, Sn, and Te excited by 122 keV photons by T.Yashoda and S.Krishnaveni, presented in the 2nd National Women's Science Congress, held at All India Speech and Hearing Institution (AIISH), Mysore, during 7-9, Nov. 2009.
- Best Poster Award for the paper "30 and 60 MeV Boron Ion Irradiation Effects on Electrical Characteristics of Bipolar Transistor" , K. S. Krishna Kumar, C.M. Dinesh, Ramani, S.A. Khan, M.Vinay Kumar, S. Krishnaveni, B. Jayashree, 1st International conference on Physics of Materials and Material Based Device Fabrication, 17th -19th January 2012, Shivaji University, Kolhapur, India.
- Secured Best Oral Presentation (III Place) Award for the paper "MODIFICATION IN ELECTRICAL PROPERTIES OF SILICON PHOTO-DETECTOR DUE TO 100MeV Si⁷⁺ ION IRRADIATION" at National conference on Solar Energy and its Application (NCSEA2013) on 9th April 2013 at Maharani's science college for women, Bangalore-560001.
- Attended International training program on leadership and career development for women scientists and technologists by DST from 26th August to and 4th September 2015 at IISER, Pune.

Foreign Exposure:

Attended "Career Development Workshop for Women in Physics" held at The Abdus Salam International Center for Theoretical Physics, Trieste, Italy, during 12-16 October 2015".

Invited talk:

International Conference on Advances in Science and Engineering, Bangkok, Thailand, 19-22, Jan 2017

Research projects completed:

Sl. No	Title	Agency	Period	Grants/Amount (Rs. In Lakhs)
1.	Studies on the incoherent scattering cross sections for high Z-elements at lower momentum transfers	University of Mysore, Mysore	2 yrs	1
2.	Studies on the irradiation effects on the semiconductor devices	UGC	3 yrs	3.25
3.	Irradiation effects on advanced optoelectronic devices	IUAC	3 yrs	5
4.	Research and Development of RPC detectors for INO project	DST	3 yrs	8.77
5.	R & D Efforts by University Groups for INO project	DST	3 yrs	59.81
6.	Studies on GTPases using Molecular Dynamics simulations. Funding Agency: University of Mysore. Amount: 75 Thousand.	University of Mysore, Mysore	6 months	1
7.	Studies on ion beam induced defects in GaN Schottky Interfaces (LEIBF)	IUAC, New Delhi	3 yrs	1
8.	Studies on ion beam induced defects in GaN Schottky Interfaces (HE)	IUAC, New Delhi	3 yrs	1
9.	Molecular Dynamics-PR	NPSF-CDAC	1 yr	Computing time

PROFESSIONAL AFFILIATIONS:

1. Life member - Indian Society for Radiation Physics (NSRP), Mumbai.
2. Life member – Swadeshi Vijnana Andholana Karnataka (SVAK), Bangalore.
3. Member: Member-India based Neutrino Observatory (INO) group, Mumbai.
4. Life Member- Indian Science congress, Kolkata.

PUBLICATIONS

33 publications in reputed National and International Journals like Nano Energy, Scientific Reports, Nanomaterials, Nuclear Science and Engineering (USA), Nuclear Instruments and Methods (Netherlands), Radiation Physics and Chemistry, Pramana Journal of Physics etc. 38 papers presented in national and international symposia.

Peer reviewed International/National Journals	= 33
International/National Conferences proceedings	= 38
Book Chapter	= 01
Total Number of publications	= 72

List of publications:

Papers published in the national and international reviewed journals:

1. Anup Pandith , Upendra N , Ravi Kumara Guralamatta Siddappa , Sungjin Lee, Chin–Ju Park, **Krishnaveni S**, Young Jun Seo Loop-mediated fluorescent probes for selective discrimination of parallel and antiparallel G-Quadruplexes. *Bioorganic & Medicinal Chemistry*, **35**, 116077 **2021**. IF:3.073
2. Upendra N. and **Krishnaveni S**. Molecular dynamics simulation study on Thermotoga Maritima ENGA: GTP/GDP bound state of the second G-domain influences the domain-domain interface interactions. <https://doi.org/10.1080/07391102.2020.1826359>. IF:3.31
3. Kumar S., Kumar M.V., Kumar, Ashish Kumar, Asokan K and **Krishnaveni S**, Enhancement of Electrical Parameters of Ni/n-GaN SBDs under Remote and not In-flux Gamma Irradiation. *ECS Journal of Solid State Science and Technology*, **9**, 093017, **2020**. IF:2.142
4. Kumar, S. Zhang, X. Mariswamy, V.K. Reddy, V.R.; Kandasami, A. Nimmala, A. Rao, S.V.S.N., Tang, J. Ramakrishna, S. and **Krishnaveni S**. Medium Energy Carbon and Nitrogen Ion Beam Induced Modifications in Charge Transport, Structural and Optical Properties of Ni/Pd/n-GaN Schottky Barrier Diodes. *Materials*, **13**, 1299, **2020**.IF:3.057
5. Kumar, S., Kumar, M. V., & **Krishnaveni, S**. Fabrication and Analysis of the Current Transport Mechanism of Ni/n-GaN Schottky Barrier Diodes through Different Models. *Semiconductors*, **54**(2), 169-175, **2020**.IF:0.641
6. Santosh Kumar, Mariswamy, V. K., Kumar, A., Kandasami, A., Nimmala, A.,S.V.S. Nageshwara Rao, V. Rajagopala Reddy & Krishnaveni, S. Ar Ion Irradiation Effects on the Characteristics of Ru|Pt|n-GaN Schottky Barrier Diodes. **54**(12),1641-1649, 2020. IF: 0.641.
7. Upendra N., and **Krishnaveni S.**, Molecular Dynamics Simulations On *Bacillus Subtilis* Enga – For Exploring Nucleotide Dependent Conformations. *Proceedings of Royal Society of Chemistry*. p3-8, <https://doi.org/10.1039/9781839160783-00001>.
8. Dry-Coated Graphite onto Sandpaper for Triboelectric Nanogenerator as an Active Power Source for Portable Electronics, Smitha Ankanahalli Shankaregowda, Rumana Farheen Sagade Muktar Ahmed, Yu Liu, Chandrashekar Bananakere Nanjegowda, Xing Cheng, Srikantaswamy Shivanna, Seeram Ramakrishna, Zhenfei Yu, Xiang Zhang and **Krishnaveni S**. *Nanomaterials*, **9**, 1585, **2019**.IF:4.324
9. Smitha A. S., Rumana Farheen S. M., Chandrashekar B. N., Jingwei Wang, Shi Rong Guan, Madhusudan P., Abbas Amini, Yulong Z, Dejun K, **Krishnaveni S**, Wang F. and Cheng C., Single-Electrode Triboelectric Nanogenerator Based on Economical Graphite Coated Paper for Harvesting Waste Environmental Energy, *Nano Energy*, **66**, 104141, 2019.IF:16.602
10. Chandrashekar B. N., Smitha A. S., Wu Y., Cai N., Li Y., Huang Z., ... & **Krishnaveni S**. A Universal stamping Method of Graphene transfer for Conducting Flexible and transparent polymers. *Scientific reports*, **9**(1), Nature series, 3999, 2019.IF:3.998

11. Raphael N., Namratha K., Chandrashekar B. N., Sadasivuni K. K., Ponnamma D., Smitha A. S., **Krishnaveni S.**, Chen Chung and Byrappa K., Surface modification and grafting of carbon fibers: A route to better Interface. *Progress in Crystal Growth and Characterization of Materials*, 64(3), 75-101, 2018. IF:6
12. Santosh Kumar, Vinay Kumar M., Nalini B. K. & **Krishnaveni S.** Study of Electrical Transport Characteristics of Ni/p-GaN Schottky diodes, ISBN 978-1-5386-7322-5/18, 2018.
13. Santosh Kumar, Vinay Kumar M., Manjunatha Pattabi, Asokan K., Xavier, Nini, Martin, Chandrashekar B. N., Cheng Chun, **Krishnaveni S.** Effect of Gamma Irradiation on Electrical properties of CdTe/Cds Solar cells. *Proceedings of Materials Today*, 5, P22570-75, 2018.
14. Rumana Farheen S. M. and **Krishnaveni S.** Determination of gamma shielding characteristics of some wood samples available in and around Mysuru, proceedings of NRM, P25-26, Vol.II, ISBN 978-93-5682-405-8, 2018.
15. Upendra N, Abhishek Acharya, Balaji Prakash and **Krishnaveni S.** Conformational Studies on *Bacillus Subtilis* RbgA using Molecular Dynamics Simulations, P69-72, ISBN 978-93-5291-953-6, 2018.
16. Santosh Kumar, Vinay Kumar M., Srinivas R. N., **Krishnaveni S.** Electrical characterization of Ni/nGaNSchottky diodes, P356-358, ISBN 978-93-5291-953-6, 2018.
17. Shakeel Ahmed et al., **Krishnaveni S.** Physics potential of the ICAL detector at the India-based neutrino observatory (INO), *Pramana-J Phys.* 88:79, doi:10.1007/s12043-017-1373-4, 2017.
18. Vinay Kumar M., Santosh kumar, Chun Cheng, Asokan K., Shobha V., Karanth S. P., & **Krishnaveni S.** Influence of High Dose Gamma Irradiation on Electrical Characteristics of Si Photo Detectors. *ECS Journal of Solid State Science and Technology*, 6(10), Q132-Q135, 2017.
19. Aneeshkumar K. V., **Krishnaveni S.**, Ranganathaiah C. and Ravikumar H. B. Effect of electron beam irradiation on the microstructure, optical and electrical properties of glass resistive plate chamber detector material, *Appl.Phys.A.* 123, 535, 2017.
20. Aneesh Kumar K.V., **Krishnaveni S.**, Nambissan P.M.G., Ranganathaiah C. and Ravikumar H.B. Oxygen ion implantation induced structural modifications and electrical conductivity in glass RPC detector materials: A positron lifetime study, *Journal of Non-crystalline Solids*, Eds. Prof. B. G. Potter, Elsevier, **464** 78–89, 2017.
21. Aneesh Kumar K.V., **Krishnaveni S.**, Asokan K., Ranganathaiah C. and Ravikumar H.B. Comparative study of 150 keV Ar⁺ and O⁺ ion implantation induced structural modification on electrical conductivity in Bakelite polymer, *Journal of Physics And Chemistry Of Solids*, Eds. Prof. A. Bansil, Elsevier, **113** 74–81, 2018.
22. Vinay Kumar M., Shammi Verma, Shobha V., Jayashree B., Kanjilal D., Ramani and **Krishnaveni S.**, In-situ Electrical characteristics of 150 MeV Ag⁹⁺ Ion Beam Induced Damage in Si Photo detector, *ECS Journal of Solid State Science and Technology*, 5 (7) P384-P388 (2016).

23. Vinay Kumar M., Santosh Kumar, Yashoda T., **Krishnaveni S.**, SHI Induced Damage in Electrical Properties of Silicon NPN BJTs, AIP Conf. Proc. **1731**, 120031 (2016).
24. Vinay Kumar M., Yashoda T., Dinesh M. C., Krishnakumar S. K., Jayashree B., Ramani, and **Krishnaveni S.**, A Comparative study of 30MeV Boron4+ and 60MeV Oxygen8+ ion irradiated Si NPN BJTs, AIP Conf. Proc. 1665, 120039 (2015).
25. Vinay Kumar M., Shammi Verma, Shobha V., Jayashree B., Kanjilal D., Ramani and **Krishnaveni S.**, 100 MeV Si7+ Ion Irradiation induced modifications in electrical characteristics of Si Photo detector: An In-situ Reliability Study, *Journal of Materials Science Research*, Vol. 3, No. 3; 24-32, 2014.
26. Prasanna Kumar, **Krishnaveni S.**, and Umesh T.K., *Eur. J. Phys.* Determination of rest mass energy of the electron by a Compton scattering experiment, **33**, 65-72, 2012.
27. Vinay Kumar M., Krishnakumar K. S., Dinesh C.M., **Krishnaveni S.**, Ramani. Effect of 100 MeV Oxygen Ion Irradiation on Silicon NPN Power Transistor. *AIP Conference Proceedings*, Volume 1447, pp. 1085-1086, 2012.
28. **Krishnaveni S.** and Ramakrishna Gowda. Incoherent scattering functions of iron, copper, zirconium, tin, tantalum, tungsten, gold and lead in the momentum range $2 \leq q \leq 46 \text{ \AA}^{-1}$ at 661.6 keV photon energy. *Nucl. Instrum. Method B*. Vol. 229/3-4, 333-338, 2005.
29. **Krishnaveni S.**, Shivalinge Gowda, Yashoda T, Umesh T.K. and Ramakrishna Gowda. Incoherent scattering of ^{137}Cs gamma rays in rare earth elements Nd, Sm, Gd, Dy, Er and Yb. *Rad. Phys. Chem.* Vol.74, Issue 1, 1-6, 2005.
30. Yashoda T., **Krishnaveni S.** and Ramakrishna Gowda. Measurement of K-shell fluorescence yields for the elements in the range $22 \leq Z \leq 52$ excited by 14.4 and 122 keV photons. *Nucl. Instrum. Meth. B*. Vol.240/3, 607-611. 2005.
31. Shivalinge Gowda, **Krishnaveni S.** and Ramakrishna Gowda, Studies on effective atomic number and electron densities in Amino acids and sugars in the energy range 30-1330 keV. *Nucl. Instrum. Meth. B* Vol.239/4, 361-369, 2005.
32. Shivalinge Gowda, **Krishnaveni S.**, Yashoda T., T.K. Umesh and Ramakrishna Gowda. Photon mass attenuation coefficients, effective atomic numbers and electron densities of some thermoluminescent dosimetric compounds, *Pramana Journal of Physics*, Vol.63, No.3, 1-13, 2004.
33. Yashoda T., **Krishnaveni S.**, Shivalinge Gowda, Umesh T.K. and Ramakrishna Gowda, Studies on x-ray fluorescence in some rare earth and high Z elements excited by 661.6 keV gamma rays. *Pramana Journal of Physics*, Vol.58, No.1, 31-38, 2002.
34. Mallikarjuna M.L, Appaji Gowda, **Krishnaveni S.**, Ramakrishna Gowda and T.K Umesh. Studies on the photon interaction around the K-absorption of some elements. *Nucl. Sci. Eng.* 140, 96-102, 2002.

Papers presented in National and International Symposia:

1. Study of photon interaction around the K-edge of some elements. G. SriPrakash, N.Ramesh Reddy, **Krishnaveni S.**, Ramakrishna Gowda and T.K. Umesh presented in the 8th International symposium on Radiation Physics held at Prauge, during 5-9th June **2000**.
2. Attenuation coefficients for photon energy absorption of some thermoluminescent dosimetric compounds, Shivalinge Gowda, **Krishnaveni S.**, T. Yashoda, T.K. Umesh and Ramakrishna Gowda, presented in the 14th National symposium on Radiation Physics, held at Guru Nanak University, Amritsar during 1-3, **Nov. 2001, P-51, 282**.
3. Incoherent scattering functions of iron and copper at 661.6 keV incident photon energy, **Krishnaveni S.**, Shivalinge Gowda, T.Yashoda, T.K. Umesh and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai during **12-14, Nov. 2003, P-77, 319**.
4. K x-ray production cross sections and fluorescence yields in some low Z elements excited by 14.4 keV photons, T.Yashoda, **Krishnaveni S.**, Shivalinge Gowda, T.K. Umesh and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai during **12-14, Nov. 2003, P-78, 323**.
5. Effective atomic numbers and electron densities of some halides, Shivalinge Gowda, **Krishnaveni S.**, T. Yashoda and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai **during 12-14, Nov. 2003, P-45, 203**.
6. Measurement of K-shell production cross sections for the elements excited by 122 keV photons. T. Yashoda, **Krishnaveni S.**, Shivalinge Gowda, T.K. Umesh and Ramakrishna Gowda, presented in the 16th National symposium on Radiation Physics, held at Meenakshi College for women, Chennai, during **18-20, Jan. 2006, CP-93, 312**.

7. Studies on effective atomic numbers and electron densities of some halides, Shivalinge Gowda, **Krishnaveni S.**, T. Yashoda and Ramakrishna Gowda, presented in the 16th National symposium on Radiation Physics, held at Meenakshi College for women, Chennai, during 18-20, **Jan. 2006, CP-70, 284.**
8. Measurement of K_{α} and K_{β} XRF cross sections for the elements Ag, Cd, In, Sn, and Te excited by 122 keV photons. T. Yashoda and **Krishnaveni S.**, presented in the 2nd National Women's Science Congress, held at All India Speech and Hearing Institution (AIISH), Mysore, **during 7-9, Nov. 2009.**
9. Differential incoherent scattering cross sections for barium in the angular range 10 to 120^o. **Krishnaveni S.**, T. Yashoda, Shivalinge Gowda and Ramakrishna Gowda, presented in the 18th National symposium on Radiation Physics, to be held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur 313001 (Rajasthan) India, during **November 19-21, 2009, Proceedings of the NSRP-18, p299-301.**
10. Measurement of K_{α} and K_{β} XRF cross sections for the elements Sr, Y, Zr, Mo excited by 122 keV photons. T. Yashoda, **Krishnaveni S.**, Shivalinge Gowda and Ramakrishna Gowda, presented in the 18th National symposium on Radiation Physics, to be held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur 313001 (Rajasthan) India, during **November 19-21, 2009, Proceedings of the NSRP-18, p273-274.**
11. The studies on effective atomic number and electron densities of some chemical compounds, Shivalinge Gowda, T. Yashoda, **Krishnaveni S.**, and Ramakrishna Gowda, presented in the 18th National symposium on Radiation Physics, to be held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur 313001 (Rajasthan) India, during **November 19-21, 2009, Proceedings of the NSRP-18, p302-304.**
12. Measurement of K_{α} and K_{β} XRF cross sections for the elements Ag, Cd, In, Sn, and Te excited by 122 keV photons by T. Yashoda and **Krishnaveni S.**,

presented in the 2nd National Women's Science Congress, held at All India Speech and Hearing Institution (AIISH), Mysore, during **7-9, Nov. 2009**.

13. 60 and 100 MeV Oxygen Ion Irradiation Effects on Electrical Characteristics of Bipolar Transistor, K. S. Krishakumar, C.M. Dinesh, Ramani, M. Vinay Kumar, **Krishnaveni S.**, M. C. Radhakrishna, B. Jayashree International Workshop on the Physics of Semiconductor Devices, **Dec.19-22,2011**. IIT Kanpur, Kanpur India.
14. Effect of 100MeV oxygen ion irradiation on silicon NPN power transistor, M. VinayKumar, K.S.Krishnakumar, C.M.Dinesh, **Krishnaveni S.** Ramani, 56th DAE SSPS, **19–23 December 2011**, SRM University, Kattankulathur, Tamilnadu, India.
15. Best Poster Award for the paper “30 and 60 MeV Boron Ion Irradiation Effects on Electrical Characteristics of Bipolar Transistor” , K. S. Krishna Kumar, C.M. Dinesh, Ramani, S.A. Khan, M.Vinay Kumar, **Krishnaveni S.**, B. Jayashree, 1st International conference on Physics of Materials and Material Based Device Fabrication, **17th -19th January 2012**, Shivaji University, Kolhapur, India.
16. “Effect of 60 MeV Boron Ion Irradiation on Silicon NPN Power Transistor”, M. Vinay Kumar, K. S. Krishnakumar, C.M. Dinesh, B. Jayashree, Ramani, **Krishnaveni S.**, 1st International conference on Physics of Materials and Material Based Device Fabrication, **17th -19th January 2012**, Shivaji University, Kolhapur, India.
17. Modification in electrical properties of silicon photo detector due to 100 MeV Si⁷⁺ ion irradiation. M. Vinay Kumar, K. S. Krishnakumar, C.M. Dinesh, B. Jayashree, Ramani, **Krishnaveni S.**, National conference on Solar Energy and its Application (NCSEA2013) on **9th April 2013** at Maharani's science college for women, Bangalore.
18. “Deterioration of Electrical Properties of Si Photo detector under 150MeV Ag⁹⁺ Ion irradiation: An in-situ study” Vinay Kumar M, Shammi Verma, **Krishnaveni S**, Jayashree B, Ramani and Kanjilal D, presented at SHIMEC 2014, IUAC New Delhi during **October 14th to October 17th 2014**.
19. “A Comparative study of 30MeV Boron4+ and 60MeV Oxygen8+ ion irradiated Si NPN BJTs” Vinay Kumar M , Yashoda T, Dinesh M C,

Krishnakumar S K, Jayashree B, Ramani, and **Krishnaveni S.** presented at 59th DAE-SSPS at Vellore Institute of technology, Tamil Nadu, during **16-20, December 2014.**

20. “SHI Induced Damage in Electrical Properties of Silicon NPN BJTs” VINAY M KUMAR, SANTHOSH KUMAR, YASHODA T, **Krishnaveni S.**, presented at 60th DAE-SSPS at Amity University, Noida, UP, India, during **21-25, December 2015.**
21. Effect of Gamma irradiation on Electrical Properties of CdTe/CdS Solar Cells Santosh Kumar, Vinay Kumar M., ManjunathaPattabi, Asokan K., Xavier, Nini, Martin and **Krishnaveni S.** *International Conference on Advances in Science and Engineering*, Bangkok, Thailand, **19-22, Jan 2017.**
22. Gamma irradiation on Electrical Properties of CdTe/CdS Solar Cells, Santosh Kumar, Vinay Kumar M., ManjunathaPattabi, Asokan K., Xavier, Nini, Martin and **Krishnaveni S.** International Symposium on Advanced Materials for Engineering Applications (ISAMEA-2017) **March 24-25, 2017** at National institute of Engineering, Mysuru.
23. Effect of high dose Gamma irradiation on Electrical Properties of CdTe/CdS Solar Cells, Santosh Kumar, Vinay Kumar M., ManjunathaPattabi, Asokan K., Xavier, Nini, Martin and **Krishnaveni S.** National symposium on Nano science and Technology, IISC, Bengaluru from **July 2-4, 2017.**
24. “Effect of high dose Gamma irradiation on Electrical Properties of GaAs infrared emitting diode (IRED)”. Santosh Kumar, M Vinay Kumar, Asokan K, & **Krishnaveni S.** National Conference on Science and Technology-Reaching the Unreached-Recent advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment, **8th– 9th September, 2017**, Mangalore University, Mangalagangothri-574199 Mangalore, Karnataka.
25. “Effect of High Dose Gamma Irradiation on Electrical Properties of commercial GaN and GaAs based Optoelectronic Devices”. Santosh Kumar, M Vinay Kumar, Asokan K, & **Krishnaveni S.** National Seminar on “Recent Trends in Physics (NSRTP-2017), **26 September 2017**, Bharathi College Mandya, Karnataka.
26. Conformational Studies on *Bacillus Subtilis*RbgA using Molecular Dynamics Simulations. Upendra N, Abhishek Acharya, Balaji Prakash and **Krishnaveni S.**, International conference on Recent Advances in Materials Science and Biophysics, **January 23-25, 2018**, Mangalore University.

27. Electrical characterization of Ni/nGaNSchottky diodes, Santosh Kumar, M Vinay Kumar, Srinivas R N, **Krishnaveni S.** International conference on Recent Advances in Materials Science and Biophysics, **January 23-25, 2018**, Mangalore University.
28. “Simulation studies on RbgA – a prokaryotic GTPase involved in Ribosome assembly”, Upendra N, Abhishek Acharya, Balaji Prakash and **Krishnaveni S.** National conference on recent advanced materials-2018, **February 23-24, 2018**, Thiruvalluvar University College of Arts and Science, Tamil Nadu.
29. Study of Current-Voltage plots by different methods for Ni/n-GaN Schottky diodes. Santosh Kumar, Srinivas R.N. and **Krishnaveni S.** National conference on recent advanced materials-2018, **February 23-24, 2018**, Thiruvalluvar University College of Arts and Science, Tamil Nadu.
30. Determination of gamma shielding characteristics of some wood samples available in and around Mysuru, RumanaFarheen S. M. and **Krishnaveni S.** National conference on radiation physics & its applications in material science & medicine, **April-6th, 2018**, Government College for Women (GCW), Kolar.
31. “700 keV O³⁺ ion implantation induced effects on transport properties of Cr/p-GaN Schottky diode”. Santosh Kumar, M Vinay Kumar, V Rajgopal Reddy, **Krishnaveni S.** International Conference on Ion Beams in Materials Engineering and Characterization (IBMEC 2018) organized by Inter University Accelerator Centre (New Delhi) **from 9-12 October 2018**.
32. “Molecular Dynamics Simulations on EngA – A GTPase involved in Ribosome Assembly”. Upendra N., Abhishek Acharya, Balaji Prakash and **Krishnaveni S.**, International Conference on Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC), **March 18-20, 2019**, VijnanaBhavan, University of Mysore, Mysuru-570006.
33. “Flexible and Transparent Electrode based Triboelectric Nanogenerator for Efficiently Harvesting Wind Energy”. Smitha A.S., RumanaFarheen S. M., and **Krishnaveni S.**, International Conference on Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC), **March 18-20, 2019**, VijnanaBhavan, University of Mysore, Mysuru-570006.
34. “Comparison of Electrical Parameters of Ni/Pd/n-GaN and Ni/Ru/n-GaN SBD’S Extracted from Different models”. Santosh Kumar, Vinay Kumar M. and **Krishnaveni S.** International Conference on Advanced Functional

Materials for Energy, Environment and Health Care (*AFMEEHC*), **March 18-20, 2019**, Vijnana Bhavan, University of Mysore, Mysuru-570006.

35. “Study on variation of structural and electronic properties of hcp Zn at various temperatures. Muniraju M., Somashekar R. and **Krishnaveni S.** International Conference on Advanced Functional Materials for Energy, Environment and Health Care (*AFMEEHC*), **March 18-20, 2019**, Vijnana Bhavan, University of Mysore, Mysuru-570006.
36. “Conformational Studies on EngAGTPase using Molecular Dynamics Simulations”. Upendra N., Abhishek Acharya, Balaji Prakash and **Krishnaveni S.** National Seminar on Biomolecular structure and dynamics, **March 28-29, 2019**, Periyar University, Salem, Tamil Nadu.
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