Curriculum Vitae

Dr. Krishnaveni S.
Professor
Department of Studies in Physics
University of Mysore, Mysuru- 570006, India.
0821-2419608; +91-9844023568
sk@physics.uni-mysore.ac.in

Current Positions

Professor, Department of Studies in Physics, University of Mysore, Mysuru, India.

Education Qualifications

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. (Retired)
2. M.Sc., (Physics), 1997, University of Mysore, Mysore, Major Field - Nuclear Physics, (81.3%) , ***First class, 1st Rank, Four Gold Medals in M.Sc. (Physics).***
3. State Level Eligibility Test (SLET) conducted by Government of Karnataka during 1997
4. B.Sc., (Physics, Mathematics, Chemistry), 1995, University of Mysore; ***First class.***

Research Experience

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.

Research Contributions

Publications in reputed National and International Journals like Nano Energy, Chemical Engineering, Waste Management, International Journal of Biological Macromolecules, Scientific Reports, ACS Applied Electronic Materials, Materials Today Sustainability, Materials Today Chemistry, Nano materials, Journal of Biomolecular Structure and Dynamics, Nuclear Science and Engineering (USA), Progress in Nuclear Energy, Inorganic Chemistry Communications, Nuclear Instruments and Methods (Netherlands), Radiation Physics and Chemistry, Pramana Journal of Physics etc. Several papers presented in national and international symposia.

- Peer reviewed International/National Journals = 106
- International/National Conferences proceedings = 74
- Book Chapter = 04
- Total citations = 1845
- h-index = 22
- i-10 index = 33

Sl.No	Patent Title	Year of Patent	Reference Number	Status	Category
1.	Self-Powered Triboelectric Chemical Sensor Fabricated from Renewable Agro-Waste Materials	2024	202441098917	Filed	National

Teaching Experience

- 2001-2006, *taught M.Sc. students*, Dos in Physics, University of Mysore, Mysore.
- July 2006 – July 2007, Assistant Professor of *Physics*, Maharani's Science College for Women, Govt. of Karnataka, Mysore.
- 2007-2018: Assistant Professor, Department of Studies in Physics, University of Mysore, Mysore.
- 2018-2021: Associate Professor, Department of Studies in Physics, University of Mysore, Mysore.
- 2021-till date, Professor, Department of Studies in Physics, University of Mysore, Mysore.

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. 2007-2018: Assistant Professor, Department of Studies in Physics, University of Mysore, Mysore.
7. 2018-2021: Associate Professor, Department of Studies in Physics, University of Mysore, Mysore.
8. 2021 to date: Professor, Department of Studies in Physics, University of Mysore, Mysore.

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.

Awards and Honors

- Four Gold medals for securing FIRST rank in M.Sc. With 81.3% during 1997-1998, from the University of Mysore.
- State Level Eligibility Test (SLET) conducted by Government of Karnataka during 1997.
- 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 Ex*cited by 122 keV photons by* T.Yashoda & **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.
- Best Poster Award for the paper "30 and 60 MeV Boron Ion Irradiation Effects on Electrical Characteristics of Bipolar Transistors" , K. S. Krishna Kumar, C.M. Dinesh, Ramani, S.A. Khan, M.Vinay Kumar, **Krishnaveni S**, B. Jayashree, Ist 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 Si^{7+} 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.
- Best paper award for the paper "Effect of Humidity on the Performance of Polyvinyl Chloride Based Triboelectric Nanogenerator". Rumana Farheen S. M., Sankarshan B. M., Sangamesha M. A., Mohith B. R, & **Krishnaveni S.,** International Conference on Recent Advances in Engineering Materials (ICRAEM 2022) held at Alva's Institute of Engineering & Technology, Moodbidri, Karnataka, India during 03 - 05, March 2022.
- Best poster presentation award for the paper "Simulation studies of H, He, B, Ca, Ag and Pb ions induced effects on Zylon". L. Adarsh Raj, S. Likhitha , H.N. Mounika , B. M. Sankarshan & **Krishnaveni S.** International Symposium on Emerging Materials For Sustainable Energy And Environment (EMSEE) – July 15th 2023 .
- Best poster presentation award for the paper "Tribo electric nanogenerator from polymer layer of smart-mobile displays". Meghana D.S. , Kumaraswamy N.S., Sebghatullah Amini, Rumana Farheen, Sangamesha M A., & **Krishnaveni S.** One day – National conference on the occasion of world environmental day- 2023.
- Best poster presentation award for the paper "Polyvinyl alcohol-Graphite based triboelectric nanogenerator as a sustainable source for free energy harvesting". Bhavana B., Lohith D., Sebghatullah Amini, Rumana Farheen, Sangamesha M A., & **Krishnaveni S.** One day – National conference on the occasion of world environmental day- 2023.
- Best poster presentation award for the paper "PVA+PEG Polymer composites for high-performance triboelectric Nanogenerators". Sindhuja.B, Sebghatullah Amini, Sangamesha M.A, & **Krishnaveni S.** National Conference on Sustainable Energy Conversion and Storage: Functional Materials, Systems and Applications (NCSECS-2024)
- Best poster presentation award for the paper "Flexible Polyvinyl Alcohol-Expanded

Graphite-based Triboelectric Nanogenerator: Efficient Energy Harvesting for Self-Powered Electronics". Sebghatullah Amini, Rumana Farheen Sagade Muktar Ahmed, Sangamesha Madanahalli Ankanathappa, & **Krishnaveni S**. National Conference on Energy Harvesting Technologies: Tapping the Power of Nature (EHT-TPN 2024).

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.
- Fabrication, characterization and demonstration of triboelectric nanogenerators for sustainable energy harvesting.

Research Projects (Completed/Ongoing)

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 2008-2010	1
2.	Studies on the irradiation effects on the semiconductor devices	UGC, New Delhi	3 yrs 2011-2014	3.25
3.	Irradiation effects on advanced optoelectronic devices	IUAC, New Delhi	3 yrs 2011-2014	5
4.	Research and Development of RPC detectors for INO project	DST, New Delhi	3 yrs 2010-2013	8.77
5.	R & D Efforts by University Groups for INO project	DST, New Delhi	3 yrs 2012-2015	59.81
6.	Studies on GTPases using Molecular Dynamics simulations.	University of Mysore, Mysore	6 months 2018	1
7.	Studies on ion beam induced defects in GaN Schottky Interfaces (LEIBF)	IUAC, New Delhi	3 yrs 2018-2021	1
8.	Studies on ion beam induced defects in GaN Schottky Interfaces (HE)	IUAC, New Delhi	3 yrs 2018-2021	1
9.	Molecular Dynamics-PR	NPSF-CDAC	1yr 2021	Computing time
10.	Studies on ion irradiation effects on 4H SiC /Pd Schottky UV photodetector.	IUAC, New Delhi	3 yrs 2020-2023	1
11.	Investigation of RA-GTPases conformations and their interactions with the ribosome constituents: To	DST SERB-SURE, NewDelhi	3 yrs 2024-2027	30

	regulate cell proliferation through ribosome biogenesis			

Foreign Exposure / Invited Talks

- Attended the "Career Development Workshop for Women in Physics" held at The Abdus Salam International Center for Theoretical Physics, Trieste, Italy, during 12-16 October 2015, by invitation.
- International Conference on Advances in Science and Engineering, Bangkok, Thailand, 19-22 Jan 2017.

Research Guidance

Awarded Ph.D. Students

1. Vinay kumar M, "Influence of radiation induced defects on electrical properties of some semiconductor devices"-2017.
2. Santosh kumar, "Study on the Properties of Metal-Semiconductor Schottky Interface under Radiation Environment"-2021.
3. Smitha A S, "Development And Characterisation Of Triboelectric Nanogenerators "-2020
4. Upendra Nagarajachari, "Studies on Macromolecules Using Molecular Dynamics Simulation Techniques"-2022.
5. Rumana Farheen Sagade Muktar Ahmed, "A study on enhancing surface charge density of flexible triboelectric nanogenerator"-2023.
6. Kruthika Krishnappa, "Shielding Characteristics Of Materials Through Gamma Ray Interaction Studies"-2025.

Current Ph.D.Students

1. Shwetha Mohan, "Improving The Performance Of Energy Efficient Routing Protocol In Underwater Wireless Sensor Networks Using Machine Learning Approaches".
2. Kavya Kallahalli Mohan Kumar, "Conformational Studies on GTPases using Molecular Dynamics Simulation Techniques".
3. Ashwitha Chikke Gowda, "Gamma ray shielding characteristics of some composite materials".
4. Sebghatullah Amini, "Design, fabrication, and characterization of flexible nanogenerators for energy harvesting applications".
5. Thejavathi Nagamangala Ranganatha, "Luminescence studies on aluminate phosphors for radiation dosimetry".
6. L Adarsh Raj, "Design and Fabrication of Triboelectric Nanogenerators for Sustainable Energy Harvesting".
7. Guruswaroop C.(Enrolled-22-03-2024)**.**
8. Vaishnavi N. (Enrolled- 16-02-2025).

Administrative Responsibilities

1. Chairperson, DoS in Physics, University of Mysore, from 08-02-2023 to 07-02-2025
2. Chairperson, ICC, University of Mysore.
3. Coordinator, IPR, University of Mysore.
4. Chairperson, Malabar college of ophthamology, University of Mysore, Nanjangud.
5. Chairperson, BOS in physics, Bangalore City University.
6. Member, BOS in physics, KSOU.
7. Member, BOS in physics, Bangalore university.
8. Member, BOS in physics, Mandya University, (Both PG and UG).

9. Member, BOS in physics, JSS College (Both PG and UG).
10. Member, BOS in physics, Hassan University (Both PG and UG).
11. Member, BOS in physics, Chamarajanagara University (Both PG and UG).
12. Member, BOS in physics, Mahajana degree college (Both PG and UG).
13. E-Attestation officer, University of Mysore.
14. Member, Students redressal committee, University of Mysore.
15. Member, OBC committee, University of Mysore.
16. Member, University PG Sports Council, University of Mysore.
17. Member, BOS in Physics, DoS in Physics, University of Mysore.
18. Member, BOS in physics, Bangalore City University.
19. Governing council member, BGS degree college, Mysore.
20. BOE Chairperson for two terms, 2019 and 2022.
21. Member, Faculty of Science and technology.University of Mysore.
22. Member, Recognized guide of Electronics.
23. Member, Faculty of engineering science, University of Mysore.
24. Coordinator for refresher course on material science-2021.
25. Member, BOE in Physics, University of Mysore.
26. Member, BOE in Physics, Bangalore University.
27. Member, BOE in Physics, KSOU.
28. Member, BOE in Physics, Mangalore University.
29. Member, BOE in Physics, Davanagere University.
30. Member, BOE in Physics, Bangalore North university.
31. Member, BOE in Physics, Bangalore City University.
32. Liaison Officer for NAAC, University of Mysore, 2019-2020.
33. Director, International Centre, February 2025-February 2026, University of Mysore, Mysuru, India.
34. Co-ordinator, Chinese program, University of Mysore, Mysuru, India.
35. Co-ordinator, Vijnana Bhavan, April 2025-February 2026, University of Mysore, Mysuru, India.
36. Nodal Officer, UUCMS, University of Mysore, Mysuru, India.

Workshops/Seminars conducted

- RUSA sponsored a two day FDP seminar on Quantum Physics during 6th and 7th December 2024 at DoS in Physics, University of Mysore, Mysuru.
- RUSA sponsored a two day FDP seminar on Materials Science during 20th and 21st December 2024 at DoS in Physics, University of Mysore, Mysuru.

Membership in Advisory Committee

- Life member – Swadeshi Vijnana Andholana Karnataka (SVAK), Bangalore.
- Life Member- Indian Science congress, Kolkata.

Membership in scientific societies

- Life member - Indian Society for Radiation Physics (NSRP), Mumbai.
- Life Member-India based Neutrino Observatory (INO) group, Mumbai.

Research Publications

Papers published in the national and international reviewed journals:

Communicated

1. Adarsh Raj L., Varsha H. P., Rumana Farheen S. M., Sangamesha M. A., Krishnaveni S. (2025). Plastic Waste Valorization into Triboelectric Nanogenerators for Energy Harvesting and Automated Rain-sensing Clothesline. Waste Management.
2. Designing Synergistic Polymer–Carbon Interfaces for High-Performance Triboelectric Energy Harvesting Adarsh Raj L., Sebghatullah Amini, Rumana Farheen S. M., Sangamesha M. A., Gurumurthy S, Krishnaveni S. Measurements.
3. Synergizing the effects of Electron Delocalization and Dielectric Trapping in Polymer Composites for Energy Harvesting Applications Sebghatullah Amini, Adarsh Raj L., Rumana Farheen S. M., Sangamesha M. A., Krishnaveni S. Surfaces and Interfaces
4. Insights from Molecular Dynamics and Metadynamics into Nucleotide-Regulated and Species-Specific Conformational Dynamics of Era GTPase. Kavya K. M., Upendra N., Guruswaroop C., Krishnaveni S. Journal of Molecular Graphics and Modelling.

Published

1. Self-Powered Gesture and Multi-Human Interaction Sensing via Bioactive Compounds-Integrated Triboelectric Nanogenerator. Prabhuswamy, M. B., Lokesh, Y. V., Rumana Farheen S.M., Rajanna, K., Kendagannaswamy, B. K., Madanahalli Ankanathappa, S.,**Krishnaveni S.** Madhukar, B. S. (2026). *ACS Applied Bio Materials*.
2. Sustainable Triboelectric Nanogenerators: Natural Fillers-PVA Composites for Energy Generation and Chemical Sensing.Veeranapura Lokesh, Y., Prabhuswamy, M. B., Rumana Farheen S.M., Madanahalli Ankanathappa, S., Rajanna, K., Sachith, B. M., ...**Krishnaveni S.** & Madhukar, B. S. (2026). *ACS Applied Polymer Materials*.
3. Dual-responsive magnesium oxide nanocomposites for coupled catalysis and energy generation SM Rumana Farheen, DA Dadagishiev, N Vaishnavi, AG Magomedova, Merlin Albert, AA Rabadanova, A Pallavi, SP Chaitanya, MA Sangamesha, MK Rabadanov, HC Manjunatha, FF Orudzhev, **Krishnaveni S.** 2025, Surfaces and Interfaces, 108361
4. Double Deep Reinforcement Learning for Optimization of Underwater Acoustic Sensor Network Energy Consumption and Congestion Control. **Krishnaveni S.**, Shwetha M. Transactions on Emerging Telecommunications Technologies, 2025, 36, 12, e70293.
5. Exploring light matter interaction and triboelectric behaviour in carbon nitride quantum dot/polymethyl methacrylate nanocomposites. Ramesha, D.H., Gurumurthy, A., Nagaraju, M., Yashaswini, V.L., Kendagannaswamy, B.K., Rajanna, K., Ahmed, R.F.S.M., Sangamesha, M.A., **Krishnaveni S.**, Panicker, U.G. and Madhukar, B.S., 2025. FlatChem, p.100976.
6. Gamma-ray interaction study of PVA composites with building materials as fillers: determination of effective atomic numbers. Ashwitha C., Adarsh Raj L., Vaishnavi N., Sankarshan B. M., **Krishnaveni S.** 2025, Applied Radiation and Isotopes, , 112356
7. Green Synthesis and Characterization of BaZrPbO Nanocomposites for Gamma Radiation Protection Kruthika K., Rumana Farheen S.M., Manjunatha H.C. , Vidya Y. S. , Adarsh L

Raj, Sridhar K.N. , Munirathnam R. , Manjunatha.S, **Krishnaveni S.** (2024). Radiation Physics and Chemistry, 113427

8. Exploring the potential of one-dimensional functionalized multi-walled carbon nanotubes in triboelectric nanogenerator for self-powered applications. Shivakumar J.S., Nanditha T.K., Sebghatullah Amini, Rumana Farheen S.M., Sangamesha M.A., **Krishnaveni S.**, Gurumurthy S.C. Alloys and Compounds, 1041 (2025) 1–9.
9. Nucleotide-Dependent Structural Dynamics and Domain Motion in *Coxiella burnetii* EngA GTPases: Insights from Molecular Dynamics Simulation. Kavya K.M., Guruswaroop C., Upendra N., **Krishnaveni S.**, Archives of Biochemistry and Biophysics. 776 (2026), 110693.
10. Polysaccharide-Enriched Natural Gum Based Polymer Biocomposites as Triboelectric Nanogenerators for Enhanced Power Generation. Yashaswini V.L., Mahadevswamy B.P., Rumana Farheen S.M., Kavya R., Sangamesha M.A., **Krishnaveni S.**, Madhukar B.S. ACS Applied Engineering Materials, (2025) 1–13.
11. Comprehensive Computational Study of a Novel Chromene-Trione Derivative Bioagent: Integrated Molecular Docking, Dynamics, Topology, and Quantum Chemical Analysis. Sivaprakash P, Viji A, **Krishnaveni S.**, Kavya KM, Lee D, Kim I. International Journal of Molecular Sciences. 2025; 26(19):9661.
12. High-performance tribopositive PEG-PVA blends for smart energy harvesting: A pathway to self-powered security and healthcare monitoring. Sebghatullah Amini, Rumana Farheen Sagade Muktar Ahmed, Sindhuja Basarakodu, Kavya Kallahalli Mohankumar, Sangamesha Madanahalli Ankanathappa, **Krishnaveni S.** Composites Science and Technology. 111356, 2025.
13. Unveiling the Role of Ionic States of Cesium halides for High-Performance Triboelectric Nanogenerators: Applications in UV-Sensitive Devices. Lingaraj, A. R., Vaishnavi, N., Ahmed, R. F. S. M., Mohankumar, K. K., Ankanathappa, S. M., & **Krishnaveni S.** *Sensors and Actuators A: Physical*, 117094, 2025.
14. DFT-Guided Design of Bioextract-Based Triboelectric Nanogenerators: A Green Pathway to Self-Powered Electronics. S. M, Mizba Tazleem, Rumana Farheen S. M, Yashaswini V. L, Vinay Kumar M, Kavya K. M, Madhukar B. S, **Krishnaveni S.**, and Sangamesha A. M. *ACS Sustainable Chemistry & Engineering*, *13*(36), 14726-14741, 2025.
15. A sustainable approach to energy generation from recycled capacitors and batteries: intelligent fluid monitoring device. Adarsh Raj L. , Sebghatullah Amini , Imran Nazeer R. Ahmed., Rumana Farheen S.M., Sangamesha M.A., **Krishnaveni S.** Materials Science & Engineering B, 323 (2025) 118744.
16. E-waste resistors-based triboelectric nanogenerators for sustainable energy harvesting and self-powered electronics. Sankarshan B.M., Maruthi Dhiren, Rumana Farheen S.M., Adarsh Raj L., Sebghatullah Amini, Sangamesha M.A., **Krishnaveni S.** Sensors and Actuators A: Physical, 394 (2025) 1–12.
17. Praseodymium-doped BiPO4/PVA hybrid nanocomposites for integrated UV shielding and self-powered energy systems. Sahana R., Rumana Farheen S.M., Sangamesha M.A., Madhukar B.S., **Krishnaveni S.** Materials Science & Engineering B, 322 (2025) 1–15.
18. Flexible, lead-free Cs3Bi2Br9@EVA nanocomposite triboelectric nanogenerator for energy harvesting and tactile sensing. Kushal Mohan Gowda, Yashaswini Y.L., Rumana Farheen

S.M., Sangamesha M.A., **Krishnaveni S.**, Madhukar B.S. Emergent Materials, (2025) 1–16.

19. Bimetallic oxide CrBiO4-integrated energy harvesting device: A step toward self-powered proximity sensors. Rumana Farheen S.M., Sebghatullah Amini, Pruthvi M.P. Sangamesha M.A., Manjunatha H.C., Manjunatha S., **Krishnaveni S.** Surfaces and Interfaces, (2025) 1–10
20. Thermoluminescence characteristics of Mn doped SrAl2O4 phosphor. Thejavathi N.R., Lokesha H.S., Nagabhushana K.R., Sonia Hatsue Tatumi, **Krishnaveni S.** Physica Scripta, 100 (2025) 1–13.
21. Development of expanded graphite compositeâ€‘based triboelectric nanogenerator for sustainable energy generation. Sebghatullah Amini, Rumana Farheen S.M., Sangamesha M.A., **Krishnaveni S.**J Mater Sci: Mater Electron, 36 (2025) 1–13.
22. Fluorescent CsPbBr3@Cs4PbBr6/PU polymer nanocomposite-based triboelectric nanogenerator for self-powered UV sensing. Simran Sainand Revankar, Yashaswini V.L., Rumana Farheen S.M., Sangamesha M.A., **Krishnaveni S.**, Madhukar B.S. Materials Today Chemistry, 44 (2025) 1–11.
23. Optimizing Energy Efficient Routing Protocol Performance in Underwater Wireless Sensor Networks with Machine Learning Algorithms. Shwetha M, **Krishnaveni S.**,Transactions on Emerging Telecommunications Technologies (2025):1–10.
24. Revolutionizing Automobile Waste into Renewable Energy by Triboelectric Nanogenerators for Vehicle Safety. Rumana Farheen S.M., Neelakantaiah, D. H, Sangamesha M.A., **Krishnaveni S**., *Sensors and Actuators: A. Physical*, (2025): 116278.
25. Molecular dynamics simulation studies on Bacillus subtilis RbgA: Insights into the RbgA-ribosome association and GTPase activity. Upendra N., Kavya K.M., **Krishnaveni S.,** *Journal of Biomolecular Structure and Dynamics,* (2025).
26. Aloe vera mediated calcium and bismuth oxide-based nanocomposites for gamma radiation shielding applications. Kruthika K., Rumana Farheen S.M., Manjunatha H.C., Vidya Y. S., Sridhar K.N., Munirathnam R., Manjunatha S., **Krishnaveni S.**, *Radiation Physics and Chemistry,* (2024).
27. Biomimetic Ant Silk Fiber-Based Triboelectric Nanogenerator: Toward Advanced Tactile Sensing Technology. Rumana Farheen S. M., Mizba Tazleem S.M., Sangamesh M.A., **Krishnaveni S**., *Sustainable Energy & Fuels,* (2024).
28. Polyaniline-Doped Textile-Based Triboelectric Nanogenerator: Self-powered Device for Wearable Electronics. Applied research. Sebghatullah Amini, Rumana Farheen S. M., Santosh Kumar, Sangamesha M. A., and **Krishnaveni S.,** *Applied Research, (2024),*
29. Copper Selenide as a Facile Nanomaterial for Triboelectric Nanogenerator: Self-powered Braille Code Keyboard. Rumana Farheen S. M., Sebghatullah Amini, Raghanya G , Sangamesha M. A , **Krishnaveni S.** Chemical engineering Journal (2024).
30. Electrifying Waste Textiles: Transforming Fabric Scraps into High-Performance Triboelectric Nanogenerators for Biomechanical Energy Harvesting. Sebghatullah Amini, Rumana Farheen S M, Santosh Kumar, Sangamesha M A, and **Krishnaveni S.,** Waste management, (2024).
31. Effects of 10 MeV Electron Irradiation on Electrical Properties of Ni/Pd/n-GaN Schottky Barrier Diodes, Santosh Kumar, Rakshith H.S., Vinay Kumar M., and Krishnaveni S. Semiconductor, (2024).

32. Aloe Barbadensis - Assisted MgBiO/MgCuBiO Nanocomposites as Effective Gamma Shielding Novel Materials. Kruthika K., Rumana Farheen S.M., Manjunatha H.C., Vidya Y. S., Sridhar K.N., Munirathnam R., Manjunatha S., **Krishnaveni S.** Progress in Nuclear Energy, (2024).
33. Green Synthesized Cr2O3/ Bi2O3 Nanocomposites for Gamma Ray Shielding. Kruthika K., Rumana Farheen S.M., Manjunatha H.C. , Vidya Y. S. , Sridhar K.N. , Munirathnam R. , Manjunatha.S, **Krishnaveni S**., Inorganic Chemistry Communication, (2024).
34. Thermoluminescence characteristics of monoclinic SrAl2O4 phosphor prepared by combustion method: Thejavathi N.R., Lokesha H.S., Nagabhushana K.R., Sonia Hatsue Tatumi C., **Krishnaveni S.,** *Ceramics International*, **24** (2024) 260.
35. Electricity out of electronic trash: Triboelectric nanogenerators from discarded smartphone displays for biomechanical energy harvesting: Rumana Farheen S.M., Sebghatulla Amini, Sangamesha M.A., **Krishnaveni S**., *Waste Management*, **178** (2024) 1
36. A systematic analysis, outstanding challenges, and future prospects for routing protocols and machine learning algorithms in underwater wireless acoustic sensor networks: Shwetha M., **Krishnaveni S**., *Journal of Interconnection Networks*, (2024) 2330001-1.
37. Synergistic effects of rGO functionalization in nanocomposite-based triboelectric nanogenerators for enhanced energy harvesting: Yashaswini V.L., Rumana Farheen S.M., Mahadevaswamy B.P., Madhukar B.S., Sangamesh M.A, **Krishnaveni S**., *Sensors and Actuators: A. Physical*, **370** (2024) 115200.
38. Novel Isoxazolylpyrimidine Derivatives: Design, Synthesis, Antifungal Activity And In-Silico Studies: Hari K.N., Boja Poojary, Kavya K.M., Govindan Chandrasehar, **Krishnaveni S**., Anup Pandith., *Asian Journal of Organic Chemistry*, **21** (2024) 1.
39. Investigation of Phe-tRNA interaction with EF-Tu in GDP/GTP nucleotide bound states: a molecular dynamics simulation study: Kavya K.M., Upendra N., Shuchika D Biligere, **Krishnaveni S.**, *Brazilian Journal of Development*, **10** (2024) 1.
40. Investigating the annealing effects on the performance of polyvinyl alcohol-graphite-based triboelectric nanogenerator: Sebghatullah Amini, Rumana Farheen S.M., Sangamesha M.A., Manjunatha H.C., Manjunatha S., **Krishnaveni S.**, *Sensors and Actuators A: Physical*, (2024) 1.
41. Flower Extract-Polyvinyl Alcohol-Based Biocomposites for Sustainable Food Packaging Applications: Rumana Farheen S.M., Mizba Tazleem S.M., Sangamesh M.A., **Krishnaveni S**., *Physica Status Solidi (A) Applications and Materials Science*, (2024) 1.
42. Molecular dynamics simulation studies and dynamic network analysis of Bacillus subtilis YsxC in GDP and GTP-Mg2+ bound states: Shuchika D Biligere., Kavya K.M., Upendra N., **Krishnaveni S**., *Brazilian Journal of Development*, **10** (2024) 1.
43. Green-synthesized copper bismuth oxide nanoparticles: Novel material for enhanced gamma radiation shielding above 1 MeV: Kruthika K., Rumana Farheen S.M., Manjunatha H.C., Vidya Y.S., Manjunatha S., Sridhar K.N., Munirathnum R., **Krishnaveni S.**, *Materials Today Sustainability*, (2024) 1.
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