

Name	: Dr. N. R. DEVI
Designation	: Assistant Professor
Qualification	: M.Sc., M.Phil., Ph.D
Mobile number	: 9790447244
E-mail id	: devinr@auxiliumcollege.edu.in
Teaching Experience	: 8 years
Area of specialization	: Hydrogen storage in carbon nanomaterials, Gas sensors, Crystal Growth, Synthesis of Nanofluids
Positions Held in Auxilium	: Department Association Secretary, Research Cell Member
Research Experience	: 10 years
M.Sc. Students Project Guided	: 7
Ph. D Research Supervisor Guideship	: Ph.D Guideship Received under Trivalluvar University, Serkadu, Vellore
No. of Journal Papers Published	: 15
No. of Patent Published	: 1
No. of Seminars / Workshops / FDP's/ Conferences / Webinars organized	: 7
E- Content Development	: https://www.youtube.com/watch?v=X5WTPLIE_S0&t=1121s
Membership in other bodies	: National Science Foundation – Eco club Tamilnadu Science Forum (TNSF)

ACADEMIC QUALIFICATION

Philosophy of Doctorate (Hydrogen Storage)	-	Anna University Chennai (2009-2016) Highly commented
Master of Philosophy (X-ray crystallography)	-	Madurai Kamaraj University, Madurai (2006 to 2007) 75.31%

Master of Science (Physics)	-	Fatima College, Mary land, Madurai (2004 to 2006) 82.88%
Bachelor of Science (Physics)	-	Fatima College, Mary land, Madurai (2001 to 2004) 83.86%

PhD Thesis Title "Studies on Unique Properties of Novel Carbon and Other Nanostructures"

Hydrogen storage in Coiled Carbon Nanotubes (CCNTs) and other nanostructures are investigated. It has remarkable applications in nano-composites, nano-electronics and nano-electromechanical devices. Hydrogen storage in CCNTs is improved due to its high surface area and large number of defects. The molecular dynamics study on the adsorption binding energy of constructed CCNT is performed using Density Function Theory (DFT) calculation using Dmol3 commercial Software. The total energy of the system is estimated by solving Kohn-Shams equation. The electron exchange and correlation effect are introduced through Generalized Gradient Approximation (GGA). Perdew, Burke and Ernzerhof (PBE) potential is applied in this analysis, as it is more suitable for adsorption energy calculations. The Double Numerical Polarization (DNP) basis set and fixed Global Orbital Cutoff as 3 Å for the hydrogen molecular adsorption on CCNT. This study is performed for both the cases such as before and after adsorption of hydrogen. This study is further extended with other nanostructures such as SiC, ZnO and Graphene for investigating the hydrogen and CO₂ adsorption.

TEACHING EXPERIENCE

- Worked as a lecturer for 10 months in the Department of Physics, Madura College, Madurai from June 2007 – April 2008.
- Worked as a Research Associate in **Ministry of New and Renewable Energy (MNRE) Project** - Thiagarajar College of Engineering, Madurai (June 2008 - December 2010).
- Worked as a Assistant Professor in Department of Physics, Kingston Engineering College, Vellore from June 2017 – October 2017.
- Currently Working as a Assistant Professor, Department of Physics, Auxilium College, Vellore from 18.6.2018 to till date.

Co-curricular Activity

1. *Member of Board of Studies meeting.*
2. *Served as a Jury member* - Sacred heart Budding Innovation Award – SHBIA 2022 organized by centre for Innovation and Business incubation – CIBI, Sacred Heart college (Autonomous) – Tirupattur
3. *Served as a Judge member* -“Cook with Millets” competition organized by Department of Botony, Enviro Club, Auxilium College, Vellore.
4. *Served as a Evaluator in zonal level 31STNational children science congress-* 2023 on 5.11.2023 coordinated by Tamilnadu Science Forum (TNSF), Tamilnadu.

Conferences / Webinars Organized

Coordinator

- *Young Student Scientist Programme (YSSP)* – December 2023” catalyzed and supported by Tamil Nadu State Council for Science and Technology (TNSCST), Chennai and Organized by Auxilium College (Autonomous), Vellore from 24.12.2023 to 7.01.2024.

Organizing Secretary

- Advanced Materials and Applications (NCAMA-18), Department of Physics Shift I & II, Auxilium College, 07.09.2018.
- National webinar on Novel materials characterization and applications, 9th – 10th June, 2020.
- National Webinar on Modeling of Novel materials through Atomistic Molecular dynamics Simulations, 11th March 2021.
- International Webinar on Emerging Smart Materials in Science and Technology in Modern Era, 2021. 13th – 14th September, 2021
- 2nd National Conference on “Advanced Materials and Applications, Department of Physics in Association with Indian Spectrophysics Association during 13th-14th October, 2022.
- Five-day National level online FDP on Advancing Scientific Knowledge organized by PG & Research Department of Physics, Sacred Heart College in collaboration with PG & Research Department of Physics, Auxilium College, Vellore from 24.03.2025 to 28.03.2025.

Patent

“Intelligence Superconductor to minimize the energy band gap”. – Patent Number – 202141035314 – 20.08.2021.

International Journals Publications

1. N.R. Devi, A.Satheesh, B.Lavanya, S.Jeffi Jas, M.Deepa and S.A. Martin Britto Dhas “Synthesis and characterization of silver nanofluids exerted to the shock wave for the enhancement of heat transfer application”- Accepted for Publication in the 5th IEEE Proceedings of International Conference on Innovations in Power and Advanced Computing Technologies, i-PACT2025 jointly organized by Faculty of Advanced Technology and Multidiscipline, University Airlangga, Surabaya, Indonesia, Faculty of Engineering, Universiti Malaya, Kuala Lumpur, Malaysia & School of Electrical Engineering, Vellore Institute of Technology, Vellore, India.
2. P. Rajesh Kanna, A. Satheesh, A. Senthil Kumar, H. F.Öztop, **N.R. Devi**, Double-diffusive natural convection in L-shaped cavity by Lattice Boltzmann method: Numerical study, *Heat Transfer Engineering*, 46(15), 1418 – 1432, 2025.
3. S. Bagyalakshmi, K.S Balamurugan, M. Mathankumar, A. Sivakami, **N.R. Devi**, Exploring metal-organic framework/MXene based composite for an environment applications – A Critical review, *Journal of Molecular Structure*, 1334, 2025, 141838.
4. M Gnanasekaran, S.Moolya, **N.R. Devi**, A. Satheesh, Computational analysis of the impact of MHD and Fe_3O_4 nanoparticles on double-diffusive mixed convection with obstacles in an inclined enclosure, *Thermal Science and Engineering Progress*, 62, 2025, 103669.
5. P. Padmanathan, S.Aswin, A. Satheesh, P. Rajesh Kanna, K. Palani, **N.R. Devi**, T.Sobota, D.Taler, Jan Taler, B. Weglowski, Parametric Optimization Study of Novel Winglets for Transonic Aircraft Wings, *Applied Sciences* 14, 7483, 2024.
6. **N. R. Devi**, M. Gnanasekaran, A. Satheesh, P. R. Kanna, J. Taler, D. S. Kumar, D. Taler, T. Sobota, Double-diffusive mixed convection in an inclined square cavity filled with nanofluids, A numerical study with external magnetic field and heated square blockage effects, *Case Studies in Thermal Engineering*, 56, 2024, 104210.
7. S. Moolya, A. Satheesh, **N.R. Devi**, R. Moolya, Magnetohydrodynamics and Aspect Ratio Effects on Double Diffusive Mixed convection and Their Prediction: Linear Regression Model, *Journal of Heat and Mass Transfer Research*, 9, 2023, 169 – 188.

8. R. Praveen Bharathwaj, M. B. VarunPradeep, P. Padmanathan, A. Satheesh, **N. R. Devi**, An Experimental study on Resuspension, Thermostability and Migration Phenomenon of Nanoparticles in Pool boiling. J. Therm. Eng, 2148-7847, 2022, 8 (6), pp. 757–765.
9. **N. R. Devi**, ShivanandaMoolya, Hakan F. Öztop, Nidal Abu-Hamdeh. P. Padmanathan, A. Satheesh. A review on ferrofluids with the effect of MHD and entropy generation due to convective heat transfer. ISSN 2190-5444, April – 2022, Eur. Phys. J. Plus Vol. 137, pp.482 (30 pages).
10. **N.R. Devi** and V. Gayathri, ‘Structural aspects on carbon dioxide capture in nanotubes, International journal of research in engineering and science’, ISSN 2572 – 4304, January – 2016, Vol.4, Issue 1, pp.17-25.
11. **N.R. Devi** and V. Gayathri, ‘Defect enhanced gas adsorption in hexagonal nanostructures for potential applications’, International journal of advanced research in science and engineering, ISSN 2319 – 8354, October – 2015, Vol. 4, Issue 10, pp 99-106.
12. **N.R.Devi** and V.Gayathri, ‘Effect of pressure on defected and defect free carbon nanotubes for nano-electromechanical sensor applications’, International Journal of Chemtech Research, ISSN0974-4290, 2015, Vol. 8, Issue 4, pp.1879-1887.
13. **N.R. Devi** and V. Gayathri, ‘Effect of structural defects on the hydrogen adsorption in promising nanostructures’, Computational Materials Science, ISSN 0927-0256, January 2015, Vol. 96, pp. 284-289.
14. V. Gayathri, **N.R. Devi** and R. Geetha, ‘Hydrogen storage in coiled carbon nanotube’, International Journal of Hydrogen Energy, ISSN 0360-3199, February 2010, Vol. 35, Issue 5, pp. 1313-1320.
15. S. Natarajan, **N.R. Devi**, S. D. M. BrittoDhas and S. Athimoolam. ‘Growth, thermal and optical studies of a new organic NLO material: L-methionine L-methioninium hydrogen maleate’, Journal of Optoelectronics and Advance Materials – Rapid Communications, ISSN 1454 -4164, April 2010, Vol. 4, Issue 4, pp. 516-519.
16. S. Natarajan, **N.R. Devi**, S. D. M. BrittoDhas and S. Athimoolam. Crystal growth and structural of L-methionine L-methioninium hydrogen maleate – a new NLO material, Science and Technology of Advance Materials, ISSN 1468 – 6996, July 2008, Vol. 10, Issue 9, pp. 025012-16.

Publications in Proceedings

1. Effect of Shock Waves on Polycrystalline Sample of L-Methionine Maleate - National level Conference on Advances in Material Science Research (NCAMSR) -23 - Department of Physics, Thriuvalluvar University, Serkadu, Vellore – October 19-20, 2023 Royal Book Publishing (International) -ISBN: 978-81-19821-60-0

2. Investigations on the Effect of Shock Waves on Morphology of Silver Nanofluids - National level Conference on Advances in Material Science Research (NCAMSR)-23 - Department of Physics, Thriuvalluvar University, Serkadu, Vellore – October 19-20, 2023 Royal Book Publishing (International) -ISBN: 978-81-19821-60-0
3. Effect of shock waves in Silicon Nano fluids - 2nd national conference on Advanced Materials and Applications (NCAMA) - Department of Physics, Auxilium College, Vellore. – October 13-14, 2022 – Proceedings
4. Synthesis and Characterization of CuO nanoparticles under shock wave -2nd national conference on Advanced Materials and Applications (NCAMA) - Department of Physics, Auxilium College, Vellore. – October 13-14, 2022 – Proceedings
5. Structural, Molecular and Morphological studies of ZnO nanoparticles - Proceedings of National conference on Recent Advances in Biomolecules and Spectroscopy (NCRIBS - 2022), Department of Physics, Kandaswami Kandar's College, Velur, ISBN: 978-93-95423-10-6, Namakkal, 4th November 2022.
6. Enhancement of Heat Transfer Through Entropy Generation Minimization In A Cooling Sector With the Presence of Magnetic Field - Advanced Materials and Applications (NCAMA) - Department of Physics, Auxilium College, Vellore. – September 7, 2018 – Proceedings

List of FDP's Attended

1. Attended - Five Days International online Faculty Development Program on Sustainable Materials and Advanced Research Technologies (SMART – 2025) – organized by PG and Research Department of Physics, Sacred Heart College in collaboration with Department of Physics & Research Centre, Scott Christian College (Autonomous), Nagercoil, Tamil Nadu, India from 18-23rd September 2025.
2. Attended – Six day online International Faculty Development program on “ Next generation research on energy materials” organized by Department of Physics and chemistry, Vel Tech Multi-tech Dr.Rangarajan Dr. Sakunthala Engineering college, Avadi, Chennai during 4.8.2025 to 9.8.2025
3. Attended - Five Days Entrepreneurship Development Program on “Unlock Your Potentials,” organized by the Department of Mathematics, School of Advanced Sciences, VIT, Vellore held from 2.06.2025 to – 06.06.2025.
4. Attended - Five-day National level online FDP on Advancing Scientific Knowledge organized by PG & Research Department of Physics, Sacred Heart College in collaboration with PG & Research Department of Physics, Auxilium College, Vellore from 24.03.2025 to 28.03.2025.

5. Attended - Five days FDP programme on Advancements in material science organized by the Department of Physics, KPR Institute of Engineering and technology Coimbatore from 20.01.2025 to 24.01.2025.
6. A Five-Day National Level Online FDP on Beyond Boundaries: Driving Innovation in Research” Organized by Committee for Research Ethics, Publication & IPR, Auxilium College (Autonomous), Gandhi Nagar, Vellore in Collaboration with North East Institute of Social Sciences & Research, Dimapur, Nagaland from 26.12.2024 to 30.12.2024
7. Attended – A Five day online Faculty Development Program on Emerging trends on chemical sciences organized by PG & Research Department of Chemistry, Sacred Heart College from 2.12.2024 to 6.12.2024.
8. Attended - 7 days FDP/Training Program on Practical Aspects of ICT Tools & online teaching in current scenario organized by RFI-CARE from 2.9.2024-11.9.2024
a. .
9. Attended – Six days online Faculty Development Program on Emerging Trends in advanced materials and applications at Prathyusha Engineering College, Chennai from 27.08.2024 - 02.09.2024
10. Attended - 3 Day Faculty Development Program on Idea Generation Methods conducted by ICT Academy on 05 Aug 2024 to 07 Aug 2024 at Auxilium College (Autonomous)
11. Attended – One week International Faculty Development Programme crafting excellence: Research and Innovation in the age of AI – organized by Don Bosco College, TC PALYA, Bangaluru from 21st – 27th January 2024.
12. Attended – Five Day Faculty Development programme on Advanced Materials For Energy Applications –organized by the Department of Physics Sathyabama Institute of Science and Technology, Chennai, Tamilnadu from 9-13th October, 2023.
13. Attended - “ Workshop on AI Tools for Educators” organized by the Department of Computer Science and Applications, Auxilium College (Autonomous) , Gandhi Nagar, Vellore on 29th September 2023.
14. Attended – FDP/Training programme on Research Paper Writing organized by Research Foundation of India & RFI-CARE from 21-26 August 2023.
15. Attended - - 7 day National level online Faculty Development Programme on Outcome Based Education & Essential AI tools for Teachers organized by the Internal Quality Assurance Cell (IQAC) of Carmel College (Autonomous), Mala in Association with The Kerala State Higher Education Council (KSHEC) from 10-18 August 2023.

16. Attended – Online workshop on Artificial Intelligence as a Magical Tool for Teachers and Researchers: Challenges and Oppourtunities – Organized by Sacred Heart College (Autonomous), Thevara, Kochi – 13 On 27th July 2023.
17. Attended – One week National level online faculty program on Functional materials – Organized by the Department of Science and Humanities, T.J.S. Engineering college, Chennai during 22nd – 26th May 2023.
18. Attended– National one week Faculty Development Programme on Carbon capture & Storage organized by the Department of Chemistry, central university of Tamil nadu, Thiruarur, India form 21st-25th February 2022.
19. Attended– National level intercollegiate online faculty development programme on outcome based education organized by the Internal quality assurance cell of Auxilium college (Autonomous),Vellore in association with ipsr solutions limited during 22th - 27th November 2021.
20. Attended– National Level FDP on “Recent Trends in Physics and Electronics organized by Department of Physics and Electronics, Little flower Degree college &Auxilium College during 27th January to 1st February 2021.
21. AICTE sponsored online short term training programme on “Nanomaterials for Clean Energy and Environmental Applications” organized by Physics Division of Department of Science and Humanities, Dr. Mahalingam College of Engineering and Technology, Pollachi, 2nd - 7th November 2020.
22. Attended– FDP on Advanced materials for energy storage applications organized by Department of Physics Velammal Institute of Technology, Chennai from 18th – 22th July 2020.
23. Attended– Evolving Best Teaching and Learning Practices in the Pandemic Era 2020 – Auxilium College management – 15th- 21st June 2020.
24. Attended– International online Faculty Development Programme on Recent Advances in Nanomaterials organized by Department of Science, St. Joseph’s College of Engineering, Chennai during 4th – 6th June 2020.
25. Attended–Five day online faculty development programme on Advanced Materials and their Applications - PG & Research Dept. of Chemistry, Auxilium College, Vellore 2nd – 6th June, 2020.
26. Attended–Smart Materials Sensor And Energy Devices (SMSED – 2020) organized by the Department of Electronics & Communication Engineering, SSN College of Engineering, Kalavakkam, Chennai, during 25th - 30th May 2020.

27. Attended–FDP on Cell Designer – conducted by the Department of Biochemistry in association with Spoken tutorial, IIT Bombay – during 25th – 31st May 2020.
28. Attended– A two days online Faculty development programme on Project proposals for funding agencies (UGC STRIDE & ICSSR IMPRESS): Preparation and submission protocol” organized by Patrician college research committee on 16th – 17th May 2020.

List of National/International Conferences

1. Attended/Presented - N.R. Devi, A.Satheesh, B.Lavanya, S.Jeffi Jas, M.Deepa and S.A. Martin Britto Dhas “Synthesis and characterization of silver nanofluids exerted to the shock wave for the enhancement of heat transfer application”- Oral presentation in the 5th IEEE Proceedings of International Conference on Innovations in Power and Advanced Computing Technologies, i-PACT2025 jointly organized by Faculty of Advanced Technology and Multidiscipline, University Airlangga, Surabaya, Indonesia, Faculty of Engineering, Universiti Malaya, Kuala Lumpur, Malaysia & School of Electrical Engineering, Vellore Institute of Technology, Vellore, India.
2. Attended - International Conference on Innovative Horizons In Material Research: Growth, Characterization and Applications (ICIHMR-2024) organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on December 20th & 21st, 2024.
3. Attended – International Virtual Conference on “Emerging Technologies in Materials Science” (ICETM -2024) – PG & Research Centre of Physics & Consultancy Cell – JayarajAnnackaimcollege for women, Periyakulam, 22nd February 2024.
4. Attended - National level Conference on Advances in Material Science Research (NCAMSR) -23 - Department of Physics, Thriuvalluvar University, Serkadu, Vellore – October 19-20, 2023.
5. Attended - National Seminar on “Innovations in Chemistry for Environmental Sustainability (ICES’23)” on 3rd February, 2023.
6. Attended - International Conference on Thermofluids, Organized by Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha during 23rd – 25th Jan 2020.
7. Attended - one day International Virtual Conference on “Photovoltaics and Materials Science” Orgainzed by Centre for Crystal Growth, VIT Vellore held on 23rd June 2020.
8. Attended - National seminar on Advances in Materials Chemistry (AMC ‘ 19) organized by the PG & Research Department of Chemistry, Auxilium College, Vellore, 6th December 2019.

9. Attended - International Workshop on Materials Technology and Applications, Centre for Crystal Growth, Vellore Institute of Technology, Vellore, 11-12 October 2018.
10. Attended - National conference on Smart materials (NCSM-2017), PG and Research Department of Physics, Sacred Heart College (Autonomous), Tirupattur, Vellore, 11th to 12th September 2017.
11. Attended -. Investigation of Li adsorption in novel carbon nanostructures for electro chemical storage applications. Presented in International Conference on Electrochemical Power Systems (ICEPS-2008), Thiruvananthapuram, 26th to 28th Nov 2008.
12. Attended - Band gap modulation on novel carbon nanostructures for smart sensor applications, International Conference on Active and Smart Materials (ICASM-2009), TCE Madurai, 7th to 9th Jan 2009.
13. Attended - Li adsorption in novel nanostructures for energy storage applications, participated in International Conference on Carbon Nanotechnology Potentials and Challenges (INCCOM), IIT Kanpur, 15th to 17th Dec 2010.
14. Attended - Nanostructures for Nanomechanical Sensor Applications , presented in National conference on Systematic Investigations of Structural, Morphological and optical Properties of Materials (NCSI'16), PG and Research Department of Physics, Sacred Heart College (Autonomous), Tirupattur, 1st December 2016.
15. Attended – seminar on “A Career in Physics-Challenges and Prospects” held at school of Physics, Madurai Kamaraj University, Madurai on 11th September, 2003.

List of Webinar Attended

1. Attended - National Webinar on “GREEN CAMPUS INITIATIVES TOWARDS SUSTAINABLE DEVELOPMENT” organized by Internal Quality Assurance Cell(IQAC), Auxilium College (Autonomous), Gandhi Nagar, Vellore on 29.07.2023.
2. Attended – National Webinar on “ Application of Physics in Medicine” jointly organized by PG & Research Department of Physics, Auxilium College, (Autonomous), Vellore, and Department of Physics, Little Flower Degree College, Hyderabad, on 22 August 2023.
3. Attended – National Webinar on “Publish and Progress” organized by IQAC Committee for Research Ethics and Publications and IPR & Library, Auxilium College (Autonomous), Vellore on 26.8.2023.
4. Attended– National webinar on Micro and Nanotechnology and its applications organized by Department of Physics, G.T.N. arts college, Dindigul on 14th May 2020.
5. Attended– International level Covid-19 Pandemic webinar on Functional novel materials for electrochemical sensors and energy storage devices organized by Thiagarajar College, Madurai on 15th May 2020.

6. Attended–A two days online Faculty development programme on Project proposals for funding agencies (UGC STRIDE & ICSSR IMPRESS): Preparation and submission protocol” organized by Partician college research committee on 16th – 17th May 2020.
7. Attended– National webinar on ICT for effective physics teaching, Learning & Evaluation – organized by the Department of Physics, Stella Maris College, Chennai held on 18th May 2020.
8. Attended– Participated in the webinar on “Supercapacitos, New age Energy storage Devices” Organized by the Department of Physics, AyyaNadarJanakiAmmal College, Sivakasi held on 19th May 2020.
9. Attended– Webinar series on advanced materials: webinar series – I organized by the Department of Physics, School of Basic Sciences, Vels Institute of Science, Technology, and advanced studies (VISTAS), Pallavaram, Chennai held on 21st – 23rd May 2020.
10. Attended– International webinar on Covid Pandemic, Media and Social Distancing organized by Department of History and Sociology held on 27th May 2020.
11. Attended– National webinar on Nonlinear optical behavior of Nanomaterials organized by the Department of Physics, Lady Doak College, Madurai held on 28th May 2020.
12. Attended– National webinar on Operator Formalism of Quantum Mechanics organized by Department of Physics, Annai college of Arts and Science combined with IQAC on 28th May 2020
13. Attended– Webinar on Electron Microscopy: Essential tool for Nanomaterials Characterization organized by the Department of Electronics and Physics on 29th May 2020.
14. Attended– One day online workshop on Materials science and applications organized by Department of Physics, Arulmigupalaniandavar Arts college for women, on 29th May 2020.
15. Attended– National webinar on Materials to Device Application” organized by the Department of Physics, SreeAyyappa college for women, chunkankadai on 30th May 2020.
16. Attended– National webinar on Dating Sand using Luminescence organized by Department of Physics, Voorhees College, Vellore held on 02nd June 2020.
17. Attended– National webinar on Lecture Series on Spectroscopy and its Perspectives organized by Department of Physics, Sacred Heart College (Autonomous), Tirupattur, 5th June 2020.
18. Attended– Interational webinar on Recent trends on Material Science organized by PG & Research Department of Physics, MuthurangamGovt.Artscollege, Vellore held on 6th June 2020.
19. Attended– International webinar on Recent Trends in Physics organized by Department of Physics with Computer Applications and Internal Quality Assurance Cell, Chennai, 12th June 2020.

20. Attended– National webinar Series on Research Methodology organized by Loyola college, Chennai, held on 12-13th June 2020,
21. Attended– International level webinar on Tuning of Nano/micro structure for efficient photovoltaic and gas sensing application organized by PG & Research Department of Physics, ArulmiguPalaniandavar College of arts and culture, palani held on 13th June 2020.
22. Attended– National webinar on Century of Quantum Mechanics and Still Going Strong organized by Applied Physics Department, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, 15th – 17th June 2020.
23. Attended– National webinar on Advances in Crystal Growth and Nanomaterials organized by Department of Physics, Kamaraj college, Tirunelveli on 18th June 2020.
24. Attended– International webinar on Recent trends in advanced materials science – RTAMS – 2020 organized by Post graduate & research Department of Physics, American College, madurai held on 19th June, 2020.
25. Attended– National webinar on Astronomy and Astrophysics entitled A star's Dance at the centre of our milky way galaxy organized by the Department of Applied Physics, Karunya Institute of Technology and sciences, Coimbatore on 19th June 2020.
26. Attended– National webinar on Nanomaterials for Environmental Applications organized by Department of Physics, Kings Engineering College, Held on 20th June 2020.
27. Attended– National webinar on Grid connected Photovoltaic system : An overview organized by Panimalar Institute of Technology, Chennai on 20th June 2020.
28. Attended– National webinar on Radiation Physics organized by Department of Science, St. Joseph's College of Engineering, Chennai held on 23rd June 2020.
29. Attended– International Webinar on Materials for Energy and Environmental Applications organized by Department of Physics, Sacred Heart College (Autonomous), Tirupattur, 24th June 2020.
30. Attended– Two Days International webinar on Advanced functional materials for Biomedical and energy organized by Department of chemistry, Loyola college, Chennai held on 24 – 25th June 2020.
31. Attended– National webinar on Importance of Nano structured thin film cathode materials for Lithium ion Battery Applications organized by Department of Physics, ArumugampillaiSeethaiAmmal College, Tirupattur, Sivagangai, Tamilnadu held on 26th June 2020.
32. Attended– National webinar on Emerging applications of nanostructured materials in storage Devices organized by PG Department of Physics, ArulmiguPalaniandavar college of arts and culture, Palani held on 27th June 2020.

33. Attended– National webinar on National Education Policy 2020 with a focus on Technology organized by the internal quality Assurance cell, AuxiliumCollege, Vellore, held on 12th October 2020.

List of Papers Presented in Conferences

1. Attended – Structural, Molecular and Morphological studies of ZnO nanoparticles – Proceedings of National conference on Recent Advances in Biomolecules and Spectroscopy (NCRIBS -2022) held at KandaswamiKandar's College, Velur, Namakkal, 4th November 2022.
2. Attended - Effect of shock waves in Silicon Nano fluids, 2ndNational Conference on “Advanced Materials and Applications, Organized by Department of Physics in Association with Indian Spectrophysics Association during 13th-14th October, 2022.
3. Attended - Synthesis and Characterization of CuO nanoparticles under shock wave, 2ndNational Conference on “Advanced Materials and Applications, Organized by Department of Physics in Association with Indian Spectrophysics Association during 13th-14th October, 2022.
4. Attended - Density functional Theory study on Silicon Carbide Nanotubes for Hydrogen Storage Applications, presented in National Seminar on Crystal Growth and Applications, Department of Physics, Sacred Heart College (Autonomous), Tirupattur, 29th to 31stJanuary 2018.
5. Attended - Li Functionalized single walled carbon nanotubes for hydrogen storage under electric filed, presented in Int. Symposium on Energy Materials: Opportunities and Challenges (ISEM-2011) held at CGCRI, Kolkata during 1-2 March 2011
6. Attended - Site dependent hydrogen adsorption in coiled carbon nanotubes (CCNTs) for hydrogen storage applications, presented in International Conference on World Hydrogen Technology Convention (WHTC2009), New Delhi, 26th to 28th Aug, 2009. – MNRE Project Presentation.
7. Attended - Comparative study of hydrogen adsorption binding energy of CNT with other hexagonal nanostructures – AlN, GaN and BN. Presented in International Conference in Hydrogen and Hydrogen Storage Methods and Materials (H3-2009), IISc Bangalore, 3rd to 6th Jan 2009.
8. Attended - Presented a paper titled Transducers in the intercollegiate Students seminar on 20.02.2004 conducted by the Department of Physics, Thiagarajar College, Madurai on 20th February 2004.

Online Course/Training Program

1. **CERTIFICATE COURSE ON BIONANOTECHNOLOGY** - Center for Faculty Development (CFD) of Association of Indian Biologists (AIB), Chennai, Tamil Nadu - during the period of 15.05.2020 to 11.06.2020 with Distinction.
2. **LIBRE OFFICE SUITE WRITER, CALC & IMPRESS** organized by The Board of Management, Auxilium College (Autonomous), Vellore in association with Spoken Tutorial, IIT Bombay (funded by the NMEICT, MoE, Govt. of India) from 26.05.2022 to 10.06.2022.
3. **The NEP 2020 orientation & Sensitization program** under Malaviya Mission Teacher Training Program (MM-TTP) of University Grants Commission (UGC), organized by UGC-Malaviya Mission Teacher Training Centre(UGC-MMTTC), Bharathidasan University, Tiruchirappalli, Tamil Nadu from 3.06.2024 to 13.06.2024.
4. Workshop/Training program on “**Capacity building program on cyber security and its investigations**” from 18-25 August 2025 organized by RFI care, Chennai