

Faculty Profile



Dr. R. Ganapathi Raman, M.Sc, Ph.D
Associate Professor of Physics

HIGHLIGHTS:

- Number of Journal Publications: 88
- H-Index:13
- Patents Published: 2

PROFESSIONAL LINKS:

- Orcid Link: <https://orcid.org/0000-0001-6873-9360>
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=36113072400>
- Google Scholar Link:
<https://scholar.google.com/citations?user=uizpjAEAAAAJ&hl=en>
- WoS in: <https://www.webofscience.com/wos/author/record/C-8832-2014>
- Anna University Faculty ID: 278240
- AICTE Faculty ID: 1-149572029
- Anna University Supervisor ID: Nil
- LinkedIn: <https://www.linkedin.com/in/ganapathi-raman-8071428/>

AREA OF SPECIALIZATION:

- Nanomaterials
- Crystal Growth
- Density Functional Theory
- Quantum Computing

ACADEMIC EXPERIENCE:

- Teaching Experience as on 31.12.2024: 13 years 11 months

Designation	Affiliation	From	To
Assistant Professor	Noorul Islam Centre for Higher Education (Deemed University)	24.1.2011	12.4.2019
Associate Professor	Noorul Islam Centre for Higher Education (Deemed University)	13.4.2019	29.8.2022
Associate Professor	Saveetha Engineering College (Autonomous)	1.9.2022	Till date

RESEARCH GUIDED DETAILS

- PhD : 10 (Awarded)
- M.Phil : 8 (Completed)
- M.Sc : 17 (Completed)

Invited Talk Details/ Resource Person/Charing Sessions: 49

Technical Committee/Advisory Members in National/International Conferences: 18

Organizer of National Conference/International Conferences/Seminar: 10

JOURNAL PUBLICATIONS

Publications

1. Investigations on the structural, vibrational, optical and photocatalytic behavior of CuO, MnO and CuMnO nanomaterials LG Prasad, R Ravikumar, RG Raman, RR Kannad Journal of the Nigerian Society of Physical Sciences, 2137-213710.46481/jnsps.2024.2137
2. Exploring molecular structure (monomer & dimer), spectroscopic (FT-IR, FT-Raman, UV-Vis, NMR), TG/DTA, antibacterial and molecular docking investigation on 2-[2,3-dichloro-4-(2-methylidenobutanoyl)phenoxy] acetic acid by DFT and wavefunction analysis S. Asokan, S. Sebastian, B. Karthikeyan, S. Xavier, R. Ganapathi Raman, S. Silvan, S. Sangeetha Margreat, R. Sagayaraj Chemical Physics Impact Volume 8, June 2024, 100497
<https://doi.org/10.1016/j.chphi.2024.100497> ISSN: 2667-0224 IF:2.2 SNIP: 0.681:
<https://drive.google.com/file/d/1XdUx1pH6QNP8d7jwUWPEli6ErTNorWk/view?usp=sharing>
3. V2O5/rGO formation in microwave autoclave approach and electrochemical durability evaluation analysis by graphite-sheet V Rajesh, R Ganapathi Raman, K Veeramuthu Inorganic Chemistry Communications Volume 160 Pages 111834
<https://doi.org/10.1016/j.inoche.2023.111834> ISSN:1387-7003 SNIP: 0.645 IF: 3.43
<https://drive.google.com/file/d/1S4yl7TrYe3UI1ANpeS6jG5ALEkP-1uDK/view?usp=sharing>
4. A facile growth, optical behavior of organic nonlinear optical crystal: 4-bromo-2-methylbenzonitrile P Preeda, R Ganapathi Raman, P Sakthivel, Arun Thirumurugan, Suresh Sagadevan <https://doi.org/10.1557/s43580-023-00758-0> MRS Advances Pages 1-8
E-ISSN:2059-8521 SNIP: 0.254 IF 0.84
https://drive.google.com/file/d/1lhBqIhhygQjhZOgmeG0dYJFk2cpd-Tc_/view?usp=sharing
5. Functionalization of Fluorine on the Surface of SnO₂-Mg Nanocomposite as an Efficient Photocatalyst for Toxic Dye Degradation G. Velmurugan, R. Ganapathi Raman, P. Sivaprakash, A. Viji, Shin Hum Cho and Ikhyun Kim Nanomaterials 2023, 13, 2494.
<https://doi.org/10.3390/nano13172494> ISSN: 2342575 IF: 5.03 SNIP: 1.06
<https://drive.google.com/file/d/1Ur5S923ItliAcDeeE7NsNMW3WAeHFVZk/view?usp=sharing>

6. Moving towards process-based radiotherapy quality assurance using statistical process control Vysakh Raveendran, Ganapathi Raman R, Anjana P.T, Saju Bhasi, Ranjith C.P, Rajesh Ashok Kinkhikar Physica Medica 112 (2023) 102651
<https://doi.org/10.1016/j.ejmp.2023.102651> IF 3.36 SNIP: 1.07 ISBN: 11201797, 1724191X
<https://drive.google.com/file/d/15xPljGhF6MQLB9LIbKuMFrDYJfm5pTjI/view?usp=sharing>

7. Silver-functionalized Bismuth oxide nanoparticles (AgBi_2O_3) for superior electrochemical detection of Glucose, NO_2^- and H_2O_2 Ramesh, M.; Chinnusamy, Sankar; Seeman, Umamatheswari; R, Ganapathi Raman; R., Jayavel; Choi, Dongjin; Ramu, Adam Gopal RSC Adv., 2023, 13, 20598–20609 <https://doi.org/10.1039/d2ra08140g> SNIP: 0.87 IF: 4.036 Print ISSN: 2046-2069
<https://drive.google.com/file/d/1GT3zdqUJchkcLHFBOSuy4yqzzLmGl06U/view?usp=sharing>

8. Hyperconjugation and Hydrogen Bonding Interactions Effect with the Nonlinear Optical Features of 4-Chlorophenoxy Acetonitrile: An Experimental and DFT Methodology R. Ganapathi Raman P. Preeda <https://doi.org/10.1080/10406638.2023.2225677> Polycyclic Aromatic Compounds (Accepted) 2023 ISBN: 1563-5333, 1040-6638 SNIP: 0.85 IF: 2.195
<https://drive.google.com/file/d/1IMKGgmUmStcLgz3qnx7r2SQidB-9kAii/view?usp=sharing>

9. An influence of Ni and Sn perovskite $\text{NiSn}(\text{OH})_6$ nanoparticles for energy storage applications G Velmurugan, R Ganapathi Raman, D Prakash, H Kim, Jhelai Sahadevan, P Sivaprakash Nanomaterials (2023) Manuscript ID: nanomaterials-2342575
<https://doi.org/10.3390/nano13091523> ISSN: 2342575 IF: 5.75 SNIP: 1.06
<https://drive.google.com/file/d/1L5H1Uj4SbmM5ZKvBIAcLq41B7vbxX2d/view?usp=sharing>

10. Fixed field technique for hippocampal avoidance whole -brain radiotherapy: A feasibility study using Elekta system
 R. Vysakh, R. Ganapathi Raman, S.O. Muhammed, N. Puzhakkal
 Int. J. Radiat. Res., January 2023; 21(1): 105 -109 DOI: 10.52547/ijrr.21.1.14
 January 2023 P ISSN **2322-3243** E -ISSN 2322-3243
<http://ijrr.com/article-1-4580-en.html>
 SNIP: 0.47 IF: 0.66
<http://ijrr.com/article-1-4580-en.html>
<https://drive.google.com/file/d/1m2wbgd2N2qQHBiBvJ7BUJfenJiwAnLpB/view?usp=sharing>
 g

11. Structural, FTIR, FT-Raman, optical and nonlinear optical properties of organic nonlinear optical crystal–3, 5-diisopropyl-2-hydroxybenzoic acid P Preeda, R Ganapathi Raman, P Sakthivel Inorganic Chemistry Communication, Pages 110120 Publisher: Elsevier
<https://doi.org/10.1016/j.inoche.2022.110120>
<https://www.sciencedirect.com/science/article/abs/pii/S1387700322009285> ISSN: 1387-7003
 IF: 3.43 SNIP: 0.64
<https://drive.google.com/file/d/1FTIQFf8Vt7oPJ067qUF8E-iT5chaKqR4/view?usp=sharing>

12. Synthesis and characterisation of Er_2WO_6 and $\text{TiO}_2/\text{ErWO}_6$ composite by hydrothermal method with photocatalytic applications S. M. Sasikanth, R. Ganapathi Raman Nanotechnology for Environmental Engineering (2022)
<https://doi.org/10.1007/s41204-022-00281-x> ISSN: 23656379, 23656387 SNIP: 1.00
<https://drive.google.com/file/d/1hRAWncogtMBw95o60WSqXGnQ-3bBvPWA/view?usp=sharing>

13. Investigation on the physicochemical properties and antibacterial activity of pure and Zn doped CuO nanoparticles L Guru Prasad, T Janeba, R Ganapathi Raman Journal of Ovonic Research Vol 17(2) 2021 pp209-216 IF: 1.165 ISSN 1584 - 9953

https://drive.google.com/file/d/1i4W6E8Vp9WabRUiP3IN4FrbrTtm83_/nd/view?usp=sharing

14. Statistical process control in monitoring radiotherapy quality assurance program: An institutional experience Vysakh R R Ganapathi RamaP Niyas P Aflah M M Musthafa M P Arun Krishnan C P Ranjith P T Anjana Iranian Journal of Radiation Therapy
DOI: [0.22038/IJMP.2021.55869.1931](https://doi.org/10.22038/IJMP.2021.55869.1931) (ACCEPTED) IF:1.02
ISSN: 23223243, 23454229

https://drive.google.com/file/d/1gTIPZ6rydLL_XZFrwpQ4mSWA0YTRp0Y7/view?usp=sharing

15. Physico chemical properties of p Hydroazobenzene: A nonlinear optical crystal (Article Id: IJPAP-6506)

L Guru Prasad & R Ganapathi Raman

Indian Journal of Pure and Applied Physics (Accepted)

Vol. 59, February 2021, pp. 138-142

ISSN: 0975-1041 (Online)

ISSN: 0019-5596 (Print)

IF: 0.56

https://drive.google.com/file/d/1p8wJzBst_qZ3eqmVL4ZMbk_vojFZijsP/view?usp=sharing

16. A BRIEF REVIEW ON POLYMER NANOCOMPOSITES AND ITS APPLICATIONS

M. Muhammed Shameem, S.M. Sasikanth, Raja Annamalai, R. Ganapathi Raman Materials Today Proceedings Vol: Issue No: Page No: ISSN: 2214-7853

DOI:10.1016/j.matpr.2020.11.254 Arockiasamy Ajay Praveenkumar, A. Sandy Subala, K.V. Anand, R. Ganapathi Raman,

17. Synthesis, spectroscopic analysis and NLO properties of 4-(4-N-Hexyloxyphenyl)-2-Methyl-3-Butyn-2-ol (4HP2M3B) by quantum mechanical calculations, Materials Today: Proceedings, Volume 45, Part 2, 2021, Pages 2902-2907, ISSN 2214-7853,

<https://doi.org/10.1016/j.matpr.2020.11.900>.

18. M. Muhammed Shameem, S.M. Sasikanth, Raja Annamalai, R. Ganapathi Raman, A brief review on polymer nanocomposites and its applications, Materials Today: Proceedings, Volume 45, Part 2, 2021, Pages 2536-2539, ISSN 2214-7853,

<https://doi.org/10.1016/j.matpr.2020.11.254>.

https://drive.google.com/file/d/1-VtgaMD8qzS6gYmCmUal4Qj-mKlLcsvI/view?usp=drive_link

19. SYNTHESIS AND CHARACTERIZATION OF Eu₂WO₆ BY HYDROTHERMAL METHOD Sasikanth SM, R. Ganapathi Raman, A. Raja Turkish Journal of Computer and Mathematics Education Vol.12 No.6(2021), 188-192

https://drive.google.com/file/d/1svCdZKruJhC6PPfytwn_rZ2aXnp0fho/view?usp=sharing

20. Anand Sandy Subala, Kalaiselvi Velayutham Anand, Arockiasamy Ajay Praveenkumar, R. Ganapathi Raman, Synthesis and characterization of liquid crystal compounds based on azo group, Materials Today: Proceedings, Volume 45, Part 2, 2021, Pages 3042-3046, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.12.058>.

21. N.Y. Sugirtha Suni, L. Guru Prasad, C. Brintha Malar, Arockiasamy Ajay Praveenkumar, R. Ganapathi Raman, Theoretical studies on 3-bromo-2-methoxybenzonitrile using density functional theory, Materials Today: Proceedings, Volume 45, Part 2, 2021, Pages 2622-2628, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.11.502>.

22. Experimental determination of thermal neutron fluence around Elekta Versa HD linear accelerator for various photon energies R, Vysakh; Musthafa, Mohamed; C V, Midhun; Puzhakkal, Niyas; P T, Anjana; Krishnan M P, Arun ; C P, Ranjith; M P, Irfad ; R, Ganapathi Raman Biomedical Physics & Engineering Express
Publisher: IOP Publishing Ltd, Temple Circus, Temple way, Bristol, England
DOI: <https://doi.org/10.1088/2057-1976/abac90>
ISSN / eISSN: 2057-1976
IF: 1.1
Web of Science accession number:
https://drive.google.com/file/d/1trOg4JgAjd-PfSCQ1vWGHUN_Cjr9-BPR/view?usp=drive_link

23. Growth and characterization of Catena-((μ 4-dihydrogen oxalate)-bis(μ 3-hydrogen oxalato)-(μ 2-dihydrogen oxalate)-tetra-aqua-di-rubidium)
 $\{Rb(HC_2O_4)(H_2C_2O_4)(H_2O)_2\} \cdot nH_2O$ single crystal for nonlinear optical applications
S. Sudha, P. Jayaprakash, C. Rathika Thaya Kumari, M. Nageshwari, G. Vinitha, R. Ganapathi Raman, M. Lydia Carolin Chinese Journal of Physics 67 (2020) 37–51
IF: 2.56 <https://doi.org/10.1016/j.cjph.2019.08.017>
Web of Science accession number:
https://drive.google.com/file/d/1Z-oY_6_iNJzxsfs0d8pPz4rf1ZjGJKfr/view?usp=sharing

24. Visible active TiO₂-CdS-rGO ternary nanocomposite for enhanced photodecomposition of methylene blue
A Raja; Rajasekaran P; SELVAKUMAR K, Ganapathi Raman R; M.Swaminathan
Volume 29, Part 4, 2020, Pages 1125-1128
Materials Today: Proceedings, Scopus and SCI
<https://doi.org/10.1016/j.matpr.2020.05.272>
<https://drive.google.com/file/d/11Y5c7UUsUFaZ4KXq7VFN7w67f2ngL48v/view?usp=sharing>

25. A passive method for absolute dose evaluation of photoneutrons in radiotherapy
Rajesh, K.R., Ganapathi Raman, R., Musthafa, M.M., Midhun, C.V., Joseph, N.
International Journal of Radiation Research (2020)
DOI: 10.18869/ACADPUB.IJRR.18.1.173
Web of Science accession number: WOS:000504890900020 0
<https://drive.google.com/file/d/15XXqM5NMj6FjYKEBPCceRFAB3i6ciGBY/view?usp=sharing>

26. The estimation of radiation induced damages on nano-structured nuclear radiation detectors Cyriac Swapna Lilly, Bindhu B., Midhun C. V., Musthafa M. M., and Raman R. Ganapathi AIP Conference Proceedings 2100, 020088 (2019); <https://doi.org/10.1063/1.5098642>(Scopus indexed) IF: 0.40 Web of Science accession number: WOS:000473392000088 0

27. Photo-neutron detection using Cr-39 solid state nuclear track detector K. R. Rajesh, M. M. Musthafa, C. V. Midhun, Joseph Naiby, R. Ganapathi Raman AIP Conference Proceedings 2100, 020137 (2019); Conference date: 27–28 December 2018, Location: Indore, India, ISBN: 978-0-7354-1830-1 Editors: Netram Kaurav, K. K. Choudhary, R. C. Dixit and Ashutosh Mishra, Volume number: 2100 Published: Apr 24, 2019 (Scopus indexed) IF: 0.40 DOI: <https://doi.org/10.1063/1.5098691> Web of Science accession number: WOS:000473392000137 0

28. Eco-friendly preparation of zinc oxide nanoparticles using *Tabernaemontana divaricata* and its photocatalytic and antimicrobial activity A. Raja, S. Ashokkumar, R. Pavithra Marthandam, J. Jayachandiran, Chandra Prasad Kathiwada, K. Kaviyarasu, R. Ganapathi Raman, M. Swaminathan Journal of Photochemistry and Photobiology B: Biology (2018) 181 53-58 DOI: <https://doi.org/10.1016/j.jphotobiol.2018.02.011> Web of Science accession number: WOS:000430899100006 85 (IF 4.17) (Scopus and SCI indexed) ISSN: 18732682, 10111344

29. Experimental and theoretical spectroscopic investigations of 4-bromo-3-methylbenzonitrile Kumar, S., Ganapathi Raman, R. 2018 Oriental Journal of Chemistry 34(3), pp. 1478-1483 DOI: 10.13005/OJC/340338 IF: 0.68 Web of Science accession number: WOS:000456126400038 0

30. Vibrational Analysis and Non Linear Optical Activity of 3-fluoro-4-methylbenzonitrile Sugirtha Suni, N.Y., GURU PRASAD, L., Ganapathi Raman, R. 2018 Oriental Journal of Chemistry 34(3), pp. 1638-1645 DOI: 10.13005/OJC/340359 IF: 0.68 Web of Science accession number: WOS:000456126400059 0 https://drive.google.com/file/d/1HcDhMQsUbAFfMzaHxyT7uQMfz6NBNSG/view?usp=drive_link

31. Crystal growth, Spectroscopic, DFT Computational and Third harmonic generation studies of Nicotinic acid C. Rathika Thaya Kumari, M. Nageshwari, R. Ganapathi Raman, M. Lydia Caroline Journal of Molecular Structure 1163 (2018) 137-146 (Scopus Indexed) (IF. 2.19) <https://doi.org/10.1016/j.molstruc.2018.02.091> Web of Science accession number: WOS:000430763000017 7

32. Geometrical Structure, Vibrational Spectra, NLO, NBO, Electronic Transitions and Thermo Dynamical Analysis of 5-Fluoro-2-Methylbenzonitrile by DFT Computational Method Arockiasamy Ajaypraveenkumar, R. Ganapathi Raman, S. Sebastian Recent Trends in Materials Science and Applications. Springer Proceedings in Physics, vol 189. Springer, Cham, DOI: 10.1007/978-3-319-44890-9-54, Part of the Springer Proceedings in Physics book series (SPPHY, volume 189)

IF: 0.30

Web of Science accession number: WOS:000432199700054 1

33. Theoretical Spectroscopic and Second Harmonic Generations Studies of 5-Fluoro-2-Methyl Benzonitrile Arockiasamy Ajaypraveenkumar, R Ganapathi Raman Oriental Journal of Chemistry, 2017, Volume 33 (5), 2412-2420. ISSN 0970020X

IF: 0.68

DOI : <http://dx.doi.org/10.13005/ojc/330534> Web of Science accession number: WOS:000428327100034 0

34. Spectroscopic and Second Harmonic Generations Studies of 5-Bromo-2-Methoxybenzonitrile by DFT Arockiasamy Ajaypraveenkumar, R Ganapathi Raman Oriental Journal of Chemistry, Volume 33 (6), 2017. 3077- 3085 ISSN 0970-020X

IF: 0.68

DOI: <http://dx.doi.org/10.13005/ojc/330648>

Web of Science accession number: WOS:000428328900048 0

35. Enhancement of photocatalytic efficiency of ZnO nanopowders through Ag + graphene addition, K. Ravichandran, S. Gobalakrishnan, R. Ganapathi Raman, Nithya, Swaminathan, Sakthivel Materials Technology: Advanced Performance Materials Vol. 31 Issue. 14 Page. 865-871 (2016), Print ISSN: 1066-7857 Online ISSN: 1753-5557 (IF 1.23)

DOI: 10.1080/10667857.2015.1117711

Web of Science accession number: WOS:000393108600005 7

36. Study on the measurement of photo-neutron for 15 MV photon beam from Medical Linear accelerator under different irradiation geometries using passive detectors

T Siji Cyriac, R Ganapathi Raman, M M Musthafa, A K Bakshi, Rupali Pal, Sandipan Dawn, K Abdul Haneefa, T Palani Selvam and D Datta Journal of Cancer Research and Therapeutics 2016 (12)2 1060-1064 ISSN, 0973-1482 DOI: 10.4103/0973-1482.183187

IF: 1.41 Web of Science accession number: WOS:000382405800110 4

37. Physicochemical properties of Dimethylammonium p-nitrophenolate– p-nitrophenol: A nonlinear Optical Crystal A Rathika, L. Guru Prasad, R. Ganapathi Raman Physica B: Condensed Matter Physics Vol 485 (2016) Page. 29–34, ISSN: 0921-4526

(IF:1.88) doi:10.1016/j.physb.2016.01.001 Web of Science accession number:

WOS:000369368300005 7

38. Investigations on Growth and Characterization of 2-Hydroxyanilinium 3,5-dinitrobenzoate Single Crystal A Rathika and R. Ganapathi Raman

Materials Research Innovations Volume 19, Issue 3 (April 2015), pp. 182-186, (ISSN 1432-8917) IF: 1.14 DOI: <http://dx.doi.org/10.1179/1433075X14Y.0000000239>,

Web of Science accession number: WOS:000349117200005 3

39. Out-of-Field Photon Dosimetry Studies in 3-D Conformal and Intensity Modulated Radiation Therapy Treatment for Prostate Cancer Siji Cyriac, M.M. Musthafa, R. Ganapathi Raman, Abdul Haneefa K, Saju Bhasi International Journal of Radiation Research, (2015) 13(2) 127-134. (ISSN: 2345-4229)

DOI: [10.7508/ijrr.2015.02.002](http://dx.doi.org/10.7508/ijrr.2015.02.002)

Web of Science accession number: WOS:000362340500002 5

40. Growth and Characterization of an efficient nonlinear optical Single Crystal: Urea P-Nitrophenol A Rathika and R. Ganapathi Raman *Optik - International Journal for Light and Electron Optics*, Volume 125, Issue 12, June 2014, Pages 2978-2982 (ISSN 0030-4026)
 IF: 2.11 <https://doi.org/10.1016/j.ijleo.2013.12.032> Web of Science accession number: WOS:000336951800054 7

41. *Spectroscopic Studies On Metal And Q-Dot Modified Graphene Oxide*
 Gobalakrishnan S, Ganapathi Raman R, B. Ashina International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT 2014) , organized by Department of Electrical and Electronics Engineering, Noorul Islam University, Kumaracoil during 10th & 11th July, 2014. DOI: 10.1109/ICCICCT.2014.6993138
 Web of Science accession number: WOS:000366525200220 0

42. Physicochemical properties of organic non-linear optical (NLO) DL-alanine maleate (DLAM) single crystals
 A. Rathika, L. Guru Prasad, R. Ganapathi Raman
Materials Research Innovations 18(3) June 2014 176-182. (ISSN 1432-8917)
 DOI: 10.1179/1433075X13Y.00000000181
 IF: 1.14
 Web of Science accession number: WOS:000337102900007 0

Conference Proceedings

1. Dielectric relaxation studies of primary alcohols with acrylic esters in carbon tetrachloride using frequency domain technique
 M. Sreenivasan, P. Sivagurunathan, **R. Ganapathi Raman**
Proceedings of National Conference on Exploring the Frontier of Vibrational Spectroscopy (EXFOVIS-2011) ISBN: 13: 978-81-908538-8-0 2011 pp. 53-59
2. Growth, Structural, Vibrational, Optical and Dielectric Studies of Glycine Picrate (GP) Single Crystal
 A. Rathika and **R. Ganapathi Raman**
Proceeding of the International Conference on Research in Condensed Matter Physics 2012 1 193-197. (ISBN: 9789382062639)
3. Growth and Characterization of Metal Organic Crystal: Bis Thiourea Cobalt Chloride Hexahydrate
 A. Rathika and **R. Ganapathi Raman**
Proceeding of the Kanyakumari Academy of Arts and Science 2012 Vol. III 82-84, (ISBN: 9789381658024).
4. Growth and Studies of Pure and urea doped Bisthiourea Cobalt chloride-A metal organic single crystals
 A. Rathika, C. Cynitha Wise Bell, R. Melba and **R. Ganapathi Raman**
Third National Conference on Advanced Materials-Processing, Characterization and Applications (NCAM 2013) held at PSN College of Engineering and Technology, Tirunelveli on 23-25th January 2013. (ISBN -978-93-82062-86-8) Published by Excel India Publisher
5. *Study of Glycine Copperoxide(GCO)-A new metal organic single crystal*
 A. Rathika and **R. Ganapathi Raman**
Proceeding National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS-2013) organized by Department of Physics, at Kalasalingam University,

Other Peer Reviewed Journal

1. Physico-chemical analysis of ground water around Salem district, P.Venkatachalam, S.Meyvel, **R.Ganapathi Raman**, P.Sathya, *Acta Ciencia Indica* 2008 vol. XXXIV (2), p.271-280.(ISSN:0253-7338)
2. FTIR Spectroscopic analysis of Human Gallstones, **R.Ganapathi Raman** and R.Selvaraju, *Romanian J. Biophys.*, 2008 vol. 18, no. 4, p. 309–316. (ISSN: 1843-424X)
3. Trace Element Analysis in Hepatitis B affected Human blood serum by Inductively Coupled Plasma Atomic Emission spectroscopy, R. Selvaraju, **R. Ganapathi Raman**, R. Narayanaswamy, R. Valliappan, R.Baskarn, *Romanian J. Biophys.*, 2009 vol. 19, no. 1, p. 35–42. (ISSN: 1843-424X)
4. Change in serum trace elements concentration before and after removal of gallbladder with gallstone
R.Selvaraju, **R.Ganapathi Raman** and R.Narayanaswamy, *The Internet Journal of Gastroenterology* 2009, vol 8(1). (ISSN: 1528-8323)
5. Pollution study on periyar river water and sediment samples at eloor panchayat, K. Sainul Abidin, R.Ganapathi Raman, R. Selvaraju and R. Valliappan, *Indian Journal of Environment & Ecoplanning* 2009, vol 16(1), p. 193-198. (ISSN: 0972-1215)
6. Thermal analysis of human gallstone
R. Ganapathi Raman and R. Selvaraju
International Journal of Chem. Tech Research 2009, vol. 1(4), p. 1291-1296. (ISSN: 2455-9555)
7. Epidemiology study of human gallstone in Cuddalore district
R. Selvaraju, **R. Ganapathi Raman**, G.Thiruppathi, R.Valliappan
International Journal Pharm Tech Research 2010, vol 2(2), p.1061-1067. (ISSN: 2455-9563)
8. An assessment of the role of socio-economic and educational status of women on their marital life and child care in Salem District, Tamilnadu, South India,
R.Saravanan, **R.Ganapathi Raman**, S.Thamilarasan
Journal of Scientific Transactions in Environment and Technovision 2010 vol. 3(3), p. 76-79. (ISSN: 23939249)
9. Estimation of essential and trace elements in the medicinal plant *Tribulus Terrestris* by ICP-OES and Flame photometry techniques
R.Selvaraju, G.Thiruppathi, **R.Ganapathi Raman**, D.Dhatchanamoorthi
Romanian Journal of Plant Biology 2011 vol. 56(1) p.65-75. (ISSN: 1843-3782)
10. Status of Lactating Women in Salem District, Tamilnadu: A Study,
R.Saravanan, **R.Ganapathi Raman**, G.Thiruppathi, R.Vinoth
International Journal Pharm Tech Research 2011 3(1) 393-396. (ISSN: 2455-9563)

11. Physicochemical properties of organic non-linear optical (NLO) DL-alanine maleate (DLAM) single crystals
A. Rathika, L. Guru Prasad, R. Ganapathi Raman
Materials Research Innovations 18(3) June 2014 176-182. (ISSN 1432-8917)
12. Growth and Characterization of an efficient nonlinear optical Single Crystal: Urea P-Nitrophenol
A Rathika and **R. Ganapathi Raman**
Optik - International Journal for Light and Electron Optics, Volume 125, Issue 12, June 2014, Pages 2978-2982, <https://doi.org/10.1016/j.ijleo.2013.12.032> (ISSN 0030-4026)
13. Pre-treatment patient-specific quality assurance and gamma index variation study in gantry dependent EPID positions
Cyriac Siji, MM Musthafa, **R. Ganapathi raman**, Kummali Abdul Haneefa, Hridya VT
Journal of Radiotherapy (2014), Article ID 325057, <http://dx.doi.org/10.1155/2014/325057>
ISSN 2356-7600 (Print); 2314-8349 (Online)
14. Dosimetric studies of mixed Energy intensity modulated radiation therapy for prostate cancer using multi optimization on treatment plans
Abdul Haneefa Kummali, Shakir KK, Sidhartha A, Siji Cyriac, Musthafa MM and **Ganapathi Raman R**
Journal of Radiotherapy (2014) 1-7, Article ID 760206.
<http://doi:10.1155/2014/760206>. ISSN 2356-7600 (Print); 2314-8349 (Online)
15. Out-of-Field Photon Dosimetry Studies in 3-D Conformal and Intensity Modulated Radiation Therapy Treatment for Prostate Cancer
Siji Cyriac, M.M. Musthafa, **R. Ganapathi Raman**, Abdul Haneefa K, Saju Bhasi
International Journal of Radiation Research, (2015) 13(2) 127-134. (ISSN: 2345-4229) DOI: 10.7508/ijrr.2015.02.002
16. Investigations on synthesis, growth and characterization of Pure and 1 mol% urea doped dimethylamine picrate”
A.Rathika, **R.Ganapathi Raman**
Journal of Emerging Technology in Mechanical Science and Engineering, 5 (2014) 196-200. (ISSN: 2319-6378)
17. Investigations on Growth and Characterization of 2-Hydroxyanilinium 3,5-dinitrobenzoate Single Crystal
A Rathika and R. Ganapathi Raman
Materials Research Innovations Volume 19, Issue 3 (April 2015), pp. 182-186, DOI: <http://dx.doi.org/10.1179/1433075X14Y.0000000239>, (ISSN 1432-8917)
18. FLUKA Monte Carlo for Basic Dosimetric Studies of Dual Energy Medical Linear Accelerator
Abdul Haneefa Kummali, T. Siji Cyriac, M. M. Musthafa, **R. Ganapathi Raman**, V. T. Hridya, A. siddhartha, and K. K. Shakir
Journal of Radiotherapy Volume 2014, Article ID 343979, 7 pages, <http://dx.doi.org/10.1155/2014/343979> . ISSN 2356-7600 (Print); 2314-8349 (Online)
19. Elemental Status on Medicinal Plant from *Tribulusterrestris* (L) by AAS method
G. Thiruppathi, R.Selvaraju, **R.Ganapathi Raman** and A. Raja

20. Synthesis and Characterization of few layered Graphene oxide Prepared using Chemical Exfoliation method
S. Gobalakrishnan, M. Prabu, **R. Ganapathi Raman**
International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.59 (2015) 350-356. (ISSN 0973-9769)
21. Photo-neutron studies for open and MLC defined fields
S. Thekkadath, M.M. Musthafa, **R. Ganapathi Raman**, K. Abdul Haneefa Radiotherapy and Oncology 115(1) 2015 S869, (ISSN: 0167-8140)
22. Dosimetric studies of mixed field IMRT for prostate cancer using multi optimization on treatment plans
Radiotherapy and Oncology, Volume 111, Supplement 1, 2014, Page S198
A. Kummali, T. Siji Cyriac, K.K. Shakir, A. Siddartha, M.M. Musthafa, **R. Ganapathi Raman**
DOI:10.1016/S0167-8140(15)31706-0 (ISSN: 0167-8140)
23. Basic dosimetric comparison of medical linear accelerator using FILUKA Monte Carlo model
A.Kummali, S. Thekkadath, M.M. Musthafa, **R. Ganapathi Raman**
Radiotherapy and Oncology, Volume 111, Supplement 1, 2014, Page S138, DOI:10.1016/S0167-8140(15)31560-7 (ISSN: 0167-8140)
24. CaSO₄: Dy TLD for out-of field photon dosimetry in 3D-CRT and IMRT,
S. Thekkadath, A. Kummali, M.M. Musthafa, **R. Ganapathi Raman**
Radiotherapy and Oncology, Volume 111, Supplement 1, 2014, Page S152, DOI:10.1016/S0167-8140(15)31596-6 (ISSN: 0167-8140)
25. Neutron track detector for photo neutron measurements from high energy medical linear accelerator S. Cyriac, A. Kummali, M.M. Musthafa, **R. Ganapathi Raman**
Radiotherapy and Oncology, Volume 111, Supplement 1, 2014, Page S150, DOI: 10.1016/S0167-8140(15)31591-7 (ISSN: 0167-8140)

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

Completed: 1

PATENTS PUBLISHED/GRANTED: 2

COURSES CERTIFIED:

Courses Completed

1. AICTE Sponsored PG Certification Course in Data Science and Quantum Computing through QIP Program in Atal Bihari Vajpayee - Indian Institute of Information Technology and Management (ABV-IIITM), Gwalior, Madhya Pradesh from July to Dec 2024.

2. Completed "IUCEE INTERNATIONAL ENGINEERING EDUCATOR CERTIFICATION PROGRAM" by Indo Universal Collaboration for Engineering Education during June 23 to Dec 23.
3. Patent Drafting for Beginners through NPTEL (Jul-Aug 2023)
4. Learning Physics through Simple Experiments organized by Centre for Development of Technical Education (20 Sept 2016 to 20 Nov 2016) by Indian Institute of Technology Kanpur. Course coordinator: Dr. H. C. Verma (Verify at: <http://outreach.iitk.ac.in/v/5845066e03d7be8b318b4570>)
5. Physics of Semiconductors Centre for Development of Technical Education (20 Sept 2016 to 20 Nov 2016) by Indian Institute of Technology Kanpur. Course coordinator: Dr. H. C. Verma (15 Aug 2017 to 20 Nov 2017) (Verify at: outreach.iitk.ac.in/v/5a16b5b304987106518b45c4)
6. Refresher Course on Leadership and Governance in Higher Education (Annual Refresher Programme in Teaching (ARPIT- 2019) June 2019

ACHIEVEMENTS AND AWARDS:

RESEARCH AWARDS

- **SUMMER RESEARCH FELLOW** (27th May -7th July 2004) in Indian Institute of Geomagnetism, EGRL campus, Krishnapuram, Tirunelveli -627 011.
- **UGC RESEARCH FELLOW** for Science Meritorious Student (RFSMS) from 31st Jan 2009 to 31st Dec 2010.
- **BEST PAPER PRESENTATION AWARD** for the paper entitled “*SEM-EDS and FTIR analysis of human gallbladder tissue with gallstone samples*” in National conference on perspectives in Laser and Spectroscopy (NCPLAS-09), PG Department of Physics, Women’s Christian College, Chennai -06, 24th and 25th, September 2009.
- **BEST PAPER PRESENTATION AWARD** for the Paper entitled “Synthesis and characterization of Graphene Oxide, Reduced Graphene Oxide, Graphene” R.Joedixen, S.Gobalakrishnan and R. Ganapathi Raman in the UGC Sponsored National conference on Emerging Trends in Applied Physics (NCETAP-2015) on 19th & 20th February 2015 at Lekshmipuram College of Arts and Science, Neyyoor, Kanyakumarai Dist - 629802, Tamil Nadu, India.
- **OUTSTANDING JOURNAL REVIEWER AWARD** from Physica B: Physics of Condensed Matter, Elsevier, Amsterdam, The Netherlands (Feb 2017).
- **OUTSTANDING JOURNAL REVIEWER AWARD** from Physica B: Physics of Condensed Matter, Elsevier, Amsterdam, The Netherlands (July 2017).
- **OUTSTANDING JOURNAL REVIEWER AWARD** from Chinese Journal of Physics, Elsevier, Amsterdam, The Netherlands (Sep 2018).
- **OUTSTANDING JOURNAL REVIEWER AWARD** from Vacuum Elsevier, Amsterdam, The Netherlands (Sep 2018).
- **CERTIFICATE OF EXCELLENCE IN REVIEWING -2021** from Asian Journal of Research Reports.

AWARDS & RECOGNITION

- Received “**Ariviyal Kazhangiyam Award**” by MTS Academy & Mayilai Thiruvalluvar Tamil Sangam (A non-profit Tax Exempted Service Oriented Rainbow HRD, N.G.O.) on 17th May 2017 and award given by Hon’ble Justice Prabha Sreedevan in the presence of Dr. K. Baskar, Vice Chancellor, Manonmaniam Sundaranar University, Tirunelveli.
- **BEST YOUNG FACULTY AWARD** from DK International Research Foundation, Perambalur in the year 2018.
- **Certificate of Excellence & Honour/ Outstanding Staff Achiever** from Noorul Islam Centre for Higher Education on 4th Remembrance Day of Bharat Ratna Dr. A. P. J. Abdul Kalam on 27th July, 2019.
- **IIC Innovation Ambassador Advanced Level** recognized by AICTE & MIC, MHRD, Govt. of India.
- **NISP (National Innovation and Start-up Policy) Ambassador** recognized by AICTE & MIC, MHRD, Govt. of India.
- **Certificate of Excellence** received from Elsevier Research Academy in the following Courses Finding Right Journal, Research Collaboration, Certified Peer Review Course, Social Impact
- **Shri P K Das Memorial Best Faculty Award (Physics – Senior) 2022** received from Nehru Group of Institution’s Coimbatore with Cash Prize on 15th Dec 2022.

SPECIAL SESSIONS DELIVERED:

1. **Competition Judge Science Exhibition of Models and Projects 21.11.2011 Amala Matriculation School, Thuckalay-629175, Kanyakumari Dt.**
2. **” National Seminar on Material Science in Research and Technology (NSRTM-2013) 5.10.2013 Annai Velankanni College, Tholayavattam, Kanyakumari Dt.**
3. **Resource Person (Poster Presentation Chairing Session) One day National Conference on Recent Trends in Materials Science (RTMS-13) 7.11.2013.M. Kumarasamy College of Engineering (Autonomous), Karur**
4. **Resource Person (Oral Presentation Chairing Session) UGC Sponsored National conference on Emerging Trends in Applied Physics (NCETAP-2015) 19.2.2015 Department of Physics, Lekshmipuram College of Arts and Science, Neyyoor, Kanyakumarai Dist - 629802, Tamil Nadu, India.**
5. **“Recent Advances in Physics” Prof A. James Endowment Lecture 7.8.2015 Department of Physics, Scott Christian College, Nagercoil 629 003.**
6. **“Nano Technology – an overview” A student Seminar 10.9.2015 Department of Microbiology and BioTechnology, Noorul Islam Arts and Science College, Kumaracoil, Kanyakumari Dt.**
7. **Resource Person (Poster Presentation Chairing Session) National Conference on Technologically Advanced Materials (NCTAM-2016) 6.9.2016 Department of Physics, Muslim Arts College, Thiruvithancode.**
8. **Resource Person (Oral Presentation Chairing Session) National Seminar on Exploring the Plethora of Research 23.2.2017 Research Forum, Women’s Christian College, Nagercoil- 629001.**
9. **Resource Person (Poster Presentation Chairing Session) International Conference on Global Advances in Materials for Energy, Engineering and Environmental**

Sciences (GAMES) 7.3.2017 Department of Science & Humanities, M. Kumarasamy College of Engineering, Karur-639 113.

- 10. Applications of Nano Technology A Student Seminar 31.7.2017 Department of Physics, Vijay Vidyalaya Arts and Science College, Nallampalli, Dharmapuri Dt.**
- 11. Chief Guest Address National Level Technical Symposium FLAIR 2017 13.10.2017 First Year B.E/B.Tech, J.P. College of Engineering, Ayikudy, Tenkasi- 627852, Tirunelveli Dt**
- 12. Nano Technology Innovations National Seminar on Nanotechnology and its applications: A perspective Approach 1.3. 2018 Department of Nano Science and Nanotechnology, ST Hindu College, Nagercoil.**
- 13. Importance of Spectroscopic Techniques A Student Seminar 26.4.2018 Department of Nanotechnology, Noorul Islam Centre for Higher Education, Kumracoil**
- 14. Competition Judge Science Exhibition of Models and Projects 09.11.2018 Amala Matriculation School, Thuckalay-629175, Kanyakumari Dt.**
- 15. Nano Particles Physics Association 11.9.2018 Sree Ayyappa College of Arts and Science for Women, Nagercoil**
- 16. Judge Poster Presentation International Seminar on Technologically Advanced Materials (ISTAM-2018) organised by The Department of Physics & Research Centre, Muslim Arts College, Thiruvithancode – 629 174, Kanyakumari Dt, Tamilnadu, India on 29th Oct 2018.**
- 17. Chief Guest Address Physics Association J. P. College of Engineering, Ayikudy, Tenkasi- 627852, Tirunelveli Dt.**
- 18. Judge Science Exhibition 19/10/2019 Smt. R.P. Rajalakshmi Hindu Vidyalaya Matriculation Higher Secondary School, Thuckalay**
- 19. Invited Talk International Seminar on Technologically Advanced Materials (STAM-2019) Department of Physics & Research Centre, Department of Chemistry, Muslim Arts College, Thiruvithancode on 6th Sep 2019**
- 20. Resource Person Sensitization Programme for IIC Institutions Innovation Council of The MDT Hindu College on 10.1.2020**
- 21. Invited speaker PHYSIK 2020 (National science day function) Department of Physics, JP College of Arts and Science, Tenkasi on 20 th Feb 2020.**
- 22. Resource Person Recent Trends in Raman Spectroscopy Department of Physics, Dr. Zahir Husain College, Ilayangudi, Sivagangai District on 9.3.2020**
- 23. Chief Guest Impact Lecture Series (Funded by MIC, MHRD, Govt. of India) Institution Innovation Council, The MDT Hindu College, Tirunelveli on 11th March 2020.**
- 24. Resource Person Need of Innovation in Higher Education Students Department of EEE, University College of Engineering, Nagercoil on 24.7.2020**
- 25. Resource Person IIC Innovation Ambassador Talk Series Institution's Innovation Council, Noorul Islam Centre for Higher Education on 30.7.2020**

- 26. Resource Person Two days online workshop entitled “Research Tools and Techniques for Material Characterization” Department of Physics in Association with IQAC, The MDT Hindu College Tirunelveli on 31.7.2020**
- 27. Resource Person Need of Innovations for Higher Education Students EDII Kanyakumari Hub, University College of Engineering, Nagercoil on 14.8.2020**
- 28. Resource Person International Virtual Conference Department of Physics and Mathematics, PRDS College of Arts and Science, Kerala 6th Oct 2020.**
- 29. Resource Person IIC Inaguration Noorul Islam College of Arts and Science, Kumaracoil on 30.12.2020**
- 30. Resource Person (Session Chair) International E-Conference on Advances in Materials Science (ICAMS 2021) Department of Physics, Manonmaniam Sundaranar University March 24-26, 2021.**
- 31. Resource Person “Prototyping for Business Model” IIC Alagappa Chettiar Government College of Engineering and Technology, Karaikudi, 14.7.2021**
- 32. Chairing Session International Conference on Recent Trends in Applied Science and Technology IICRTAST-2021) Department of Physics, Manonmaniam Sundaranar University on 25-28 Nov 2021.**
- 33. Resource Person Young Student’s Scientist Programme (Funded by TNSCST) Noorul Islam Centre for Higher Education on June 2022.**
- 34. Resource Person Institution’s Innovation Council Annai Hajira College, Melapalayam, Tirunelveli on 21.6.2022**
- 35. Resource Person Institution’s Innovation Council Noorul Islam College of Arts and Science, Kumaracoil on 26.7.2022**
- 36. Resource Person Institution’s Innovation Council Noorul Islam Centre for Higher Education, Kumaracoil on 27.10.2022**
- 37. Resource Person “ACHIEVING PROBLEM-SOLUTION FIT AND PRODUCT-MARKET FIT” Institution’s Innovation Council Sree Ayyappa College for Women, Chunkankadai, Nagercoil on 21st January, 2023**
- 38. Session Chair CSIR Sponsored National Conference Department of Physics, Noorul Islam Centre for Higher Education on 13&14th March 2023**
- 39. Session Chair Conference Project Contest LLP on 1.5.2023**
- 40. Event Judge State Level Technical Symposium (Convergence 2023) Department of Science and Humanities, Sri Sai Ram Engineering College on 8.6.2023**
- 41. Resource Person One Day Seminar on Research Methodology and Publication Ethics – An Introduction and Exploration DEPARTMENT OF PHYSICS, AMET University, Chennai on 9.9.2023**
- 42. Event Judge Drestin 23 (Mega Inter College Fest) Department of ECE, Saveetha Engineering College 11.3.2023**
- 43. Resource Person webinar on “Need of Environmental Sustainability for our Future” Department of Science and Humanities and IIC Mahendra Engineering College on 14.12.2023**

44. Event Judge Advithaon – Science Expo Maharishi International Residential School Santhavelur, Sunguvar Chathiram – 602106 on 24.1.2024
45. Session Chair International Conference on Educating the Post Millennials (ICEM'24). Saveetha Teaching Learning Centre (STLC) of Saveetha Engineering College Chennai On 17.5.2024
46. Session Chair International e-Conference on Advanced Materials for Sustainability (ICAMS-24) Department of Physics, Noorul Islam Centre for Higher Education (Deemed to be a University), Kumaracoil, Kanyakumari District. on May 8 and 9, 2024
47. Resource Person Expert Talk: Role of Teachers In Identifying, Nurturing/Hand holding Good Ideas Department of Electrochemistry, SIMATS on 29.01.2024
48. Resource Person/ Invited Speaker IIC Mentor Mentee Program (Mentor Talk) IIC, St. Joseph Engineering College on 2.7.2024

Books Published

International Publisher (Book Chapter)

- Geometrical Structure, Vibrational Spectra, NLO, NBO, Electronic Transitions and Thermo Dynamical Analysis of 5-Fluoro-2-Methylbenzonitrile by DFT Computational Method
Arockiasamy Ajaypraveenkumar, **R. Ganapathi Raman**, S. Sebastian
Recent Trends in Materials Science and Applications. Springer Proceedings in Physics, vol 189. Springer, Cham, DOI: 10.1007/978-3-319-44890-9-54, Part of the Springer Proceedings in Physics book series (SPPHY, volume 189) Scopus Indexed and SCI Indexed Publisher Name: Springer, Cham, Print ISBN: **978-3-319-44889-3** Online ISBN: **978-3-319-44890-9**
- Introduction to Nanotechnology
Dr. R. Ganapathi Raman, Dr. Tribeni Prasad Banerjee, Dr. Kartik K Shinde
Alpha International Publication (AIP)
Print ISBN: 978-93-95978-32-3 (Year: 2022)

National Publisher

- Engineering Physics –I by Dr.B.Bindhu., C.Sagi Rani., Dr.V.N.Meena Devi., **Dr.R.Ganapathi Raman**, Anuradha Publications (ISBN: **978-81-8472-179-9**) in 2013.
- Engineering Physics –I by Dr.B.Bindhu., C.Sagi Rani., Dr.V.N.Meena Devi., **Dr.R.Ganapathi Raman**, R.K Publications (ISBN: 978-81-8472-179-9) in 2014.
- Physics Laboratory Manual for 1st year B.E/B.Tech degree courses by Dr. B.Bindhu & Dr. R. Ganapathi Raman, R.K Publications in 2017 (ISBN: **978-93-84295-17-2**)
- Course Material Mathematical Physics –I and Mathematical Physics – II , M.Sc Physics, Tamil Nadu Open University, Chennai by **Dr. R. Ganapathi Raman** in 2021 (ISBN:)
- Proceedings of National Conference on Recent Trends in Physics (NC RTP - 2022) JPS Scientific Publications in 2022 by Dr. B. Bindhu, Dr. V.N. Meena Devi, **Dr. R. Ganapathi Raman**, Dr. C. Sagi Rani and Dr. N. Y. Sugirtha Suni in May 2022 ISBN : **978-93-91342-32-6**

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

1. *"Spectral analysis of some traditional medicinal plants for their chemical constituents – ADATHODAI VASICA"*, R.Selvaraju, R.Valliappan, **R.Ganapathi Raman**, C.V.Sajjad and K.Sainul Abidin
National Seminar on Bioinformatics and Computational Biology March 21st & 22nd, 2007. Department of Zoology (DDE), Annamalai University, Chidambaram -608 002.
2. *"Characterization of industrial waste water in the river banks of Periyar River in Ernakulam district of Kerala state"* R.Selvaraju, K.Sainul Abidin, **R.Ganapathi Raman** and R.Valliappan National conference on recent advantages in molecular structure July 19th & 20th, 2007. Department of Physics, Aarupadai Veedu Institute of Technology, Vinayaka Mission University, Paiyanoor -603 104.
3. *"Growth and characterization of pure and doped KDP crystal "*
R.Selvaraju, S.Ramesh, **R.Ganapathi Raman** and R.Valliappan
National seminar on crystal growth of laser and non linear optical materials, 25th & 26th September 2008, PG & Research Department of Physics, National College, Trichirappalli -620 001.
4. *"Water and Soil sediment analysis of Thamirabarani river basin "*
R.Selvaraju, K.Srinivasan, **R.Ganapathi Raman** and R.Valliappan
National conference on emerging trends in chemical research, 17th & 18th October 2008, Department of Chemistry, Annamalai University, Annamalainagar-608 002.
5. *"Raman spectroscopic analysis of human gallstones "*
R.Ganapathi Raman and R.Selvaraju
Recent trends in Bioscience -21st Millennium (BIOS-2009), 6th & 7th March 2009, Department of Zoology, Annamalai University
6. *"Epidemiology studies of human gallstones in and around Chidambaram city"*
R.Selvaraju and **R.Ganapathi Raman**
National Cancer Congress & Clinical Laboratory Technology, 20th & 21st August 2009, Department of Biochemistry & Clinical Laboratory Technology, Dr. N.G.P Arts and Science college, Coimbatore -641 048.
7. *"FT-IR Studies on Salmonella Typhi Affected Human Blood Samples"*
R.Selvaraju, R. Pushba, **R.Ganapathi Raman**, G.Thiruppathi, R.Valliappan
National conference on perspectives in Laser and Spectroscopy (NCPLAS-09), PG Department of Physics, Women's Christian College, Chennai -06, 24th and 25th, September 2009.
8. *"Spectral studies on L-Prolinium Picrate crystal"*
R.Selvaraju, C.Eswaran, **R.Ganapathi Raman**, G.Thiruppathi
National conference on materials science (MATS 2009). Department of Chemistry, Annamalai University, Annamalainagar, during 9th & 10th October 2009.
9. *"Biochemical and physio-chemical analysis of gallbladder stone, gallbladder tissue and gallbladder bile samples"*
R.Selvaraju and **R.Ganapathi Raman**

1st International conference on bioinformatics and systems biology – 2010 organized by Department of Zoology (DDE), Annamalai University, Annamalainagar -608 002, Feb 19th -21st, 2010.

10. *“Synthesis and characterization of nickel ammonium sulphate trihydrate”*
R.Selvaraju, **R.Ganapathi Raman**, V. Panneerselvam
UGC, CSIR & DST Sponsored National seminar on new frontiers in chemistry (NSNFC-2010) 15th&16th March-2010
11. *“The effect of Volvariella volvacea mushroom in albino rats by anti oxidant and FTIRspectroscopy study”*
R. Selvaraju, S. Arul Maria Joseph, **R.Ganapathi Raman**, G. Thiruppathi
International conference on Recent Frontiers in Applied Spectroscopy (ICORFAS-2010), Department of Physics, Annamalai University, Annamalainagar, 22nd -24th Sept- 2010.
12. *“Mechanical behavior of human gallbladder stones”*
R.Ganapathi Raman, R.Selvaraju, G.Thiruppathi, A. Raja
National Seminar on Advances in Physics,
Department of Physics, Manonmaniam Sundaranar University, Tirunelveli, 10th&11th March 2011.
13. *“Dielectric Relaxation Studies of Alcohols with Butyl Acetate in Non-Polar Solvents Using Microwave Absorption Technique”*
M.Sreenivasan, P.Sivagurunathan, **R.Ganapathi Raman**
Seventh All India Conference of KAAS (KAAS-2011) conference at Women’s Christian College, Nagercoil on 16th and 17th Sept 2011.
14. *“Dissolution of gallbladder stones by traditional herbal”*
R.Selvaraju, **R.Ganapathi Raman**, G.Thiruppathi
National Seminar on “Recent Trends in Synthetic Methods and Chemistry of Natural Products” (SMNP – 2011) organized by Department of Chemistry, Annamalai University on 14th and 15th Oct 2011.
15. *“Physicochemical properties of organic single crystal DL-Alanine Maleate”*
R. Ganapathi Raman, A. Rathika and L. Guru Prasad
National Conference on Physics of New Materials (NCPNM-2012) organized by Department of Physics, Noorul Islam University, Kumaracoil on 20th and 21st April, 2012.
16. *Physico Chemical Analysis of DL Alanine Maleate Crystals for Frequency Doubling*
Rathika and L. Guru Prasad, **R. Ganapathi Raman**
DAE-BRNS National Laser Symposium (NLS-21) organized by Bhabha Atomic Research Centre, Mumbai during 06-09, Feb 2013.
17. *Synthesis, Growth and Characterization of P-nitrophenol Urea Single Crystal*
Rathika, **R. Ganapathi Raman**
One day National Conference on Recent Trends in Materials Science (RTMS-13) organized by M. Kumarasamy College of Engineering (Autonomous), Karur on 7th November 2013.
18. *Mechanical and dielectric properties of human gallbladder stones*
R. Ganapathi Raman and R. Selvaraju

National Conference in Advanced Materials and its Applications (NCAMA-2014) on 4th & 5th of April 2014. Organized by Department of Engineering Physics, Annamalai University

19. *Investigations on Synthesis, Growth and Characterization of Pure and 1 mol% Urea doped Dimethylamine Picrate*
Rathika, R. Ganapathi Raman
International Conference on Emerging Trends in Science, Engineering, Business and Disaster Management organized by Department of Human Resource Management in association with IEEE Madras Section ED Chapter and ISTE India at Noorul Islam University, Kumaracoil on 28th February 2014.
20. *Spectroscopic Studies On Metal And Q-Dot Modified Graphene Oxide*
Gobalakrishnan S, **Ganapathi Raman R**, B. Ashina
International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT 2014), organized by Department of Electrical and Electronics Engineering, Noorul Islam University, Kumaracoil during 10th & 11th July, 2014.
21. *Synthesis and characterization of pure and Zn doped CuO nanoparticles by chemical precipitation method*
Jeneba, Gobalakrishnan S, **Ganapathi Raman R**
National Seminar on Modern Trends in Physics Research (NSMTPR-2015) during 5th & 6th November 2015, organized by Department of Physics, St. Stephen's College, Pathanapuram, Kollam, Kerala.
22. *Spectroscopic Analysis, Electronic, Optical and thermodynamical properties of 2-Amino-5-fluorobenzonitrile by ab-initio methods.*
Ajaypraveenkumar A, **Ganapathi Raman R**
National Conference on Global Advances in Materials for Energy, Engineering and Environmental Sciences (GAMES) organized by Department of Science & Humanities, M. Kumarasamy College of Engineering, Karur-639 113 on March 7th 2017.
23. International Seminar on Technologically Advanced Materials (ISTAM-2018) organised by The Department of Physics & Research Centre, Muslim Arts College, Thiruvithancode – 629 174, Kanyakumari Dt, Tamilnadu, India on 29th Oct 2018.
24. The performance of Nano SnO₂ Photocatalyst against Methylene Blue Dye International Conference on “Multidisciplinary Research in Global Challenges and Perspectives of Sustainable Development” on 21st December, 2019 organized by St. Jerome's College, Anandhanadarkudy, Nagercoil-629201, Kanyakumari District, Tamilnadu.

PARTICIPATION OF NATIONAL/INTERNATIONAL WORKSHOPS/REFRESHER COURSE

1. National level virtual conference on Technological Advancement in Forensic Science organized by Forensic Science Division, Department of Allied Health Sciences on 7th & 8th May 2021.
2. Seminar on opportunities For Funding For Science Teachers 22nd July 2019
3. National workshop on one and two dimensional NMR spectroscopy Theory and applications, Department of Chemistry, Madurai Kamaraj University, Palkalainagar, Madurai, 22nd-23rd, Feb 2007.

4. Prof. K.S.Sonachalam memorial XVII interdisciplinary research methodology workshop, Department of Economics, Annamalai University on 27th -30th April 2007
5. UGC sponsored national workshop on Instrumental techniques in chemistry (WINTEC 2007), Department of Chemistry, Annamalai University on 3rd & 4th Nov 2007.
6. National workshop on nonlinear optics (NWN0 -2008), Department of Science and Humanities, NIT Calicut, Kozhikode, Kerala on 4th-5th Jan 2008.
7. Prof. K.S.Sonachalam memorial XVII interdisciplinary research methodology workshop, Department of Economics, Annamalai University on 9th-12th March 2009
8. National workshop on Theory and practice of X-ray diffraction Techniques (TPXRD-2009), Department of Physics, Alagappa University on July 13th-17th, 2009.
9. National workshop on X-ray diffraction techniques and applications (NWXRD-2010), Department of Physics, Saurashtra University, Rajkot (Gujarat) on March 17th-19th, 2010.
10. Orientation Programme organized by Department of Human Resource Management, Noorul Islam Centre for Higher Education, Noorul Islam University, Kumaracoil-629 180 on 18th October 2011.
11. Aptitude and Soft skill training (15th -21st Dec 2011) conducted by Department of Human Resource Management, Noorul Islam Centre for Higher Education, Noorul Islam University, Kumaracoil-629 180.
12. Pre ICORS International Workshop on Raman Spectroscopy: Recent Advances, Techniques and Application organized by Kerala State Council for Science, Technology and Environment (KSCSTE) in association with EduWorld Foundation held at Mascot Hotel, Tiruvandrum on 10th August 2012.
13. Akash for Education conducted by IIT Bombay under National Mission on Education through ICT (MHRD) during 10th & 11th Nov 2012.
14. Workshop on Research Project Writing on 21st August 2012 organized by Noorul Islam University.
15. Refresher and Faculty Development Programme organized by Academics Staff Development Centre, Noorul Islam University, during 19th Aug – 24th Aug 2013.
16. DBT sponsored workshop on Advanced Nano- Characterization Techniques as Complementary Tools for Biomolecular Applications organized by Department of Nano Technology, Noorul Islam University, during 22nd Jan – 7th Feb 2014.
17. Two week ISTE shorttime training programme on Engineering Physics conducted by Indian Institute of Technology Bombay from December 8-18, 2015.
18. Engineering Education & Research Seminar at Kanyakumari on 29th March 2016 organized by National Instruments India.
19. Latex workshop organized by Department of Mathematics, Noorul Islam University during 19th & 20th Dec 2016.
20. AICTE Sponsored Faculty Development Programme for Student Induction Program held at Eswari Engineering College, Ramapuram, Chennai, 15th to 17th Nov, 2018.

21. One day seminar on Quality Research and Publications, Centre for Research, Manonmaniam Sundarnar University, Tirunelveli 7th Dec 2018.
22. Dissemination Workshop on ARIIA, SIH-2019 organized by MHRD Innovation Cell during 9.1.2019 at SRM TRP Engineering College, Trichi
23. AICTE Sponsored Faculty Development Programme for Student Induction Program held at National Engineering College (Autonomous), KR Nagar, Kovilpatti -628 503 during 9th to 11th May, 2019.
24. FDP on Creative Thinking (organized by ICT Academy, Chennai) during 11th & 12th Feb 2019 at Noorul Islam Centre for Higher Education, Kumaracoil.
25. Workshop on *E Resources* organized by Department of Library in Association with Knimbus Online Pvt. Ltd, New Delhi on 25.07.2019.
26. Regional Mentoring Session for PoC and Orientation for IIC 2.0 & ARIIA organized by MHRD Innovation Cell 7.8.2019 at during Mariam Engineering College, Tiruvandrum.
27. Workshop on NPTEL organized by Manonmaniam Sundarnar University and NPTEL, IIT Madras on 19th July 2019.
28. FDP on Teaching Techniques (organized by ICT Academy, Chennai) during 11th & 12th Feb 2019 at Amirtha College of Engineering.
29. One day seminar on opportunities for funding for science teachers of higher education institutions (SOFST) organized by School of Education, Manonmaniam Sundarnar University, Tirunelveli under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, GoI on 22nd July 2019.
30. Intellectual Property Rights & Entrepreneurship organized by the PMO-IEDP (Programme Monitoring Office – Innovation & Entrepreneurship Development Programme) from 13th Nov 2019 to 14th Nov 2019 at University College of Engineering, Nagercoil Hub.
31. Faculty Development Programme on Emotional Intelligence organized by ICT Academy, Chennai at Noorul Islam Centre for Higher Education, Kumaracoil during 17th Dec – 19th Dec 2019.
32. Five Days Online FDP on "Leadership & Excellence" from 2020-9-7 to 2020-9-11 at Utkal University organized by AICTE Training And Learning (ATAL) Academy & AICTE (All India Council for Technical Education).
33. Five Days Online FDP on Design thinking and Innovation Management organized by AICTE Training And Learning (ATAL) Academy & AICTE (All India Council for Technical Education) at VIT Business School, VIT, Vellore during 14th – 18th Sep 2020.
34. Faculty Development Program on Entrepreneurship Development sponsored by DST, Govt. of India, organized by Centre for Incubation, Adams University, Kolkatta from 8th Feb 2021 to 20th Feb 2021.

Reviewer of the Journal: 27

Thesis Reviewer` : Periyar University, Bharathiyar University, Bharathidasan University, Karpagam Academy of Higher Education, University of Kerala (M.Phil : 10, PhD: 9)

Doctoral Committee Member : 23 candidates

PROFESSIONAL MEMBERSHIPS:

- Indian Association for Crystal Growth
Indian Association for Physics Teachers