

EASWARI ENGINEERING COLLEGE

Ramapuram, Chennai -89

Department of Physics

List of Publications

S.No	Publications
1	Nirmala, S., Palani, K., Sudha, L., Poornachandran, M., and Raghunathan, R., 2008 “ <i>cis</i> -1-(4-Bromophenyl)-6-ethyl-5-(phenylsulfonyl)perhydropyrrolo [3,4- <i>b</i>]pyrrole”, <i>Acta Cryst.</i> , E63, pp.2254-2255. (2007)
2	Nirmala, S., Kamala, E.T.S., Sudha, L., Ramesh, E., and Raghunathan, R., 2008, “(3 <i>aRS</i> ,9 <i>bSR</i>)-3-(4-Chlorophenyl)-1-methyl-1,2,3,3 <i>a</i> ,4,9 <i>b</i> -hexahydrochromeno[4,3- <i>b</i>]pyrrole-3 <i>a</i> -carbonitrile”, <i>Acta Cryst.</i> , E64, pp.73.
3	Nirmala, S., Kamala, E.T.S., Sudha, L., Ramesh, E., and Raghunathan, R., 2008, “(3 <i>aS</i> ,9 <i>bR</i>)-Methyl 1-methyl-3-phenyl-1,2,3,3 <i>a</i> ,4,9 <i>b</i> -hexahydrochromeno[4,3- <i>b</i>]pyrrole-3 <i>a</i> -carboxylate”, <i>Acta Cryst.</i> , E64, pp.649.
4	Nirmala, S., Kamala, E.T.S., Sudha, L., Ramesh, E., and Raghunathan, R., 2008, “Crystal Structure of Methyl 3-(4-chlorophenyl)-1,2,3,3 <i>a</i> ,4,9 <i>b</i> -hexahydro-1-chromeno[4,3- <i>b</i>]pyrrole-3 <i>a</i> -carboxylate”, <i>Analytical Sciences: X-ray Structure Analysis Online</i> , 24, pp.51-52.
5	Nirmala, S., Kamala, E.T.S., Sudha, L., Raj, A.R.N., and Huq, C.A.M.A., 2008, “1-Allyl-3,3-diphenylindolin-2-one”, <i>Acta Cryst.</i> , E64, pp.o834.
6	Nirmala, S., Kamala, E.T.S., Sudha, L., Raj, A. R. N., and Huq, C.A.M.A., 2008, “1-Allyl-3,3-di- <i>p</i> -tolylindolin-2-one”, <i>Acta Cryst.</i> , E 64, pp.879.
7	Nirmala, S., Kamala, E.T.S., Sudha, L., Arumugam, N., and Raghunathan, R., 2008, “Methyl 3-(2-chlorophenyl)-2-(1 <i>H</i> -indol-3-ylmethyl)-5-[1-(4-methoxyphenyl) -4-oxo-3-phenylazetididin-2-yl] -4-nitropyrrolidine-2-carboxylate”, <i>Acta Cryst.</i> , E64, pp.1070-1071.
8	Nirmala, S., Kamala, E.T.S., Sudha, L., Arumugam, N., and Raghunathan, R., 2008, “Methyl 3-(4-bromophenyl)-2-(1 <i>H</i> -indol-3-ylmethyl)-5-[1-(4-methoxyphenyl) -4-oxo-2-phenylazetididin-2-yl] -4-nitropyrrolidine-2-carboxylate”, <i>Acta Cryst.</i> , E64, pp. 1095-1096.
9	Nirmala, S., Kamala, E.T.S., Sudha, L., Ramesh, E., and Raghunathan, R., 2008, “Crystal Structure of 1,4-Dimethyl 2.5[2'-dispiroindane-1,3-dione]piperazine”, <i>Analytical Sciences: X-ray Structure Analysis Online</i> , 24, pp.101-102.
10	Nirmala, S., Murugan, R., Kamala, E.T.S., Sudha, L., and Narayanan, S.S., 2008, “3-(4-Fluorophenyl)-1-[1'-(4-fluorophenyl)-2-oxo-5',6',7',7 <i>a</i> '-tetrahydro-1 <i>H</i> -indole-3(2 <i>H</i>)-spiro-3'(2' <i>H</i>)-1 <i>H</i> '-pyrrolizine-2'-yl]prop-2-en-1-one”, <i>Acta Cryst.</i> , E64, pp.o1774-o1775.

11	Nirmala, S. , Murugan, R., Kamala, E.T.S., Sudha, L., and Narayanan, S.S., 2008, "1-[2-Oxo-1'-phenyl-2',3',5',6',7',7a'-hexahydroindoline-3-spiro-3'-1' <i>H</i> -pyrrolizine-2'-yl]-3-phenylprop-2-en-1-one", <i>Acta Cryst.</i> , E64, pp.o1817.
12	Nirmala, S. , Murugan, R., Kamala, E.T.S., Sudha, L., and Narayanan, S. S., 2008, "Ethyl 2-[4-(benzyloxy)anilino]-4-oxo-4,5-dihydrofuran-3-carboxylate", <i>Acta Cryst.</i> , E64, pp.o2315.
13	Nirmala, S. , Karthikeyan, K., Kamala, E.T.S., Sudha, L., and Perumal, P.T., 2009, "4'-(4-Methoxyphenyl)-1,1',1''-trimethyldispiro[indoline-3,2'-pyrrolidine-3',3''-pyrrolidine]-2,2'',5''-trione", <i>Acta Cryst.</i> , E65, pp.o1655-o1656.
14	Nirmala, S. , Kamala, E.T.S., Sudha, L., Kathiravan, S., and Raghunathan, R., 2009, "Methyl 1-methyl-3- <i>p</i> -tolyl-1,2,3,3a,4,11c-hexahydrobenzo [<i>f</i>]chromeno[4,3- <i>b</i>]pyrrole-3a-carboxylate", <i>Acta Cryst.</i> , E65, pp.o1811.
15	Nirmala, S. , Kamala, E.T.S., Sudha, L., Kathiravan, S., and Raghunathan, R., 2009, "Methyl 4-(4-methoxyphenyl)-1,2,3,3a,4,4a,5,12c-octahydrobenzo [<i>f</i>]chromeno[3,4- <i>b</i>]pyrrolizine-4a-carboxylate", <i>Acta Cryst.</i> , E65, pp.o1938.
16	Nirmala, S. , Kamala, E.T.S., Sudha, L., Kathiravan, S., and Raghunathan, R., 2009, "Methyl 3-(4-bromophenyl)-1-methyl-1,2,3,3a,4,9b-hexahydrobenzo [<i>f</i>]chromeno[4,3- <i>b</i>]pyrrole-3a-carboxylate", <i>Acta Cryst.</i> , E65, pp.o2028-o2029.
17	S.N. Zafarullah , K.Sankara Shashtri, Stellar velocity perturbations in colliding Galaxies-1., <i>Bull.Astr.Soc.India</i> , 11, 145-151(1983),.
18	S.N. Zafarullah , K.Sankara Shashtri, Tidal interaction between a Disc Galaxy and a spiral Galaxy, <i>Bull.Astr.Soc.India</i> , 15, 86-97(1987).
19	R. Raziya Sultana, S.N. Zafarullah and N. Hephzibah Kirubamani, Saliva signature of normal pregnant in each trimester as analysed by FTIR spectroscopy, <i>Indian Journal of Science and Technology</i> 4, 481-486 (2011).
20	R. Raziya Sultana, S.N. Zafarullah and N. Hephzibah Kirubamani, Utility of FTIR spectroscopic analysis of saliva of diabetic pregnant women in each trimester, <i>Indian Journal of Science and Technology</i> 4, 967-970 (2011).
21	R. Raziya Sultana, S.N. Zafarullah and N. Hephzibah Kirubamani, Analysis of Saliva and Serum of Normal and Anomalies pregnant women – folic acid deficiency using FTIR spectroscopy, <i>Indian Journal of Science and Technology</i> 7 (3), 367-373, (2014).
22	R. Raziya Sultana, S.N. Zafarullah and N. Hephzibah Kirubamani, Insulin response of Diabetic Pregnant Women: Analysis of saliva by FTIR study, <i>Indian Journal of Science and Technology</i> 5, 3, (2012).

23	Praveenkumar Somasundaram , Sakthipandi Kathiresan , Sridharpanday Mathu , Selvam Mohanraj , Karthik Arumugam , Surendhiran Srinivasan , Palanivelu Nallaiyan , Rajendran Venkatachalam , Rajkumar Gurusamy “Structural and phase transition of Mg-doped on Mn-site in La _{0.7} Sr _{0.3} MnO ₃ bulk/nanostructured perovskite characterised through online ultrasonic technique” <i>South African Journal of Chemical Engineering</i> , 23 50-61(2017).
24	Gurumurthi, T and Murugakoothan, P, “Synthesis, Growth and Characterisation of Nonlinear Optical Nb-doped L-Prolinium Picrate Single Crystals”, <i>Journal of Advanced Materials Research, Trans. Tech.</i> Publications, Switzerland, 584, 97-101 (2012).
25	Gurumurthi T and Murugakoothan P, “ Synthesis, Growth and Characterisation of Nonlinear Optical Nd-doped L-Prolinium Picrate Single Crystals”, <i>Journal of Nonlinear Optics and Quantum Optics</i> , 45, 161-170 (2012).
26	Gurumurthi T and Murugakoothan P, “ Synthesis, Growth and Characterisation of Nonlinear Optical Ce-doped L-Prolinium Picrate Single Crystals”, <i>Asian Journal of Chemistry</i> , 36, 5003-5007 (2014).
27	Gurumurthi T and Murugakoothan P, “ Effect of rare earth elements Neodymium, Cerium, Lanthanum and soft transition element Niobium doped L-Prolinium Picrate Single Crystal”, <i>International Journal of Chem.Tech Research</i> , 7 (5), 2310-2319 (2015).
28	Gurumurthi T and Murugakoothan P, “ Synthesis, Growth and Characterisation of Nonlinear Optical La-doped L-Prolinium Picrate Single Crystals”, <i>Journal of Optoelectronics and Advanced Materials</i> (Communicated).
29	Gurumurthi.T and P. Murugakoothan, “Synthesis, Growth and Characterisation of Nonlinear optical Lanthanum doped L-Prolinium Picrate single crystal”, Accepted in <i>International Journal of ChemTech Research</i> . 10, 6 (2017).
30	S. Elangovan , “Molecular Interaction Studies of Methyl Formate with Primary Alcohols at 303K using Time Domain Reflectometry” (Accepted) <i>International Journal of Chem Tech Research</i> 6, 62 (2017) Accepted
31	S. Elangovan and S. Mullainathan “Molecular interactions in binary mixtures of methyl formate with 1-butanol, 1-pentanol, and 1-hexanol by using ultrasonic data at 303 K” - <i>Russian Journal of Physical Chemistry A</i> , 90 (5), 1006-1110, (2016).
32	S. Elangovan and S. Mullainathan, “Ultrasonic Studies on Intermolecular Interaction in Binary Mixture of N-Methyl Formate with 1-Butanol at 308K.” <i>International Journal of ChemTech Research</i> , 8 (1), 223-227 (2015).
33	S.Elangovan and S. Mullainathan “Ultrasonic studies in binary mixture of n-methyl formate with 1-ethanol at various temperatures”. <i>Russian Journal of Physical Chemistry A</i> . 88, No. 4, 601-606 (2014).
34	S.Elangovan and S.Mullainathan “Intermolecular interaction studies in binary mixtures of n-methyl formate with 1-methanol at various temperatures”. <i>Asian Journal of Chemistry</i> . 26(1), 137-141 (2014).

35	S.Elangovan and S.Mullainathan "Ultrasonic studies in binary mixtures of n-propyl formate with 1-alcohols at 303K <i>Asian Journal of Chemistry</i> 8(1), 223-227 (2015).
36	S. Elangovan and S. Mullainathan "Ultrasonic studies of mixtures of ethyl formate and n-alcohols in carbon tetrachloride". <i>Indian Journal of Physics</i> . 87, 373 - 378 (2013).
37	S.Elangovan and S.Mullainathan "Ultrasonic Studies of Brompheniramine with 1-Butanol at 303,308 and 313K" <i>Elixir Ultrasonics</i> . 58A, 15048-15052 (2013).
38	S.Elangovan and S. Mullainathan "Ultrasonic studies of intermolecular interaction in binary mixture of n-methyl formate with 1-propanol at various temperatures". <i>Indian Journal of Physics</i> . 87(7), 659 - 664 (2013).
39	S.Elangovan and S. Mullainathan "Dielectric relaxation studies of ethyl formate with primary alcohols using Time Domain Reflectometry." <i>Material Science Research India</i> . 9, 81 - 83 (2012).
40	S.Elangovan and S. Mullainathan "Ultrasonic studies on intermolecular interaction in ternary mixtures of n-ethyl formate+1-propanol+benzene at 303K". <i>Indian Journal of Physics</i> . 86(8), 727 - 730 (2012).
41	Nedumaran D., Sivakumar R. , Sekar V., and Gayathri M.K., Speckle Noise Reduction in Ultrasound Biomedical B-Scan Images Using Discrete Topological Derivative, <i>Ultrasound in Med. & Biol.</i> , 38(2), 276-286 (2012).
42	Sivakumar R. , Gayathri M.K., and Nedumaran D., Speckle Filtering of Ultrasound B-Scan Images – A Comparative Study Between Spatial and Diffusion filter, <i>IEEE Conference on Open Systems</i> (ICOS 2010), Malaysia, 5-7 Dec. 2010, pp 80-85. ISBN: 978-1-4244-9193-3.
43	Sivakumar R. , Gayathri M.K., and Nedumaran D., Speckle Filtering of Ultrasound B-scan Images - A Comparative Study of Single Scale Spatial Adaptive Filters, Multiscale Filter and Diffusion Filters, <i>International Journal of Engineering and Technology</i> , 2 (6) 514-523 (2010).
44	Sivakumar R. , and Nedumaran D., Comparative Study of Speckle Noise Reduction of Ultrasound B-scan Images in Matrix Laboratory Environment, <i>International Journal of Computer Applications</i> , 10(9), 46-50 (2010).
45	Sivakumar R. , and Nedumaran D., Performance Study of Wavelet Denoising Techniques in Ultrasound Images, <i>Journal of Instrument Society of India</i> , 39(30), 194-196(2009).