

LIST OF PUBLICATION (2016 TO 2020)
DEPARTMENT OF PHYSICS

NO	YEAR	TITLE OF ARTICLE	TITLE OF JOURNAL
DR. M. GULAM MOHAMED			
1	2020	Trend Analysis of PM 10 Aerosol Data in A Metropolitan City in India	International Journal for Research in Engineering Application & Management (IJREAM)2454-9150 Vol-06, Issue-06, 214
2	2019	“The crystal structures and Hirshfeld surface analysis of 6-(naphthalen-1-yl) -6a-nitro -6, 6a, 6b, 7, 9, 11a-hexahydro spiro [chromeno [3',4':3,4] pyrrolo[1,2-c]-thiazole -11,11'-indeno [1,2-b] quinoxaline and 6'-(naphthalen-1-yl) -6a'-nitro-6', 6a', 6b', 7', 8', 9', 10', 12a'-octahydro -	ActaCryst. E 75 1519-1524 https://journals.iucr.org/e/issues/2019/10/00/xi2018/index.html
3	2018	Synthesis, Growth and Optical Properties of Organic Material: 2-Aminoanilinium Phosphite”,	“International Journal of Research and Analytical Reviews (IJRAR) E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 5, Issue 3.
4	2018	“Studies on the Crystal Growth, Optical and Mechanical Properties of Organic Material: Hexane 1, 6- Diaminium Hexane-1, 6-Diyl Bis (Hydrogen Phosphonate)”,	International Journal of Research and Analytical Reviews (IJRAR) E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 5, Issue3.
5	2018	“Synthesis, Growth and Optical Studies of o -Phenylenediaminium 4-Nitrobenzoate Single	International Research Journal of Engineering and Technology (IRJET)” Volume: 05 Issue: 02 Feb-2018, p-ISSN:2395-0072

		Crystal”	Page 1718 -1722.
6	2018	Growth, Optical, Thermal And Mechanical Studies Of O-Phenelyenediaminium Benzoate Single Crystal	“International Journal Of Current Engineering And Scientific Research ISSN (Print): 2393-8374, (Online): 2394-0697, Volume-5, Issue-3,
7	2018	"Growth and Characterization of an Organic NLO Single Crystal 2-Pyridylaminium P-Aminobenzoate (2PPA) for photonic applications"	“ International Journal of Research and Analytical Review (IJRAR) July 2018, volume 5, Issue 3, page 25-34, published by www.ijrar.org (E-ISSN 2348-1269, P-ISSN 2349-5138)
8	2018	"Synthesis, Growth and Characterization of Nonlinear Optical Ammonium 4-Methylbenzenesulfonate Single Crystal"	International Research Journal of Engineering and Technology, (IRJET) page 795-799 e-ISSN: 2395-0056, p-ISSN 2395-0072, volume 5, ISSUE 03,
9	2018	"Growth and Characterization of an Organic NLO Single Crystal Guanidinium Mata-Nitrobenzoate for Photonic Applications"	International Journal of Current Engineering and Scientific Research volume-5, ISSUE-3, 2018 July 2018, volume 5, Issue 3, page 25-34, published by www.ijrar.org (E-ISSN 2348-1269, P-ISSN 2349-5138)
DR. M. NIZAM MOHIDEEN			
10	2020	Investigation on structural, spectral, optical, thermal studies and third order NLO properties of guanidinium pentaborate monohydrate single.	Journal of Molecular Structure 1210, 128065. ISSN: 0022-2860
11	2019	The crystal structures and Hirshfeld surface analysis of 6- (naphthalene -1-yl)-6a-nitro-6,6a,6b,7,9,11 a-hexahydro	Acta Cryst. E75, 1519-1524.

		spiro-[chromeno[3',4':3,4] pyrrolo[1,2-c]thiazole-11,11'-indeno-[1,2-b]quinoxaline] and 6'-(naphthalen-1-yl)-6a'-nitro-6',6a', 6b',7',8',9',10',12a'-octahydro-2H-spiro [acenaphthylene-1,12_-chromeno[3,4-a]indolizin]-2-one.	ISSN: 2056-9890
12	2019	The crystal structures and Hirshfeld surface analyses of four 3,5-diacetyl-2-methyl-2,3-dihydro-1,3,4-thiadiazol-2-yl Derivatives.	ActaCryst. E75, 1436-1444. ISSN: 2056-9890
13	2019	Crystal structure and Hirshfeld surface analysis of 2-[(2-oxo-2H-chromen-4-yl)oxy]acetic acid dimethyl sulfoxidemonosolvate.	ActaCryst. E75, 1123-1127. ISSN: 2056-9890
14	2019	Crystal structures of two new isocoumarin derivatives: 8-amino-6-methyl-3,4-diphenyl-1H-isochromen-1-one and 8-amino-3,4-diethyl-6-methyl-1H-isochromen-1-one.	ActaCryst. E75, 1117-1122. ISSN: 2056-9890
15	2019	The crystal structures and Hirshfeld surface analysis of N',N'''-((1E,1'E)-{[methylenebis(oxy)]bis(6-bromo-3,1-phenylene)} bis(methanylylidene))bis(isonicotinohydrazide) dehydrate	ActaCryst. E75, 655-661. ISSN: 2056-9890

		and N',N'''-((1E,1'E)-{[butane-1,4-diylbis(oxy)] bis (2,1-phenylene)} bis (methanylylidene)) bis (isonicotinohydrazide) [+solvent].	
16	2019	The crystal structures of two new coumarin derivatives: 2-(4-{2-[(2-oxo-2H-chromen-4-yl)oxy] acetyl}piperazin-1-yl)acetamide and N-(2,4-dimethoxybenzyl)-2-[(2-oxo-2H-chromen-4-yl)-oxy]acetamide.	ActaCryst. E75, 482-488. ISSN: 2056-9890
17	2019	The crystal structures of 6'-(4-chlorophenyl)- and 6'-(4-methoxyphenyl)-6a;-nitro-6a',6b',7',9',10',12a'-hexahydro-2H,6'H,8'H-spiro[acenaphthylene-1,12'-chromeno[3,4-a] indolizin]-2-one.	ActaCryst.. E75, 218-222. ISSN: 2056-9890
18	2019	Crystal structure of 6'-(4-chlorophenyl)-6a-nitro-6a,6b,8,9,10,12a-hexahydro-6H,7H-spiro[chromeno[3,4-a] indolizine-12,11'-indeno[1,2-b] quinoxaline].	ActaCryst.. E75, 255-259. ISSN: 2056-9890
19	2019	Dipotassiumtetrahydroxidopentaoxidotetraborate monohydrate.	IUCrData4, x190128. ISSN: 2414-3146
20	2018	Synthesis, growth, structural, thermal and third order nonlinear optical properties of novel organic single	Materials Science-Poland. 36 (4), 597-608 DOI:10.2478/msp-2018-0082. ISSN: 2083-1331 e-ISSN

		crystal: 4- methylpyridinium 3-nitrophthalate.	2083-134X
21	2018	2-Fluoro-5-nitroaniline.	IUCrData. 3, x180425. ISSN: 2414-3146
22	2018	Synthesis, growth, structural, optical and electrical properties of novel organic single crystal: p-toluidinium salicylate.	Modern Electronic Materials 4(3):1-2. DOI 10.3897/j.moem.4.1.33282. ISSN: 2452-2449 eISSN: 2452-1779
23	2018	Growth, optical, thermal and mechanical studies of o-phenylenediaminium benzoate single crystal.	International journal of current engineering and scientific research (IJCESR). VOLUME-5, ISSUE-3. Pgs.2394-0697. ISSN: 2393-8374 eISSN: 2394-0697
24	2017	Growth aspects, structure determination and third order nonlinear optical properties of a novel organic material: 2-phenylethylaminium 5-sulfosalicylate.	Materials Research Innovations, 23 (2), 86-93. DOI:10.1080/14328917.2017.1391448. ISSN: 1433075X, 14328917
25	2017	Growth aspects, structural, optical, thermal and mechanical properties of benzotriazole pyridine-2-carboxylic acid single crystal.	Journal of Crystal Growth. 460, 42-47. ISSN: 0022-0248
26	2017	Synthesis, structural, optical and thermal studies on 3, 5-diethyl-2, 6-di (4-fluorophenyl)-4-oxopiperidinium chloride.	Journal of Molecular Structure. 1129, 32 - 36. ISSN: 0022-2860
27	2016	Synthesis, structural, optical and thermal studies on 3,5-diethyl-2, 6- di (4-methoxyphenyl)-4-oxopiperidinium chloride.	Journal of Molecular Structure. 1123, 238 - 244. ISSN: 0022-2860

28	2016	Synthesis, growth, structural, thermal, dielectric, linear and nonlinear optical studies of 2-amino 6methylpyridinium salicylate single crystal.	J Opt, 46 (2), 149-157. DOI 10.1007/s12596-016-0351-4, The Optical Society of India
29	2016	Crystal structure of 1,4-bis(3-ammonio propyl) piperazine-1,4-dium bis[dichromate(VI)].	ActaCryst. E72, 616-619. ISSN: 2056-9890
30	2016	Self-assembled supramolecularsynthons of 2,6Diaminopyridiniumtosylate.	J Therm Anal Calorim. 124:871-879. ISSN: 1388-6150 eISSN: 1572-8943
31	2016	Synthesis, growth and characterization of a new organic three dimensional framework: Piperazin-1-ium 4-aminobenzene sulfonate.	Journal of CrystalGrowth. 441, 18-25. ISSN: 0022-0248
32	2016	Synthesis, growth, optical, thermal and nonlinear optical studies of dimethylammonium picrate single crystal.	Optik. 127, 383-386. ISSN: 0030-4026
Dr. R. KUMAR			
33	2016	Structural analysis and investigation of molecular properties of <i>Cefpodoxime acid</i> , a third generation antibiotic	Journal of Molecular Structure 0022-2860
34	2016	Theoretical analysis of ultrasonic velocities in binary liquid mixtures of benzylamine with alicyclic and aromatic ethers at 303.15 K	International Journal of Innovative Research in Science, Eng., & Tech. 2319-8753
35	2016	Acoustical and quantum computational investigations	Journal of Molecular Liquids

	6	on the stacking phenomenon of aqueous norfloxacin antibiotic	0167-7322
36	201 6	Investigation of molecular interaction between cefpodoxime acid and human Mixtard insulin by ultrasonic and spectral methods	Journal of Pharmaceutical and Biomedical Analysis 0731-7085
37	201 6	Structural Analysis and Reactivity of Tetramethylcopper(III) Complex towards Nitrogen Donor Ligands by Density Functional Theory	Advances in Chemistry
38	201 6	Solubility study of cefpodoxime acid antibiotic in terms of free energy of solution - Insights from polarizable continuum model (PCM) analysis	Journal of Molecular Liquids 0167-7322
39	201 7	Multi-layer of Al-doped ZnO thin film photo conductor: fabrication, dark-photo current characteristics, temperature dependent conductivity and photo response studies	Journal of Materials Science: Materials Electronics 0957-4522
40	201 7	Influence of fused aromatic ring on the stability of charge transfer complex between iodine and some five membered heterocyclic molecules through ultrasonic and spectral studies	Journal of Molecular Structure 0022-2860
	201 7	Effect of Thickness on micro - structural and optical properties of Al - doped ZnOfilms prepared by Sol -	Nano Hybrids and Composites 2297-3400

		Gel spin coating	
2018		Unraveling various types of non covalent interactions of benzyl amine with ethers in n-hexane at 303.15K by ultrasonic and DFT methods	Fluid Phase Equilibria 0378-3812
2019		Structural effect on the strength of non-covalent interactions in binary mixtures of benzyl amine and certain ethers through ultrasonic, FT-IR spectral and DFT studies at 303.15 K	Journal of Molecular Liquids 0167-7322
2020		Ultrasonic and DFT studies of aliphatic amine - cyclic ether interactions in n-hexane solvent at 303.15K	Journal of Molecular Liquids 0167-7322
2020		Steric effect in the formation of hydrogen bonded complexes of isopropylamine with alicyclic ethers by ultrasonic and DFT approach	Journal of Molecular Liquids 0167-7322
Dr. D. SANKAR			
2020		Biofriendly and competent domestic microwave assisted method for the synthesis of ZnO nanoparticles from the extract of <i>Azadirachta indica</i> leaves.	Materials Today: Proceedings. ScienceDirect: Elsevier ISSN: 2214 - 7853 Peer Reviewed
2020		A perspective approach towards appreciable size and cost-effective solar cell fabrication by synthesizing ZnO nanoparticles from <i>Azadirachta indica</i> leaves extract using domestic	Journal of Material Science: Materials in Electronics - Springer Vol. 31, pp: 4301 - 4309. ISSN: 0952 - 4522. Peer Reviewed

		microwave oven.	
2020		Dielectric, Fluorescence, Filter, nano tribological and photoconductivity studies of 4-(4-chloro-phen-yl) - 7, 7 - di-methyl - 7, 8 - di-hydro - 4H - 1 - benzo-pyran - 2, 5 (3H, 6H) - dione -(CPDMDHHPHHD) macro and nano crystals	Journal of Material Science: Materials in Electronics - Springer Vol. 31, Issue: 19 pp. 16907 ISSN: 0952 - 4522
Mr. M. SHACKEERALI			
2020		Spatio temporal instability in negative index materials	Optik, 226,2, pp:165947
Dr. M. MOHAMED NASEER ALI			
2020		Ultrasonic and DFT studies of aliphatic amine“Cyclic ether interactions in n-hexane solvent at 303.15 K	Journal of Molecular Liquids 297 111906
2020		Steric effect in the formation of hydrogen bonded complexes of isopropylamine with alicyclic ethers by ultrasonic and DFT approach	Journal of Molecular Liquids 317 113910
2019		Structural effect on the strength of non-covalent interactions in binary mixtures of benzyl amine and certain ethers through ultrasonic, FT-IR spectral and	Journal of Molecular Liquids 277 865-875

		DFT studies at 303.15 K	
2019		Dielectric properties of polyvinyl alcohol (PVA) nanocomposites filled with green synthesized zinc sulphide (ZnS) nanoparticles	Journal of Materials Science: Materials in Electronics 30 5 4676-4687
2018		Unravelling various types of non-covalent interactions of benzyl amine with ethers in n-hexane at 303.15 K by ultrasonic and DFT methods	Fluid Phase Equilibria 476 139-146
DR. S. SUGARAJ SAMUEL			
2016		G. JoselineSheebaKamalini*, Samuel R. Sugaraj, D. Reuben Jonathan, B. K. Revathi and G. Usha*; (E)-4-(4-Ethoxyphenyl)but-3-en-2-one1,x160610;	IUCrData http://dx.doi.org/10.1107/S2414314616006106
2017 (90)		S. Mary Delphine, A. R. S. Janci Rani Juliet, S. Janarthanan, R. Sugaraj Samuel*, Study on growth acid (6MNA) 133-135 , spectral, optical and thermal characterization of an NLO crystal: 6-Methyl nicotinic	Journal of Optics and Laser Technology
2018		G. JoselineSheebaKamalini*, D. Reuben Jonathan, R. Sugaraj Samuel, A study on the synthesis and crystallographic characterization of an ethoxychalcone crystal	International Journal of Emerging Technology in Computer Science & Electronics (25:5), 245-247
2018		P. Suresh, R. Sugaraj Samuel,	Materials Today: Proceedings

		S. Janarthanan*, An investigation on the growth and characterization of l-tryptophan single crystal	Elsevier 2018 (5) 14225-14229
2018		A.R.S. Janci Rani Juliet, S. Mary Delphine, S. Janarthanan, R. Sugaraj Samuel*, Study on growth, spectral, optical and thermal characterization of an NLO crystal: Ammonium Citrate Dibase (ACD)	International Journal for Research in Engineering Application & Management (IJREAM), (4:7), 299-302, ISSN :2454-9150.
2019		R. Raja, A. Mohamed Hidayathullah, P.D. Helen Beulah Santhi, S. Janarthanan, R. Sugaraj Samuel*, Growth and characterization of nonlinear optical Bis-(L-Tyrosinato) Cupric acetate (BLTC) single crystals	Journal for Research in Engineering Application & Management (IJREAM), (5:1), 559-562, ISSN : 2454-9150
2019		A. Mohamed Hidayathullah, R. Raja, P.D. Helen Beulah Santhi, S. Janarthanan, R. Sugaraj Samuel*, Synthesis, Crystal Growth, Spectral, Optical and Thermal characterization of Di-(L-Serine) Phosphate monohydrate(DLSP)	Crystal, Journal for Research in Engineering Application & Management (IJREAM) (5:1), 563-566, ISSN : 2454-9150

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