

Department of Physics

2016

| Sl. no | Title of Paper | Name of the Author/s | Name of Journal | ISSN Number | Link to website of the Journal |
|--------|--|---|---|---------------------------------|---|
| 1 | Solubility study of cefpodoxime acid antibiotic in terms of free energy of solution - Insights from polarizable continuum model (PCM) analysis | V.Sathyanarayanamoorthi, S.Suganthi, V.Kannappan, R.Kumar | Journal of Molecular Liquids 0167-7322 | 0167-7322 | https://www.sciencedirect.com/journal/journal-of-molecular-liquids |
| 2 | Investigation of molecular interaction between cefpodoxime acid and human Mixtard insulin by ultrasonic and spectral methods | T.Ganesh, V.Kannappan, M.G.Mohamed Kamil, R.Kumar | Journal of Pharmaceutical and Biomedical Analysis 0731-7085 | 0731-7085 | https://www.sciencedirect.com/journal/journal-of-pharmaceutical-and-biomedical-analysis |
| 3 | Acoustical and quantum computational investigations on the stacking phenomenon of aqueous norfloxacin antibiotic | P.E.Akilandeswari, B.Gayathri, M.Panneerselvam, M.Jacob, M.G. MohamedKamil, R.Kumar | Journal of Molecular Liquids 0167-7322 | 0167-7322 | https://www.sciencedirect.com/journal/journal-of-molecular-liquids |
| 4 | Crystal structure, growth and characterizations of a novel organic third-order nonlinear optical crystal: guanidinium cinnamate | M. Dhavamurthy, R. Raja, K. Syed Suresh Babu, R. Mohan | Applied Physics-A | ISSN : 0947-8396 | https://www.springer.com/journal/339 |
| 5 | Structural Analysis and Reactivity of Tetramethylcopper(III) Complex towards Nitrogen Donor Ligands by Density Functional Theory | Perumal Balu, Venu Kannappan, R.Kumar | Advances in Chemistry | Article ID 8962695 | https://www.hindawi.com/journals/ac/ |
| 6 | Synthesis, growth, structural, thermal, dielectric, linear and nonlinear optical | S. Venda, G. Peramaiyan, M. | J Opt, 46 (2), 149-157. DOI 10.1007/s12596- | ISSN:0972-8821 Eissn: 0974-6900 | https://link.springer.com |

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| | studies of 2-amino 6methylpyridinium salicylate single crystal. | NizamMohideen, G. Vinitha, S. Srinivasan | 016-0351-4, The Optical Society of India | | |
| 7 | (E)-4-(4-Ethoxyphenyl)but-3-en-2-one, | G. Joseline Sheeba Kamalini, Samuel R. Sugaraj, D. Reuben Jonathan, B. K. Revathi and G. Usha | ICUrDara | 2414-3146 | https://iucrdata.iucr.org/x/index.html |
| 8 | Crystal structure of 1,4-bis(3-ammonio propyl) piperazine-1,4-dium bis[dichromate(VI)]. | S. Vetrivel, E. Vinoth, R. U. Mullai, R. Aruljothi, M. NizamMohideen | Acta Crystallographica Section E 72, 616–619. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 9 | Theoretical Analysis of Ultrasonic Velocities in Binary Liquid Mixtures of Benzylamine with Alicyclic and Aromatic Ethers At 303.15 K | S.G. Mohammed Hussain, R. Kumar, V. Kannappan | International Journal of Innovative Research in Science, Engineering and Technology | 2319-8753 Vol. 5 Special Issue 1 | http://www.ijirset.com/ |
| 10 | Synthesis, growth and characterization of a new organic three dimensional framework: Piperazin-1-ium 4-aminobenzene sulfonate. | P.Rekha, G.Peramaiyan, M.NizamMohideen, R.Mohan Kumar, R.Kanagadurai | Journal of CrystalGrowth. 441, 18–25. | ISSN: 0022-0248 | www.elsevier.com/locate/jcrysgr |
| 11 | Structural analysis and investigation of molecular properties of Cefpodoxime acid, a third generation antibiotic | S.Suganthi, P.Balu, V.Sathyanarayanamoorthi, V.Kannappan, M.G. MohameKamil, R.Kumar | Journal of Molecular Structure 0022-2860 | 0022-2860 | https://www.sciencedirect.com/journal/journal-of-molecular-structure |
| 12 | Self-assembled supramolecular synthons of 2,6 Diamino pyridinium tosylate. | Ro. Mu. Jauhar, P. Vivek, K. Sudhakar, S. Kalainathan, M. NizamMohideen, P. Murugakoothan | J Therm Anal Calorim. 124:871–879. | ISSN:1388-6150 eISSN: 1572-8943 | https://link.springer.com/search?query=akademai |

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| 13 | Synthesis, growth, optical, thermal and nonlinear optical studies of dimethylammonium picrate single crystal. | K.Syed SureshBabu, G.Peramaiyan, M.NizamMohideen, M.Dhavamurthy, R.Mohan | Optik. 127, 383–386. | ISSN: 0030-4026 | www.elsevier.de/ijle <u>o</u> |
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2017

| Sl. no | Title of Paper | Name of the Author/s | Name of Journal | ISSN Number | Link to website of the Journal |
|---------------|---|--|--|---------------------------------------|---|
| 1 | Growth aspects, structure determination and third order nonlinear optical properties of a novel organic material: 2-phenylethylammonium 5-sulfosalicylate. | S. Kalaiyarasi, A. Malarkodi, M. Nizam Mohideen, K. S. Joseph Wilson, R. Mohan Kumar | Materials Research Innovations, 23 (2), 86-93. DOI:10.1080/14328917.2017.1391448. | ISSN: 1433075X, 14328917 | http://www.tandfonline.com/loi/ymri20 |
| 2 | Effect of Thickness on micro – structural and optical properties of Al – doped ZnO films prepared by Sol – Gel spin coating | T. Ganesh, K. Perumal, R. Kumar, N. Bhaskar | Nano Hybrids and Composites 2297-3400 | Nano Hybrids and Composites 2297-3400 | https://www.scientific.net/NHC/Details |
| 3 | Optical and Mechanical Studies of 4-Chloro-3 Methyl-phenol Single Crystal | Syed Mohammed Mujaheer, A., Foize Ahmed, G., Sarbudeen, A. Gulam Mohammed, M. | International Journal of Engineering Research & Technology (IJERT) | ISSN: 2278-0181 | https://www.ijert.org/ |
| 4 | Investigations on the Growth and Characterization of an Organic NLO Single Crystal 1-Amino 3-Nitrobenzene for Photonic Applications | Sarbudeen, A., Syed Mohammed Mujaheer, A., Foize Ahmad, G., Gulam Mohammed, M | “International Journal of Engineering Research & Technology (IJERT) | ISSN: 2278-0181 | https://www.ijert.org/ |
| 5 | 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 | V. Ulagendran, P. Balu, V. Kannappan, R. Kumar, S. Jayakumar | Journal of Molecular Structure 0022-2860 | 0022-2860 | https://www.sciencedirect.com/journal/journal-of-molecular-structure |
| 6 | Multi-layer of Al-doped ZnO thin film photo conductor: fabrication, dark-photo current characteristics, temperature dependent conductivity and photo response studies | T. Ganesh, M. SivaKumar, R. Kumar, R. Mohan Kumar | Journal of Materials Science: Materials in Electronics 0957-4522 | 0957-4522 | https://www.springer.com/journal/10854 |

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|----|--|--|--|---------------------|---|
| 7 | Growth aspects, structural, optical, thermal and mechanical properties of benzotriazole pyridine-2-carboxylic acid single crystal. | A.Thirunavukkarsua, T.Sujatha, P.R.Umarani, M.Nizam Mohideen, A.Silambarasan, R. MohanKumar | Journal of Crystal Growth. 460, 42–47. | ISSN: 0022- 0248 | www.elsevier.com/locate/jcrysgro |
| 8 | Study on growth, spectral, optical and thermal characterization of an NLO crystal: 6-Methyl nicotinic acid (6MNA) | S. Mary Delphine, A. R. S. Janci Rani Juliet, S. Janarthanan, R. Sugaraj Samuel | Optics and Laser Technology | 0030-3992 | https://www.journals.elsevier.com/optics-and-laser-technology |
| 9 | Synthesis, structural, optical and thermal studies on 3, 5-diethyl-2, 6-di (4-fluorophenyl)-4-oxopiperidinium chloride. | V. Yuvaraj, M.NizamMohideen, M.Arockia doss, G.Rajarajan, S.Savithiri, P.Murugakoothan | Journal of Molecular Structure. 1129, 32 – 36. | ISSN: 0022- 2860 | http://www.elsevier.com/locate/molstruc |
| 10 | Synthesis, structural, optical and thermal studies on 3, 5-diethyl-2, 6-di (4-fluorophenyl)-4-oxopiperidinium chloride. | V. Yuvaraj, M.NizamMohideen, M.Arockia doss, G.Rajarajan, S.Savithiri, P.Murugakoothan | Journal of Molecular Structure. 1129, 32 – 36. | ISSN: 0022- 2860 | http://www.elsevier.com/locate/molstruc |

2018

| Sl. no | Title of Paper | Name of the Author/s | Name of Journal | ISSN Number | Link to website of the Journal |
|--------|--|---|--|--|---|
| 1 | Unravelling various types of non-covalent interactions of benzyl amine with ethers in n-hexane at 303.15K by ultrasonic and DFT methods | S.G.Mohammed Hussain, R.Kumar, M.Mohamed Naseer Ali, B.Shanmugapriyan, V.Kannappan | Fluid Phase Equilibria | 0378-3812 | https://www.sciencedirect.com/journal/fluid-phase-equilibria |
| 2 | Synthesis, Growth and Characterization of Nonlinear optical Ammonium 4-Methylbenzenesulfonate single crystal | A. Sarbudeen, I. Md. Zahid, G. Foize Ahmad, M. Gulam Mohamed | International Research Journal of Engineering and Technology | e-ISSN: 2395-0056 | https://www.irjet.net/ |
| 3 | A study on the synthesis and crystallographic characterization of an ethoxychalcone crystal, | G. Joseline Sheeba Kamalini*, D. Reuben Jonathan, R. Sugaraj Samuel | International Journal of Emerging Technology in Computer Science & Electronics | 0976-1353 | https://www.ijetcse.com/ |
| 4 | “Studies on the Crystal Growth, Optical and Mechanical Properties of Organic Material: Hexane 1, 6- Diaminium Hexane-1, 6-Diyl Bis (Hydrogen Phosphonate)” | Foize Ahmad, G., Syed Mohammed Majaheer, A., Md. Zahid, I., Gulam Mohamed, M. | International Journal of Research and Analytical Reviews (IJRAR), | E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 5, Issue3. | https://www.ijrar.org/ |
| 5 | Growth and characterization of Organic NLO Single Crystal 2-Pyridylaminium P-Aminobenzoate (2PPA) for photonic applications" | A. Sarbudeen, G.Foize Ahmad, I.Md. Zahid, A.Syed Mohammed Majaheer, M.Gulam Mohamed | IJRAR | E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 5, Issue3. | www.ijrar.org |
| 6 | “Synthesis, Growth and Optical Properties of Organic Material: 2-Aminoanilinium Phosphite”, | Gulam Mohamed, M., Foize Ahmad, G., Md. Zahid, I., Syed | International Journal of Research and Analytical Reviews | E-ISSN 2348-1269, P- ISSN 2349-5138, | https://www.ijrar.org/ |

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| | | Mohammed Mujaheer, A., Sarbudeen, A., | | Volume 5, Issue3. | |
| 7 | “Synthesis, Growth and Optical Studies of o-Phenylenediaminium 4-Nitrobenzoate Single Crystal | Syed Mohammed Mujaheer, A., Md. Zahid, I., Foize Ahmad, G., Gulam Mohamed, M., | International Research Journal of Engineering and Technology (IRJET) | e-ISSN: 2395-0056 , 05, 2395-0072, 1718 -1722. | https://www.irjet.net/ |
| 8 | Growth, Optical, Thermal and Mechanical Studies Of O-Phenelyenediaminium Benzoate Single Crystal | Syed Mohammed Mujaheer, A., Foize Ahmad, G., NizamMohideen, M., Md. Zahid, I. Gulam Mohamed, M., | International Journal Of Current Engineering And Scientific Research (IJCES) | ISSN (Print): 2393-8374, (Online): 2394-0697, Volume 5, Issue3. | http://troindia.in/journal/ijcesr/index.html |
| 9 | Synthesis, growth, structural, thermal and third order nonlinear optical properties of novel organic single crystal: 4-methylpyridinium 3-nitrophthalate. | S. Reena Devi, S. Suresh, S. Kalaiyarasi, M. Nizamohideen, R. Mohan Kumar | MaterialsScience-Poland. 36 (4), 597-608 | ISSN: 2083-1331 e-ISSN 2083-134X | http://www.materialscience.pwr.wroc.pl/ |
| 10 | 2-Fluoro-5-nitroaniline. | K. Moorthy, M. NizamMohideen, S. Vetrivel, E. Vinothd A. Arunb | IUCrData. 3, | ISSN: 2414-3146 Volume 3, Part 3, x180425. | https://iucrdata.iucr.org/ |
| 11 | Synthesis, growth, structural, optical and electrical properties of novel organic single crystal: p-toluidinium salicylate. | Shanmugam Suresh, M. Nizam Mohideen, G. Vinitha, R. Mohan Kumar | Modern Electronic Materials 4(3):1–2. | ISSN 2452-1779 (online) ISSN 2452-2449 (print) | https://moem.pensoft.net/ |
| 12 | "Synthesis, Growth and Characterization of Nonlinear Optical Ammonium 4- | A. Sarbudeen, I. Md. Zahid, G. Foize Ahmad, M. Gulam Mohamed | International Research Journal of Engineering and Technology, (IRJET)page 795-799e- | 2395-0056, | https://www.irjet.net/ |

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| | Methylbenzenesulfonate Single Crystal" | | ISSN: 2395-0056, p- ISSN 2395-0072, volume 5, ISSUE 03, | | |
| 13 | "Growth and Characterization of an Organic NLO Single Crystal Guanidinium Meta-Nitrobenzoate for Photonic Applications" | A. Sarbudeen, I. Mohammed Zahid, G. Foize Ahmad, M. Gulam Mohammed | International Journal of Current Engineering and Scientific Research volume-5 | ISSN (Print): 2393-8374, (Online): 2394-0697, 5, 3. | http://troindia.in/journal/ijcesr/index.html |
| 14 | Study on growth, spectral, optical and thermal characterization of an NLO crystal: Ammonium Citrate Dibase (ACD) | A.R.S. Janci Rani Juliet, S. Mary Delphine, S. Janarthanan, R. Sugaraj Samuel | International Journal for Research in Engineering Application & Management | 2454-9150 | https://ijream.org/ |
| 15 | An investigation on the growth and characterization of l-tryptophan single crystal | P. Suresh, R. Sugaraj Samuel, S. Janarthanan | Materials Today: Proceedings Elsevier | 2214-7853 | www.materialstoday.com |

2019

| Sl. no | Title of Paper | Name of the Author/s | Name of Journal | ISSN Number | Link to website of the Journal |
|--------|--|---|--|-----------------|---|
| 1 | Structural, optical and magnetic behaviour of cobalt and ferrous doped zinc stannate nanoparticles synthesized by hydrothermal method | L. Allwin Joseph, R. Ragu, M. Akilan, J. Emima Jeronsia, J. Prince Joshua | Applied physics A – Materials science & processing | 1432-0630 | https://www.springer.com/journal/339 |
| 2 | The crystal structures and Hirshfeld surface analysis of 6-(naphthalene-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-2H-spiro[acenaphthylene-1,12'-chromeno[3,4-a]indolizin]-2-one. | G. Foize Ahmad, A. Syed Mohammed Mujaheer, M. NizamMohideen, M. Gulam Mohamed, V. Viswanathan | Acta Cryst. E75, 1519–1524. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 3 | Studies on the third order nonlinear optical properties of a novel | C. Amirthakumar, B. Valarmathi, I. Md. Zahid, G. Vinitha, V. Seetharaman | Material Letters | 0167-577X | https://www.journals.elsevier.com/materials-letters |
| 4 | 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 303.15K | S.G.Mohammed Hussain, R.Kumar, M.Mohamed Naseer Ali, V.Kannappan | Journal of Molecular Liquids | 0167-7322 | https://www.sciencedirect.com/journal/journal-of-molecular-liquids |
| 5 | 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. | S. Syed Abuthahir, M. NizamMohideen, V. Viswanathan, D. Velmurugan, J. Nagasivaraod | Acta Cryst.. E75, 218–222. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |

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| 6 | 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]. | S. Syed Abuthahir, M. NizamMohideen, V. Viswanathan, D. Velmurugan, J. Nagasivarao | Acta Cryst.. E75, 255–259. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 7 | Dipotassium tetrahydroxidopentaoxidotetraborate monohydrate. | M. K. Dhatchaiyini, M. NizamMohideen, G. Rajasekar, A. Bhaskaran | IUCrData 4, x190128. | ISSN: 2414-3146 | https://iucrdata.iucr.org/x/ |
| 8 | 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. | S. Syed Abuthahir, M. NizamMohideen, V. Viswanathan, M. Govindhan, K. Subramaniam | Acta Cryst. E75, 482–488. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 9 | 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 and N',N'''-((1E,1'E)-{[butane-1,4-diylbis(oxy)] bis (2,1-phenylene)} bis (methanylylidene)) bis (isonicotinohydrazide) [+solvent]. | S. Syed Abuthahir, M. NizamMohideen, V. Viswanathan, Tamilselvan Abiraman, Sengottuvelan Balasubramanian | Acta Cryst. E75, 655–661. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 10 | Growth and characterization of nonlinear optical Bis-(L-Tyrosinato) Cupric acetate (BLTC) single crystals | R. Raja, A. Mohamed Hidayathullah, P.D. Helen Beulah Santhi, S. Janarthanan, R. Sugaraj Samuel | International Journal for Research in Engineering Application & Management | 2454-9150 | https://ijream.org/ |
| 11 | Synthesis, Crystal Growth, Spectral, Optical and Thermal characterization of Di-(L-Serine) Phosphate monohydrate(DLSP) Crystal | A. Mohamed Hidayathullah, R. Raja, P.D. Helen Beulah | International Journal for Research in Engineering | 2454-9150 | https://ijream.org/ |

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| | | Santhi, S. Janarthanan, R. Sugaraj Samuel | Application & Management | | |
| 12 | Spatio-temporal instability in negative index materials | M. Shackeerali, A.K. Shafeeque Ali, A. Uthayakumar. | Optik-International journal for light and electron optics | 0030-4026 | https://www.sciencedirect.com/journal/optik |
| 13 | Crystal structure and Hirshfeld surface analysis of 2-[(2-oxo-2H- chromen-4-yl)oxy]acetic acid dimethyl sulfoxide monosolvate. | S. Syed Abuthahir, M. NizamMohideen, V. Viswanathan, M. Govindhan, K. Subramanian | Acta Cryst. E75, 1123–1127. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 14 | 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. | S. Syed Abuthahir, M. NizamMohideen, S. Mayakrishnan, N. Uma Maheswari, V. Viswanathan | Acta Cryst. E75, 1117–1122. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 15 | The crystal structures and Hirshfeld surface analyses of four 3,5-diacetyl-2-methyl-2,3-dihydro-1,3,4-thiadiazol-2-yl Derivatives. | M. NizamMohideen, S. Syed Abuthahir, V. Viswanathan, D. VelmuruganM. Karthik Ananth | Acta Cryst. E75, 1436–1444. | ISSN: 2056-9890 | https://journals.iucr.org/e/ |
| 16 | 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 -2h-spiro [acenaphthylene-1, 12'- chromeno [3, 4-a] indolizin] -2-one | G. Foize Ahmad, A. Syed Mohammed Mujaheer, M. NizamMohideen, M. Gulam Mohamed, V. Viswanathan | Acta Cryst. E 75 1519–1524 | 519–1524 | https://journals.iucr.org/e/ |
| 17 | Ultrasonic and DFT studies of aliphatic amine – Cyclic ether interactions in n-hexane solvent at 303.15K | S G Mohammed Hussain,R. Kumar,Mohamed | Journal of Molecular Liquids | 0167-7322 | https://www.sciencedirect.com/science/article/abs/pii/S0167732 |

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| | | Naseer ali Mohamed,B. Shanmugapriyan, V. KannappanV. Kannappan | | | 219347105?via%3Dhub |
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2020

| Sl. no | Title of Paper | Name of the Author/s | Name of Journal | ISSN Number | Link to website of the Journal |
|--------|---|--|---|-------------|---|
| 1 | Synthesis, growth and characterization of 2, 5-Dimethyl-N- (3-phenylprop-2-en-1-ylidene) Aniline (2, 5 DPPA) single crystal: A new second order nonlinear optical material for photonic and optoelectronic applications | R.Sathishkumar, K.SenthilKannanb, .J.Magesh, K.Venkatapathy, M.Vimalan, D.Sankar, S.Tamilselvana | Optik - ScienceDirect: Elsevier | 0030 - 4026 | https://www.journals.elsevier.com/optik |
| 2 | Dielectric, Fluorescence, Filter, nano tribological and photoconductivity studies of 4-(4 - chlorophenyl) - 7, 7 - dimethyl -7, 8 - dihydro – 4H - 1 - benzopyran - 2, 5 (3H, 6H) - dione macro and nano crystals | M. Kolanjinathan, K. SenthilKannan, D. Sankar, P. Periyathambi, M. Iyanar, S. Gunasekaran, P. Baskaran, M. Meena, M. Vimalan | Journal of Material Science: Materials in Electronics - Springer Nature | 0952 - 4522 | https://www.springer.com/journal/10854 |
| 3 | Steric effect in the formation of hydrogen bonded complexes of isopropylamine with alicyclic ethers by ultrasonic and DFT approach | S.G. MohammedHussain, R.Kumar, M. Mohamed NaseerAli, V.Kannappanb | Journal of Molecular Liquids 0167-7322 | 0167-7322 | https://www.sciencedirect.com/journal/journal-of-molecular-liquids |
| 4 | Synthesis, characterization, photocatalytic effect of thiourea and thioglycolic acid on ZnO/CuS nanocomposites for degradation of Mordant black 11 dye | S. Sharon Tamil Selvi, G. Hannah Priya .A. Alinda Shaly , L. Allwin Joseph ,J. Mary Linet | Applied physics A – Materials science & processing | 1432-0630 | https://www.springer.com/journal/339 |
| 5 | Biofriendly and competent domestic microwave assisted method for the synthesis of ZnO nanoparticles from the extract of Azadirachta indica leaves | P.Saravanan, K.SenthilKannan, M.Vimalan, | Materials Today: Proceedings - ScienceDirect: Elsevier | 2214 - 7853 | https://www.journals.elsevier.com/materials-today-proceedings |

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| | | S.Tamilselvan, D.Sankar | | | |
| 6 | A perspective approach towards appreciable size and cost effective solar cell fabrication by synthesizing ZnO nanoparticles from Azadirachta indica leaves extract using domestic microwave oven | P. Saravanan, K. SenthilKannan, R. Divya, M. Vimalan, S. Tamilselvan, D. Sankar | Journal of Material Science: Materials in Electronics - Springer Nature | 0952 - 4522 | https://www.springer.com/journal/10854 |
| 7 | Hydrothermal synthesis and characterization studies of α -Fe ₂ O ₃ /MnO ₂ nanocomposites for energy storage supercapacitor application | Mohamed Racik K, A.Manikandan, M.Mahendiran, J.Madhavan, M.Victor Antony Raja, M. GulamMohamed, T.Maiyalagan | Ceramics International | 6222-6233 | https://www.sciencedirect.com/journal/ceramics-international |
| 8 | Trend Analysis of PM 10 Aerosol Data in A Metropolitan City in India | Shaik Najma Nikkath, M. Gulam Mohamed | International Journal for Research in Engineering Application & Management (IJREAM)2454-9150 Vol-06, Issue-06, 214 | 214-217 | https://www.ijream.org/IJREAM_V06I06.html |
| 9 | Ultrasonic and DFT studies of aliphatic amine – cyclic ether interactions in n-hexane solvent at 303.15K | S.G. MohamedHussain, R.Kumar, M. Mohamed NaseerAli, B.Shanmugapriyan, V.K annappan | Journal of Molecular Liquids 0167-7322 | 0167-7322 | https://www.sciencedirect.com/journal/journal-of-molecular-liquids |
| 10 | Investigation on structural, spectral, optical, thermal studies and third order NLO properties of guanidinium pentaborate monohydrate single. | DhatchaiyiniM.K, Rajasekar.G, NizamMohideen.M, Bhaskaran.A | Journal of Molecular Structure 1210, 128065. | ISSN: 0022-2860 | http://www.elsevier.com/locate/molstruc |

2021

| Sl. no | Title of Paper | Name of the Author/s | Name of Journal | ISSN Number | Link to website of the Journal |
|--------|---|--|---|-----------------|---|
| 1 | Synthesis, crystal structure, DFT, docking and biological activity studies of (NZ,N'Z)-3,3'-(piperazine-1,4-diyl)bis(N-(4-methylbenzylidene)propane-1-amine) | V.Sriraman, E.Vinoth, M. NizamMohiden, P.K.M.Imran,A.Aru | Materials Chemistry and Physics | 0254-0584 | https://www.journals.elsevier.com/materials-chemistry-and-physics |
| 2 | Study on cynodon dactylon (L. Pers.:) - Medicinal Plant | M. Anees Ahmed, S. Jayakumar , N. Dharani Rajan, G.M. Rajesh,G.S. Gayathri, P. Sylaja ,K. Rajagopal5 | International Journal of multidisciplinary educational research | 2277-7881 | http://ijmer.in/issues/volume10/volume10-issue3(5).aspx |
| 3 | Spectroscopic Investigations of stevia rebaudiana - Medicinal Plant | M. Anees Ahmed, S.Jayakumar, G.M.Rajesh, N. Dharani Rajan, G.S.Gayathri, P.Sylaja | International Journal of multidisciplinary educational research | 2277-7881 | http://ijmer.in/issues/volume10/volume10-issue3(1).aspx |
| 4 | Crystal structure, physico-chemical and third order nonlinear traits of the novel (2E)-1-(3,4-dimethoxyphenyl)-3-(4-propoxyphenyl) prop-2-en-1-one (DMPP) chalcone single crystal | T. HannahClara, D. ReubenJonathan, R.Ragu, M.NizamMohideen, Johanan ChristianPrasanaa | Journal of Solid State Chemistry 302 (2021) 122382 | ISSN: 0022-4596 | www.elsevier.com/locate/jssc |
| 5 | Effect of Pore Connectivity on the Behavior of Fluids Confined in Sub-Nanometer Pores: Ethane and CO 2 Confined in ZSM-22 | Mohammed Musthafa Kummali, David Cole, Siddharth Gautam | Membranes | 2077-0375 | https://www.mdpi.com/journal/membranes |
| 6 | Exploring the Outcomes of Sulphur Sources on ZnO/CdS Nanocomposites Towards Photocatalytic Degradation of Mordant Black 11 Dye | Sharon Tamil Selvi, G. Hannah Priya, R. Ragu, D. Ancelia, L. Allwin Joseph, J. Mary Linet | Journal of cluster science | 1040 -7278 | https://www.springer.com/journal/10876 |

