



**Kalaingar Karunanidhi Government Arts College for Women (Autonomous)**

**(Nationally Re-accredited with B<sup>++</sup> Grade by NAAC 3<sup>rd</sup> Cycle)**

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**Papers Published in UGC CARE Journals during the last five years**

**Department of Physics**

Title of Paper	Name of the author/s	Name of Journal		
			Link to article/paper /abstract of the article	Is it listed in UGC Care list
<b>2022-2023</b>				
3-D Supramolecular, quantum computational, and vibrational spectroscopic investigation on L-cysteinium methanesulfonate single crystals.	R. Santhakumari, Is Fathima, Suresh agadevan, P. Koteeswari, Solhe F. Alshahateet,	Molecular Crystals and Liquid Crystals	<a href="http://dx.doi.org/10.1080/15421406.2023.2171558">http://dx.doi.org/10.1080/15421406.2023.2171558</a>	WEB OF SCIENCE
Growth, spectroscopic and Hirshfeld surface analysis on pyridine urea single crystal	G. Amudha, R. Santhakumari, N. Rajeswari, S. Mugeshini, D. Chandrika, Suresh Sagadevan	Chinese Journal of Physics	<a href="https://doi.org/10.1016/j.molstruc.2022.132606">https://doi.org/10.1016/j.molstruc.2022.132606</a>	WEB OF SCIENCE
Growth, computational studies and docking analysis on $\alpha$ -pyrrolidinopentiophenone hydrochloride monohydrate single crystal.	S. Mugeshini, R. Santhakumari, N. Rajeswari, G. Amudha, D. Chandrika	Journal of Molecular Structure	<a href="https://doi.org/10.1016/j.molstruc.2021.131600">https://doi.org/10.1016/j.molstruc.2021.131600</a>	WEB OF SCIENCE
<b>2021-2022</b>				

Solanum torvum mediated synthesis and characterization of silver nanoparticles for antibacterial activities	Mrs. R. Renuka R. Renuka Devi, K. Sivakami, T. Thilkagavathi	Journal of Plant Biochemistry and Biotechnology	<a href="https://doi.org/10.1007/s13562-021-00650-8">https://doi.org/10.1007/s13562-021-00650-8</a>	WEB OF SCIENCE
Ultrasonic acoustical assessment of molecular interaction in different soil texture and moisture absorbent growing media	A. Dhanalakshmi Karthikeyani Vijayakumari, Marimuthu Suaiyan, Surendran Udayar Pillai	Arabian Journal of Geosciences	<a href="http://dx.doi.org/10.1007/s12517-021-06720-4">http://dx.doi.org/10.1007/s12517-021-06720-4</a>	UGC CARE
Characterization of CeO <sub>2</sub> – NiO Thin film Produced by Jet Neuliser Technique	M. Ragamathunnisa	International Journal of Nanobiotechnology	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=en&amp;user=VSZCe4YAAAAJ&amp;citation_for_view=VSZCe4YAAAAJ:LkGwnXOMwfcC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=en&amp;user=VSZCe4YAAAAJ&amp;citation_for_view=VSZCe4YAAAAJ:LkGwnXOMwfcC</a>	SCOPUS
Synthesis , growth and computational studies on Vanillin nicotinamide single crystal	M.Bhuvaneshwari R. R. Santhakumari, R. Jayasree, Suresh Sagadevan	Applied Physics A	<a href="https://doi.org/10.1007/s00339-021-04691-7">https://doi.org/10.1007/s00339-021-04691-7</a>	WEB OF SCIENCE
Growth and computational studies on vanillin isoniazid single crystals	S. Mugeshini R,Santhakumari, N. Rajeswari,G. Amudha ,D. Chandrika, Suresh Sagadevan	Chinese Journal of Physics	<a href="https://doi.org/10.1016/j.cjph.2021.04.025">https://doi.org/10.1016/j.cjph.2021.04.025</a>	WEB OF SCIENCE
Synthesis, growth, crystal structure, vibrational, DFT and HOMO, LUMO analysis on protonated molecule-4-aminopyridinium nicotinate	R. Vasanthakumari R,Santhakumari, N. Rajeswari,Suresh Sagadevan, S. Mugeshini	Journal of Molecular Structure	<a href="https://doi.org/10.1016/j.molstruc.2021.130449">https://doi.org/10.1016/j.molstruc.2021.130449</a>	WEB OF SCIENCE

Synthesis and Characterization of Bi <sub>2</sub> O <sub>3</sub> NPS and Photocatalytic Application with Methylene Blue	M. Ragamathunnisa	Research Square	<a href="https://chalcogen.ro/95_AliFS.pdf">https://chalcogen.ro/95_AliFS.pdf</a>	UGC CARE
Synthesis, growth, spectral and computational studies on aminomethylpyridinium trichloroacetate single crystal	N. Rajeswari R,Santhakumari, S. Mugeshini ,D. Chandrika, Suresh Sagadevan	Chinese Journal of Physics	<a href="https://doi.org/10.1016/j.cjph.2021.08.010">https://doi.org/10.1016/j.cjph.2021.08.010</a>	WEB OF SCIENCE
Synthesis, growth, structural, spectroscopic, optical, thermal, DFT, HOMO–LUMO, MEP, NBO analysis and thermodynamic properties of vanillin isonicotinic hydrazide single crystal	M.Bhuvaneshwari R. Santhakumari, C. Usha, R. Jayasree, Suresh Sagadevan	Journal of Molecular Structure	<a href="https://doi.org/10.1016/j.molstruc.2021.130856">https://doi.org/10.1016/j.molstruc.2021.130856</a>	WEB OF SCIENCE
Synthesis, growth, DFT, and HOMO-LUMO studies on pyrazolemethoxy benzaldehyde crystals	G.Amudha R,Santhakumari, N. Rajeswari,S. Mugeshini,D. Chandrika, Suresh Sagadevan	Chinese Journal of Physics	<a href="http://dx.doi.org/10.1016/j.cjph.2021.10.038">http://dx.doi.org/10.1016/j.cjph.2021.10.038</a>	WEB OF SCIENCE
<b>2020-2021</b>				
Biosynthesis of silver nanoparticles using <i>phylanthusemblica</i> fruit extract for antimicrobial activities.	Dr. K. Renuka Devi R. Renuka , K. Renuka Devi , M. Sivakami ,	Biocatalysis and Agricultural Biotechnology	<a href="https://doi.org/10.1016/j.bcab.2020.101567">https://doi.org/10.1016/j.bcab.2020.101567</a>	WeWEB OF SCIENCE
Biosynthesis of Zn doped AgTe with the help of Allium Sativum peel powder for Bacterial Results	Dr.M. Ragamathunnisa	European Journal of Medicinal Plants	<a href="http://dx.doi.org/10.9734/EJMP/2019/v30i430194">http://dx.doi.org/10.9734/EJMP/2019/v30i430194</a>	UGC CARE
<b>2018-2019</b>				

Enhancement of Detergent Action of ammonium lauryl sulphate (ALS) by sodium silicate	Dr. K. Renuka Devi J. Benazir Jiya, K. Renuka Devi, R. Seema, P. Seethalakshmi	International Journal of Research and Analytical Reviews (IJRAR)	<a href="https://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_930_19_26.pdf">https://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_930_19_26.pdf</a>	UGC CARE
Thermodynamic and surface studies of urea in aqueous triton X – 100 solution in the presence of ultrasonic at different temperature	Dr. K. Renuka Devi J. Benazir Jiya, K. Renuka Devi	International Journal of Research and Analytical Reviews (IJRAR)	--	UGC CARE
Acoustic and Thermodynamic parameters of neem oil in aqueous sodium dodecyl sulfate at different temperatures	Dr. K. Renuka Devi J. Benazir Jiya, K. Renuka Devi, R. Seema, P. Seethalakshmi	International Journal of Research and Analytical Reviews (IJRAR)	<a href="https://www.ijtsrd.com/physics/other/7023/solvation-study-of-neem-oil-in-aqueous-sodium-dodecyl-sulphate-at-different-temperatures/p-seethalakshmi">https://www.ijtsrd.com/physics/other/7023/solvation-study-of-neem-oil-in-aqueous-sodium-dodecyl-sulphate-at-different-temperatures/p-seethalakshmi</a>	UGC CARE
Spectral analysis, investigation of global reactivity, NBO and computation of thermodynamic functions of 1,2,4 benzene tricarboxylic acid using DFT calculations	Dr. A. Janaki	Journal of Applied Science and Computations	<a href="https://scholar.google.co.in/citations?view_op=view_citation&amp;hl=en&amp;user=xE7vsHoAAAAJ&amp;citation_for_view=xE7vsHoAAAAJ:W7OEmFMy1HYC">https://scholar.google.co.in/citations?view_op=view_citation&amp;hl=en&amp;user=xE7vsHoAAAAJ&amp;citation_for_view=xE7vsHoAAAAJ:W7OEmFMy1HYC</a>	UGC CARE
Ultrasonic studies on solvation parameters of urea in aqueous triton – 100 at 303K, 308K and 313K	Dr. K. Renuka Devi	International Journal of Advanced Scientific Research Management (IJASRM)	<a href="https://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_932_12_18.pdf">https://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_932_12_18.pdf</a>	UGC CARE
The surface and soil properties of azadirachtaindica oil in sodium dodecyl sulfate	Dr. K. Renuka Devi J. Benazir Jiya, Seema, P. Seethalakshmi	International Journal of Advanced Scientific Research Management (IJASRM)	<a href="http://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_921_52_57.pdf">http://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_921_52_57.pdf</a>	UGC CARE

Acoustic and thermodynamics properties of sodium silicate in aqueous ammonium lauryl sulphate by ultrasonic studies	Dr. K. Renuka Devi J. Benazir Jiya, Seema, P. Seethalakshmi	International Journal of Advanced Scientific Research Management (IJASRM)	<a href="https://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_930_19_26.pdf">https://ijasrm.com/wp-content/uploads/2018/11/IJASRM_V3S10_930_19_26.pdf</a>	UGC CARE
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