

3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years (5)

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	ent of the Journal /Digital Object Identifier (doi) number		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of
<b>2016-17</b>								
1. Carbon Sequestration Potential and Edaphic Properties Along the Plantation Age of Rubber in Tripura, Northeastern India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Current World Environment 11 (3), 756	2016	EISSN: 2320-8031	<a href="http://www.cwejournal.org/">http://www.cwejournal.org/</a>	<a href="http://dx.doi.org/10.12944/CWE.11.3.10">DOI:http://dx.doi.org/10.12944/CWE.11.3.10</a>	UGC CARE-SCIENCE
2. Above ground woody biomass, carbon stocks potential in selected tropical forest patches of Tripura, Northeast India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Open Journal of Ecology 6 (10), 598	2016	ISSN Print: 2162-1965 ISSN Online: 2162-1993	<a href="https://www.scirp.org/journal/open.aspx?PaperID=70814&amp;#abstract">https://www.scirp.org/journal/open.aspx?PaperID=70814&amp;#abstract</a>	<a href="https://www.scirp.org/journal/PaperInformation.aspx?PaperID=70814&amp;#abstract">https://www.scirp.org/journal/PaperInformation.aspx?PaperID=70814&amp;#abstract</a>	Group-II (Web of Science)
3. Effects of Land Use on the Soil Organic Carbon Storage Potentiality and Edaphic Factors in Tripura, Northeast India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	American Journal of Climate Change 5 (5), 417-429	2016	Issn Print: 2167-9495 Issn Online: 2167-9495	<a href="https://www.scirp.org/journal/journalarticles.aspx?journalid=1304">https://www.scirp.org/journal/journalarticles.aspx?journalid=1304</a>	<a href="https://www.scirp.org/journal/paperinformation.aspx?paperid=70585">https://www.scirp.org/journal/paperinformation.aspx?paperid=70585</a>	
4. Applications of Remote Sensing and GIS in Conservation of Resources	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Remote Sensing & GIS Applications in Environmental Sciences 6 (38), 11	2016				

5. Changes of woody species diversity, horizontal and vertical distribution of stems across interior to outside within a primate rich habitat of Northeast India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Journal of Forestry Research 27 (3), not assigned	2016	Issn:1993-0607	<a href="https://www.springer.com/journal/11676/">https://www.springer.com/journal/11676/</a>	<a href="https://www.researchgate.net/publication/305424693_Changes_of_woody_species_diversity_horizontal_and_vertical_distribution_of_stems_across_interior_to_outside_within_a_primate_rich_habitat_of_Northeast_India">https://www.researchgate.net/publication/305424693_Changes_of_woody_species_diversity_horizontal_and_vertical_distribution_of_stems_across_interior_to_outside_within_a_primate_rich_habitat_of_Northeast_India</a>	Group-II (Web of Science)
6. pH induced interaction of DPPC with a fluorescent dye in Langmuir and Langmuir Blodgett (LB) films.	Dr. Soma Banik	Department of Physics	Molecular Crystals And Liquid Crystals, Taylor & Francis 643 (2017) 255-265	2017	Issn:1542-1406	<a href="https://www.tandfonline.com/">https://www.tandfonline.com/</a>	<a href="https://doi.org/10.1080/15421406.2016.1263103">https://doi.org/10.1080/15421406.2016.1263103</a>	Group-II (Web of Science)
7.FP-LAPW methodology based theoretical investigation of structural, electronic and optical properties of $Mg_xPb_{1-x}S$ , $Mg_xPb_{1-x}Se$ and $Mg_xPb_{1-x}Te$ ternary alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Physics and Chemistry of Solids 100, 57-70	2017	Issn: 0022-3697	<a href="https://www.journals.elsevier.com/journal-of-physics-and-chemistry-of-solids">https://www.journals.elsevier.com/journal-of-physics-and-chemistry-of-solids</a>	<a href="http://dx.doi.org/10.1016%2Fj.jpcs.2016.09.005">http://dx.doi.org/10.1016%2Fj.jpcs.2016.09.005</a>	Group-II (Web of Science)

8. DFT based FP-LAPW investigation of structural, electronic and optical properties of $Sr_xPb_{1-x}S$ , $Sr_xPb_{1-x}Se$ and $Sr_xPb_{1-x}Te$ ternary alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Alloys and Compounds 698, 868-882,	2017	Issn: 0925-8388	<a href="https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds">https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds</a>	<a href="https://doi.org/10.1016/j.jallcom.2016.12.182">https://doi.org/10.1016/j.jallcom.2016.12.182</a>	Group-II (Web of Science)
9. Theoretical study of structural, electronic and optical properties of $Ba_xPb_{1-x}S$ , $Ba_xPb_{1-x}Se$ and $Ba_xPb_{1-x}Te$ ternary alloys using FP-LAPW approach	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Alloys and Compounds 694, 1348-1364	2017	Issn: 0925-8388	<a href="https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds">https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds</a>	<a href="https://doi.org/10.1016/j.jallcom.2016.10.096">https://doi.org/10.1016/j.jallcom.2016.10.096</a>	Group-II (Web of Science)
10. Stability of J-aggregated species in an indocarbocyanine dye in Langmuir–Blodgett Films	Dr. Subrata Deb	Department of Physics	Journal of Luminescence , Volume 179, 287-296	2017	0022-2313 / 1872-7883	<a href="https://www.sciencedirect.com/journal/journal-of-luminescence">https://www.sciencedirect.com/journal/journal-of-luminescence</a>	<a href="https://doi.org/10.1016/j.jlumin.2016.07.027">https://doi.org/10.1016/j.jlumin.2016.07.027</a>	

11. Comparisons between intragastric and small intestinal delivery of corresponding nutrition in the critically ill: a comprehensive approach and meta-analysis	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Scientific Research 1(4) 77-83	2016	ISSN: 2456-0421	<a href="https://www.allscientificjournal.com/">https://www.allscientificjournal.com/</a>	<a href="https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-22">https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-22</a>	
12. Insights about the role of glucocorticoid action in the pathophysiology of the metabolic syndrome	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Scientific Research, 1(4) 68-76	2016	ISSN: 2456-0421	<a href="https://www.allscientificjournal.com/">https://www.allscientificjournal.com/</a>	<a href="https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-21">https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-21</a>	
13. A glimpse of fructose, insulin resistance, and metabolic dyslipidemia.	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Science and Research, 1(7) 37-46	2016	ISSN: 2455-4227	<a href="https://www.allsciencejournal.com/">https://www.allsciencejournal.com/</a>	<a href="https://www.allsciencejournal.com/search?keyword=A+glimpse+of+fructose%2C+insulin+resistance%2C+and+metabolic+dyslipidemia">https://www.allsciencejournal.com/search?keyword=A+glimpse+of+fructose%2C+insulin+resistance%2C+and+metabolic+dyslipidemia</a>	

14. A comprehensive biofeedback of beta-hydroxy-beta-methylbutyrate (HMB) on exercise physiology and body composition across varying levels of age, sex, and training experience	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Science and Research, 1(7) 23-36	2016	ISSN: 2455-4227	<a href="https://www.allsciencejournal.com/search?keyword=A+comprehensive+biofeedback+of+beta-hydroxy-beta-methylbutyrate+%28HMB%29+on+exercise+physiology+and+body+composition+across+varying+levels+of+age%2C+sex%2C+and+training+experience">https://www.allsciencejournal.com/search?keyword=A+comprehensive+biofeedback+of+beta-hydroxy-beta-methylbutyrate+%28HMB%29+on+exercise+physiology+and+body+composition+across+varying+levels+of+age%2C+sex%2C+and+training+experience</a>	
15. An insight of consequences of body weight on altered expression of nuclear receptors and interrelation of cyclooxygenase-2 in human colorectal cancers	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Applied Research (IJAR), 3 (4)577-584ISSN Print: 2394-7500	2016	ISSN Online: 2394-5869	<a href="https://www.allresearchjournal.com/archives/?year=2017&amp;vol=3&amp;issue=4&amp;part=I&amp;ArticleId=3594">https://www.allresearchjournal.com/archives/?year=2017&amp;vol=3&amp;issue=4&amp;part=I&amp;ArticleId=3594</a>	<a href="https://www.allresearchjournal.com/">https://www.allresearchjournal.com/</a>
<b>2017-2018</b>							
1. Applications of Remote Sensing and GIS in Land Resource Management	Dr Bal krishan Choudhary	Department of EVS	E-PG Pathsala – Module- Environmental Science 6 (29), 18.	2017		<a href="https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==">https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==</a>	<a href="https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==">https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==</a>

2. Do institutions affect Economic Growth? An Empirical Analysis of Selected South Asian Countries	Dr. Jayanti Bhattacharjee	Department of Economics	Asian Journal of Comparative Politics, 2(3), 243-260	2017	2057-8911 / 2057-892X	<a href="https://journals.sagepub.com/home/acp">https://journals.sagepub.com/home/acp</a>	<a href="https://doi.org/10.1177/2057891116671833">https://doi.org/10.1177/2057891116671833</a>	Group-II (Web of Science):Arts & Humanities
3. Effects of barium (Ba) doping on structural, electronic and optical properties of binary strontium chalcogenide semiconductor compounds - A theoretical investigation using DFT based FP-LAPW approach.	Dr. Rahul Bhattacharjee	Department of Physics	Materials Chemistry and Physics 199, 295-312	2017	0254-0584 / 1879-3312	<a href="https://www.sciencedirect.com/journal/materials-chemistry-and-physics/vol/115/issue/1">https://www.sciencedirect.com/journal/materials-chemistry-and-physics/vol/115/issue/1</a>	<a href="https://doi.org/10.1016/j.matchemphys.2017.06.057">https://doi.org/10.1016/j.matchemphys.2017.06.057</a>	Group-II (Web of Science)
4. Theoretical investigation of structural, electronic and optical properties of $Mg_xBa_{1-x}S$ , $Mg_xBa_{1-x}Se$ and $Mg_xBa_{1-x}Te$ ternary alloys using DFT based FP-LAPW approach	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Physics and Chemistry of Solids 110, 15-29	2017	0022-3697 / 1879-2553	<a href="https://www.sciencedirect.com/journal/journal-of-physics-and-chemistry-of-solids">https://www.sciencedirect.com/journal/journal-of-physics-and-chemistry-of-solids</a>	<a href="https://doi.org/10.1016/j.jpics.2017.05.015">https://doi.org/10.1016/j.jpics.2017.05.015</a>	Group-II (Web of Science)

5. Effects of doping of calcium atom(s) on structural, electronic and optical properties of binary strontium chalcogenides - A theoretical investigation using DFT based FP-LAPW methodology	Dr. Rahul Bhattacharjee	Department of Physics	Solid State Sciences 71, 92-110	2017	1293-2558 / 1873-3085	<a href="https://www.sciencedirect.com/journal/solid-state-sciences">https://www.sciencedirect.com/journal/solid-state-sciences</a>	<a href="http://dx.doi.org/10.1016%2Fj.solidstatesciences.2017.06.010">http://dx.doi.org/10.1016%2Fj.solidstatesciences.2017.06.010</a>	Group-II (Web of Science)
6. Influence of doping of mercury atom(s) on optoelectronic properties of binary cadmium chalcogenides - A density functional theory based investigation with different exchange-correlation functionals and including spin-orbit coupling	Dr. Rahul Bhattacharjee	Department of Physics	Current Applied Physics 18 (6), 698-716	2018	1567-1739 / 1878-1675	<a href="https://www.sciencedirect.com/journal/current-applied-physics">https://www.sciencedirect.com/journal/current-applied-physics</a>	<a href="https://doi.org/10.1016/j.cap.2018.03.010">https://doi.org/10.1016/j.cap.2018.03.010</a>	Group-II (Web of Science)

7. Modification of band gaps and optoelectronic properties of binary calcium chalcogenides by means of doping of magnesium atom(s) in rock-salt phase- a first principle based theoretical initiative	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Solid State Chemistry 258, 358-375	2018	0022-4596 / 1095-726X	<a href="https://www.sciencedirect.com/journal/journal-of-solid-state-chemistry">https://www.sciencedirect.com/journal/journal-of-solid-state-chemistry</a>	<a href="https://doi.org/10.1016/j.jssc.2017.10.028">https://doi.org/10.1016/j.jssc.2017.10.028</a>	Group-II (Web of Science)
8. Effects of doping of mercury atom (s) on optoelectronic properties of binary zinc chalcogenides-A first principle based theoretical investigation.	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Alloys and Compounds 748, 446-463,	2018	0925-8388 / 1873-4669	<a href="https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds">https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds</a>	<a href="https://doi.org/10.1016/j.jallcom.2018.03.093">https://doi.org/10.1016/j.jallcom.2018.03.093</a>	Group-II (Web of Science)
9. Modified aggregation pattern of cresyl violet acetate adsorbed on nano clay mineral layers in Langmuir Blodgett film. 353 (2018) 570-580.	Dr. Soma Banik	Department of Physics	Journal of Photochemistry and Photobiology A: Chemistry	2017	1010-6030 / 1873-2666	<a href="https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry">https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry</a>	<a href="https://doi.org/10.1016/j.jphotochem.2017.12.013">https://doi.org/10.1016/j.jphotochem.2017.12.013</a>	Group-II (Web of Science)



10. Effect of nano clay Laponite on stability of SHG active J-aggregate of a thiocyanine dye onto LB films	Dr. Subrata Deb	Department of Physics	<b>Applied Clay Science</b> 147 (2017) 105–116	2017	0169-1317 / 1872-9053	<a href="https://www.sciencedirect.com/journal/applied-clay-science">https://www.sciencedirect.com/journal/applied-clay-science</a>	<a href="https://doi.org/10.1016/j.clay.2017.07.013">https://doi.org/10.1016/j.clay.2017.07.013</a>	Group-II (Web of Science)
<b>2018-2019</b>								
1. Economic Integration and South Asia: Exploring Spillover Effects for North-East India	Dr. Jayanti Bhattacharjee	Department of Economics	International Journal of Advance and Innovative Research 5(4), 86-93	2018	2394-7780	<a href="https://iaraedu.com/about-journal/index.php">https://iaraedu.com/about-journal/index.php</a>	<a href="https://iaraedu.com/about-journal/ijair-volume-v-issue-4-xii-october-december.php">https://iaraedu.com/about-journal/ijair-volume-v-issue-4-xii-october-december.php</a>	
2. Soap Opera and its audience reception: A review of shifting paradigm pp.87-101	Sudeshna Chanda	Department of Sociology	Lokaratna Vol XI-Part 1, 31st March 2018	2018	2347-6427	<a href="https://folklorefoundation.org/lokaratna/">https://folklorefoundation.org/lokaratna/</a>	<a href="https://folklorefoundation.org/wp-content/uploads/2021/07/375427042-Lokaratna-Vol-XI-I-2018.pdf">https://folklorefoundation.org/wp-content/uploads/2021/07/375427042-Lokaratna-Vol-XI-I-2018.pdf</a>	
3. Determinants of Non-Performing Assets in Banks in India: A Panel Data Analysis	Dr. Jayanti Bhattacharjee	Department of Economics	International Journal of Advance and Innovative Research Vol.5, Issue 3 (IV), 63-68	2018	2394-7780	<a href="https://iaraedu.com/about-journal/index.php">https://iaraedu.com/about-journal/index.php</a>	<a href="https://iaraedu.com/pdf/ijair-volume-5-issue-3-iv-july-september-2018.pdf">https://iaraedu.com/pdf/ijair-volume-5-issue-3-iv-july-september-2018.pdf</a>	

4. Effect of nano clay platelets on the hybrid monolayer of a cationic oxazine dye: In-situ Brewster Angle Microscopic (BAM) study. 5 (2018) 2352-2358.	Dr. Soma Banik	Department of Physics	Materials Today: Proceedings, Elsevier	2018	2214-7853	<a href="https://www.sciencedirect.com/journal/materials-today-proceedings">https://www.sciencedirect.com/journal/materials-today-proceedings</a>	<a href="https://doi.org/10.1016/j.matpr.2017.09.241">https://doi.org/10.1016/j.matpr.2017.09.241</a>	
5. Study of aggregation behavior of water insoluble metalloporphyrin (Zn) in LB film	Dr. Soma Banik	Department of Physics	Materials Today: Proceedings, Elsevier, 5 (2018)	2018	2214-7853	<a href="https://www.sciencedirect.com/journal/materials-today-proceedings">https://www.sciencedirect.com/journal/materials-today-proceedings</a>	<a href="https://doi.org/10.1016/j.matpr.2017.09.226">https://doi.org/10.1016/j.matpr.2017.09.226</a>	
6. Optoelectronic properties of CaBaX (X=S, Se and Te) alloys: A first principles investigation employing modified Becke–Johnson (mBJ) functional	Dr. Rahul Bhattacharjee	Department of Physics	International Journal of Modern Physics B 33 (07)	2019	0217-9792 / 1793-6578	<a href="https://www.worldscientific.com/worldscinet/ijmp">https://www.worldscientific.com/worldscinet/ijmp</a>	<a href="https://doi.org/10.1142/S0217979219500425">https://doi.org/10.1142/S0217979219500425</a>	UGC CARE-SCIENCE

7. Density functional calculations of structural, elastic and optoelectronic features of $Mg_xZn_{1-x}S$ , $Mg_xZn_{1-x}Se$ and $Mg_xZn_{1-x}Te$ alloys	Dr. Rahul Bhattacharjee	Department of Physics	Materials Chemistry and Physics 230, 54-77	2019	0254-0584 / 1879-3312	<a href="https://www.sciencedirect.com/journal/materials-chemistry-and-physics">https://www.sciencedirect.com/journal/materials-chemistry-and-physics</a>	<a href="https://doi.org/10.1016/j.matchemphys.2019.03.050">https://doi.org/10.1016/j.matchemphys.2019.03.050</a>	UGC CARE-SCIENCE
8. Violence Against Women in Popular Bengali Soap Opera Texts: Interpreting Female Viewer's Reception in Urban Tripura.	Sudeshna Chanda	Department of Sociology	The Eastern Anthropologist, Vol.71, No. 1-2	2018	0012-8686	<a href="https://serialsjournals.com/index.php?route=product/product&amp;product_id=377">https://serialsjournals.com/index.php?route=product/product&amp;product_id=377</a>	<a href="https://www.academia.edu/40175953/VIOLENCE_AGAINST_WOMEN_IN_POPULAR_BENGLI_SOAP_OPERA_TEXTS_INTERPRETING_FEMALE_VIEWERS_RECEPTION_IN_URBAN_TRIPURA">https://www.academia.edu/40175953/VIOLENCE_AGAINST_WOMEN_IN_POPULAR_BENGLI_SOAP_OPERA_TEXTS_INTERPRETING_FEMALE_VIEWERS_RECEPTION_IN_URBAN_TRIPURA</a>	UGC CARE-Group 1
9. Metachromasia induced in Cationic dyes by neem (Azadiracta indica) Polysaccharide	Dr. Amitabha Saha	Department of Chemistry	International Journal of Science and Research.	2018	2319-7064	<a href="https://www.ijsr.net/">https://www.ijsr.net/</a>	<a href="https://www.ijsr.net/archive/v7i7/ART2019131.pdf">https://www.ijsr.net/archive/v7i7/ART2019131.pdf</a>	
9. Major causes of soil degradation in Haora drainage basin, Tripura, India	Hiraxmi Deb Barma		IJSSER	2018	2455-8834	<a href="https://ijsser.org/">https://ijsser.org/</a>	<a href="https://ijsser.org/more2018.php?id=309">https://ijsser.org/more2018.php?id=309</a>	
<b>2019-2020</b>								

1. First principles investigations of structural and optoelectronic properties of cubic $Mg_xZn_{1-x}Se_yTe_{1-y}$ quaternary semiconductor alloys using FP-LAPW approach.	Dr. Rahul Bhattacharjee	Department of Physics	Applied Physics A 125 (2019) 644-667	2019	0947-8396 / 1432-0630	<a href="https://www.researchgate.net/journal/Applied-Physics-A-1432-0630">https://www.researchgate.net/journal/Applied-Physics-A-1432-0630</a>	<a href="https://link.springer.com/article/10.1007%2Fs00339-019-2938-5">https://link.springer.com/article/10.1007%2Fs00339-019-2938-5</a>	UGC Care List-II (Web of Science)
2. Structural and optoelectronic properties of cubic $Mg_xZn_{1-x}S_yTe_{1-y}$ semiconductor quaternary alloys-a first principles investigation.	Dr. Rahul Bhattacharjee	Department of Physics	Physica B 574 (2019) 411669 -88	2019	0921-4526 / 1873-2135	<a href="https://www.sciencedirect.com/journal/physica-b-condensed-matter">https://www.sciencedirect.com/journal/physica-b-condensed-matter</a>	<a href="https://doi.org/10.1016/j.physb.2019.411669">https://doi.org/10.1016/j.physb.2019.411669</a>	UGC Care List-II (Web of Science)
3. Calculations of the structural and optoelectronic properties of cubic $Cd_xZn_{1-x}Se_yTe_{1-y}$ semiconductor quaternary alloys using the DFT-based FP-LAPW approach.	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Computational Electronics (2019) 2-25	2020	1569-8025 / 1572-8137	<a href="https://www.springer.com/journal/10825">https://www.springer.com/journal/10825</a>	<a href="https://link.springer.com/article/10.1007/s10825-019-01409-0">https://link.springer.com/article/10.1007/s10825-019-01409-0</a>	UGC Care List-II (Web of Science)

4. Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of $\text{BeS}_x\text{Se}_{1-x}$ , $\text{BeS}_x\text{Te}_{1-x}$ and $\text{BeSe}_x\text{Te}_{1-x}$ Ternary Alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of ELECTRONIC MATERIALS (2019) 1-15	2019	0361-5235 / 1543-186X	<a href="https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X">https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X</a>	<a href="http://dx.doi.org/10.1007/s11664-019-07820-4">http://dx.doi.org/10.1007/s11664-019-07820-4</a>	UGC Care List-II (Web of Science)
5. First principle investigations of structural and optoelectronic features of cubic $\text{Cd}_x\text{Zn}_{1-x}\text{S}_y\text{Te}_{1-y}$ quaternary semiconductor alloys.	Dr. Rahul Bhattacharjee	Department of Physics	Optik - International Journal for Light and Electron Optics 201(2020) 163510-28	2020	0030-4026 / 1618-1336	<a href="https://www.sciencedirect.com/journal/optik">https://www.sciencedirect.com/journal/optik</a>	<a href="https://doi.org/10.1016/j.ijleo.2019.163510">https://doi.org/10.1016/j.ijleo.2019.163510</a>	UGC Care List-II (Web of Science)
6. Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury–Cadmium-Chalcogenide Ternary Alloys	Dr. Rahul Bhattacharjee	Department of Physics	Metals and Materials International	2020	1598-9623 / 2005-4149	<a href="https://www.springerprofessional.de/en/metals-and-materials-international/4943136">https://www.springerprofessional.de/en/metals-and-materials-international/4943136</a>	<a href="https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7">https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7</a>	UGC Care List-II (Web of Science)

7. Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of BeS <sub>x</sub> Se <sub>1-x</sub> , BeS <sub>x</sub> Te <sub>1-x</sub> and BeS <sub>x</sub> Te <sub>1-x</sub> Ternary Alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Electronic Materials	2020	0361-5235 / 1543-186X	<a href="https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X">https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X</a>	<a href="http://dx.doi.org/10.1007/s11664-019-07820-4">http://dx.doi.org/10.1007/s11664-019-07820-4</a>	UGC Care List-II (Web of Science)
8. Structural, mechanical and optoelectronic features of cubic Mg <sub>x</sub> Cd <sub>1-x</sub> S, Mg <sub>x</sub> Cd <sub>1-x</sub> Se and Mg <sub>x</sub> Cd <sub>1-x</sub> Te semiconductor ternary alloys: Theoretical investigations using density functional FP-LAPW approach	Dr. Rahul Bhattacharjee	Department of Physics	Computational Condensed Matter	2020	2352-2143	<a href="https://www.sciencedirect.com/journal/computational-condensed-matter">https://www.sciencedirect.com/journal/computational-condensed-matter</a>	<a href="https://doi.org/10.1016/j.cocom.2019.e00448">https://doi.org/10.1016/j.cocom.2019.e00448</a>	UGC Care List-II (Web of Science)

9. Structural, mechanical and optoelectronic properties of cubic Be <sub>x</sub> Mg <sub>1-x</sub> S, Be <sub>x</sub> Mg <sub>1-x</sub> Se and Be <sub>x</sub> Mg <sub>1-x</sub> Te semiconductor ternary alloys: a density functional study	Dr. Rahul Bhattacharjee	Department of Physics	Bulletin of Materials Science	2020	0250-4707 / 0973-7669	<a href="https://www.springer.com/journal/12034">https://www.springer.com/journal/12034</a>	<a href="https://doi.org/10.1007/s12034-019-2006-y">https://doi.org/10.1007/s12034-019-2006-y</a>	UGC Care List-II (Web of Science)
10. Density functional study on structural and optoelectronic properties of cubic Mg <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Se <sub>1-y</sub> semiconductor quaternary alloys	Dr. Rahul Bhattacharjee	Department of Physics	Pramana - Journal of Physics	2020	0304-4289 / 0973-7111	<a href="https://www.researchgate.net/journal/Pramana-0973-7111">https://www.researchgate.net/journal/Pramana-0973-7111</a>	<a href="http://dx.doi.org/10.1007/s12043-020-01975-0">http://dx.doi.org/10.1007/s12043-020-01975-0</a>	UGC Care List-II (Web of Science)
11. Cationic and anionic concentration dependent elastic properties of zinc blende specimens within Cd <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Se <sub>1-y</sub> quaternary system: Calculations with density functional theory	Dr. Rahul Bhattacharjee	Department of Physics	Solid State Communications	2020	0038-1098 / 1879-2766	<a href="https://www.sciencedirect.com/journal/solid-state-communications">https://www.sciencedirect.com/journal/solid-state-communications</a>	<a href="https://doi.org/10.1016/j.ssc.2020.114050">https://doi.org/10.1016/j.ssc.2020.114050</a>	UGC Care List-II (Web of Science)

12. Discovery of novel potential selective HDAC8 inhibitors by combine ligand-based, structurebased virtual screening and in-vitro biological evaluation	Dr Samhita Bhowmik	Department of Chemistry	Scientific Reports	2019	2045-2322	<a href="https://www.nature.com/srep/">https://www.nature.com/srep/</a>	<a href="https://www.nature.com/articles/s41598-019-53376-y">https://www.nature.com/articles/s41598-019-53376-y</a>	UGC Care List-II (Web of Science)
13. Forest Biomass estimation using remote sensing and field inventory: a case study of Tripura, India	Dr. Bal Krishan Choudhury	Department of EVS	Environment Monitoring and Assessment	2019	0167-6369 / 1573-2959	<a href="https://www.researchgate.net/journal/Environmental-Monitoring-and-Assessment-1573-2959">https://www.researchgate.net/journal/Environmental-Monitoring-and-Assessment-1573-2959</a>	<a href="https://link.springer.com/article/10.1007%2Fs10661-019-7730-7">https://link.springer.com/article/10.1007%2Fs10661-019-7730-7</a>	UGC Care List-II (Web of Science)
14. Potential Biomass Pools and Edaphic Properties of Plantation Forest in Tripura, India	Dr. Bal Krishan Choudhury	Department of EVS	International Journal of Ecology and Environmental Sciences 45 (4): 369-381, 2019	2019		<a href="https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India">https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India</a>	<a href="https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India">https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India</a>	
2020-2021								



1. Tarashankarer jibon darshan o Arogyaniketan	Dr Nivedita Dhar	Department of Bengali	Ebong Mohua,136 volume, Golekauchawk, Midnapur, W.B	2020				UGC Care List-I
2. Investigation on aeromycoflora in extramural and intramural environment at Udaipur, Gomati District, Tripura	Dr. Sikha Banik	Department of Botany	Indian Journal of Aerobiology	2021				
3. Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study	Dr. Samhita Bhaumik	Department of Chemistry	Journal of Biomolecular Structure and Dynamics	2020	0739-1102 / 1538-0254	<a href="https://www.tandfonline.com/journals/tbsd20">https://www.tandfonline.com/journals/tbsd20</a>	<a href="https://doi.org/10.1080/07391102.2020.1819883">https://doi.org/10.1080/07391102.2020.1819883</a>	UGC Care List-II (Web of Science)
4. In Silico Identification of Potential Inhibitors of the Main Protease of SARS-CoV-2 Using Combined Ligand-Based and Structure-Based Drug Design Approach	Dr. Samhita Bhaumik	Department of Chemistry	Eurasian Journal of Medicine and Oncology	2020	2587-2400 / 2587-196X	<a href="https://ejmo.org/volume/4/issue/4">https://ejmo.org/volume/4/issue/4</a>	<a href="https://dx.doi.org/10.14744/ejmo.2020.91768">https://dx.doi.org/10.14744/ejmo.2020.91768</a>	UGC Care List-II (Web of Science)

5. In Silico Identification of Potential Inhibitors of ADP-Ribose Phosphatase of SARS-CoV-2 nsP3 by Combining E-Pharmacophore-and Receptor-Based Virtual Screening of Database	Dr. Samhita Bhaumik	Department of Chemistry	Chemistry Select	2020	2365-6549	<a href="https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549">https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549</a>	<a href="https://dx.doi.org/10.1002%2Fslct.202001419">https://dx.doi.org/10.1002%2Fslct.202001419</a>	UGC Care List-II (Web of Science)
6. Potentiality of Moringa oleifera against SARS-CoV-2: identified by a rational computer aided drug design method	Dr. Samhita Bhaumik	Department of Chemistry	Journal of Biomolecular Structure and Dynamics	2021	0739-1102 / 1538-0254	<a href="https://www.tandfonline.com/journals/tbsd20">https://www.tandfonline.com/journals/tbsd20</a>	<a href="https://doi.org/10.1080/07391102.2021.1898475">https://doi.org/10.1080/07391102.2021.1898475</a>	UGC Care List-II (Web of Science)
7. Phytochemicals of Zingiberaceae family exhibit potentiality against SARS-CoV-2 main protease identified by a rational computer-aided drug design	Dr. Samhita Bhaumik	Department of Chemistry	Natural Product Research	2021	1478-6419 / 1478-6427	<a href="https://www.tandfonline.com/journals/gnpl20">https://www.tandfonline.com/journals/gnpl20</a>	<a href="https://doi.org/10.1080/14786419.2021.1994563">https://doi.org/10.1080/14786419.2021.1994563</a>	UGC Care List-II (Web of Science)

8. Identification of Potential Scaffolds From the Shrub <i>Justicia Adhatoda</i> Against SARS-CoV-2 Main Protease Target	Dr. Samhita Bhaumik	Department of Chemistry	International Journal of Quantitative Structure-Property Relationships (IJQSPR)	2021	2379-7479/2379-7487	<a href="https://www.researchgate.net/journal/International-Journal-of-Quantitative-Structure-Property-Relationships-2379-7487">https://www.researchgate.net/journal/International-Journal-of-Quantitative-Structure-Property-Relationships-2379-7487</a>	<a href="http://dx.doi.org/10.4018/IJQSPR.2021100104">http://dx.doi.org/10.4018/IJQSPR.2021100104</a>	UGC Care List-I
9. Writing Ordinary Lives;: An Analysis of Selected Women's Memoirs From North-East India	Dr. Somali Saha	Department of English	Langlit: An International Peer-Reviewed Open Access Journal	2021	2349-5189	<a href="https://www.langlit.org/">https://www.langlit.org/</a>	<a href="https://drive.google.com/file/d/1rnPuvoeAXe6fpHTy7jJ1sn7-cxj95LkA/view">https://drive.google.com/file/d/1rnPuvoeAXe6fpHTy7jJ1sn7-cxj95LkA/view</a>	
10. Metachromasia induced in cationic dyes by Iodine Salt	Dr Amitabha Saha	Department of Chemistry	International Journal of Science and Research	2020		<a href="https://www.ijsr.net/">https://www.ijsr.net/</a>	<a href="https://www.ijsr.net/archive/v9i4/SR20410193025.pdf">https://www.ijsr.net/archive/v9i4/SR20410193025.pdf</a>	
11. A Concise Review Report on Induced Breeding of Indian Major Carps through Pituitary Extract and Synthetic Hormone Analogues	Dr. Saumen Chakraborti	Department of Zoology	International Journal of Recent Scientific Research Vol. 11, Issue 11(A), pp. 40011-40016, November, 2020	2020	0976-3031	<a href="http://www.recentscientific.com/">http://www.recentscientific.com/</a>	<a href="http://www.recentscientific.com/concise-review-report-induced-breeding-indian-major-carps-through-pituitary-extract-and-synthetic-ho">http://www.recentscientific.com/concise-review-report-induced-breeding-indian-major-carps-through-pituitary-extract-and-synthetic-ho</a>	
12. Studies on Density, Percentage Composition and Seasonal Variations of Phytoplankton in a Perennial Pond Ecosystem of Tripura, India with a note on Physico-chemical Factors	Dr. Saumen Chakraborti	Department of Zoology	International Journal of Current Microbiology and Applied Sciences 10(07): 662-670, 2021	2021	2319-7706	<a href="https://www.ijcmas.com/">https://www.ijcmas.com/</a>	<a href="https://doi.org/10.20546/ijcmas.2021.1007.072">https://doi.org/10.20546/ijcmas.2021.1007.072</a>	

13. A Comparative Study on the Occurrence, Density and Seasonal Variations of Phytoplankton and Zooplankton in a Perennial Pond Ecosystem of Tripura, India	Dr. Saumen Chakraborti	Department of Zoology	Applied Ecology and Environmental Sciences Vol. 9, No. 8, 761-768, 2021	2021	2328-3920	<a href="http://www.sciepub.com/journal/AEES">http://www.sciepub.com/journal/AEES</a>	<a href="https://doi.org/10.12691/aees-9-8-7">https://doi.org/10.12691/aees-9-8-7</a>	
14. A comparative study on the density and seasonal variations of rotifer and copepod fauna in a pond of Tripura, India with a note on water quality parameters	Dr. Saumen Chakraborti	Department of Zoology	International Journal of Fauna and Biological Studies 2021; 8(6): 01-06	2021	2347-2677	<a href="https://www.faujournal.com/">https://www.faujournal.com/</a>	<a href="https://doi.org/10.22271/23940522.2021.v8.i6a.855">https://doi.org/10.22271/23940522.2021.v8.i6a.855</a>	
15. "Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury–Cadmium-Chalcogenide Ternary Alloys."	Dr. Rahul Bhattacharjee	Department of Physics	Metals and Materials International (2020) (SPRINGER)	2020	1598-9623 / 2005-4149	<a href="https://www.springer.com/journal/12540">https://www.springer.com/journal/12540</a>	<a href="https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7">https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7</a>	UGC Care List-II (Web of Science)

16. "Density functional calculations of elastic and thermal properties of zinc-blende $\text{HgS}_x\text{Se}_{1-x}$ , $\text{HgS}_x\text{Te}_{1-x}$ and $\text{HgS}_x\text{Se}_y\text{Te}_{1-x-y}$ ternary alloys."	Dr. Rahul Bhattacharjee	Department of Physics	Computational Condensed Matter 24(2020) e00482 Elsevier	2020	2352-2143	<a href="https://www.sciencedirect.com/journal/computational-condensed-matter">https://www.sciencedirect.com/journal/computational-condensed-matter</a>	<a href="https://doi.org/10.1016/j.cocom.2020.e00482">https://doi.org/10.1016/j.cocom.2020.e00482</a>	UGC Care List-II (Web of Science)
17. "First-principle calculations of structural and optoelectronic properties of cubic $\text{Cd}_x\text{Zn}_{1-x}\text{S}_y\text{Se}_{1-y}$ quaternary alloys with modified Becke–Johnson (mBJ) functional."	Dr. Rahul Bhattacharjee	Department of Physics	Indian Journal of Physics 1-13 Springer India	2020	0973-1458 / 0974-9845	<a href="https://www.springer.com/journal/12648">https://www.springer.com/journal/12648</a>	<a href="https://ui.adsabs.harvard.edu/link_gateway/2021InJPh..95.2313C/doi:10.1007/s12648-020-01880-7">https://ui.adsabs.harvard.edu/link_gateway/2021InJPh..95.2313C/doi:10.1007/s12648-020-01880-7</a>	UGC Care List-II (Web of Science)

18. "Structural, mechanical and optoelectronic properties of cubic $BexMg_{1-x}S$ , $BexMg_{1-x}Se$ , $BexMg_{1-x}S$ , $BexMg_{1-x}Se$ and $BexMg_{1-x}Te$ , $BexMg_{1-x}Te$ semiconductor ternary alloys: a density functional study."	Dr. Rahul Bhattacharjee	Department of Physics	Bulletin of Materials Science 43 (2020) 1-26 Indian Academy of Sciences	2020	0250-4707 / 0973-7669	<a href="https://www.researchgate.net/publication/339229024_Structural_mechanical_and_optoelectronic_properties_of_cubic_Be_x_Mg_1-x_S_Be_x_Mg_1-x_Se_and_Be_x_Mg_1-x_Te_semiconductor_ternary_alloys_a_density_functional_study">https://www.researchgate.net/publication/339229024_Structural_mechanical_and_optoelectronic_properties_of_cubic_Be_x_Mg_1-x_S_Be_x_Mg_1-x_Se_and_Be_x_Mg_1-x_Te_semiconductor_ternary_alloys_a_density_functional_study</a>	<a href="https://www.researchgate.net/publication/339229024_Structural_mechanical_and_optoelectronic_properties_of_cubic_Be_x_Mg_1-x_S_Be_x_Mg_1-x_Se_and_Be_x_Mg_1-x_Te_semiconductor_ternary_alloys_a_density_functional_study">https://www.researchgate.net/publication/339229024_Structural_mechanical_and_optoelectronic_properties_of_cubic_Be_x_Mg_1-x_S_Be_x_Mg_1-x_Se_and_Be_x_Mg_1-x_Te_semiconductor_ternary_alloys_a_density_functional_study</a>	UGC Care List-II (Web of Science)
19. "Density functional study on structural and optoelectronic properties of cubic $Mg_{1-x}Zn_x$ $1-xS$ $ySe$ $1-y$ semiconductor quaternary alloys."	Dr. Rahul Bhattacharjee	Department of Physics	Pramana 94 (2021) 1-20 Springer India	2020	0304-4289 / 0973-7111	<a href="https://www.springer.com/journal/12043/">https://www.springer.com/journal/12043/</a>	<a href="http://dx.doi.org/10.1007/s12043-020-01975-0">http://dx.doi.org/10.1007/s12043-020-01975-0</a>	UGC Care List-II (Web of Science)

<p>20. "Cationic and anionic concentration dependent elastic properties of zinc blende specimens within <math>CdxZn1-xSySe1-y</math> quaternary system: Calculations with density functional theory."</p>	<p>Dr. Rahul Bhattacharjee</p>	<p>Department of Physics</p>	<p>Solid State Communications 322 (2020) 114050 Pergamon</p>	<p>2020</p>	<p>0038-1098 / 1879-2766</p>	<p><a href="https://www.sciencedirect.com/journal/solid-state-communications">https://www.sciencedirect.com/journal/solid-state-communications</a></p>	<p><a href="https://doi.org/10.1016/j.ssc.2020.114050">https://doi.org/10.1016/j.ssc.2020.114050</a></p>	<p>UGC Care List-II (Web of Science)</p>
<p>21. "Density functional study of elastic and thermal properties of cubic mercury<sub>1</sub>zinc-chalcogenide ternary alloys"</p>	<p>Dr. Rahul Bhattacharjee</p>	<p>Department of Physics</p>	<p>Bulletin of Materials Science. 43 (2020) 1-17 Indian Academy of Sciences</p>	<p>2020</p>	<p>0250-4707 / 0973-7669</p>	<p><a href="https://www.springer.com/journal/12034">https://www.springer.com/journal/12034</a></p>	<p><a href="https://doi.org/10.1007/s12034-020-02236-x">https://doi.org/10.1007/s12034-020-02236-x</a></p>	<p>UGC Care List-II (Web of Science)</p>
<p>22. "Cationic and anionic composition-dependent mechanical and thermal properties of zinc-blende specimens under <math>MgxZn1-xSySe1-y</math>, <math>MgxZn1-xSySe1-y</math> quaternary system: calculations with density functional FP-LAPW scheme."</p>	<p>Dr. Rahul Bhattacharjee</p>	<p>Department of Physics</p>	<p>The European Physical Journal B 94 (2021) 1-16 SPRINGER</p>	<p>2021</p>	<p>1434-6028 / 1434-6036</p>	<p><a href="https://www.springer.com/journal/10051/">https://www.springer.com/journal/10051/</a></p>	<p><a href="https://doi.org/10.1140/EPJB%2FS10051-020-00024-4">https://doi.org/10.1140/EPJB%2FS10051-020-00024-4</a></p>	<p>UGC Care List-II (Web of Science)</p>



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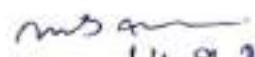
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Dated Agartala, 14/9/2022

### Metric 3.2.1

Number of papers published per teacher in the Journals notified on UGC website during the last five years

As per DVV suggested inputs regarding metric 3.2.1, the link landing to the paper/article, link to the journal website, presence of the paper in the UGC CARE list/Scopus/Web of Science/other are already uploaded in the Self Study Report. However, screenshots of research articles clearly showing the title of the article, affiliation, name of the journal, year and authors name is being provided with a separate document as supporting material in relevance to the metric.

  
Principal, 14.9.2022

Women's College

Agartala, West Tripura  
Principal  
Women's College,  
Agartala.



### Metric 3.2.1

Number of papers published per teacher in the Journals notified on UGC website during the last five years

2016-17

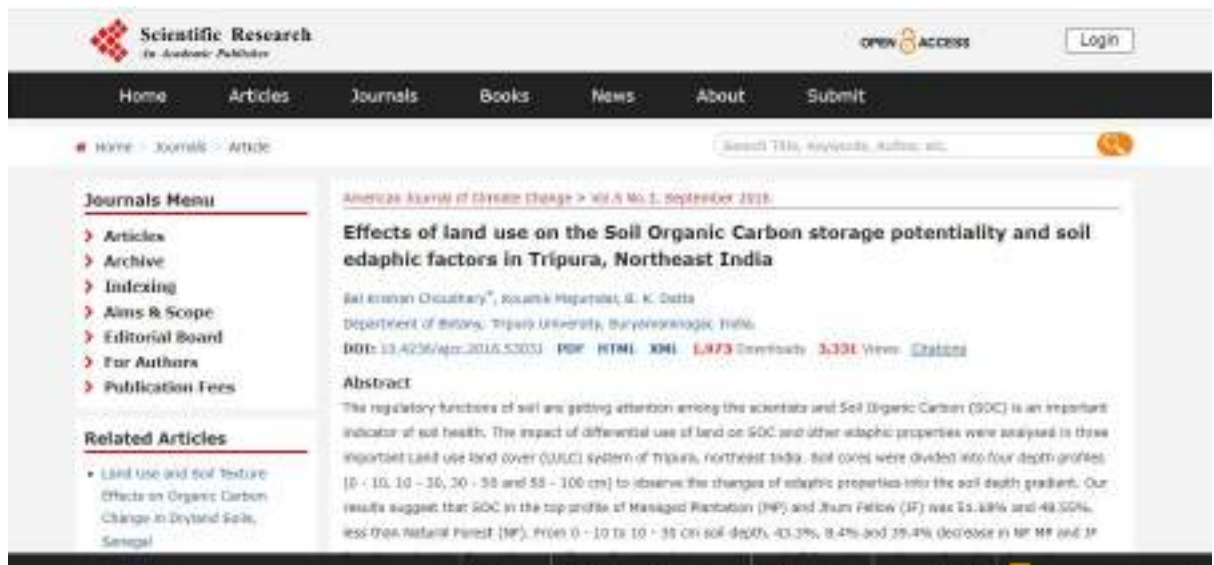
1. Carbon Sequestration Potential and Edaphic Properties Along the Plantation Age of Rubber in Tripura, Northeastern India. by Dr. Bal Krishan Choudhury, Department of EVS



2. Above ground woody biomass, carbon stocks potential in selected tropical forest patches of Tripura, Northeast India-Dr. Bal Krishan Choudhury, Department of EVS

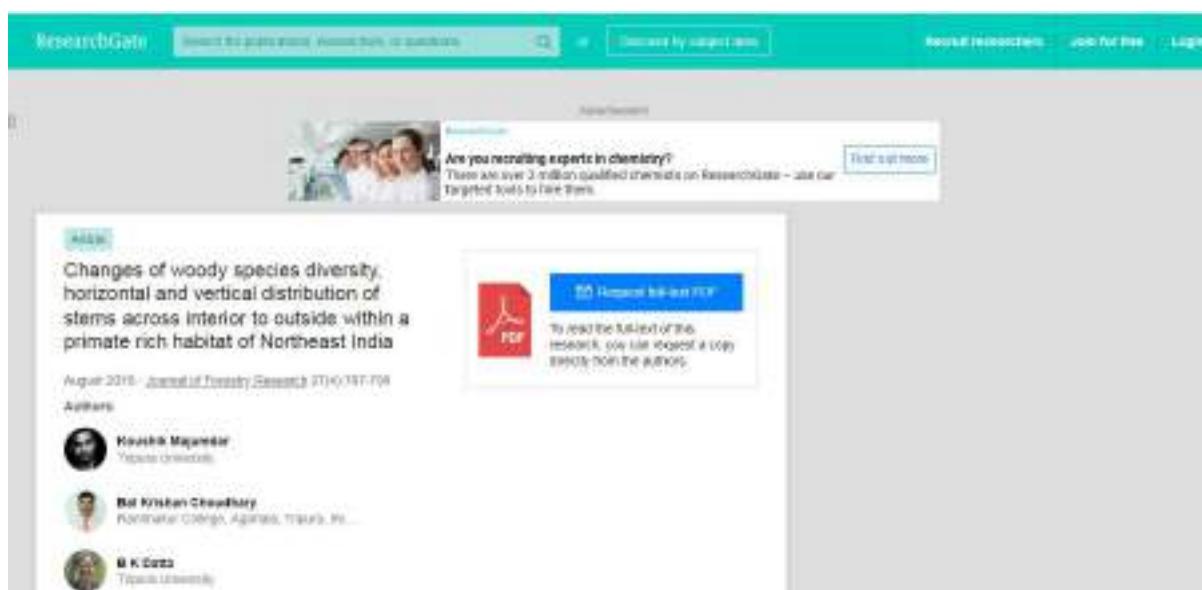


### 3. Effects of Land Use on the Soil Organic Carbon Storage Potentiality and Edaphic Factors in Tripura, Northeast India- Dr. Bal Krishan Choudhury, Department of EVS



### 4. Applications of Remote Sensing and GIS in Conservation of Resources- Dr. Bal Krishan Choudhury, Department of EVS

### 5. Changes of woody species diversity, horizontal and vertical distribution of stems across interior to outside within a primate rich habitat of Northeast India.- Dr. Bal Krishan Choudhury, Department of EVS.



6. pH induced interaction of DPPC with a fluorescent dye in Langmuir and Langmuir Blodgett (LB) films- Dr. Soma Banik, Department of Physics.



7. FP-LAPW methodology based theoretical investigation of structural, electronic and optical properties of  $Mg_xPb_{1-x}S$ ,  $Mg_xPb_{1-x}Se$  and  $Mg_xPb_{1-x}Te$  ternary alloys by Dr. Rahul Bhattacharjee, Department of Physics.



8. DFT based FP-LAPW investigation of structural, electronic and optical properties of  $Sr_xPb_{1-x}S$ ,  $Sr_xPb_{1-x}Se$  and  $Sr_xPb_{1-x}Te$  ternary alloys by Dr. Rahul Bhattacharjee, Department of Physics.



9. Theoretical study of structural, electronic and optical properties of  $Ba_xPb_{1-x}S$ ,  $Ba_xPb_{1-x}Se$  and  $Ba_xPb_{1-x}Te$  ternary alloys using FP-LAPW approach by Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows the ScienceDirect interface for an article in the *Journal of Alloys and Compounds*. The article title is "Theoretical study of structural, electronic and optical properties of  $Ba_xPb_{1-x}S$ ,  $Ba_xPb_{1-x}Se$  and  $Ba_xPb_{1-x}Te$  ternary alloys using FP-LAPW approach". The page includes a left sidebar with an outline, a central article preview with a PDF icon, and a right sidebar with recommended articles and article metrics. The URL is <https://doi.org/10.1016/j.jallcom.2019.151846>.

10. Stability of J-aggregated species in an indocarbocyanine dye in Langmuir–Blodgett Films by Dr. Subrata Deb, Department of Physics.

The screenshot shows the ScienceDirect interface for an article in the *Journal of Luminescence*. The article title is "Stability of J-aggregated species in an indocarbocyanine dye in Langmuir–Blodgett Films". The page includes a left sidebar with an outline, a central article preview with a PDF icon, and a right sidebar with recommended articles and article metrics. The URL is <https://doi.org/10.1016/j.jlumin.2016.07.017>.

11. Comparisons between intragastric and small intestinal delivery of corresponding nutrition in the critically ill: a comprehensive approach and meta-analysis by Dr Amitabha Kar & Sankari Das, Department o Human Physiology.



<b>SUBMIT YOUR ARTICLE</b> Email: <a href="mailto:your_article@gmail.com">your_article@gmail.com</a>	<b>VOL. 1, ISSUE 4 (2018)</b> <b>Comparisons between intragastric and small intestinal delivery of corresponding nutrition in the critically ill: a comprehensive approach and meta-analysis</b> Authors: Dr. Partha Majumdar, Dr. Amitabha Kar, Sankari Das Abstract	<b>Journal List</b> SEARCH INDEXING
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12. Insights about the role of glucocorticoid action in the pathophysiology of the metabolic syndrome by Dr Amitabha Kar & Sankari Das, Department o Human Physiology.



<b>SUBMIT YOUR ARTICLE</b> Email: <a href="mailto:your_article@gmail.com">your_article@gmail.com</a>	<b>VOL. 1, ISSUE 4 (2016)</b> <b>insights about the role of glucocorticoid action in the pathophysiology of the metabolic syndrome</b> Authors: Partha Majumdar, Amitabha Kar, Sankari Das Abstract: Glucocorticoids are stress hormones that mediate a large number of physiological actions involved in	<b>Journal List</b> SEARCH INDEXING
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13. A glimpse of fructose, insulin resistance, and metabolic dyslipidemia by Dr Amitabha Kar & Sankari Das, Department o Human Physiology.



SEARCH

Results: 1. Query: A glimpse of fracture, insulin resistance, and metabolic dyslipidemia

S.No.	Title and Authors Name	Country
1	A glimpse of fracture, insulin resistance, and metabolic dyslipidemia Dr. Partha Majumder, Dr. Amitabha Kar, Sankari Das Year: 2018 / Vol: 7 / Issue: 03 Abstract   Download   Pages: 37-40 <a href="#">How to cite this article:</a>	India

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14. **A comprehensive biofeedback of beta-hydroxy-beta-methylbutyrate (HMB) on exercise physiology and body composition across varying levels of age, sex, and training experience** by Dr Amitabha Kar & Sankari Das, Department o Human Physiology.



SEARCH

Results: 1. Query: A comprehensive biofeedback of beta-hydroxy-beta-methylbutyrate (HMB) on exercise physiology and body composition across varying levels of age, sex, and training experience

S.No.	Title and Authors Name	Country
1	A comprehensive biofeedback of beta-hydroxy-beta-methylbutyrate (HMB) on exercise physiology and body composition across varying levels of age, sex, and training experience Dr. Partha Majumder, Dr. Amitabha Kar, Sankari Das	India

Journal List

SEARCH

INDEXING

15. **An insight of consequences of body weight on altered expression of nuclear receptors and interrelation of cyclooxygenase-2 in human colorectal cancers** by Dr Amitabha Kar & Sankari Das, Department o Human Physiology.



16. **Chronicling the History of Dalit Consciousness: An Analysis of Urmila Pawar's *The Weave of My Life- A Dalit Woman's Memoir*-** Dr. Somali Saha, Department of English published in *The Criterion: An International Journal in English*



17. **Role of Translation in Mainstreaming Dalit Literature- An Analysis of Selected Dalit Autobiographies in Translation-** Somali Saha published in *Research Journal of English Language and Literature- A Peer Reviewed (Referred) International Journal*.





18. **Journey From Silence to Eloquence: Specificities of Gender and Patriarchy in a Dalit Woman's Testimonio** – Somali Saha, Department of English, published in Research Journal of English Language and Literature- A Peer Reviewed (Referred) International Journal.



19. Portrayal of ‘New Woman- A Feminist Reading of Tagore’s Chandalika and ‘Natir Puja’-Somali Saha published in Research Journal of English Language and Literature- A Peer Reviewed (Referred) International Journal.



### Metric 3.2.1

Number of papers published per teacher in the Journals notified on UGC website during the last five years

2017-18

1. Applications of Remote Sensing and GIS in Land Resource Management by Dr Bal krishan Choudhary, Department of EVS.
2. Do institutions affect Economic Growth? An Empirical Analysis of Selected South Asian Countries by Dr. Jayanti Bhattacharjee, Department of Economics.



3. Effects of barium (Ba) doping on structural, electronic and optical properties of binary strontium chalcogenide semiconductor compounds - A theoretical investigation using DFT based FP-LAPW approach by Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows the ScienceDirect article page for the paper: "Effects of barium (Ba) doping on structural, electronic and optical properties of binary strontium chalcogenide semiconductor compounds - A theoretical investigation using DFT based FP-LAPW approach". The journal is "Materials Chemistry and Physics", Volume 265, 15 September 2021, Pages 295-312. The author is Rahul Bhattacharjee. The page includes a table of contents on the left, the article title and abstract in the center, and recommended articles on the right.

4. Theoretical investigation of structural, electronic and optical properties of  $Mg_xBa_{1-x}S$ ,  $Mg_xBa_{1-x}Se$  and  $Mg_xBa_{1-x}Te$  ternary alloys using DFT based FP-LAPW approach by Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows the ScienceDirect article page for the paper: "Theoretical investigation of structural, electronic and optical properties of  $Mg_xBa_{1-x}S$ ,  $Mg_xBa_{1-x}Se$  and  $Mg_xBa_{1-x}Te$  ternary alloys using DFT based FP-LAPW approach". The journal is "Journal of Physics and Chemistry of Solids", Volume 123, November 2021, Pages 115-128. The author is Rahul Bhattacharjee. The page includes a table of contents on the left, the article title and abstract in the center, and recommended articles on the right.

5. Effects of doping of mercury atom (s) on optoelectronic properties of binary zinc chalcogenides-A first principle based theoretical investigation by Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows the ScienceDirect interface for an article in the journal *Solid State Sciences*. The article title is "Effects of doping of calcium atom(s) on structural, electronic and optical properties of binary strontium chalcogenides - A theoretical investigation using DFT based FP-LAPW methodology". The authors listed are Rahul Bhattacharjee and Suresh Chandra Kashyap. The article is from Volume 11, September 2017, Pages 90-110. The page includes a navigation menu on the left with options like Outline, Highlights, Abstract, Graphical abstract, Keywords, and Introduction. On the right, there are sections for Recommended articles and Article Metrics. The URL at the bottom is <https://doi.org/10.1016/j.solidstateins.2017.06.018>.

- Influence of doping of mercury atom(s) on optoelectronic properties of binary cadmium chalcogenides - A density functional theory based investigation with different exchange-correlation functionals and including spin-orbit coupling by Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows the ScienceDirect interface for an article in the journal *Current Applied Physics*. The article title is "Influence of doping of mercury atom(s) on optoelectronic properties of binary cadmium chalcogenides - A density functional theory based investigation with different exchange-correlation functionals and including spin-orbit coupling". The authors listed are Pratik Chakraverty, Dipak Saha, Anil Kumar, Suresh Chandra Kashyap, Debashis Choudhury, Debashis Ghosh, and Rahul Bhattacharjee. The article is from Volume 18, Issue 6, June 2018, Pages 698-710. The page includes a navigation menu on the left with options like Outline, Highlights, Abstract, Graphical abstract, Keywords, and Introduction. On the right, there are sections for Recommended articles and Article Metrics. The URL at the bottom is <https://doi.org/10.1016/j.capp.2018.06.018>.

- Modification of band gaps and optoelectronic properties of binary calcium chalcogenides by means of doping of magnesium atom(s) in rock-salt phase- a first principle based theoretical initiative by Dr. Rahul Bhattacharjee, Department of Physics.

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Journal of Solid State Chemistry  
Volume 316, February 2020, Pages 269–274

### Modification of band gaps and optoelectronic properties of binary calcium chalcogenides by means of doping of magnesium atom(s) in rock-salt phase- a first principle based theoretical initiative

Binod Debnath<sup>1</sup>, Ujjal Sarkar<sup>1,2</sup>, Manish Debnath<sup>1</sup>, Rajul Bhattacharjee<sup>1,3</sup>, Sayajee Chakrabarti<sup>1,4</sup>

1. Introduction  
2. Computational details  
3. Results and discussion  
4. Conclusion  
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8. Effects of doping of mercury atom (s) on optoelectronic properties of binary zinc chalcogenides-A first principle based theoretical investigation by Dr. Rahul Bhattacharjee, Department of Physics.

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Journal of Alloys and Compounds  
Volume 746, 5 June 2018, Pages 449–462

### Effects of doping of mercury atom(s) on optoelectronic properties of binary zinc chalcogenides - A first principle based theoretical investigation

Manish Debnath<sup>1</sup>, Ujjal Sarkar<sup>1,2</sup>, Binod Debnath<sup>1</sup>, Debashree Ghosh<sup>1</sup>, Sayajee Chakrabarti<sup>1</sup>, Rajul Bhattacharjee<sup>1,3</sup>, Soma Chakrabarti<sup>1,4</sup>

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Volume 333, 12 February 2020, Pages 472–480

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Applied Clay Science  
Volume 247, October 2017, Pages 205–210

### Effect of nano clay Laponite on stability of SHG active J-aggregate of a thiocyanine dye onto LB films

Priya Debbarth\*, Saranya Chakrabarti†, Subrata Deb\*, J. Nath†, S. Das†, D. Ghatakhaque†, Homayun Sarkar†, Mahaboobunnisa†, Yamini Sankar†, Jani Hussain†, Sandeep Kumar†, T. S. Suresh

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2018-19

1. Economic Integration and South Asia: Exploring Spillover Effects for North-East India by Dr. Jayanti Bhattacharjee, Department of Economics.



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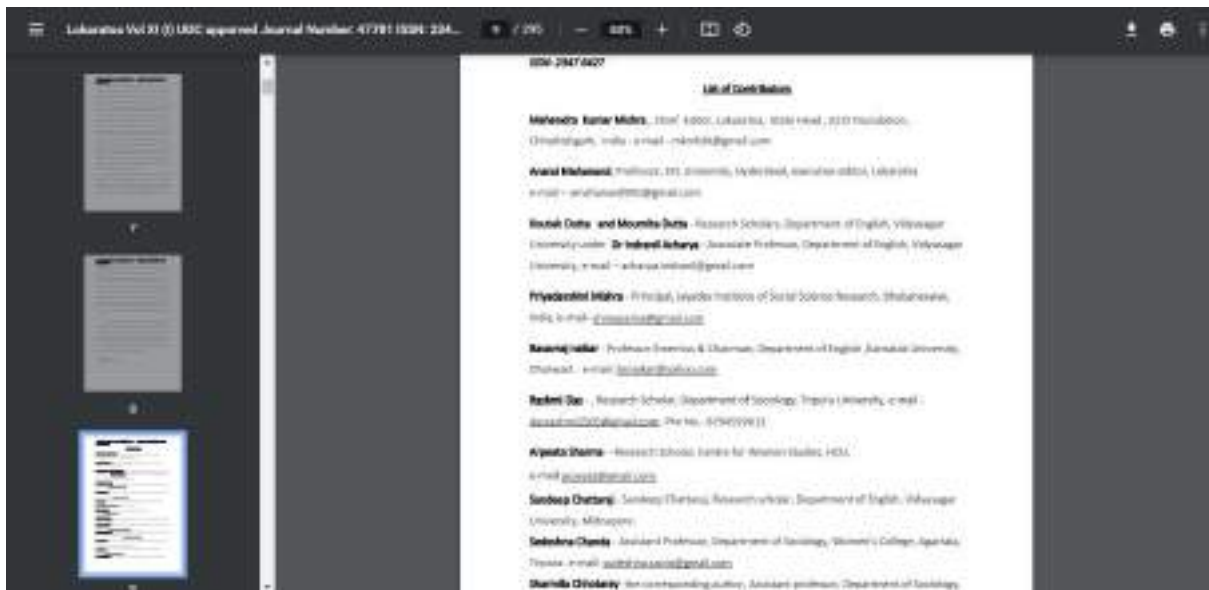
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2	GROWTH AND CHARACTERIZATION OF DICUMAROLE DERIVATIVE S. K. Panral, H. K. Gohil, P. M. Vyas, S. D. Hodyal and A. H. Patel	16-23
3	INVESTORS ATTITUDE TOWARDS MUTUAL FUNDS IN ROHTK DISTRICT IN STATE OF HARYANA Dr. Sunil Kumar	24-27
4	SUSTAINABLE MANAGEMENT OF ENVIRONMENTAL RESOURCES OF A SEMI-ARID REGION OF INDIA USING RS/GIS Sakshi Walker, Brijesh Bawa and Jai Kumar	28-35
5	A STUDY ON IMPACT OF SOLAR PRODUCTS ON BUSINESS IN SHAKASI TALUK M. Ragesh Gandhi and Dr. M. Ponnar Selvi	36-41

2. Soap Opera and its audience reception:A review of shifting paradigm by Sudeshna Chanda, Department of Sociology.





3. Determinants of Non-Performing Assets in Banks in India: A Panel Data Analysis by Dr. Jayanti Bhattacharjee, Department of Economics



4. Effect of nano clay platelets on the hybrid monolayer of a cationic oxazine dye: In-situ Brewster Angle Microscopic (BAM) study. 5 (2018) 2352-2358 by Dr. Soma Banik, Department of Physics.

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### Effect of nano clay platelets on the hybrid monolayer of a cationic oxazine dye: In-situ Brewster Angle Microscopic (BAM) study

Soma Banik<sup>a</sup>, P. A. W. Mo, Soma<sup>a</sup>, S. S. Hasan<sup>a</sup>, D. Bhattacharjee<sup>a</sup>

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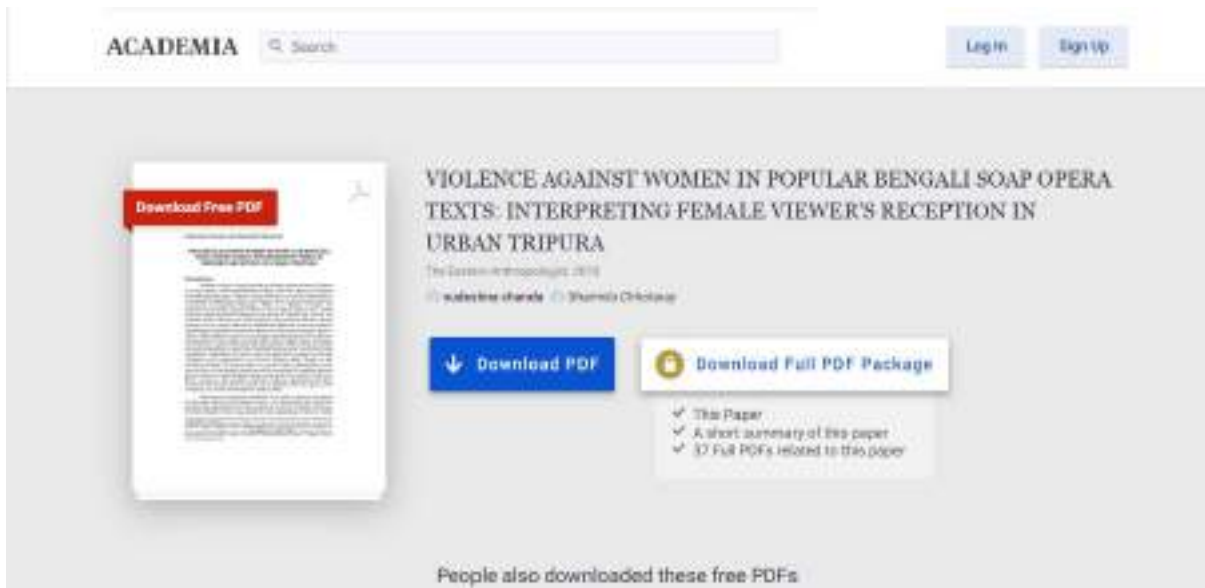
6. Optoelectronic properties of CaBaX (X=S, Se and Te) alloys: A first principles investigation employing modified Becke–Johnson (mBJ) functional by Dr. Rahul Bhattacharjee, Department of Physics.



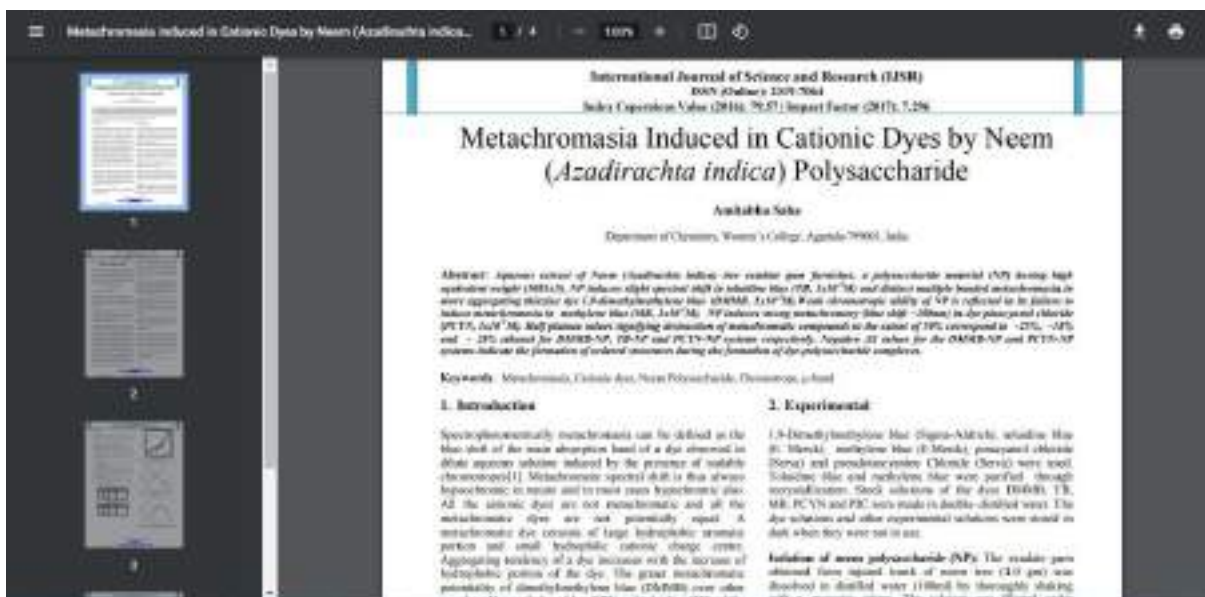
7. Density functional calculations of structural, elastic and optoelectronic features of  $Mg_xZn_{1-x}S$ ,  $Mg_xZn_{1-x}Se$  and  $Mg_xZn_{1-x}Te$  alloys by Dr. Rahul Bhattacharjee, Department of Physics.



8. Violence Against Women in Popular Bengali Soap Opera Texts: Interpreting Female Viewer's Reception in Urban Tripura by Sudeshna Chanda, Department of Sociology.



9. Metachromasia induced in Cationic dyes by neem (*Azadirachta indica*) Polysaccharide by Dr. Amitabha Saha, Department of Chemistry.



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TSEPLBA, INDIA

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HANUMANTH BARKI

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Soil is defined as "the portion of the earth's crust in which land plants can grow, if water and temperature are adequate, if food the mineral nutrients are available, and soil substances are in low concentration" (Miller and Donahue, 1971). The present study was conducted in the high drainage basin of Tseplba, India. The study was conducted in the high drainage basin of Tseplba, India. The study was conducted in the high drainage basin of Tseplba, India.

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1. First principles investigations of structural and optoelectronic properties of cubic  $Mg_xZn_{1-x}Se_yTe_{1-y}$  quaternary semiconductor alloys using FP-LAPW approach Dr. Rahul Bhattacharjee, Department of Physics



2. Structural and optoelectronic properties of cubic  $Mg_xZn_{1-x}SyTe_{1-y}$  semiconductor quaternary alloys-a first principles investigation by Dr. Rahul Bhattacharjee, Department of Physics



3. Calculations of the structural and optoelectronic properties of cubic  $Cd_xZn_{1-x}Se_yTe_{1-y}$  semiconductor quaternary alloys using the DFT-based FP-LAPW approach by Dr. Rahul Bhattacharjee, Department of Physics



4. Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of  $BeS_xSe_{1-x}$ ,  $BeS_xTe_{1-x}$  and  $BeS_xSe_{1-x}Te_{1-x}$  Ternary Alloys by Dr. Rahul Bhattacharjee, Department of Physics



5. First principle investigations of structural and optoelectronic features of cubic  $Cd_xZn_{1-x}S_yTe_{1-y}$  quaternary semiconductor alloys by Dr. Rahul Bhattacharjee, Department of Physics

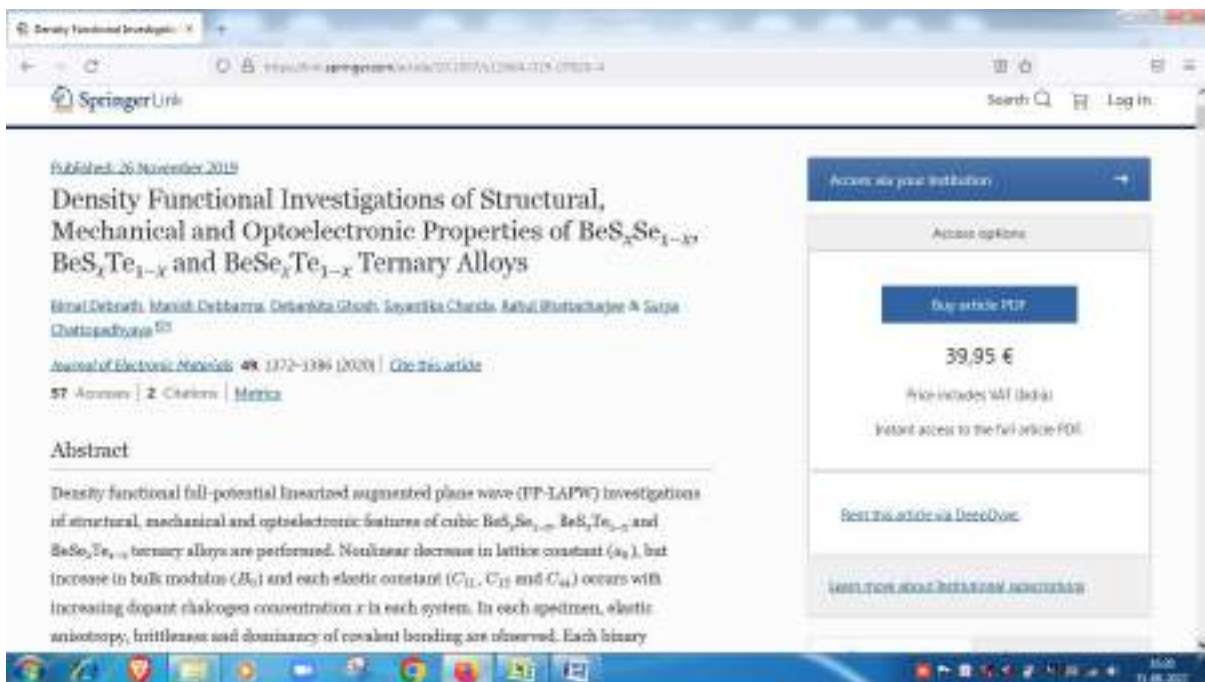


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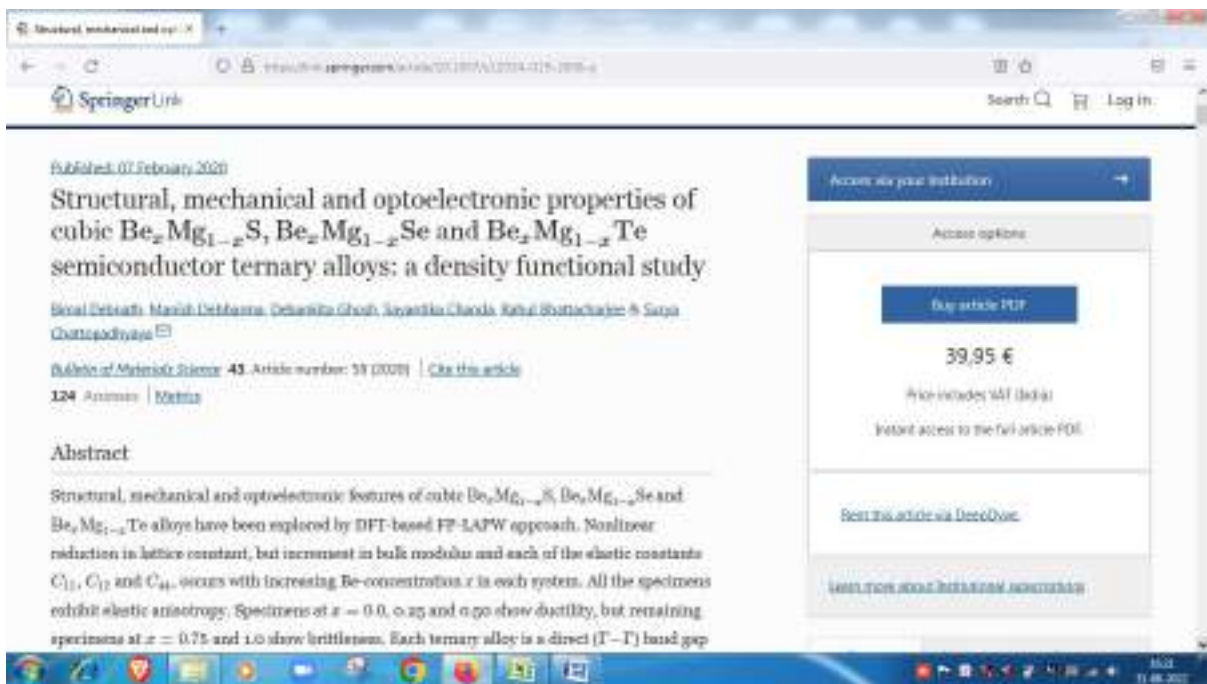
- Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of  $\text{BeS}_x\text{Se}_{1-x}$ ,  $\text{BeS}_x\text{Te}_{1-x}$  and  $\text{BeSe}_x\text{Te}_{1-x}$  Ternary Alloys by Dr. Rahul Bhattacharjee, Department of Physics



- Structural, mechanical and optoelectronic properties of cubic  $\text{Be}_x\text{Mg}_{1-x}\text{S}$ ,  $\text{Be}_x\text{Mg}_{1-x}\text{Se}$  and  $\text{Be}_x\text{Mg}_{1-x}\text{Te}$  semiconductor ternary alloys: a density functional study by Dr. Rahul Bhattacharjee, Department of Physics



9. Density functional study on structural and optoelectronic properties of cubic  $Mg_xZn_{1-x}S_ySe_{1-y}$  semiconductor quaternary alloys by Dr. Rahul Bhattacharjee, Department of Physics



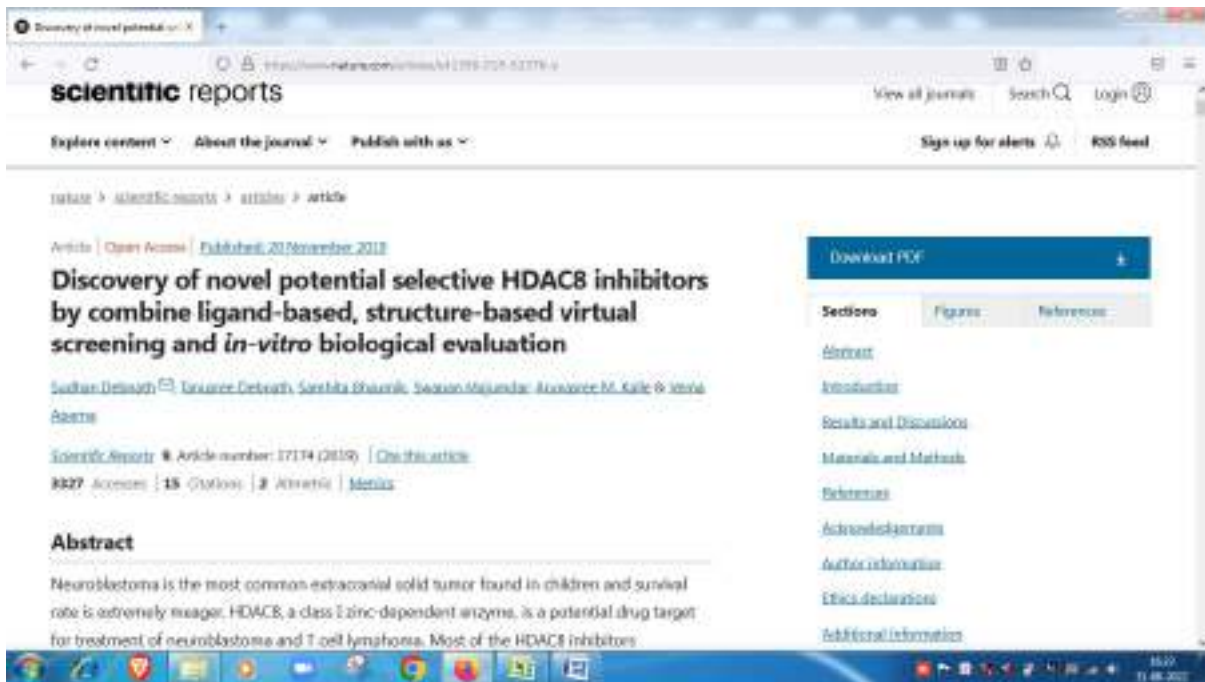
10. Density functional study on structural and optoelectronic properties of cubic  $Mg_xZn_{1-x}S_ySe_{1-y}$  semiconductor quaternary alloys by Dr. Rahul Bhattacharjee, Department of Physics



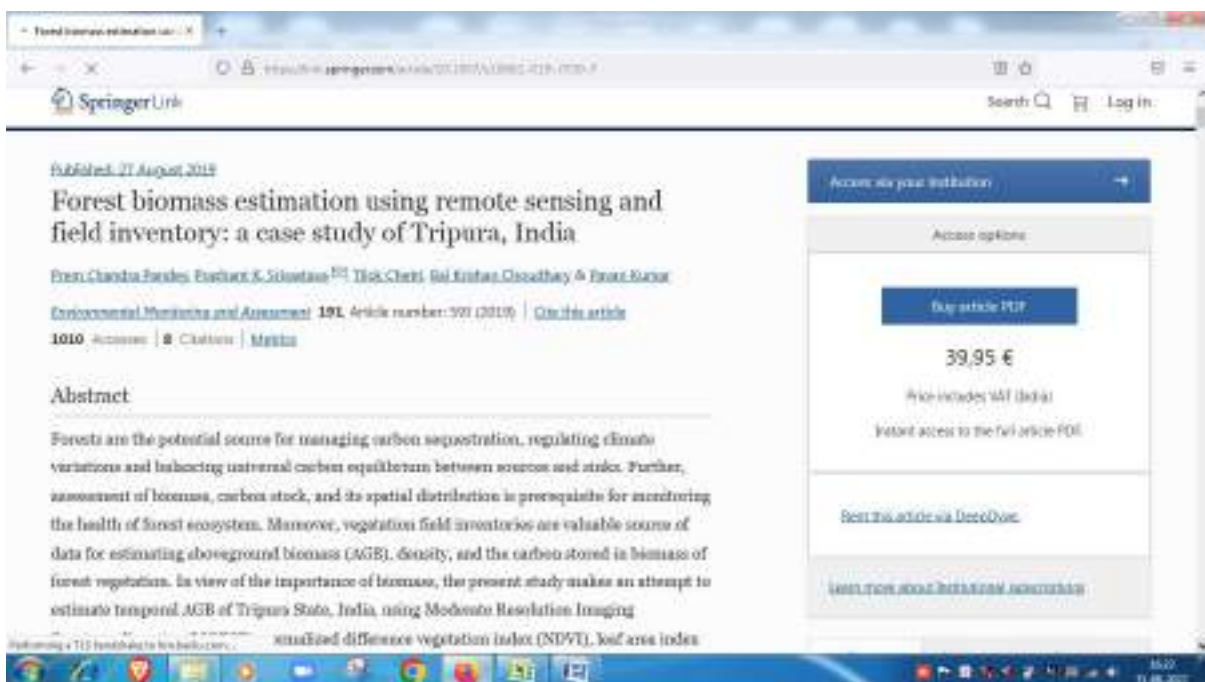
11. Cationic and anionic concentration dependent elastic properties of zinc blende specimens within  $Cd_xZn_{1-x}S_ySe_{1-y}$  quaternary system: Calculations with density functional theory by Dr. Rahul Bhattacharjee, Department of Physics



12. Discovery of novel potential selective HDAC8 inhibitors by combine ligand-based, structure based virtual screening and in-vitro biological evaluation by Dr. Samhita Bhowmik, Department of Chemistry.



13. Forest Biomass estimation using remote sensing and field inventory: a case study of Tripura, India by Dr. Bal Krishan Choudhury, Department of EVS.



14. Potential Biomass Pools and Edaphic Properties of Plantation Forest in Tripura, India by Dr. Bal Krishan Choudhury, Department of EVS.

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Authors:


-  **Bal Krishna Choudhary**  
Nar Bahadri College, Agartala, Tripura, IN
-  **Koushik Majumdar**  
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#### 2020-21

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2. Investigation on aeromycoflora in extramural and intramural environment at Udaipur, Gomati District, Tripura by Dr. Sikha Banik, Department of Botany
3. Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study by Dr. Samhita Bhaumik, Department of Chemistry.



4. In Silico Identification of Potential Inhibitors of the Main Protease of SARS-CoV-2 Using Combined Ligand-Based and Structure-Based Drug Design Approach by Dr. Samhita Bhaumik, Department of Chemistry.



5. In Silico Identification of Potential Inhibitors of ADP-Ribose Phosphatase of SARS-CoV-2 nsP3 by Combining E-Pharmacophore-and Receptor-Based Virtual Screening of Database by Dr. Samhita Bhaumik, Department of Chemistry.



6. Potentiality of Moringa oleifera against SARS-CoV-2: identified by a rational computer aided drug design method by Dr. Samhita Bhaumik, Department of Chemistry.



7. Phytochemicals of Zingiberaceae family exhibit potentiality against SARS-CoV-2 main protease identified by a rational computer-aided drug design by Dr. Samhita Bhaumik, Department of Chemistry.



8. Identification of Potential Scaffolds From the Shrub Justicia Adhatoda Against SARS-CoV-2 Main Protease Target by Dr. Samhita Bhaumik, Department of Chemistry.

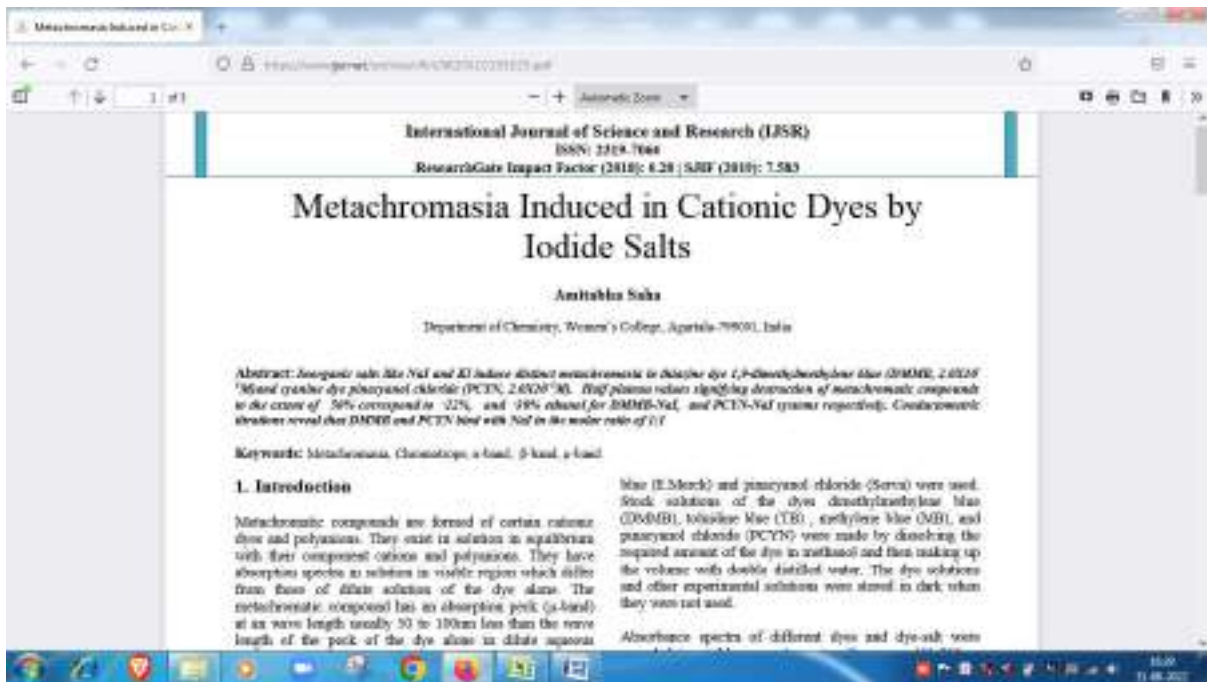




9. Writing Ordinary Lives;: An Analysis of Selected Women’s Memoirs From North-East India by Dr. Somali Saha, Department of English.



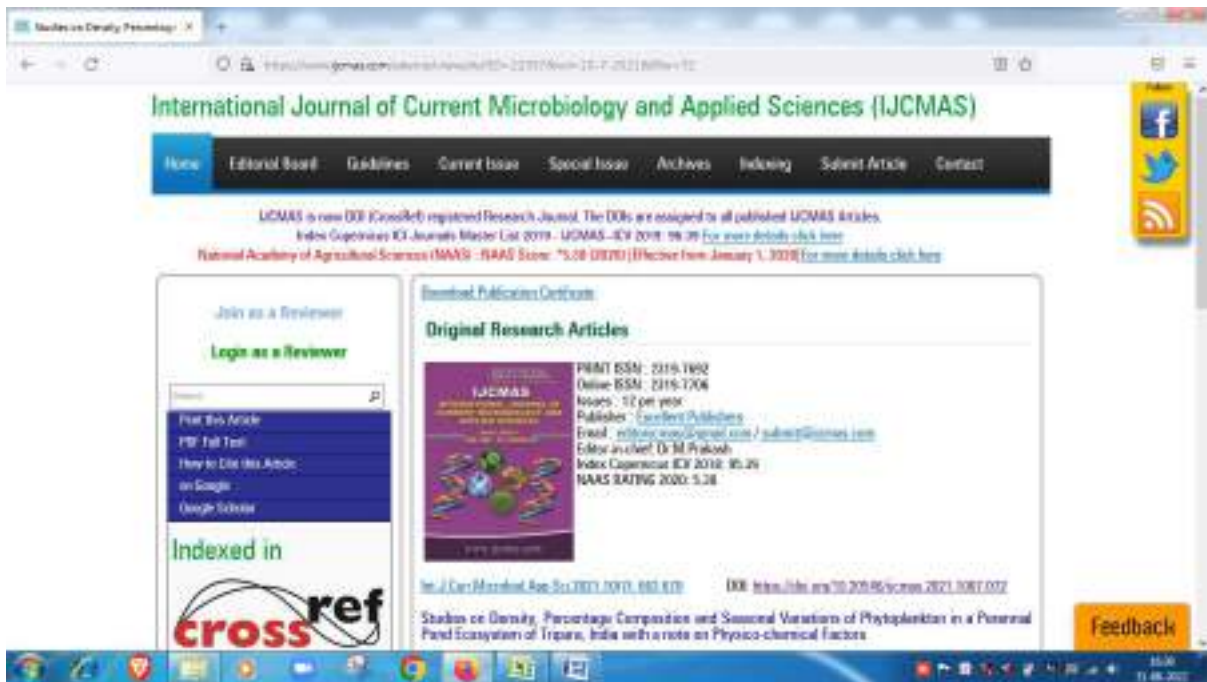
10. Metachromasia induced in cationic dyes by Iodine Salt by Dr Amitabha Saha, Department of Chemistry.



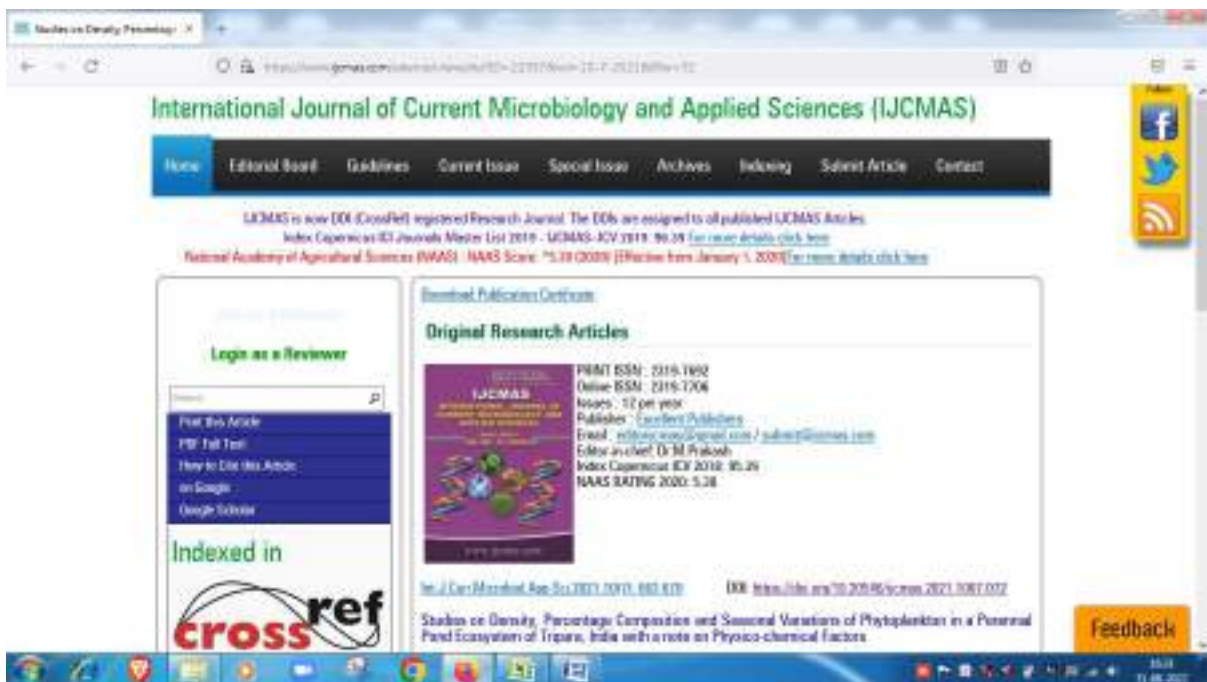
11. A Concise Review Report on Induced Breeding of Indian Major Carps through Pituitary Extract and Synthetic Hormone Analogues by Dr. Saumen Chakraborti, Department of Zoology.



12. Studies on Density, Percentage Composition and Seasonal Variations of Phytoplankton in a Perennial Pond Ecosystem of Tripura, India with a note on Physico-chemical Factors by Dr. Saumen Chakraborti, Department of Zoology.



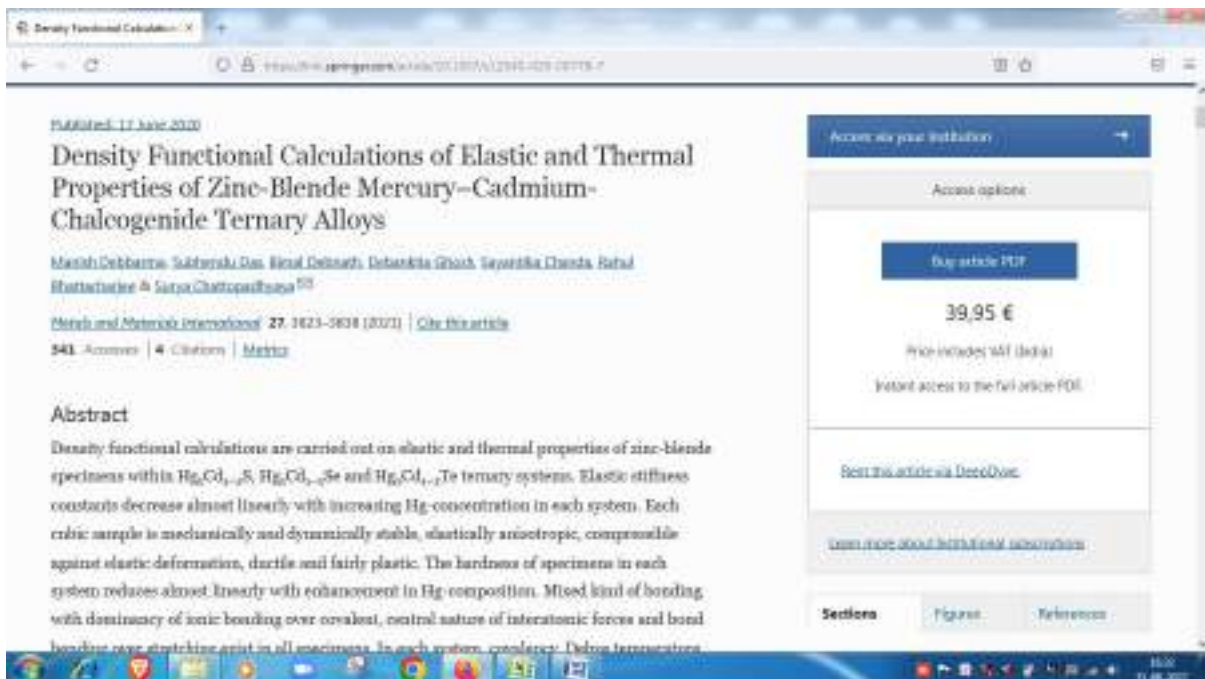
13. A Comparative Study on the Occurrence, Density and Seasonal Variations of Phytoplankton and Zooplankton in a Perennial Pond Ecosystem of Tripura, India by Dr. Saumen Chakraborti, Department of Zoology.



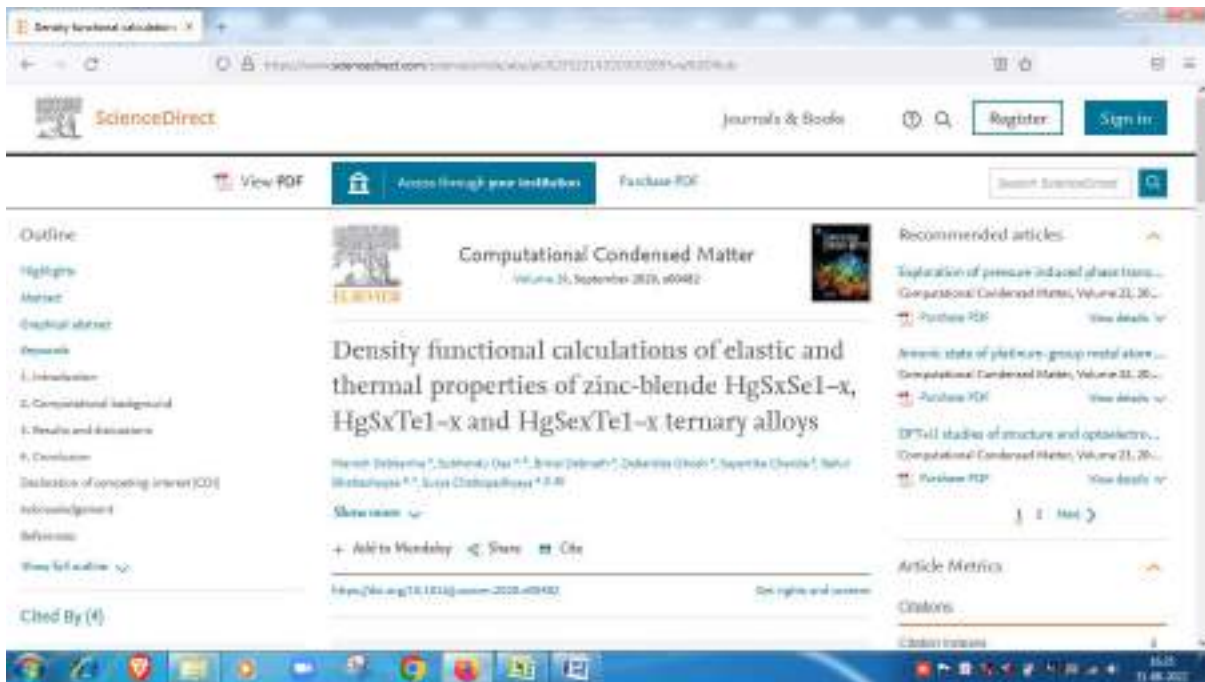
14. A comparative study on the density and seasonal variations of rotifer and copepod fauna in a pond of Tripura, India with a note on water quality parameters by Dr. Saumen Chakraborti, Department of Zoology.



15. Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury–Cadmium-Chalcogenide Ternary Alloys.” By Dr. Rahul Bhattacharjee, Department of Physics.



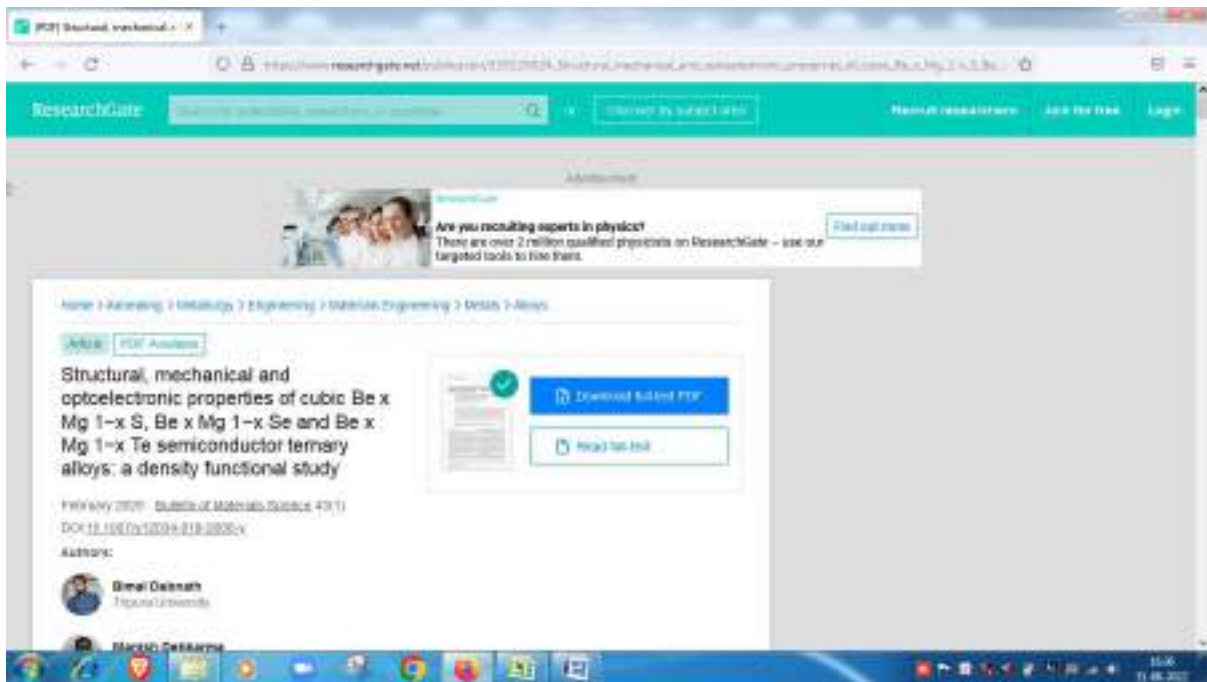
16. “Density functional calculations of elastic and thermal properties of zinc-blende  $Hg_xSxSe_{1-x}$ ,  $Hg_xSxTe_{1-x}$  and  $Hg_xSxTe_{1-x}$  ternary alloys.” By Dr. Rahul Bhattacharjee, Department of Physics.



17. “First-principle calculations of structural and optoelectronic properties of cubic Cd<sub>x</sub>Zn<sub>1-x</sub>S<sub>y</sub>Se<sub>1-y</sub> quaternary alloys with modified Becke–Johnson (mBJ) functional.” By Dr. Rahul Bhattacharjee, Department of Physics.



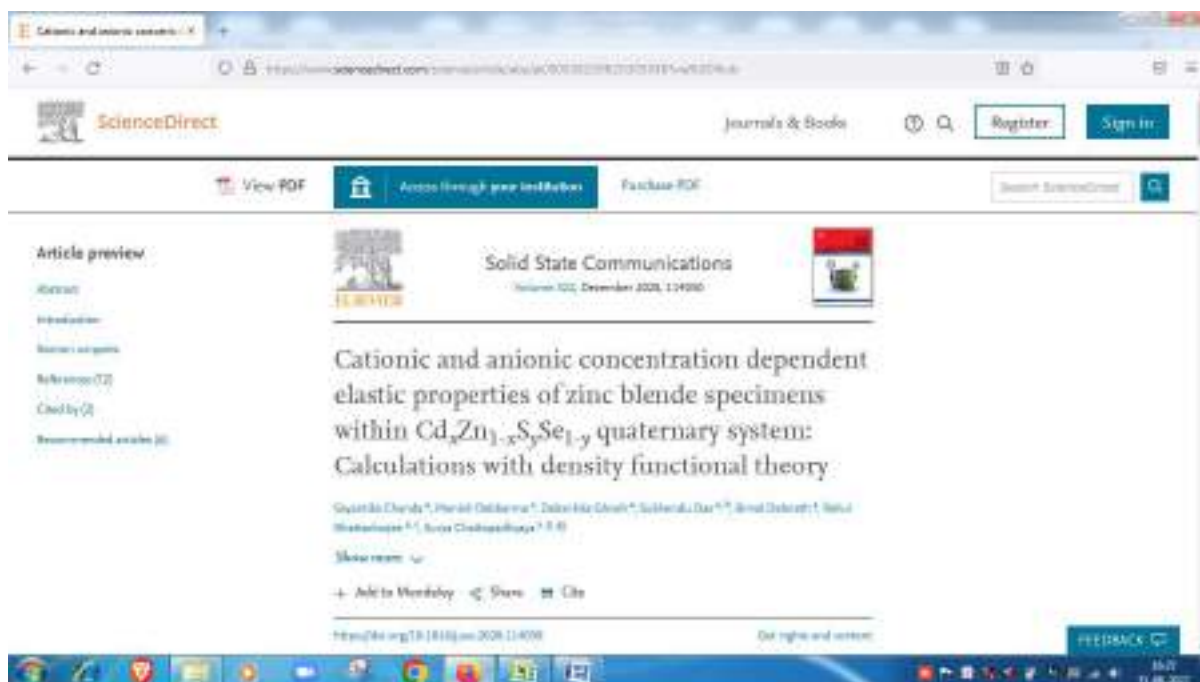
18. “Structural, mechanical and optoelectronic properties of cubic BexMg1-xS, BexMg1-xSe, BexMg1-xS, BexMg1-xSe and BexMg1-xTe, BexMg1-xTe semiconductor ternary alloys: a density functional study.” By Dr. Rahul Bhattacharjee, Department of Physics.



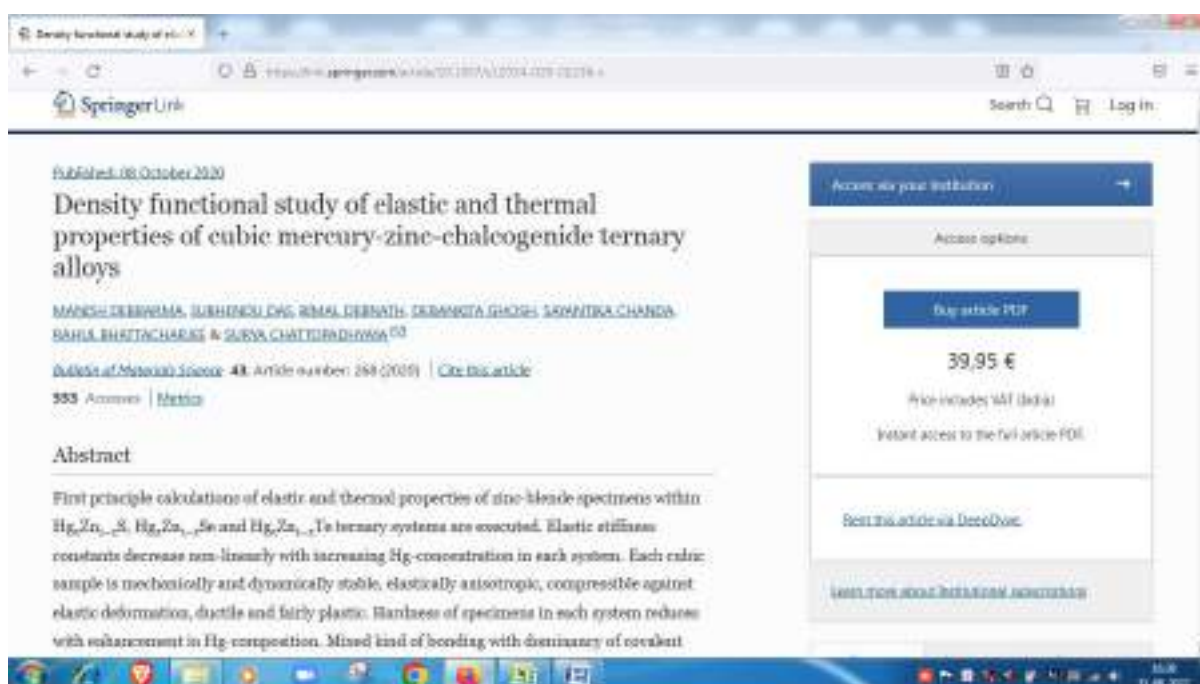
19. “Density functional study on structural and optoelectronic properties of cubic  $Mg_x Zn_{1-x} S_y Se_{1-y}$  semiconductor quaternary alloys.” By Dr. Rahul Bhattacharjee, Department of Physics.



20. “Cationic and anionic concentration dependent elastic properties of zinc blende specimens within  $CdxZn_{1-x}SySe_{1-y}$  quaternary system: Calculations with density functional theory.” By Dr. Rahul Bhattacharjee, Department of Physics.



21. “Density functional study of elastic and thermal properties of cubic mercuryzinc-chalcogenide ternary alloys” by Dr. Rahul Bhattacharjee, Department of Physics.



22. “Cationic and anionic composition-dependent mechanical and thermal properties of zinc-blende specimens under  $MgxZn_{1-x}SySe_{1-y}$ ,  $MgxZn_{1-x}SySe_{1-y}$  quaternary system: calculations with density functional FP-LAPW scheme.” by Dr. Rahul Bhattacharjee, Department of Physics

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### Cationic and anionic composition-dependent mechanical and thermal properties of zinc-blende specimens under $Mg_xZn_{1-x}S_ySe_{1-y}$ quaternary system: calculations with density functional FP-LAPW scheme

Debarajita Ghosh, Manish Debnarna, Savantika Chandra, Rimal Deb Nath, Bahal Bhattacharjee, Sudhendu Das & Satya Chandra Prasad

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#### Abstract

Elastic and thermal properties of zinc-blende  $Mg_xZn_{1-x}S_ySe_{1-y}$  quaternary alloys and their constituent binary/ternary compounds have been computed through first principle calculations. Elastic stiffness constants of specimens have been increased almost linearly with increasing sulfur composition at any fixed magnesium composition, while reverse trends have been observed with increasing magnesium composition at any fixed sulfur composition in each

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3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years (5)

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	ent of the Journal /Digital Object Identifier (doi) number		
						Link to website of the Journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of
<b>2016-17</b>								
1. Carbon Sequestration Potential and Edaphic Properties Along the Plantation Age of Rubber in Tripura, Northeastern India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Current World Environment 11 (3), 756	2016	EISSN: 2320-8031	<a href="http://www.cwejournal.org/">http://www.cwejournal.org/</a>	<a href="http://dx.doi.org/10.12944/CWE.11.3.10">DOI:http://dx.doi.org/10.12944/CWE.11.3.10</a>	UGC CARE-SCIENCE
2. Above ground woody biomass, carbon stocks potential in selected tropical forest patches of Tripura, Northeast India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Open Journal of Ecology 6 (10), 598	2016	ISSN Print: 2162-1965 ISSN Online: 2162-1993	<a href="https://www.scirp.org/journal/open.aspx?PaperID=70814&amp;#abstract">https://www.scirp.org/journal/open.aspx?PaperID=70814&amp;#abstract</a>	<a href="https://www.scirp.org/journal/PaperInformation.aspx?PaperID=70814&amp;#abstract">https://www.scirp.org/journal/PaperInformation.aspx?PaperID=70814&amp;#abstract</a>	Group-II (Web of Science)
3. Effects of Land Use on the Soil Organic Carbon Storage Potentiality and Edaphic Factors in Tripura, Northeast India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	American Journal of Climate Change 5 (5), 417-429	2016	Issn Print: 2167-9495 Issn Online: 2167-9495	<a href="https://www.scirp.org/journal/journalarticles.aspx?journalid=1304">https://www.scirp.org/journal/journalarticles.aspx?journalid=1304</a>	<a href="https://www.scirp.org/journal/paperinformation.aspx?paperid=70585">https://www.scirp.org/journal/paperinformation.aspx?paperid=70585</a>	
4. Applications of Remote Sensing and GIS in Conservation of Resources	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Remote Sensing & GIS Applications in Environmental Sciences 6 (38), 11	2016				

5. Changes of woody species diversity, horizontal and vertical distribution of stems across interior to outside within a primate rich habitat of Northeast India.	<b>Dr. Bal Krishan Choudhury</b>	<b>Department of EVS</b>	Journal of Forestry Research 27 (3), not assigned	2016	Issn:1993-0607	<a href="https://www.springer.com/journal/11676/">https://www.springer.com/journal/11676/</a>	<a href="https://www.researchgate.net/publication/305424693_Changes_of_woody_species_diversity_horizontal_and_vertical_distribution_of_stems_across_interior_to_outside_within_a_primate_rich_habitat_of_Northeast_India">https://www.researchgate.net/publication/305424693_Changes_of_woody_species_diversity_horizontal_and_vertical_distribution_of_stems_across_interior_to_outside_within_a_primate_rich_habitat_of_Northeast_India</a>	Group-II (Web of Science)
6. pH induced interaction of DPPC with a fluorescent dye in Langmuir and Langmuir Blodgett (LB) films.	Dr. Soma Banik	Department of Physics	Molecular Crystals And Liquid Crystals, Taylor & Francis 643 (2017) 255-265	2017	Issn:1542-1406	<a href="https://www.tandfonline.com/">https://www.tandfonline.com/</a>	<a href="https://doi.org/10.1080/15421406.2016.1263103">https://doi.org/10.1080/15421406.2016.1263103</a>	Group-II (Web of Science)
7.FP-LAPW methodology based theoretical investigation of structural, electronic and optical properties of $Mg_xPb_{1-x}S$ , $Mg_xPb_{1-x}Se$ and $Mg_xPb_{1-x}Te$ ternary alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Physics and Chemistry of Solids 100, 57-70	2017	Issn: 0022-3697	<a href="https://www.journals.elsevier.com/journal-of-physics-and-chemistry-of-solids">https://www.journals.elsevier.com/journal-of-physics-and-chemistry-of-solids</a>	<a href="http://dx.doi.org/10.1016%2Fj.jpcs.2016.09.005">http://dx.doi.org/10.1016%2Fj.jpcs.2016.09.005</a>	Group-II (Web of Science)

8. DFT based FP-LAPW investigation of structural, electronic and optical properties of $Sr_xPb_{1-x}S$ , $Sr_xPb_{1-x}Se$ and $Sr_xPb_{1-x}Te$ ternary alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Alloys and Compounds 698, 868-882,	2017	Issn: 0925-8388	<a href="https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds">https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds</a>	<a href="https://doi.org/10.1016/j.jallcom.2016.12.182">https://doi.org/10.1016/j.jallcom.2016.12.182</a>	Group-II (Web of Science)
9. Theoretical study of structural, electronic and optical properties of $Ba_xPb_{1-x}S$ , $Ba_xPb_{1-x}Se$ and $Ba_xPb_{1-x}Te$ ternary alloys using FP-LAPW approach	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Alloys and Compounds 694, 1348-1364	2017	Issn: 0925-8388	<a href="https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds">https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds</a>	<a href="https://doi.org/10.1016/j.jallcom.2016.10.096">https://doi.org/10.1016/j.jallcom.2016.10.096</a>	Group-II (Web of Science)
10. Stability of J-aggregated species in an indocarbocyanine dye in Langmuir–Blodgett Films	Dr. Subrata Deb	Department of Physics	Journal of Luminescence , Volume 179, 287-296	2017	0022-2313 / 1872-7883	<a href="https://www.sciencedirect.com/journal/journal-of-luminescence">https://www.sciencedirect.com/journal/journal-of-luminescence</a>	<a href="https://doi.org/10.1016/j.jlumin.2016.07.027">https://doi.org/10.1016/j.jlumin.2016.07.027</a>	

11. Comparisons between intragastric and small intestinal delivery of corresponding nutrition in the critically ill: a comprehensive approach and meta-analysis	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Scientific Research 1(4) 77-83	2016	ISSN: 2456-0421	<a href="https://www.allscientificjournal.com/">https://www.allscientificjournal.com/</a>	<a href="https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-22">https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-22</a>	
12. Insights about the role of glucocorticoid action in the pathophysiology of the metabolic syndrome	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Scientific Research, 1(4) 68-76	2016	ISSN: 2456-0421	<a href="https://www.allscientificjournal.com/">https://www.allscientificjournal.com/</a>	<a href="https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-21">https://www.allscientificjournal.com/archives/2016/vol1/issue4/1-4-21</a>	
13. A glimpse of fructose, insulin resistance, and metabolic dyslipidemia.	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Science and Research, 1(7) 37-46	2016	ISSN: 2455-4227	<a href="https://www.allsciencejournal.com/">https://www.allsciencejournal.com/</a>	<a href="https://www.allsciencejournal.com/search?keyword=A+glimpse+of+fructose%2C+insulin+resistance%2C+and+metabolic+dyslipidemia">https://www.allsciencejournal.com/search?keyword=A+glimpse+of+fructose%2C+insulin+resistance%2C+and+metabolic+dyslipidemia</a>	

14. A comprehensive biofeedback of beta-hydroxy-beta-methylbutyrate (HMB) on exercise physiology and body composition across varying levels of age, sex, and training experience	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Advanced Science and Research, 1(7) 23-36	2016	ISSN: 2455-4227	<a href="https://www.allsciencejournal.com/search?keyword=A+comprehensive+biofeedback+of+beta-hydroxy-beta-methylbutyrate+%28HMB%29+on+exercise+physiology+and+body+composition+across+varying+levels+of+age%2C+sex%2C+and+training+experience">https://www.allsciencejournal.com/search?keyword=A+comprehensive+biofeedback+of+beta-hydroxy-beta-methylbutyrate+%28HMB%29+on+exercise+physiology+and+body+composition+across+varying+levels+of+age%2C+sex%2C+and+training+experience</a>	
15. An insight of consequences of body weight on altered expression of nuclear receptors and interrelation of cyclooxygenase-2 in human colorectal cancers	Dr Amitabha Kar & Sankari Das	Department of Human Physiology	International Journal of Applied Research (IJAR), 3 (4)577-584ISSN Print: 2394-7500	2016	ISSN Online: 2394-5869	<a href="https://www.allresearchjournal.com/archives/?year=2017&amp;vol=3&amp;issue=4&amp;part=I&amp;ArticleId=3594">https://www.allresearchjournal.com/archives/?year=2017&amp;vol=3&amp;issue=4&amp;part=I&amp;ArticleId=3594</a>	<a href="https://www.allresearchjournal.com/">https://www.allresearchjournal.com/</a>
<b>2017-2018</b>							
1. Applications of Remote Sensing and GIS in Land Resource Management	Dr Bal krishan Choudhary	Department of EVS	E-PG Pathsala – Module- Environmental Science 6 (29), 18.	2017		<a href="https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==">https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==</a>	<a href="https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==">https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=0Xvg9yUM2ILDrJ07FvlArQ==</a>

2. Do institutions affect Economic Growth? An Empirical Analysis of Selected South Asian Countries	Dr. Jayanti Bhattacharjee	Department of Economics	Asian Journal of Comparative Politics, 2(3), 243-260	2017	2057-8911 / 2057-892X	<a href="https://journals.sagepub.com/home/acp">https://journals.sagepub.com/home/acp</a>	<a href="https://doi.org/10.1177/2057891116671833">https://doi.org/10.1177/2057891116671833</a>	Group-II (Web of Science):Arts & Humanities
3. Effects of barium (Ba) doping on structural, electronic and optical properties of binary strontium chalcogenide semiconductor compounds - A theoretical investigation using DFT based FP-LAPW approach.	Dr. Rahul Bhattacharjee	Department of Physics	Materials Chemistry and Physics 199, 295-312	2017	0254-0584 / 1879-3312	<a href="https://www.sciencedirect.com/journal/materials-chemistry-and-physics/vol/115/issue/1">https://www.sciencedirect.com/journal/materials-chemistry-and-physics/vol/115/issue/1</a>	<a href="https://doi.org/10.1016/j.matchemphys.2017.06.057">https://doi.org/10.1016/j.matchemphys.2017.06.057</a>	Group-II (Web of Science)
4. Theoretical investigation of structural, electronic and optical properties of $Mg_xBa_{1-x}S$ , $Mg_xBa_{1-x}Se$ and $Mg_xBa_{1-x}Te$ ternary alloys using DFT based FP-LAPW approach	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Physics and Chemistry of Solids 110, 15-29	2017	0022-3697 / 1879-2553	<a href="https://www.sciencedirect.com/journal/journal-of-physics-and-chemistry-of-solids">https://www.sciencedirect.com/journal/journal-of-physics-and-chemistry-of-solids</a>	<a href="https://doi.org/10.1016/j.jpccs.2017.05.015">https://doi.org/10.1016/j.jpccs.2017.05.015</a>	Group-II (Web of Science)

<p>5. Effects of doping of calcium atom(s) on structural, electronic and optical properties of binary strontium chalcogenides - A theoretical investigation using DFT based FP-LAPW methodology</p>	<p>Dr. Rahul Bhattacharjee</p>	<p>Department of Physics</p>	<p>Solid State Sciences 71, 92-110</p>	<p>2017</p>	<p>1293-2558 / 1873-3085</p>	<p><a href="https://www.sciencedirect.com/journal/solid-state-sciences">https://www.sciencedirect.com/journal/solid-state-sciences</a></p>	<p><a href="http://dx.doi.org/10.1016%2Fj.solidstatesciences.2017.06.010">http://dx.doi.org/10.1016%2Fj.solidstatesciences.2017.06.010</a></p>	<p>Group-II (Web of Science)</p>
<p>6. Influence of doping of mercury atom(s) on optoelectronic properties of binary cadmium chalcogenides - A density functional theory based investigation with different exchange-correlation functionals and including spin-orbit coupling</p>	<p>Dr. Rahul Bhattacharjee</p>	<p>Department of Physics</p>	<p>Current Applied Physics 18 (6), 698-716</p>	<p>2018</p>	<p>1567-1739 / 1878-1675</p>	<p><a href="https://www.sciencedirect.com/journal/current-applied-physics">https://www.sciencedirect.com/journal/current-applied-physics</a></p>	<p><a href="https://doi.org/10.1016/j.cap.2018.03.010">https://doi.org/10.1016/j.cap.2018.03.010</a></p>	<p>Group-II (Web of Science)</p>

7. Modification of band gaps and optoelectronic properties of binary calcium chalcogenides by means of doping of magnesium atom(s) in rock-salt phase- a first principle based theoretical initiative	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Solid State Chemistry 258, 358-375	2018	0022-4596 / 1095-726X	<a href="https://www.sciencedirect.com/journal/journal-of-solid-state-chemistry">https://www.sciencedirect.com/journal/journal-of-solid-state-chemistry</a>	<a href="https://doi.org/10.1016/j.jssc.2017.10.028">https://doi.org/10.1016/j.jssc.2017.10.028</a>	Group-II (Web of Science)
8. Effects of doping of mercury atom (s) on optoelectronic properties of binary zinc chalcogenides-A first principle based theoretical investigation.	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Alloys and Compounds 748, 446-463,	2018	0925-8388 / 1873-4669	<a href="https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds">https://www.sciencedirect.com/journal/journal-of-alloys-and-compounds</a>	<a href="https://doi.org/10.1016/j.jallcom.2018.03.093">https://doi.org/10.1016/j.jallcom.2018.03.093</a>	Group-II (Web of Science)
9. Modified aggregation pattern of cresyl violet acetate adsorbed on nano clay mineral layers in Langmuir Blodgett film. 353 (2018) 570-580.	Dr. Soma Banik	Department of Physics	Journal of Photochemistry and Photobiology A: Chemistry	2017	1010-6030 / 1873-2666	<a href="https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry">https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry</a>	<a href="https://doi.org/10.1016/j.jphotochem.2017.12.013">https://doi.org/10.1016/j.jphotochem.2017.12.013</a>	Group-II (Web of Science)



10. Effect of nano clay Laponite on stability of SHG active J-aggregate of a thiocyanine dye onto LB films	Dr. Subrata Deb	Department of Physics	<b>Applied Clay Science</b> 147 (2017) 105–116	2017	0169-1317 / 1872-9053	<a href="https://www.sciencedirect.com/journal/applied-clay-science">https://www.sciencedirect.com/journal/applied-clay-science</a>	<a href="https://doi.org/10.1016/j.clay.2017.07.013">https://doi.org/10.1016/j.clay.2017.07.013</a>	Group-II (Web of Science)
<b>2018-2019</b>								
1. Economic Integration and South Asia: Exploring Spillover Effects for North-East India	Dr. Jayanti Bhattacharjee	Department of Economics	International Journal of Advance and Innovative Research 5(4), 86-93	2018	2394-7780	<a href="https://iaraedu.com/about-journal/index.php">https://iaraedu.com/about-journal/index.php</a>	<a href="https://iaraedu.com/about-journal/ijair-volume-v-issue-4-xii-october-december.php">https://iaraedu.com/about-journal/ijair-volume-v-issue-4-xii-october-december.php</a>	
2. Soap Opera and its audience reception: A review of shifting paradigm pp.87-101	Sudeshna Chanda	Department of Sociology	Lokaratna Vol XI-Part 1, 31st March 2018	2018	2347-6427	<a href="https://folklorefoundation.org/lokaratna/">https://folklorefoundation.org/lokaratna/</a>	<a href="https://folklorefoundation.org/wp-content/uploads/2021/07/375427042-Lokaratna-Vol-XI-I-2018.pdf">https://folklorefoundation.org/wp-content/uploads/2021/07/375427042-Lokaratna-Vol-XI-I-2018.pdf</a>	
3. Determinants of Non-Performing Assets in Banks in India: A Panel Data Analysis	Dr. Jayanti Bhattacharjee	Department of Economics	International Journal of Advance and Innovative Research Vol.5, Issue 3 (IV), 63-68	2018	2394-7780	<a href="https://iaraedu.com/about-journal/index.php">https://iaraedu.com/about-journal/index.php</a>	<a href="https://iaraedu.com/pdf/ijair-volume-5-issue-3-iv-july-september-2018.pdf">https://iaraedu.com/pdf/ijair-volume-5-issue-3-iv-july-september-2018.pdf</a>	

4. Effect of nano clay platelets on the hybrid monolayer of a cationic oxazine dye: In-situ Brewster Angle Microscopic (BAM) study. 5 (2018) 2352-2358.	Dr. Soma Banik	Department of Physics	Materials Today: Proceedings, Elsevier	2018	2214-7853	<a href="https://www.sciencedirect.com/journal/materials-today-proceedings">https://www.sciencedirect.com/journal/materials-today-proceedings</a>	<a href="https://doi.org/10.1016/j.matpr.2017.09.241">https://doi.org/10.1016/j.matpr.2017.09.241</a>	
5. Study of aggregation behavior of water insoluble metalloporphyrin (Zn) in LB film	Dr. Soma Banik	Department of Physics	Materials Today: Proceedings, Elsevier, 5 (2018)	2018	2214-7853	<a href="https://www.sciencedirect.com/journal/materials-today-proceedings">https://www.sciencedirect.com/journal/materials-today-proceedings</a>	<a href="https://doi.org/10.1016/j.matpr.2017.09.226">https://doi.org/10.1016/j.matpr.2017.09.226</a>	
6. Optoelectronic properties of CaBaX (X=S, Se and Te) alloys: A first principles investigation employing modified Becke–Johnson (mBJ) functional	Dr. Rahul Bhattacharjee	Department of Physics	International Journal of Modern Physics B 33 (07)	2019	0217-9792 / 1793-6578	<a href="https://www.worldscientific.com/worldscinet/ijmp">https://www.worldscientific.com/worldscinet/ijmp</a>	<a href="https://doi.org/10.1142/S0217979219500425">https://doi.org/10.1142/S0217979219500425</a>	UGC CARE-SCIENCE

7. Density functional calculations of structural, elastic and optoelectronic features of $Mg_xZn_{1-x}S$ , $Mg_xZn_{1-x}Se$ and $Mg_xZn_{1-x}Te$ alloys	Dr. Rahul Bhattacharjee	Department of Physics	Materials Chemistry and Physics 230, 54-77	2019	0254-0584 / 1879-3312	<a href="https://www.sciencedirect.com/journal/materials-chemistry-and-physics">https://www.sciencedirect.com/journal/materials-chemistry-and-physics</a>	<a href="https://doi.org/10.1016/j.matchemphys.2019.03.050">https://doi.org/10.1016/j.matchemphys.2019.03.050</a>	UGC CARE-SCIENCE
8. Violence Against Women in Popular Bengali Soap Opera Texts: Interpreting Female Viewer's Reception in Urban Tripura.	Sudeshna Chanda	Department of Sociology	The Eastern Anthropologist, Vol.71, No. 1-2	2018	0012-8686	<a href="https://serialsjournals.com/index.php?route=product/product&amp;product_id=377">https://serialsjournals.com/index.php?route=product/product&amp;product_id=377</a>	<a href="https://www.academia.edu/40175953/VIOLENCE_AGAINST_WOMEN_IN_POPULAR_BENGLI_SOAP_OPERA_TEXTS_INTERPRETING_FEMALE_VIEWERS_RECEPTION_IN_URBAN_TRIPURA">https://www.academia.edu/40175953/VIOLENCE_AGAINST_WOMEN_IN_POPULAR_BENGLI_SOAP_OPERA_TEXTS_INTERPRETING_FEMALE_VIEWERS_RECEPTION_IN_URBAN_TRIPURA</a>	UGC CARE-Group 1
9. Metachromasia induced in Cationic dyes by neem (Azadiracta indica) Polysaccharide	Dr. Amitabha Saha	Department of Chemistry	International Journal of Science and Research.	2018	2319-7064	<a href="https://www.ijsr.net/">https://www.ijsr.net/</a>	<a href="https://www.ijsr.net/archive/v7i7/ART2019131.pdf">https://www.ijsr.net/archive/v7i7/ART2019131.pdf</a>	
9. Major causes of soil degradation in Haora drainage basin, Tripura, India	Hiraxmi Deb Barma		IJSSER	2018	2455-8834	<a href="https://ijsser.org/">https://ijsser.org/</a>	<a href="https://ijsser.org/more2018.php?id=309">https://ijsser.org/more2018.php?id=309</a>	
<b>2019-2020</b>								

1. First principles investigations of structural and optoelectronic properties of cubic $Mg_xZn_{1-x}Se_yTe_{1-y}$ quaternary semiconductor alloys using FP-LAPW approach.	Dr. Rahul Bhattacharjee	Department of Physics	Applied Physics A 125 (2019) 644-667	2019	0947-8396 / 1432-0630	<a href="https://www.researchgate.net/journal/Applied-Physics-A-1432-0630">https://www.researchgate.net/journal/Applied-Physics-A-1432-0630</a>	<a href="https://link.springer.com/article/10.1007%2Fs00339-019-2938-5">https://link.springer.com/article/10.1007%2Fs00339-019-2938-5</a>	UGC Care List-II (Web of Science)
2. Structural and optoelectronic properties of cubic $Mg_xZn_{1-x}S_yTe_{1-y}$ semiconductor quaternary alloys-a first principles investigation.	Dr. Rahul Bhattacharjee	Department of Physics	Physica B 574 (2019) 411669 -88	2019	0921-4526 / 1873-2135	<a href="https://www.sciencedirect.com/journal/physica-b-condensed-matter">https://www.sciencedirect.com/journal/physica-b-condensed-matter</a>	<a href="https://doi.org/10.1016/j.physb.2019.411669">https://doi.org/10.1016/j.physb.2019.411669</a>	UGC Care List-II (Web of Science)
3. Calculations of the structural and optoelectronic properties of cubic $Cd_xZn_{1-x}Se_yTe_{1-y}$ semiconductor quaternary alloys using the DFT-based FP-LAPW approach.	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Computational Electronics (2019) 2-25	2020	1569-8025 / 1572-8137	<a href="https://www.springer.com/journal/10825">https://www.springer.com/journal/10825</a>	<a href="https://link.springer.com/article/10.1007/s10825-019-01409-0">https://link.springer.com/article/10.1007/s10825-019-01409-0</a>	UGC Care List-II (Web of Science)

4. Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of $\text{BeS}_x\text{Se}_{1-x}$ , $\text{BeS}_x\text{Te}_{1-x}$ and $\text{BeSe}_x\text{Te}_{1-x}$ Ternary Alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of ELECTRONIC MATERIALS (2019) 1-15	2019	0361-5235 / 1543-186X	<a href="https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X">https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X</a>	<a href="http://dx.doi.org/10.1007/s11664-019-07820-4">http://dx.doi.org/10.1007/s11664-019-07820-4</a>	UGC Care List-II (Web of Science)
5. First principle investigations of structural and optoelectronic features of cubic $\text{Cd}_x\text{Zn}_{1-x}\text{S}_y\text{Te}_{1-y}$ quaternary semiconductor alloys.	Dr. Rahul Bhattacharjee	Department of Physics	Optik - International Journal for Light and Electron Optics 201(2020) 163510-28	2020	0030-4026 / 1618-1336	<a href="https://www.sciencedirect.com/journal/optik">https://www.sciencedirect.com/journal/optik</a>	<a href="https://doi.org/10.1016/j.ijleo.2019.163510">https://doi.org/10.1016/j.ijleo.2019.163510</a>	UGC Care List-II (Web of Science)
6. Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury–Cadmium-Chalcogenide Ternary Alloys	Dr. Rahul Bhattacharjee	Department of Physics	Metals and Materials International	2020	1598-9623 / 2005-4149	<a href="https://www.springerprofessional.de/en/metals-and-materials-international/4943136">https://www.springerprofessional.de/en/metals-and-materials-international/4943136</a>	<a href="https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7">https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7</a>	UGC Care List-II (Web of Science)

7. Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of BeS <sub>x</sub> Se <sub>1-x</sub> , BeS <sub>x</sub> Te <sub>1-x</sub> and BeS <sub>x</sub> Te <sub>1-x</sub> Ternary Alloys	Dr. Rahul Bhattacharjee	Department of Physics	Journal of Electronic Materials	2020	0361-5235 / 1543-186X	<a href="https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X">https://www.researchgate.net/journal/Journal-of-Electronic-Materials-1543-186X</a>	<a href="http://dx.doi.org/10.1007/s11664-019-07820-4">http://dx.doi.org/10.1007/s11664-019-07820-4</a>	UGC Care List-II (Web of Science)
8. Structural, mechanical and optoelectronic features of cubic Mg <sub>x</sub> Cd <sub>1-x</sub> S, Mg <sub>x</sub> Cd <sub>1-x</sub> Se and Mg <sub>x</sub> Cd <sub>1-x</sub> Te semiconductor ternary alloys: Theoretical investigations using density functional FP-LAPW approach	Dr. Rahul Bhattacharjee	Department of Physics	Computational Condensed Matter	2020	2352-2143	<a href="https://www.sciencedirect.com/journal/computational-condensed-matter">https://www.sciencedirect.com/journal/computational-condensed-matter</a>	<a href="https://doi.org/10.1016/j.cocom.2019.e00448">https://doi.org/10.1016/j.cocom.2019.e00448</a>	UGC Care List-II (Web of Science)

9. Structural, mechanical and optoelectronic properties of cubic Be <sub>x</sub> Mg <sub>1-x</sub> S, Be <sub>x</sub> Mg <sub>1-x</sub> Se and Be <sub>x</sub> Mg <sub>1-x</sub> Te semiconductor ternary alloys: a density functional study	Dr. Rahul Bhattacharjee	Department of Physics	Bulletin of Materials Science	2020	0250-4707 / 0973-7669	<a href="https://www.springer.com/journal/12034">https://www.springer.com/journal/12034</a>	<a href="https://doi.org/10.1007/s12034-019-2006-y">https://doi.org/10.1007/s12034-019-2006-y</a>	UGC Care List-II (Web of Science)
10. Density functional study on structural and optoelectronic properties of cubic Mg <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Se <sub>1-y</sub> semiconductor quaternary alloys	Dr. Rahul Bhattacharjee	Department of Physics	Pramana - Journal of Physics	2020	0304-4289 / 0973-7111	<a href="https://www.researchgate.net/journal/Pramana-0973-7111">https://www.researchgate.net/journal/Pramana-0973-7111</a>	<a href="http://dx.doi.org/10.1007/s12043-020-01975-0">http://dx.doi.org/10.1007/s12043-020-01975-0</a>	UGC Care List-II (Web of Science)
11. Cationic and anionic concentration dependent elastic properties of zinc blende specimens within Cd <sub>x</sub> Zn <sub>1-x</sub> S <sub>y</sub> Se <sub>1-y</sub> quaternary system: Calculations with density functional theory	Dr. Rahul Bhattacharjee	Department of Physics	Solid State Communications	2020	0038-1098 / 1879-2766	<a href="https://www.sciencedirect.com/journal/solid-state-communications">https://www.sciencedirect.com/journal/solid-state-communications</a>	<a href="https://doi.org/10.1016/j.ssc.2020.114050">https://doi.org/10.1016/j.ssc.2020.114050</a>	UGC Care List-II (Web of Science)

12. Discovery of novel potential selective HDAC8 inhibitors by combine ligand-based, structurebased virtual screening and in-vitro biological evaluation	Dr Samhita Bhowmik	Department of Chemistry	Scientific Reports	2019	2045-2322	<a href="https://www.nature.com/srep/">https://www.nature.com/srep/</a>	<a href="https://www.nature.com/articles/s41598-019-53376-y">https://www.nature.com/articles/s41598-019-53376-y</a>	UGC Care List-II (Web of Science)
13. Forest Biomass estimation using remote sensing and field inventory: a case study of Tripura, India	Dr. Bal Krishan Choudhury	Department of EVS	Environment Monitoring and Assessment	2019	0167-6369 / 1573-2959	<a href="https://www.researchgate.net/journal/Environmental-Monitoring-and-Assessment-1573-2959">https://www.researchgate.net/journal/Environmental-Monitoring-and-Assessment-1573-2959</a>	<a href="https://link.springer.com/article/10.1007%2Fs10661-019-7730-7">https://link.springer.com/article/10.1007%2Fs10661-019-7730-7</a>	UGC Care List-II (Web of Science)
14. Potential Biomass Pools and Edaphic Properties of Plantation Forest in Tripura, India	Dr. Bal Krishan Choudhury	Department of EVS	International Journal of Ecology and Environmental Sciences 45 (4): 369-381, 2019	2019		<a href="https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India">https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India</a>	<a href="https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India">https://www.researchgate.net/publication/338247884_Potential_Biomass_Pools_and_Edaphic_Properties_of_Plantation_Forest_in_Tripura_India</a>	
2020-2021								



1. Tarashankarer jibon darshan o Arogyaniketan	Dr Nivedita Dhar	Department of Bengali	Ebong Mohua,136 volume, Golekauchawk, Midnapur, W.B	2020				UGC Care List-I
2. Investigation on aeromycoflora in extramural and intramural environment at Udaipur, Gomati District, Tripura	Dr. Sikha Banik	Department of Botany	Indian Journal of Aerobiology	2021				
3. Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study	Dr. Samhita Bhaumik	Department of Chemistry	Journal of Biomolecular Structure and Dynamics	2020	0739-1102 / 1538-0254	<a href="https://www.tandfonline.com/journals/tbsd20">https://www.tandfonline.com/journals/tbsd20</a>	<a href="https://doi.org/10.1080/07391102.2020.1819883">https://doi.org/10.1080/07391102.2020.1819883</a>	UGC Care List-II (Web of Science)
4. In Silico Identification of Potential Inhibitors of the Main Protease of SARS-CoV-2 Using Combined Ligand-Based and Structure-Based Drug Design Approach	Dr. Samhita Bhaumik	Department of Chemistry	Eurasian Journal of Medicine and Oncology	2020	2587-2400 / 2587-196X	<a href="https://ejmo.org/volume/4/issue/4">https://ejmo.org/volume/4/issue/4</a>	<a href="https://dx.doi.org/10.14744/ejmo.2020.91768">https://dx.doi.org/10.14744/ejmo.2020.91768</a>	UGC Care List-II (Web of Science)

5. In Silico Identification of Potential Inhibitors of ADP-Ribose Phosphatase of SARS-CoV-2 nsP3 by Combining E-Pharmacophore-and Receptor-Based Virtual Screening of Database	Dr. Samhita Bhaumik	Department of Chemistry	Chemistry Select	2020	2365-6549	<a href="https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549">https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549</a>	<a href="https://dx.doi.org/10.1002%2Fslct.202001419">https://dx.doi.org/10.1002%2Fslct.202001419</a>	UGC Care List-II (Web of Science)
6. Potentiality of Moringa oleifera against SARS-CoV-2: identified by a rational computer aided drug design method	Dr. Samhita Bhaumik	Department of Chemistry	Journal of Biomolecular Structure and Dynamics	2021	0739-1102 / 1538-0254	<a href="https://www.tandfonline.com/journals/tbsd20">https://www.tandfonline.com/journals/tbsd20</a>	<a href="https://doi.org/10.1080/07391102.2021.1898475">https://doi.org/10.1080/07391102.2021.1898475</a>	UGC Care List-II (Web of Science)
7. Phytochemicals of Zingiberaceae family exhibit potentiality against SARS-CoV-2 main protease identified by a rational computer-aided drug design	Dr. Samhita Bhaumik	Department of Chemistry	Natural Product Research	2021	1478-6419 / 1478-6427	<a href="https://www.tandfonline.com/journals/gnpl20">https://www.tandfonline.com/journals/gnpl20</a>	<a href="https://doi.org/10.1080/14786419.2021.1994563">https://doi.org/10.1080/14786419.2021.1994563</a>	UGC Care List-II (Web of Science)

8. Identification of Potential Scaffolds From the Shrub <i>Justicia Adhatoda</i> Against SARS-CoV-2 Main Protease Target	Dr. Samhita Bhaumik	Department of Chemistry	International Journal of Quantitative Structure-Property Relationships (IJQSPR)	2021	2379-7479/2379-7487	<a href="https://www.researchgate.net/journal/International-Journal-of-Quantitative-Structure-Property-Relationships-2379-7487">https://www.researchgate.net/journal/International-Journal-of-Quantitative-Structure-Property-Relationships-2379-7487</a>	<a href="http://dx.doi.org/10.4018/IJQSPR.2021100104">http://dx.doi.org/10.4018/IJQSPR.2021100104</a>	UGC Care List-I
9. Writing Ordinary Lives;: An Analysis of Selected Women's Memoirs From North-East India	Dr. Somali Saha	Department of English	Langlit: An International Peer-Reviewed Open Access Journal	2021	2349-5189	<a href="https://www.langlit.org/">https://www.langlit.org/</a>	<a href="https://drive.google.com/file/d/1rnPuvoeAXe6fpHTy7jJ1sn7-cxj95LkA/view">https://drive.google.com/file/d/1rnPuvoeAXe6fpHTy7jJ1sn7-cxj95LkA/view</a>	
10. Metachromasia induced in cationic dyes by Iodine Salt	Dr Amitabha Saha	Department of Chemistry	International Journal of Science and Research	2020		<a href="https://www.ijsr.net/">https://www.ijsr.net/</a>	<a href="https://www.ijsr.net/archive/v9i4/SR20410193025.pdf">https://www.ijsr.net/archive/v9i4/SR20410193025.pdf</a>	
11. A Concise Review Report on Induced Breeding of Indian Major Carps through Pituitary Extract and Synthetic Hormone Analogues	Dr. Saumen Chakraborti	Department of Zoology	International Journal of Recent Scientific Research Vol. 11, Issue 11(A), pp. 40011-40016, November, 2020	2020	0976-3031	<a href="http://www.recentscientific.com/">http://www.recentscientific.com/</a>	<a href="http://www.recentscientific.com/concise-review-report-induced-breeding-indian-major-carps-through-pituitary-extract-and-synthetic-ho">http://www.recentscientific.com/concise-review-report-induced-breeding-indian-major-carps-through-pituitary-extract-and-synthetic-ho</a>	
12. Studies on Density, Percentage Composition and Seasonal Variations of Phytoplankton in a Perennial Pond Ecosystem of Tripura, India with a note on Physico-chemical Factors	Dr. Saumen Chakraborti	Department of Zoology	International Journal of Current Microbiology and Applied Sciences 10(07): 662-670, 2021	2021	2319-7706	<a href="https://www.ijcmas.com/">https://www.ijcmas.com/</a>	<a href="https://doi.org/10.20546/ijcmas.2021.1007.072">https://doi.org/10.20546/ijcmas.2021.1007.072</a>	

13. A Comparative Study on the Occurrence, Density and Seasonal Variations of Phytoplankton and Zooplankton in a Perennial Pond Ecosystem of Tripura, India	Dr. Saumen Chakraborti	Department of Zoology	Applied Ecology and Environmental Sciences Vol. 9, No. 8, 761-768, 2021	2021	2328-3920	<a href="http://www.sciepub.com/journal/AEES">http://www.sciepub.com/journal/AEES</a>	<a href="https://doi.org/10.12691/aees-9-8-7">https://doi.org/10.12691/aees-9-8-7</a>	
14. A comparative study on the density and seasonal variations of rotifer and copepod fauna in a pond of Tripura, India with a note on water quality parameters	Dr. Saumen Chakraborti	Department of Zoology	International Journal of Fauna and Biological Studies 2021; 8(6): 01-06	2021	2347-2677	<a href="https://www.faujournal.com/">https://www.faujournal.com/</a>	<a href="https://doi.org/10.22271/23940522.2021.v8.i6a.855">https://doi.org/10.22271/23940522.2021.v8.i6a.855</a>	
15. "Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury–Cadmium-Chalcogenide Ternary Alloys."	Dr. Rahul Bhattacharjee	Department of Physics	Metals and Materials International (2020) (SPRINGER)	2020	1598-9623 / 2005-4149	<a href="https://www.springer.com/journal/12540">https://www.springer.com/journal/12540</a>	<a href="https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7">https://ui.adsabs.harvard.edu/link_gateway/2021MMI....27.3823D/doi:10.1007/s12540-020-00778-7</a>	UGC Care List-II (Web of Science)

16. "Density functional calculations of elastic and thermal properties of zinc-blende $\text{HgS}_x\text{Se}_{1-x}$ , $\text{HgS}_x\text{Te}_{1-x}$ and $\text{HgS}_x\text{Se}_{1-x}\text{Te}_{1-x}$ ternary alloys."	Dr. Rahul Bhattacharjee	Department of Physics	Computational Condensed Matter 24(2020) e00482 Elsevier	2020	2352-2143	<a href="https://www.sciencedirect.com/journal/computational-condensed-matter">https://www.sciencedirect.com/journal/computational-condensed-matter</a>	<a href="https://doi.org/10.1016/j.cocom.2020.e00482">https://doi.org/10.1016/j.cocom.2020.e00482</a>	UGC Care List-II (Web of Science)
17. "First-principle calculations of structural and optoelectronic properties of cubic $\text{Cd}_x\text{Zn}_{1-x}\text{S}_y\text{Se}_{1-y}$ quaternary alloys with modified Becke–Johnson (mBJ) functional."	Dr. Rahul Bhattacharjee	Department of Physics	Indian Journal of Physics 1-13 Springer India	2020	0973-1458 / 0974-9845	<a href="https://www.springer.com/journal/12648">https://www.springer.com/journal/12648</a>	<a href="https://ui.adsabs.harvard.edu/link_gateway/2021InJPh..95.2313C/doi:10.1007/s12648-020-01880-7">https://ui.adsabs.harvard.edu/link_gateway/2021InJPh..95.2313C/doi:10.1007/s12648-020-01880-7</a>	UGC Care List-II (Web of Science)

18. "Structural, mechanical and optoelectronic properties of cubic $\text{Be}_x\text{Mg}_{1-x}\text{S}$ , $\text{Be}_x\text{Mg}_{1-x}\text{Se}$ , $\text{Be}_x\text{Mg}_{1-x}\text{Te}$ , and $\text{Be}_x\text{Mg}_{1-x}\text{S}_y\text{Se}_{1-y}$ semiconductor ternary alloys: a density functional study."	Dr. Rahul Bhattacharjee	Department of Physics	Bulletin of Materials Science 43 (2020) 1-26 Indian Academy of Sciences	2020	0250-4707 / 0973-7669	<a href="https://www.researchgate.net/publication/339229024_Structural_mechanical_and_optoelectronic_properties_of_cubic_Be_x_Mg_1-x_S_Be_x_Mg_1-x_Se_and_Be_x_Mg_1-x_Te_semiconductor_ternary_alloys_a_density_functional_study">https://www.researchgate.net/publication/339229024_Structural_mechanical_and_optoelectronic_properties_of_cubic_Be_x_Mg_1-x_S_Be_x_Mg_1-x_Se_and_Be_x_Mg_1-x_Te_semiconductor_ternary_alloys_a_density_functional_study</a>	UGC Care List-II (Web of Science)	
19. "Density functional study on structural and optoelectronic properties of cubic $\text{Mg}_x\text{Zn}_{1-x}\text{S}_y\text{Se}_{1-y}$ semiconductor quaternary alloys."	Dr. Rahul Bhattacharjee	Department of Physics	Pramana 94 (2021) 1-20 Springer India	2020	0304-4289 / 0973-7111	<a href="https://www.springer.com/journal/12043/">https://www.springer.com/journal/12043/</a>	<a href="http://dx.doi.org/10.1007/s12043-020-01975-0">http://dx.doi.org/10.1007/s12043-020-01975-0</a>	UGC Care List-II (Web of Science)

20. "Cationic and anionic concentration dependent elastic properties of zinc blende specimens within $CdxZn1-xSySe1-y$ quaternary system: Calculations with density functional theory."	Dr. Rahul Bhattacharjee	Department of Physics	Solid State Communications 322 (2020) 114050 Pergamon	2020	0038-1098 / 1879-2766	<a href="https://www.sciencedirect.com/journal/solid-state-communications">https://www.sciencedirect.com/journal/solid-state-communications</a>	<a href="https://doi.org/10.1016/j.ssc.2020.114050">https://doi.org/10.1016/j.ssc.2020.114050</a>	UGC Care List-II (Web of Science)
21. "Density functional study of elastic and thermal properties of cubic mercury <sub>1</sub> zinc-chalcogenide ternary alloys"	Dr. Rahul Bhattacharjee	Department of Physics	Bulletin of Materials Science. 43 (2020) 1-17 Indian Academy of Sciences	2020	0250-4707 / 0973-7669	<a href="https://www.springer.com/journal/12034">https://www.springer.com/journal/12034</a>	<a href="https://doi.org/10.1007/s12034-020-02236-x">https://doi.org/10.1007/s12034-020-02236-x</a>	UGC Care List-II (Web of Science)
22. "Cationic and anionic composition-dependent mechanical and thermal properties of zinc-blende specimens under $MgxZn1-xSySe1-y$ , $MgxZn1-xSySe1-y$ quaternary system: calculations with density functional FP-LAPW scheme."	Dr. Rahul Bhattacharjee	Department of Physics	The European Physical Journal B 94 (2021) 1-16 SPRINGER	2021	1434-6028 / 1434-6036	<a href="https://www.springer.com/journal/10051/">https://www.springer.com/journal/10051/</a>	<a href="https://doi.org/10.1140/EPJB%2FS10051-020-00024-4">https://doi.org/10.1140/EPJB%2FS10051-020-00024-4</a>	UGC Care List-II (Web of Science)

## Metric 3.2.1

Number of papers published per teacher in the Journals notified on UGC website during the last five years

2016-17

1. Carbon Sequestration Potential and Edaphic Properties Along the Plantation Age of Rubber in Tripura, Northeastern India. by Dr. Bal Krishan Choudhury, Department of EVS

The screenshot displays the homepage of the journal 'Current World Environment'. The header includes the journal title, ISSN numbers (0973-4929, 2320-8031), and a search bar. A green navigation bar contains links for HOME, ABOUT, EDITORIAL BOARD, CURRENT ISSUE, COMING ISSUE, ARCHIVES, SUBMISSION, and CONTACT. The main content area features the article title, authors (Bal Krishan Choudhury, Koushik Majumdar, Badal Kumar Datta), affiliations, and a DOI link. An abstract is provided below. On the right, there is an 'AUTHOR RESOURCE' section with links for 'Why Orcid?', 'What is DOI?', and 'Social Media'. Below that is a 'LOGIN AND SIGNUP' section with buttons for 'Author Login', 'Reviewer Login', and 'Signup Author & reviewer'. At the bottom right, there is a 'UGC-CARE JOURNAL' logo and a 'Send message' button.

2. Above ground woody biomass, carbon stocks potential in selected tropical forest patches of Tripura, Northeast India-Dr. Bal Krishan Choudhury, Department of EVS



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**Related Articles**

- Carbon Stocks in Aboveground and Belowground Biomass of Sub-Humid Tropical Forest in Southwestern Nigeria
- Tree Allometry in Tropical Forest of Congo for Carbon Stocks

Open Journal of Ecology > Vol.6 No.10, September 2016

**Aboveground Woody Biomass, Carbon Stocks Potential in Selected Tropical Forest Patches of Tripura, Northeast India**

Koushik Majumdar\*, Bal Krishan Choudhary, Badal Kumar Datta  
Plant Taxonomy and Biodiversity Laboratory, Department of Botany, Tripura University, Suryamaninagar, India.  
DOI: 10.4236/oje.2016.610057 PDF HTML XML 1,936 Downloads 3,092 Views Citations

**Abstract**

To estimate woody plant biomass stocks in different patches of forest ecosystems, total 20, 500 × 10 m (0.5 ha) sized line transects were laid in a protected area of Tripura, Northeast India. Overall, 9160 individuals were measured at ≥10 cm diameter at breast height (dbh) in 10 ha sampled area. Estimation of biomass suggested that highest coefficient for allometric relationships between density and biomass in 10 dbh classes was observed in bamboo brakes ( $R^2 = 0.90$ ) than lowest for semi evergreen patch ( $R^2 = 0.48$ ). The stock of carbon (C) was differ significantly along the forest patches ( $F = 7.01$ ,  $df = 3.19$ ;  $p < 0.01$ ). Most of biomass stock (69.38%) was accumulated in lower dbh class (<30 cm) and only 23% of biomass was estimated at higher dbh classes (> 70 cm). Range of biomass stock (37.85 - 85.58 Mg ha<sup>-1</sup>) was low, compared to other tropical forest ecosystems in India, which implies that the proper management is required.

Offline - Leave a message

### 3. Effects of Land Use on the Soil Organic Carbon Storage Potentiality and Edaphic Factors in Tripura, Northeast India- Dr. Bal Krishan Choudhury, Department of EVS

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Bal Krishan Choudhary\*, Koushik Majumdar, B. K. Datta  
Department of Botany, Tripura University, Suryamaninagar, India.  
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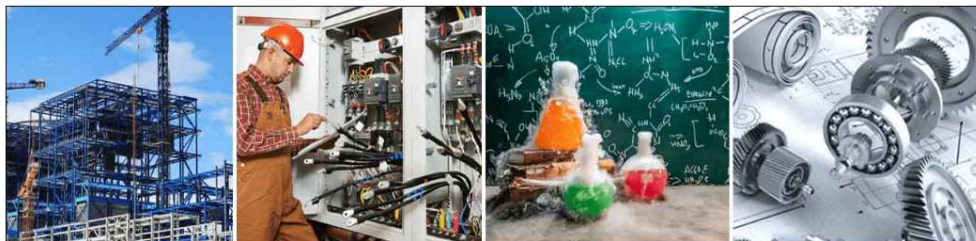
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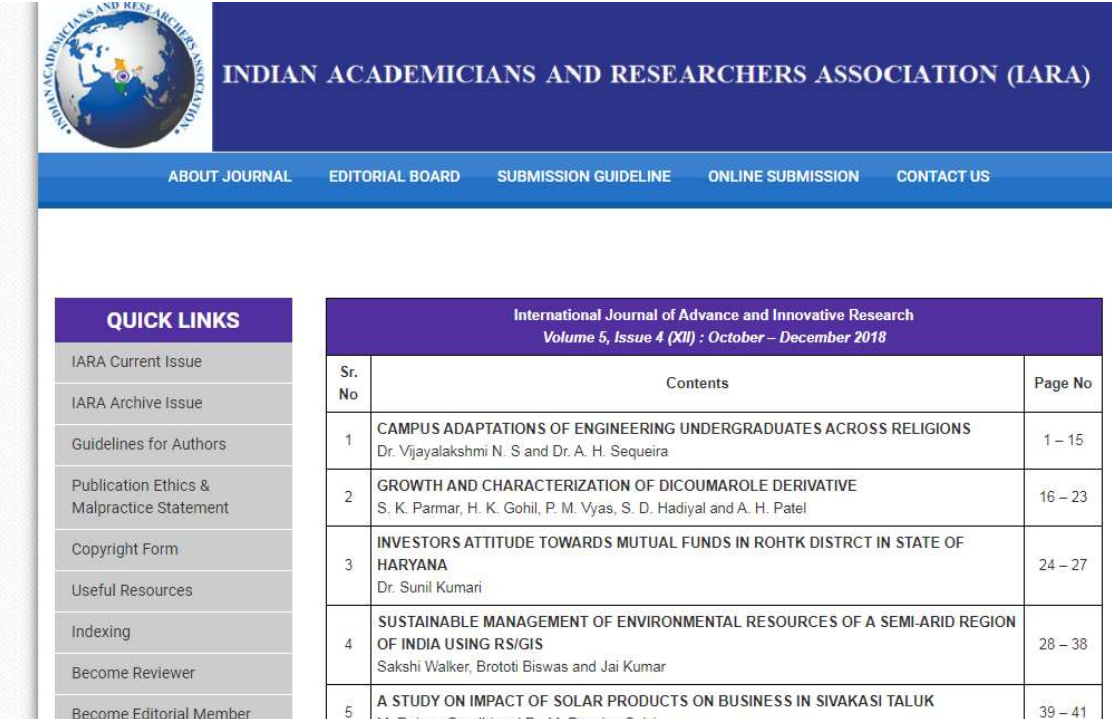
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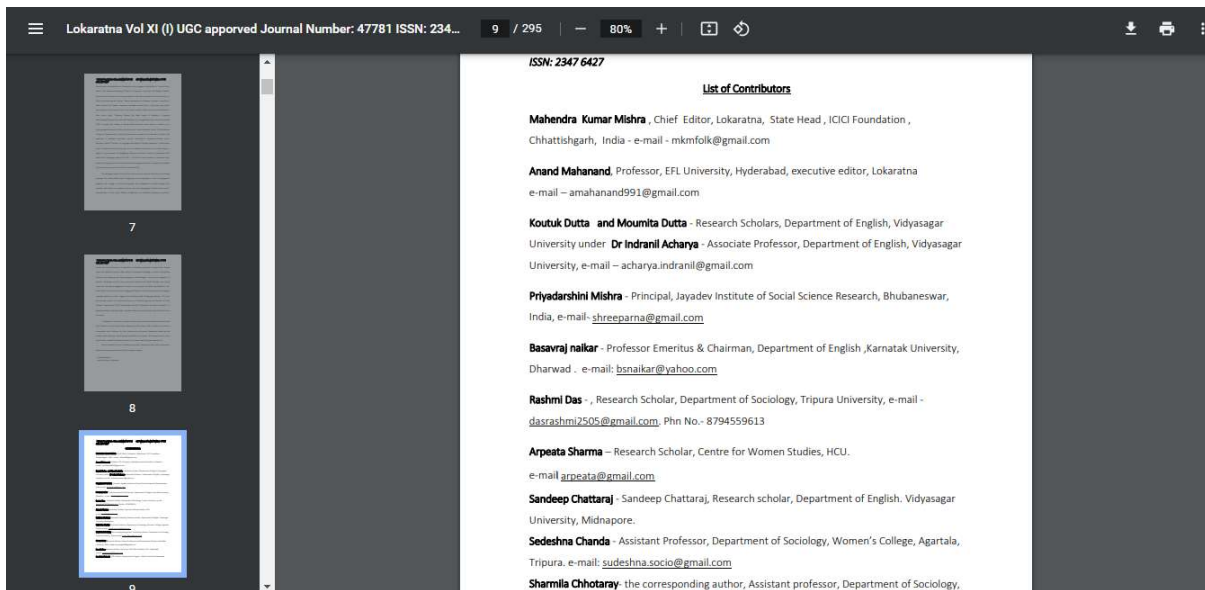
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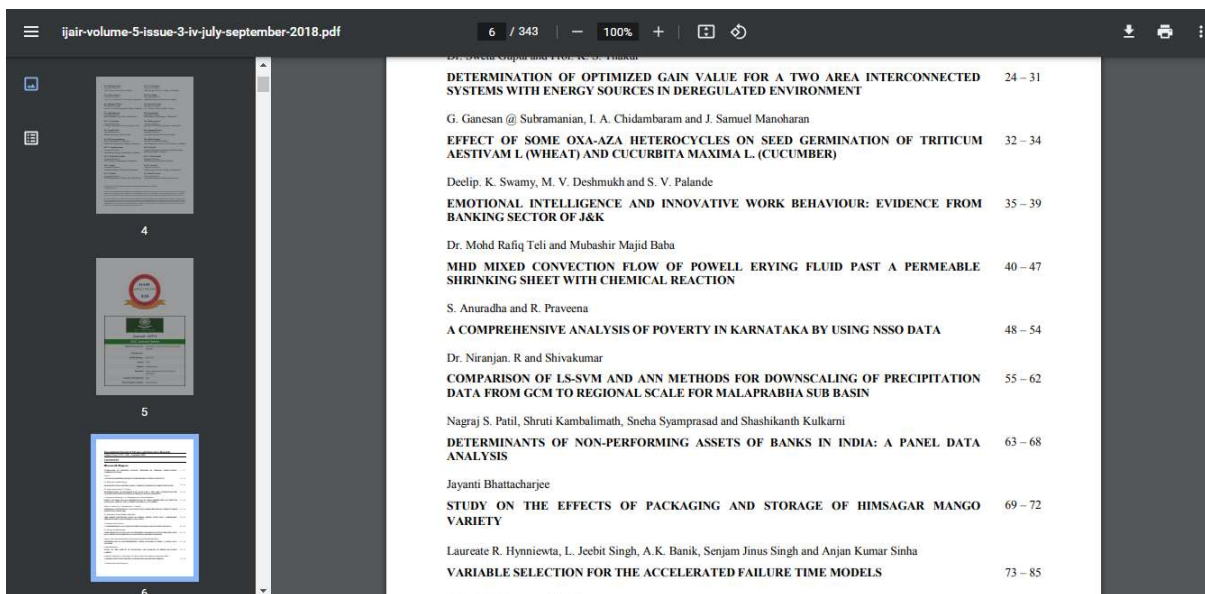


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Soma Banik<sup>a</sup>, Mitu Saha<sup>a</sup>, S.A. Hussain<sup>a</sup>, D. Bhattacharjee<sup>a</sup>

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Utpal Sarkar<sup>a, b</sup>, Bimal Debnath<sup>a</sup>, Manish Debarma<sup>a</sup>, Debankita Ghosh<sup>a</sup>, Sayantika Chanda<sup>a</sup>, Rahul Bhattacharjee<sup>a, c</sup>, Surya Chattopadhyaya<sup>a, d, e</sup>

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## Metachromasia Induced in Cationic Dyes by Neem (Azadiracta indica) Polysaccharide

Amitabha Saha  
Department of Chemistry, Women's College, Agartala-799001, India

**Abstract:** Aqueous extract of Neem (Azadiracta indica) tree exudate gum furnishes, a polysaccharide material (NP) having high equivalent weight (1085.5). NP induces slight spectral shift in toluidine blue (TB, 1x10<sup>-5</sup>M) and distinct multiple banded metachromasia in more aggregating thiazine dye 1,9-dimethylmethene blue (DMMB, 1x10<sup>-5</sup>M). Weak chromotropic ability of NP is reflected in its failure to induce metachromasia in methylene blue (MB, 1x10<sup>-5</sup>M). NP induces strong metachromasy (blue shift ~100nm) in dye pinocyanol chloride (PCYN, 1x10<sup>-5</sup>M). Half plateau values signifying destruction of metachromatic compounds to the extent of 50% correspond to ~25%, ~18% and ~ 28% ethanol for DMMB-NP, TB-NP and PCYN-NP systems respectively. Negative ΔS values for the DMMB-NP and PCYN-NP systems indicate the formation of ordered structures during the formation of dye-polysaccharide complexes.

**Keywords:** Metachromasia, Cationic dyes, Neem Polysaccharide, Chromotrope, μ-band

**1. Introduction**

Spectrophotometrically metachromasia can be defined as the blue shift of the main absorption band of a dye observed in dilute aqueous solution induced by the presence of suitable chromotropes[1]. Metachromatic spectral shift is thus always hypsochromic in nature and in most cases hypochromic also. All the cationic dyes are not metachromatic and all the metachromatic dyes are not potentially equal. A metachromatic dye consists of large hydrophobic aromatic portion and small hydrophilic cationic charge centre. Aggregating tendency of a dye increases with the increase of hydrophobic portion of the dye. The greater metachromatic potentiality of dimethylmethene blue (DMMB) over other members like methylene blue (MB) and toluidine (TB) of the

**2. Experimental**

1,9-Dimethylmethene blue (Sigma-Aldrich), toluidine blue (E. Merck), methylene blue (E.Merck), pinocyanol chloride (Serva) and pseudoisocyanine Chloride (Serva) were used. Toluidine blue and methylene blue were purified through recrystallization. Stock solutions of the dyes DMMB, TB, MB, PCYN and PIC were made in double-distilled water. The dye solutions and other experimental solutions were stored in dark when they were not in use.

**Isolation of neem polysaccharide (NP):** The exudate gum obtained from injured trunk of neem tree (4.0 gm) was dissolved in distilled water (100ml) by thoroughly shaking with a magnetic stirrer. The solution was filtered under

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Soil is defined as "the portion of the earth's crust in which land plants can grow, if water and temperature are adequate, at least the minimum nutrients are available, and toxic substances are in low concentration" (Miller and Donahue, 1999). Soil resource is under increasing threat due to increasing complexity of

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The screenshot shows a web browser window displaying a SpringerLink article. The browser's address bar shows the URL: <https://link.springer.com/article/10.1007/s00339-019-2938-5>. The article title is "First principles investigations of structural and optoelectronic properties of cubic  $Mg_xZn_{1-x}Se_yTe_{1-y}$  quaternary semiconductor alloys using FP-LAPW approach". The authors listed are Debankita Ghosh, Sayantika Chanda, Bimal Debnath, Manish Debbarma, Rahul Bhattacharjee, and Surya Chattopadhyaya. The article is published in *Applied Physics A*, volume 125, article number 644, in 2019. The page shows 104 accesses and 1 citation. On the right side, there is a "Buy article PDF" button for 39,95 €, with a note that the price includes VAT (India) and provides instant access to the full article PDF. The SpringerLink logo and search bar are visible at the top of the page.

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- Calculations of the structural and optoelectronic properties of cubic  $Cd_xZn_{1-x}Se_yTe_{1-y}$  semiconductor quaternary alloys using the DFT-based FP-LAPW approach by Dr. Rahul Bhattacharjee, Department of Physics

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Published: 26 November 2019

## Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of $\text{BeS}_x\text{Se}_{1-x}$ , $\text{BeS}_x\text{Te}_{1-x}$ and $\text{BeSe}_x\text{Te}_{1-x}$ Ternary Alloys

Bimal Debnath, Manish Debbarma, Debankita Ghosh, Sayantika Chanda, Rahul Bhattacharjee & Surya Chattopadhyaya

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### First principle investigations of structural and optoelectronic features of cubic $\text{Cd}_x\text{Zn}_{1-x}\text{S}_y\text{Te}_{1-y}$ quaternary semiconductor alloys

Syantika Chanda<sup>a</sup>, Debankita Ghosh<sup>a</sup>, Bimal Debnath<sup>a</sup>, Manish Debbarma<sup>a</sup>, Rahul Bhattacharjee<sup>a,b</sup>, Surya Chattopadhyaya<sup>a</sup>

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Published: 17 June 2020

Manish Debbarma, Subhendu Das, Bimal Debnath, Debankita Ghosh, Sayantika Chanda, Rahul Bhattacharjee & Surya Chattopadhyaya

*Metals and Materials International* 27, 3823–3838 (2021) | [Cite this article](#)

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**Abstract**

Density functional calculations are carried out on elastic and thermal properties of zinc-blende specimens within  $Hg_xCd_{1-x}S$ ,  $Hg_xCd_{1-x}Se$  and  $Hg_xCd_{1-x}Te$  ternary systems. Elastic stiffness constants decrease almost linearly with increasing Hg-concentration in each system. Each cubic sample is mechanically and dynamically stable, elastically anisotropic, compressible against elastic deformation, ductile and fairly plastic. The hardness of specimens in each system reduces almost linearly with enhancement in Hg-composition. Mixed kind of bonding

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Density Functional Investigations of Structural, Mechanical and Optoelectronic Properties of  $BeS_xSe_{1-x}$ ,  $BeS_xTe_{1-x}$  and  $BeSe_xTe_{1-x}$  Ternary Alloys

Published: 26 November 2019

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Utpal Sarkar <sup>a, b</sup>, Bimal Debnath <sup>a</sup>, Manish Debbarma <sup>a</sup>, Debankita Ghosh <sup>a</sup>, Sayantika Chanda <sup>a</sup>, Rahul Bhattacharjee <sup>a, \*</sup>, Surya Chattopadhyaya <sup>a, \*</sup>

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**Structural, mechanical and optoelectronic properties of cubic  $Be_xMg_{1-x}S$ ,  $Be_xMg_{1-x}Se$  and  $Be_xMg_{1-x}Te$  semiconductor ternary alloys: a density functional study**

Bimal Debnath, Manish Debbarma, Debankita Ghosh, Sayantika Chanda, Rahul Bhattacharjee & Surya Chattopadhyaya

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Structural, mechanical and optoelectronic features of cubic  $Be_xMg_{1-x}S$ ,  $Be_xMg_{1-x}Se$  and  $Be_xMg_{1-x}Te$  alloys have been explored by DFT-based FP-LAPW approach. Nonlinear reduction in lattice constant, but increment in bulk modulus and each of the elastic constants  $C_{11}$ ,  $C_{12}$  and  $C_{44}$ , occurs with increasing Be-concentration  $x$  in each system. All the specimens exhibit elastic anisotropy. Specimens at  $x = 0.0$ ,  $0.25$  and  $0.50$  show ductility, but remaining specimens at  $x = 0.75$  and  $1.0$  show brittleness. Each ternary alloy is a direct ( $\Gamma$ - $\Gamma$ ) band gap

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Density functional study on structural and optoelectronic properties of cubic  $Mg_xZn_{1-x}S_ySe_{1-y}$  semiconductor quaternary alloys

Published: 13 August 2020

Debankita Ghosh, Sayantika Chanda, Bimal Debnath, Manish Debbarma, Rahul Bhattacharjee & Surya Chattopadhyaya

*Pramana* 94, Article number: 120 (2020) | [Cite this article](#)

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**Abstract**

In the case of technologically important quaternary alloys, structural and optoelectronic properties have been calculated with density functional theory (DFT)-based full-potential linearised augmented plane-wave (FP-LAPW) approach. The Perdew–Burke–Ernzerhof generalised gradient approximation (PBE-GGA) for structural properties and both the modified-Becke–Johnson (mBJ) and Engel and Vosko GGA (EV-GGA) for optoelectronic properties are employed to calculate the respective exchange–correlation potentials. Each

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Syantika Chanda <sup>a</sup>, Manish Debbarma <sup>a</sup>, Debankita Ghosh <sup>a</sup>, Subhendu Das <sup>a, b</sup>, Bimal Debnath <sup>a</sup>, Rahul Bhattacharjee <sup>a</sup>, Surya Chattopadhyaya <sup>a</sup>

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**Abstract**

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**Abstract**

Forests are the potential source for managing carbon sequestration, regulating climate variations and balancing universal carbon equilibrium between sources and sinks. Further, assessment of biomass, carbon stock, and its spatial distribution is prerequisite for monitoring the health of forest ecosystem. Moreover, vegetation field inventories are valuable source of data for estimating aboveground biomass (AGB), density, and the carbon stored in biomass of forest vegetation. In view of the importance of biomass, the present study makes an attempt to estimate temporal AGB of Tripura State, India, using Moderate Resolution Imaging Spectroradiometer (MODIS) Normalized difference vegetation index (NDVI), leaf area index

14. Potential Biomass Pools and Edaphic Properties of Plantation Forest in Tripura, India by Dr. Bal Krishan Choudhury, Department of EVS.




Home > Ecology > Ecosystems > Ecosystem Ecology > Biological Science > Biomass

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### Potential Biomass Pools and Edaphic Properties of Plantation Forest in Tripura, India

December 2019

Authors:


-  **Bal Krishan Choudhary**  
Ramthakur College, Agartala, Tripura, IN...
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Tripura University

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#### 2020-21

1. Tarashankarer jibon darshan o Arogyaniketan by Dr. Nivedita Dhar, Department of Bengali.
2. Investigation on aeromycoflora in extramural and intramural environment at Udaipur, Gomati District, Tripura by Dr. Sikha Banik, Department of Botany
3. Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study by Dr. Samhita Bhaumik, Department of Chemistry.

The screenshot shows a web browser displaying the article page for 'Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study'. The page includes the journal title, volume and issue information, a search bar, and a list of authors: Debanjan Sen, Pradip Debnath, Bimal Debnath, Samhita Bhaumik, and Sudhan Debnath. It also displays citation statistics (3,921 views, 24 CrossRef citations, 3 Altmetric) and a 'Free access' badge. The article title is prominently displayed in bold. At the bottom of the page, there is a cookie consent banner and a Windows taskbar.

4. In Silico Identification of Potential Inhibitors of the Main Protease of SARS-CoV-2 Using Combined Ligand-Based and Structure-Based Drug Design Approach by Dr. Samhita Bhaumik, Department of Chemistry.

The screenshot shows the homepage of the Eurasian Journal of Medicine and Oncology. The main article displayed is titled "In Silico Identification of Potential Inhibitors of the Main Protease of SARS-CoV-2 Using Combined Ligand-Based and Structure-Based Drug Design Approach". The authors listed are Bimal Debnath, Apu Kr Saha, Samhita Bhaumik, and Sudhan Debnath. The article is from Volume 6, Issue 2, Year 2022. The journal's ISSN is 2587-2400 (P-ISSN) and 2587-196X (E-ISSN). The website also features navigation links for Home, About Journal, Editorial Board, Instructions for Authors, For Reviewers, EJMO Archive, and Contact. A sidebar on the right contains a "TOOLS" section with options like PDF Download, Download citation, RIS, EndNote, BibTex, Medlars, Procite, Reference Manager, and Share with email.

- In Silico Identification of Potential Inhibitors of ADP-Ribose Phosphatase of SARS-CoV-2 nsP3 by Combining E-Pharmacophore-and Receptor-Based Virtual Screening of Database by Dr. Samhita Bhaumik, Department of Chemistry.

The screenshot shows the Chemistry Europe website. The main article displayed is titled "In Silico Identification of Potential Inhibitors of ADP-Ribose Phosphatase of SARS-CoV-2 nsP3 by Combining E-Pharmacophore- and Receptor-Based Virtual Screening of Database". The authors listed are Dr. Pradip Debnath, Dr. Bimal Debnath, Dr. Samhita Bhaumik, and Dr. Sudhan Debnath. The article is from Volume 5, Issue 30, published on August 14, 2020, with pages 9388-9398. The website features a search bar, a navigation menu with options like Journals, About/Get Published, Events, and Collections, and social media icons. There are also advertisements for a virtual workshop and Leica microscopes.

- Potentiality of *Moringa oleifera* against SARS-CoV-2: identified by a rational computer aided drug design method by Dr. Samhita Bhaumik, Department of Chemistry.

Potentiality of *Moringa oleifera* against SARS-CoV-2: identified by a rational computer aided drug design method  
 Debanjan Sen, Samhita Bhaumik, Pradip Debnath & Sudhan Debnath  
 Received 27 Sep 2020, Accepted 26 Feb 2021, Published online: 15 Mar 2021  
 DOI: <https://doi.org/10.1080/07391102.2021.1898475>

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7. Phytochemicals of Zingiberaceae family exhibit potentiality against SARS-CoV-2 main protease identified by a rational computer-aided drug design by Dr. Samhita Bhaumik, Department of Chemistry.

Phytochemicals of Zingiberaceae family exhibit potentiality against SARS-CoV-2 main protease identified by a rational computer-aided drug design  
 Sudhan Debnath, Samhita Bhaumik, Debanjan Sen & Bimal Debnath  
 Received 27 May 2021, Accepted 06 Oct 2021, Published online: 25 Oct 2021  
 DOI: <https://doi.org/10.1080/14786419.2021.1994563>

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8. Identification of Potential Scaffolds From the Shrub *Justicia Adhatoda* Against SARS-CoV-2 Main Protease Target by Dr. Samhita Bhaumik, Department of Chemistry.

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**Identification of Potential Scaffolds From the Shrub Justicia Adhatoda Against SARS-CoV-2 Main Protease Target**

Debanjan Sen (BCDA College of Pharmacy and Technology, India), Samhita Bhaumik (Women's College, India), Gourav Roy (Maharaja Bir Bikram College, India), Ravikumar Muttineni (Immunocure Discovery Solution Pvt. Ltd., India), Rasbihari Hembram (College of Medicine and JNM Hospital, India) and Sudhan Debnath (Netaji Subhas Mahavidyalaya, India)

Source Title: International Journal of Quantitative Structure-Property Relationships (IJQSPR) 6(4)  
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**Abstract**

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is a highly infectious and pathogenic virus. To date, there is a lack of proper medication against this virus, which has triggered the scientific community to find therapeutics. Searching of SARS-CoV-2 main protease inhibitors from anti-viral natural products based on traditional knowledge may be an effective approach. In this work, structure-based virtual screening of the compounds of Justicia adhatoda was performed against SARS-CoV-2 Mpro, followed by ADME filtration, molecular dynamics, and MMGBSA-based binding free energy calculation. On the basis of docking score, crucial interacting amino acid residues, molecular dynamics, and binding energy profile, three novel phenolic compounds JA\_38b, JA\_38c, and JA\_39 were selected as potential binders against SARS-CoV-2 Mpro. This information may be used to develop potential therapeutics countermeasures against SARS-CoV-2 infection after in vitro and detailed pharmacological study.

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9. Writing Ordinary Lives;: An Analysis of Selected Women’s Memoirs From North-East India by Dr. Somali Saha, Department of English.

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**WRITING ORDINARY LIVES: AN ANALYSIS OF SELECTED WOMEN'S MEMOIRS FROM NORTH-EAST INDIA**

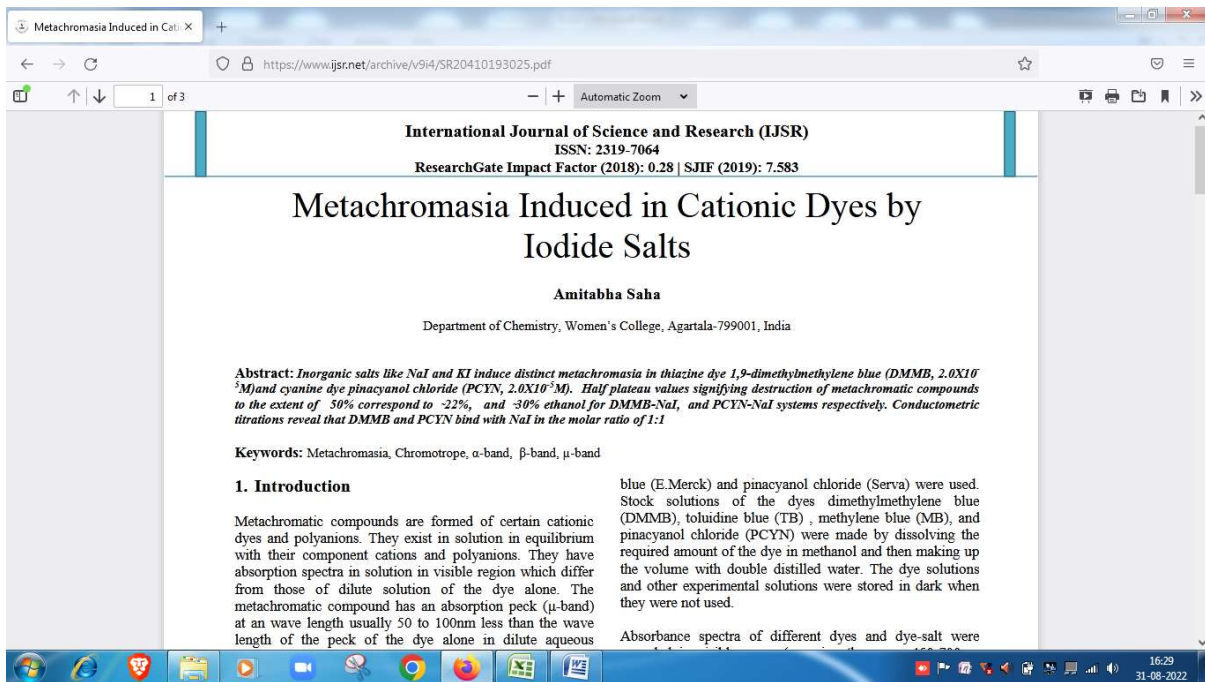
**DR. SOMALI SAHA**  
Assistant Professor  
Department of English  
Women's College,  
Agartala

**ABSTRACT:**

*Literature is one of the forms of human consciousness and autobiography as a literary genre is the study of the way in which one's own experience is transformed into creative process. Memoir, being a sub-genre of autobiography is a collection of memories that an individual writes about moments or events, both private or public that took place in the author's life. Where an autobiographer focuses more on the inner world, a memoirist generally highlights the outer world which comes across in the life of the writer. But for some of the women writers of North-east India, memoir is not simply a tranquil version of reality, but a source through which they purgate their heart-felt emotions. In Assamese literature, Nalinibala Devi was one of the earliest women to record her life history through her memoir Eri Aha Dinbor. Tensula Ao's memoir Once Upon a life: Burnt Curry and Bloody Rags depicts her journey in search of the self worth once lost to time and circumstances. This paper makes an attempt to light up some of the hidden areas of these authors' life. How an ordinary woman, surpassing all the vicissitudes of life, becomes an extraordinary being will be brought out in this*

10. Metachromasia induced in cationic dyes by Iodine Salt by Dr Amitabha Saha, Department of Chemistry.





11. A Concise Review Report on Induced Breeding of Indian Major Carps through Pituitary Extract and Synthetic Hormone Analogues by Dr. Saumen Chakraborti, Department of Zoology.



12. Studies on Density, Percentage Composition and Seasonal Variations of Phytoplankton in a Perennial Pond Ecosystem of Tripura, India with a note on Physico-chemical Factors by Dr. Saumen Chakraborti, Department of Zoology.

The screenshot shows the website for the International Journal of Current Microbiology and Applied Sciences (IJCMAS). The page features a navigation menu with options like Home, Editorial Board, Guidelines, Current Issue, Special Issue, Archives, Indexing, Submit Article, and Contact. A sidebar on the left includes links to 'Join as a Reviewer', 'Login as a Reviewer', a search bar, and options to 'Print this Article', 'PDF Full Text', 'How to Cite this Article on Google', and 'Google Scholar'. The main content area displays the journal's logo, ISSN information (PRINT ISSN: 2319-7692, Online ISSN: 2319-7706), publisher details (Excellent Publishers), and contact information for the editor-in-chief, Dr. M. Prakash. A 'Download Publication Certificate' link is also present. The article title is 'Studies on Density, Percentage Composition and Seasonal Variations of Phytoplankton in a Perennial Pond Ecosystem of Tripura, India with a note on Physico-chemical Factors'. The journal is noted as being indexed in Crossref.

13. A Comparative Study on the Occurrence, Density and Seasonal Variations of Phytoplankton and Zooplankton in a Perennial Pond Ecosystem of Tripura, India by Dr. Saumen Chakraborti, Department of Zoology.

This screenshot is identical to the one above, showing the IJCMAS website interface. It highlights the journal's details, including its ISSN, publisher, and contact information, along with the specific article title and its DOI: <https://doi.org/10.20546/ijcmas.2021.1007.072>. The article title is 'Studies on Density, Percentage Composition and Seasonal Variations of Phytoplankton in a Perennial Pond Ecosystem of Tripura, India with a note on Physico-chemical Factors'. The journal is noted as being indexed in Crossref.

14. A comparative study on the density and seasonal variations of rotifer and copepod fauna in a pond of Tripura, India with a note on water quality parameters by Dr. Saumen Chakraborti, Department of Zoology.

The screenshot shows the homepage of the journal FAUNA. The header includes the journal name, ISSN numbers (e-ISSN: 2347-2677, p-ISSN: 2394-0522), and a search bar. The main navigation menu includes Home, Editorial Board, Archives, Instructions, Indexing, Online Submission, Publish Book (ISBN), and Contact. A banner image features a water buffalo, a fish, a bee, and a rooster. The article title is "A comparative study on the density and seasonal variations of rotifer and copepod fauna in a pond of Tripura, India with a note on water quality parameters". The author is Saumen Chakrabarti. The journal code is 2347-2677. The article is available for purchase at 39.95 €. The abstract mentions a comparative study on rotifer and copepod density in a pond in Tripura, India.

15. Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury–Cadmium-Chalcogenide Ternary Alloys.” By Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows the Springer article page for the paper by Manish Debbarma et al. The article title is "Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury–Cadmium-Chalcogenide Ternary Alloys". The authors are Manish Debbarma, Subhendu Das, Bimal Debnath, Debnankita Ghosh, Sayantika Chanda, Rahul Bhattacharjee & Surya Chattopadhyaya. The article is published in *Metals and Materials International*, 27, 3823–3838 (2021). The price for the article PDF is 39.95 €. The abstract discusses density functional calculations on elastic and thermal properties of zinc-blende specimens within  $Hg_xCd_{1-x}S$ ,  $Hg_xCd_{1-x}Se$  and  $Hg_xCd_{1-x}Te$  ternary systems. The abstract text is partially visible at the bottom of the page.

16. “Density functional calculations of elastic and thermal properties of zinc-blende  $HgS_xSe_{1-x}$ ,  $HgS_xTe_{1-x}$  and  $HgS_xTe_{1-x}$  ternary alloys.” By Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows a web browser displaying a ScienceDirect article. The article title is "Density functional calculations of elastic and thermal properties of zinc-blende  $HgS_xSe_{1-x}$ ,  $HgS_xTe_{1-x}$  and  $HgSexTe_{1-x}$  ternary alloys". The authors listed are Manish Debbarma, Subhendu Das, Bimal Debnath, Debankita Ghosh, Sayantika Chanda, Rahul Bhattacharjee, and Surya Chattopadhyaya. The article is published in "Computational Condensed Matter", Volume 24, September 2020, e00482. The page includes a table of contents on the left, a main text area with a "Show more" button, and a "Recommended articles" section on the right. The browser's address bar shows the URL: <https://www.sciencedirect.com/science/article/abs/pii/S2352214320300289?via%3Dihub>.

17. “First-principle calculations of structural and optoelectronic properties of cubic  $Cd_xZn_{1-x}S_ySe_{1-y}$  quaternary alloys with modified Becke–Johnson (mBJ) functional.” By Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows a SpringerLink article page. The article title is "First-principle calculations of structural and optoelectronic properties of cubic  $Cd_xZn_{1-x}S_ySe_{1-y}$  quaternary alloys with modified Becke–Johnson (mBJ) functional". The authors listed are Sayantika Chanda, Debankita Ghosh, Bimal Debnath, Manish Debbarma, Rahul Bhattacharjee & Surya Chattopadhyaya. The article is published in "Indian Journal of Physics", Volume 95, pages 2313–2325 (2021). The page includes an abstract, a "Buy article PDF" button for 39,95 €, and a "Rent this article via DeepDyve" option. The browser's address bar shows the URL: <https://link.springer.com/article/10.1007/s12648-020-01880-7>.

18. “Structural, mechanical and optoelectronic properties of cubic  $BexMg_{1-x}S$ ,  $BexMg_{1-x}Se$ ,  $BexMg_{1-x}S$ ,  $BexMg_{1-x}Se$  and  $BexMg_{1-x}Te$ ,  $BexMg_{1-x}Te$  semiconductor ternary alloys: a density functional study.” By Dr. Rahul Bhattacharjee, Department of Physics.

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**Structural, mechanical and optoelectronic properties of cubic  $\text{Be}_x\text{Mg}_{1-x}\text{S}$ ,  $\text{Be}_x\text{Mg}_{1-x}\text{Se}$  and  $\text{Be}_x\text{Mg}_{1-x}\text{Te}$  semiconductor ternary alloys: a density functional study**

February 2020 · *Bulletin of Materials Science* 43(1)  
DOI: 10.1007/s12034-019-2006-y

Authors:

**Bimal Debnath**  
Tripura University

**Manish Debbarma**

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19. “Density functional study on structural and optoelectronic properties of cubic  $\text{Mg}_x\text{Zn}_{1-x}\text{S}_y\text{Se}_{1-y}$  semiconductor quaternary alloys.” By Dr. Rahul Bhattacharjee, Department of Physics.

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Published: 13 August 2020

**Density functional study on structural and optoelectronic properties of cubic  $\text{Mg}_x\text{Zn}_{1-x}\text{S}_y\text{Se}_{1-y}$  semiconductor quaternary alloys**

Debankita Ghosh, Sayantika Chanda, Bimal Debnath, Manish Debbarma, Rahul Bhattacharjee & Surya Chattopadhyaya

*Pramana* 94, Article number: 120 (2020) | [Cite this article](#)

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**Abstract**

In the case of technologically important quaternary alloys, structural and optoelectronic properties have been calculated with density functional theory (DFT)-based full-potential linearised augmented plane-wave (FP-LAPW) approach. The Perdew–Burke–Ernzerhof generalised gradient approximation (PBE-GGA) for structural properties and both the modified-Becke–Johnson (mBJ) and Engel and Vosko GGA (EV-GGA) for optoelectronic properties are employed to calculate the respective exchange–correlation potentials. Each

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20. “Cationic and anionic concentration dependent elastic properties of zinc blende specimens within  $\text{Cd}_x\text{Zn}_{1-x}\text{S}_y\text{Se}_{1-y}$  quaternary system: Calculations with density functional theory.” By Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows a web browser displaying a ScienceDirect article. The article title is "Cationic and anionic concentration dependent elastic properties of zinc blende specimens within  $Cd_xZn_{1-x}S_ySe_{1-y}$  quaternary system: Calculations with density functional theory". The journal is "Solid State Communications", Volume 322, December 2020, 114050. The authors listed are Sayantika Chanda, Manish Debbarma, Debankita Ghosh, Subhendu Das, Bimal Debnath, Rahul Bhattacharjee, and Surya Chattopadhyaya. The page includes navigation options like "View PDF", "Access through your institution", and "Purchase PDF". A sidebar on the left lists "Article preview" with links to Abstract, Introduction, Section snippets, References (72), Cited by (2), and Recommended articles (6).

21. “Density functional study of elastic and thermal properties of cubic mercuryzinc-chalcogenide ternary alloys” by Dr. Rahul Bhattacharjee, Department of Physics.

The screenshot shows a SpringerLink article page. The article title is "Density functional study of elastic and thermal properties of cubic mercury-zinc-chalcogenide ternary alloys". The authors are Manish Debbarma, Subhendu Das, Bimal Debnath, Debankita Ghosh, Sayantika Chanda, Rahul Bhattacharjee, and Surya Chattopadhyaya. The article is published in "Bulletin of Materials Science", Volume 43, Article number: 268 (2020). The page features a "Buy article PDF" button for 39,95 €, with a note that the price includes VAT (India) and provides instant access to the full article PDF. There is also a "Rent this article via DeepDyve" option and a link to "Learn more about Institutional subscriptions".

22. “Cationic and anionic composition-dependent mechanical and thermal properties of zinc-blende specimens under  $MgxZn_{1-x}SySe_{1-y}$ ,  $MgxZn_{1-x}SySe_{1-y}$  quaternary system: calculations with density functional FP-LAPW scheme.” by Dr. Rahul Bhattacharjee, Department of Physics

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## Cationic and anionic composition-dependent mechanical and thermal properties of zinc-blende specimens under $Mg_xZn_{1-x}S_ySe_{1-y}$ quaternary system: calculations with density functional FP-LAPW scheme

[Debankita Ghosh](#), [Manish Debbarma](#), [Sayantika Chanda](#), [Bimal Debnath](#), [Rahul Bhattacharjee](#), [Subhendu Das](#) & [Surya Chattopadhyaya](#) ✉

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**Abstract**

Elastic and thermal properties of zinc-blende  $Mg_xZn_{1-x}S_ySe_{1-y}$  quaternary alloys and their constituent binary/ternary compounds have been computed through first principles calculations. Elastic stiffness constants of specimens have been increased almost linearly with increasing sulfur composition at any fixed magnesium composition, while reverse trends have been observed with increasing magnesium composition at any fixed sulfur composition in each

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