



3.3- Research Publication and Awards

3.3.1 Number of research papers published per teacher in the Digital Journals as notified on UGC CARE list during the last five years

| Sl. no. | Title of paper | Name of the author/s | Calendar Year of publication | Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI) number |
|---------|--|--|------------------------------|---|
| 1 | Study of the conformations and tautomerisation pathway in (Z)-4-(hydroxypropyl) isochroman-1, 3-dione: Analysis through energy, vibrational signatures and hardness profiles | Goutam Dey, A Chakrabarty | 2022 | https://www.sciencedirect.com/science/article/abs/pii/S0022286021022973 |
| 2 | L(2,1,1)-Labeling of Interval Graphs | Sk Amanathulla, Biswajit Bera and Madhumangal Pal | 2022 | https://www.researchgate.net/publication/364303573_L_211-labeling_of_interval_graphs |
| 3 | Molecular recognition, characterization and biological importance of tetrabutylammonium hexanitrate cerium (III) complex | Ghosh, Mithun Kumar; Chandraker, Sandip Kumar; Sikdar, Suranjan; Das, Chinmay; Ghorai, Tanmay Kumar; | 2022 | https://link.springer.com/article/10.1007/s11696-022-02091-6 . |
| 4 | Formation of electron acoustic shock wave in inner magnetospheric plasma | Chandra, Swarniv; Goswami, Jyotirmoy; Sarkar, Jit; Das, Chinmay; Nandi, Debapriya; Ghosh, Basudev; | 2022 | https://link.springer.com/article/10.1007/s12648-021-02276-x . |
| 5 | Forced KdV and envelope soliton in magnetoplasma with Kappa distributed ions | Sarkar, Jit; Chandra, Swarniv; Dey, Ankita; Das, Chinmay; Marick, Aritra; Chatterjee, Prasanta; | 2022 | https://ieeexplore.ieee.org/document/9697908 . |
| 6 | Homotopy study of spherical ion-acoustic waves in relativistic degenerate galactic plasma | Sarkar, Soumya; Sett, Anuradha; Pramanick, Suman; Ghosh, Tamal; Das, Chinmay; Chandra, Swarniv; | 2022 | https://ieeexplore.ieee.org/document/9715046 . |
| 7 | Rogue wave generation through nonlinear self-interaction of electrostatic waves in dense plasma | Dey, Ankur; Chandra, Swarniv; Das, Chinmay; Mandal, Surajit; Das, Trisita; | 2022 | https://ieeexplore.ieee.org/document/9703246 . |
| 8 | Semi-Lagrangian method to study nonlinear electrostatic waves in quantum plasma | Das, Chinmay; Chandra, Swarniv; Chatterjee, Prasanta; | 2022 | https://ieeexplore.ieee.org/document/9755058 . |
| 9 | Bifurcation analysis of eaws in degenerate astrophysical plasma: Chaos and multistability | Chandra, Swarniv; Kapoor, Sharry; Nandi, Debapriya; Das, Chinmay; Bhattacharjee, Dayita; | 2022 | https://ieeexplore.ieee.org/document/9782129 . |
| 10 | Multistability studies on electron acoustic wave in a magnetized plasma with supra-thermal ions | Swarniv Chandra, Rupanjan Banerjee, Jit Sarkar, Soureen Zaman, Chinmay Das, Subha Samanta, Farah DEEBA, Brahmananda Dasgupta | 2022 | https://link.springer.com/article/10.1007/s12036-022-09835-6 . |
| 11 | Snowball Earth: A Critical Review on Neoproterozoic Glaciation | Nivedita Chakraborty | 2022 | https://cehesh.in/contents/july2022vol1/8.Dr.Nivedita-p.55-62.pdf . |
| 12 | Conformations and Tautomerisation between (Z)-4-(hydroxyethyl) isochroman-1, 3-dione and and 4- | Goutam Dey, A Chakrabarty | 2021 | https://doi.org/10.1016/j.comptc.2021.113486 . |



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| | acetyl-3-hydroxyisochroman-1-one: A computational study through Energy, electron distribution, Vibrational analysis and Hardness profiles. | | | |
| 13 | Conformational Landscape and Tautomerisation in (Z)-4-(hydroxymethylene) isochroman-1,3-dione: Analysis through Energy and Hardness profiles. | Goutam Dey, A Chakrabarty | 2021 | https://doi.org/10.1016/j.molstruc.2021.130859 |
| 14 | Real world applications of discrete mathematics | Sk Amanathulla, Biswajit Bera and Madhumangal Pal | 2021 | https://www.malayaajournal.org/index.php/mjm/article/view/993 . |
| 15 | L(2,1,1)-Labeling of Circular-Arc Graphs | Sk Amanathulla, Biswajit Bera and Madhumangal Pal | 2021 | https://www.worldscientific.com/doi/10.1142/S2661335222500034 . |
| 16 | Balanced picture fuzzy graph with application | Sk Amanathulla, Biswajit Bera and Madhumangal Pal | 2021 | https://link.springer.com/article/10.1007/s10462-021-10020-4 . |
| 17 | Effects of exchange symmetry and quantum diffraction on amplitude-modulated electrostatic waves in quantum magnetoplasma | Das, Chinmay; Chandra, Swarniv; Ghosh, Basudev; | 2021 | https://link.springer.com/article/10.1007/s12043-021-02108-x . |
| 18 | Stationary structures in a four component dense magnetoplasma with lateral perturbations | Thakur, Souradeep; Das, Chinmay; Chandra, Swarniv; | 2021 | https://ieeexplore.ieee.org/document/9658306 |
| 19 | Nonlinear Wave-Wave Interaction in Semiconductor Junction Diode | Goswami, Jyotirmoy; Chandra, Swarniv; Das, Chinmay; Sarkar, Jit; | 2021 | https://ieeexplore.ieee.org/document/9618667 . |
| 20 | Resonant interactions and chaotic excitation in nonlinear surface waves in dense plasma | Ghosh, Amit; Goswami, Jyotirmoy; Chandra, Swarniv; Das, Chinmay; Arya, Yash; Chhibber, Hema; | 2021 | https://ieeexplore.ieee.org/document/9537918 . |
| 21 | Relationship of financial inclusion and physical quality of life: evidences from SAARC countries | Dr. Arindam Laha & Avisek Sen | 2021 | https://www.inderscienceonline.com/doi/abs/10.1504/IJEPEE.2021.114961?journalCode=iijepee#:~:text=This%20paper%20attempts%20to%20examine,than%20the%20other%20way%20round. |
| 22 | Financial Inclusion and Quality of Life: Empirical Evidences from Indian States with Special Reference to West Bengal | Avisek Sen & Dr. Arindam Laha | 2021 | https://journals.sagepub.com/doi/abs/10.1177/0258042X211026150 . |
| 23 | Tautomers of homophthalic anhydride in the ground and excited electronic states: analysis through energy, hardness and vibrational signatures. | Goutam Dey, A Chakrabarty | 2020 | https://link.springer.com/article/10.1007/s00894-020-04411-7 . |
| 24 | The Emergence of an Itinerant Ferromagnetic State in Co- Doped YNi5: A Critical Behavior Study of the Phase Transition, Vol. – 257(12), Page No. 2000273 | Suraj Kumar Karmakar, S. Giri and S. Majumdar | 2020 | https://onlinelibrary.wiley.com/doi/abs/10.1002/pssb.202000273 . |
| 25 | Origin and sequence stratigraphic implications of high-alumina glauconite within the Lower Quartzite, Vindhyan Supergroup | S Mandal, S Banerjee, S Sarkar, Indrani Mondal, TR Choudhury | 2020 | https://www.sciencedirect.com/science/article/abs/pii/S026481721930460X . |
| 26 | Revisiting the boundary between the Lower and Upper Vindhyan, Son valley, India | S Mandal, A Choudhuri, Indrani Mondal, S Sarkar, PP Chakraborty, S Banerjee | 2019 | https://link.springer.com/article/10.1007/s12040-019-1250-2 . |
| 27 | A nexus between environmental literacy, environmental attitude and healthy living | Aindrila Biswas | 2019 | https://link.springer.com/article/10.1007/s11356-019-07290-5 . |
| 28 | Effect of Strategic Marketing on Sustainable Business Performance–A Study of Pharmaceutical Industries in India | Aindrila Biswas | 2019 | https://www.ijper.org/sites/default/files/IndJPhaEdRes_53_1_21.pdf . |
| 29 | A nexus between environmental literacy, environmental attitude and healthy living | Aindrila Biswas | 2019 | https://link.springer.com/article/10.1007/s11356-019-07290-5 . |
| 30 | Indigenous siliciclastic and extraneous polygenetic carbonate beds in the Albian-Turonian Karai Shale, Cauvery Basin, India | Chakraborty, N., Mandal, A., Choudhuri, A., Mandal, S., Sarkar, S., | 2018 | https://link.springer.com/article/10.1007/s13146-018-0419-0 . |
| 31 | Syn-sedimentary tectonics and facies analysis in a rift setting: Cretaceous Dalmiapuram Formation, Cauvery Basin, SE India | Chakraborty, N., Sarkar, S., | 2018 | https://www.sciencedirect.com/science/article/pii/S2095383617300925 . |
| 32 | Microenvironmental Constraint on $\delta^{13}\text{C}$ Depletion: Garudamangalam Sandstone, Cauvery Basin, India | Chakraborty, N., Sarkar, S., Mandal, A., Mandal, S., Bumbly, A. | 2018 | https://www.sciencedirect.com/science/article/abs/pii/S0264817218300254 . |



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| 33 | Technology acceptance perception for promotion of sustainable consumption | Aindrila Biswas, Prof. Mousumi Roy | 2018 | https://link.springer.com/article/10.1007/s11356-017-0964-4 |
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