



Centre/School/Special Centre :

School of Studies in Mathematical & Computational Sciences

Department : Mathematics

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Qualifications : M.Phil, Ph.D.

Area of Interest/Specialization : Dusty Plasma Physics, Non-linear Wave Process in Plasma Dynamics, Linear and higher order Stability.

Experience : One year

Best Peer Reviewed Publication (up-to 10) :

(1) Dust-ion acoustic solitary waves in a collisionless magnetized five components plasma. P. Halder, A. Bandyopadhyay, S. Dalui and **S. Sardar**. *Zeitschrift für Naturforschung A* (Online Published 2022). <https://doi.org/10.1515/zna-2021-0287> (I.F- 1.355)

(2) Arbitrary Amplitude ion acoustic solitons, double layers and supersolitons in a collisionless magnetized plasma consisting of nonthermal and isothermal electrons. S. Dalui, **S. Sardar** and A. Bandyopadhyay. *Zeitschrift für Naturforschung A*, 76, 455 (2021). <https://www.doi.org/10.1515/ZNA-2020-0296> (I.F- 1.355)

(3) Existence and stability of alternative dust ion acoustic solitary waves in a dusty plasma consisting of nonthermal electrons having vortex-like velocity distribution. **S. Sardar**, A. Bandyopadhyay and K. P. Das, *Phys. Plasmas* 24, 063705 (2017). <https://doi.org/10.1063/1.4986090> (I.F- 1.979)

(4) Existence and stability of alternative dust ion acoustic solitary wave solution of the combined MKP-KP equation in nonthermal plasma. **S. Sardar**, A. Bandyopadhyay and K. P. Das, *Phys. Plasmas* 23, 123706 (2016). <https://doi.org/10.1063/1.4972881> (I.F-2.17)

(5) Stability of dust ion acoustic solitary waves in a collisionless unmagnetized nonthermal plasma in presence of isothermal positrons. **S. Sardar**, A. Bandyopadhyay and K. P. Das, *Phys. Plasmas* 23, 073703 (2016). <https://doi.org/10.1063/1.4956462> (I.F-2.17)

Updated on April 18, 2022

(Dr. Sankirtan Sardar)