

Dr. Ali Ibrahim Asad

PhD, Theoretical Physics, Department of Physics, Faculty of Science, Tartous University, Syria.

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Research activity

Theoretical plasma physics, linear and nonlinear waves in plasma, Mathematical physics.

Education

- Ph.D. in Theoretical Physics, Latakia University, (2022)
- M.Sc. in Theoretical Physics, Latakia University, (2018)
- B.Sc. in Physics, Latakia University, (2014)

Academic Experience

Lecturer at Tartous University, teaching Statistical Physics, Special Functions, Electromagnetism, and Fluid Mechanics. In addition, from 2015 to 2022, conducted practical (laboratory/tutorial) instruction in General Physics, Electricity and Magnetism, Wave Optics, Atomic Physics, Plasma Applications, and Medical Engineering Physics at Latakia University, Tartous University, and Al-Andalus Private University for Medical Sciences.

Research

Published peer-reviewed papers in plasma physics, dusty plasma, nonlinear waves, and laser-plasma interactions. Reviewer for international journals and participant in graduate physics conferences.

Publications in National and International Peer-Reviewed Journals:

- Kabalan, Najah, Mahmoud Ahmad, and Ali Asad. "Study of dust-acoustic multisoliton interactions in strongly coupled dusty plasmas." *Advances in Mathematical Physics* 2020 (2020): 1-9
- Kabalan, Najah, Mhmoud Ahmad, and Ali Asad. "Study of Magnetoacoustic solitons in ultra dense quantum electron-positron-ion plasma." *Tishreen University Journal-Basic Sciences Series* Vol. 39, No.3 (2017).

- Kabalan, Najah, Mahmoud Ahmad, and Ali Asad. "Landau damping of dust acoustic solitary waves in nonextensive dusty plasma." *Baghdad Science Journal* (2023).
- Kabalan, Najah, Mahmoud Ahmad, and Ali Asad." Effect of variable dust charge on overtaking collision of multi-solitons in dusty Plasma." *Jordan Journal of Physics*, Vol. 16, No. 2, 2023.
- KABALAN, Najah; ASAD, Ali; MOTAWAJ, Fadi. Effect of Plasma Mode Frequency on Gaussian Laser Beam in Hot Plasma. *IEEE Transactions on Plasma Science*, 2024.
- Asad, Ali." Effect of external magnetic field on dust magnetosonic solitary waves in strongly coupled dusty plasma." *Journal of al Baath University*, 2024.
- Asad, Ali." Study of Effect of change of dust charge on the head collision between acoustic solitary waves in the dusty plasma." *Tartous University For Reserrch and Scientific Studies*, Vol. 8, No.4, 2024.