

# Sarthak Rohilla , Pink City's Young Scholar Shines at ISRO Exhibition 2025

The Research Paper of Sarthak Rohilla from St. Xaviers got Published in JU the Young Scientists' Journal



**Jaipur, Rajasthan Jun 22, 2025 ([Issuewire.com](https://www.issuewire.com))** - Once again the scientific temperament and research excellence of the young minds of Jaipur has brought the Pink City its much-deserved pride and spotlight. Sarthak Rohilla, Class XII student of [St. Xaviers School, Nevtā](#) has got his research paper published in [JU the Young Scientists' Journal](#) after it was presented at the Indian Space Research Organization (ISRO) Exhibition 2025.

The Xavierite succeeded in getting his research paper published in the journal out of the participants from other multiple prestigious schools nationwide. Sarthak Rohilla presented his paper for the first time at the ISRO Science Exhibition, and the event was organized at JECRC University at the launch of journal on May 9th, 2025. From where it got selected by the experts for publication in the journal based upon its research credibility and scientific potential.

The research paper submitted by Sarthak Rohilla explores the concepts of Magnetohydrodynamic

(MHD) augmented propulsion. It offers a comprehensive examination of its principles and potential applications in the contemporary and futuristic domains of space exploration. Magnetohydrodynamics is a branch of Physics concerned with the motion of electrically conducting fluids in magnetic fields. By leveraging the interaction between magnetic fields and conductive fluids, MHD systems induce currents that generate forces on the fluid, altering both the magnetic field and fluid dynamics.

Furthermore, the paper discusses the innovative use of T-layer MHD generators in hypersonic aerospace applications. These generators convert the kinetic energy of high-speed airflow into electricity, addressing the challenges associated with traditional MHD systems. The research paper shows a remarkable improvement in energy conversion and overall propulsion performance through numerical simulations. The published paper has shed some light upon various branches of the realm including (but not limited to) space agencies and global missions, advanced propulsion systems, artificial intelligence in astronomy and the uses of satellite and their influence upon our daily lives.

Hosted at the JECRC University Campus in Jaipur, the prima facie objective of organizing such an exhibition with one of the most respected and preeminent space agencies of the world was to apprise students of numerous scientific activities to redefine the role and relation to the Earth and its universe. The efforts are being put to rekindle an urge for scientific temper among the young minds and forge a quest for advance learning in this subject.

In addition to the most innovative research paper presentations, the exhibition witnessed the interactive exhibits of ISRO's successful satellite launches, informative sessions on the Gaganyaan mission and indigenous CRYO engines, working prototypes and live interactive sessions with ISRO experts. ISRO Science Exhibition 2025 offered a platform for the most gifted school students from across the country to engage themselves in exciting activities, getting certificates and accessing incredible liasoning opportunities to ignite their dreams with the wings of reality.

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