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# List of Publications (SCI/SCIE)

1. Rahul Kumar Chaturvedi, **Pradeep** and L.P. Singh, "The formation of shock wave in a two-dimensional supersonic planar and axisymmetric non-ideal gas flow with magnetic field," *Computational and Applied Mathematics*, (De Gruyter), vol. 40, no.8, pp. 1–14, 2021.
2. **Pradeep**, Rahul Kumar Chaturvedi and L.P. Singh, "The effect of dust particles on the evolution of planar and non-planar shock wave in two-dimensional supersonic flow of van der Waals gas," *The European Physical Journal Plus*, (Springer), vol. 137, no.2, pp. 1–12, 2022.
3. **Pradeep**, Rahul Kumar Chaturvedi, L.P. Singh, Solution of Hyperbolic system with magnetic field, *Waves in Random and Complex Media* (Taylor and Francis), vol. 0, no. 0, pp., 1-21, 2023.
4. **Pradeep**, Rahul Kumar Chaturvedi and L.P. Singh, "The concentration and cavitation in the Riemann solution for non-homogeneous logarithmic equation of state with magnetic field.," *Journal of Mathematical Physics*. (AIP) 65, 033101 (2024),
5. **Pradeep**, L.P. Singh, The analytical solutions of the Riemann problem to 1-D non-ideal flow of dusty gas with external force. *European Journal*

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- of Mechanics / B Fluids*, (ELSEVIER) Volume 104, March–April 2024, Pages 68-77.
6. Gaurav, L.P. Singh, **Pradeep**, The Application of Differential Constraint Method for the solution of Non-homogeneous Generalized Riemann problem. *Physica Scripta*, (IOP) Volume 98, Issue 12, id.125262, 10 pp.
7. Shweta, **Pradeep**, L. P. Singh, Evolution of shock waves in dusty non-ideal gas flow with a magnetic field. Published in **Zeitschrift für Naturforschung A**. March 2024.