

# Sona Bansal

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7372999/publications.pdf>

Version: 2024-02-01

21  
papers

123  
citations

1307594

7  
h-index

1372567

10  
g-index

21  
all docs

21  
docs citations

21  
times ranked

35  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Nonplanar ion acoustic waves in dusty plasma with two temperature electrons: Application to Saturn's E ring. <i>Physics of Plasmas</i> , 2020, 27, .   | 1.9 | 23        |
| 2  | Nonplanar Electron - Acoustic Shock Waves with Superthermal Hot Electrons. <i>Brazilian Journal of Physics</i> , 2018, 48, 638-644.  | 1.4 | 14        |
| 3  | Effect of positron density and temperature on the electron acoustic waves in a magnetized dissipative plasma. <i>Contributions To Plasma Physics</i> , 2019, 59, e201900047.                                 | 1.1 | 12        |
| 4  | Non-planar electron-acoustic waves with hybrid Cairns-Tsallis distribution. <i>Pramana - Journal of Physics</i> , 2019, 92, 1.   | 1.8 | 9         |
| 5  | Effect of non adiabatic dust charge fluctuation on nonplanar dust acoustic waves in superthermal polarized plasma. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110953.                                  | 5.1 | 9         |
| 6  | Effect of electron temperature on small-amplitude electron acoustic solitary waves in non-planar geometry. <i>Journal of Astrophysics and Astronomy</i> , 2018, 39, 1.                                       | 1.0 | 8         |
| 7  | Collisionless damping of nonplanar dust acoustic waves due to dust charge fluctuation in nonextensive polarized plasma. <i>Physica Scripta</i> , 2021, 96, 075605.   | 2.5 | 8         |
| 8  | Obliquely Propagating Electron Acoustic Shock Waves in Magnetized Plasma. <i>Brazilian Journal of Physics</i> , 2018, 48, 597-603.   | 1.4 | 7         |
| 9  | Oblique modulation of electron acoustic waves in nonextensive plasma. <i>Physics of Plasmas</i> , 2019, 26, .  | 1.9 | 7         |
| 10 | Study of obliquely propagating electron acoustic shock waves with non-extensive electron population. <i>Plasma Science and Technology</i> , 2019, 21, 015301.  | 1.5 | 7         |
| 11 | Cylindrical and spherical ion acoustic shock waves with two temperature superthermal electrons in dusty plasma. <i>European Physical Journal D</i> , 2020, 74, 1.  | 1.3 | 5         |
| 12 | Oblique modulation of electron acoustic waves in superthermal plasma. <i>Physica Scripta</i> , 2019, 94, 105603.   | 2.5 | 4         |
| 13 | Theoretical analysis of planar and non-planar electron acoustic shock waves in electron-positron ion plasma. <i>Contributions To Plasma Physics</i> , 2019, 59, e201900019.                                  | 1.1 | 2         |
| 14 | Theoretical analysis of electron acoustic shock waves in magnetized superthermal plasma with electron beam. <i>Contributions To Plasma Physics</i> , 2021, 61, e202100018.                                   | 1.1 | 2         |
| 15 | Parametric study of cylindrical and spherical dust ion acoustic shock waves with two temperature electrons in dusty plasma relevant to Saturn's E ring. <i>Contributions To Plasma Physics</i> , 2021, 61, . | 1.1 | 2         |
| 16 | Evolution of cylindrical/spherical shock formation in a dusty plasma with nonadiabatic dust charge variation. <i>Waves in Random and Complex Media</i> , 0, , 1-14.  | 2.7 | 2         |
| 17 | The Existence and Propagation of Electron Acoustic Shock Waves in Magnetized Plasma with Electron Beam. <i>Brazilian Journal of Physics</i> , 2021, 51, 1719.  | 1.4 | 1         |
| 18 | Effects of nonadiabatic dust charge variation on cylindrical/spherical shock waves propagating in a hybrid Cairns-Tsallis plasma. <i>Journal of Astrophysics and Astronomy</i> , 2022, 43, .                 | 1.0 | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Zakharovâ€™Kuznetsovâ€™Burgers equation in a magnetised non-extensive electronâ€™positronâ€™ion plasma. Pramana - Journal of Physics, 2020, 94, 1.   | 1.8 | 0         |
| 20 | Shock formation in magnetized plasma under the influence of polarization force and nonadiabaticity of dust charge variation. Fluid Dynamics Research, 2022, 54, 015509.                                    | 1.3 | 0         |
| 21 | Obliquely propagating dust acoustic shock waves in magnetized plasma under the influence of polarization force and nonadiabaticity of dust charge variation. Waves in Random and Complex Media, 0, , 1-15. | 2.7 | 0         |