

H Bailung

List of Publications by Year in descending order

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73
papers

2,400
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361413

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48
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75
all docs

75
docs citations

75
times ranked

1191
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Observation of Peregrine Solitons in a Multicomponent Plasma with Negative Ions. Physical Review Letters, 2011, 107, 255005. | 7.8 | 610 |
| 2 | Observation of Ion-Acoustic Shocks in a Dusty Plasma. Physical Review Letters, 1999, 83, 1602-1605. | 7.8 | 558 |
| 3 | Oblique collision of modified Korteweg-de Vries ion-acoustic solitons. Physics of Plasmas, 1999, 6, 3466-3470. | 1.9 | 79 |
| 4 | Synthesis and Characterization of Oxygen Vacancy Induced Narrow Bandgap Tungsten Oxide (WO ₃ x) Nanoparticles by Plasma Discharge in Liquid and Its Photocatalytic Activity. Plasma Chemistry and Plasma Processing, 2020, 40, 1019-1036. | 2.4 | 79 |
| 5 | Observation of modulational instability in a multi-component plasma with negative ions. Journal of Plasma Physics, 1993, 50, 231-242. | 2.1 | 73 |
| 6 | Head-on collision of dust-acoustic solitons in a strongly coupled dusty plasma. Physical Review E, 2014, 89, 013110. | 2.1 | 63 |
| 7 | Observation of hole Peregrine soliton in a multicomponent plasma with critical density of negative ions. Journal of Geophysical Research: Space Physics, 2013, 118, 919-924. | 2.4 | 62 |
| 8 | Observation of second order ion acoustic Peregrine breather in multicomponent plasma with negative ions. Physics of Plasmas, 2016, 23, . | 1.9 | 49 |
| 9 | Observation of sheath modification in laboratory dusty plasma. Physics of Plasmas, 2007, 14, . | 1.9 | 45 |
| 10 | Optimization of plasma parameters for high rate deposition of titanium nitride films as protective coating on bell-metal by reactive sputtering in cylindrical magnetron device. Applied Surface Science, 2008, 254, 5760-5765. | 6.1 | 45 |
| 11 | A dusty double plasma device. Review of Scientific Instruments, 1999, 70, 2345-2348. | 1.3 | 36 |
| 12 | Observation of rarefactive ion acoustic solitary waves in dusty plasma containing negative ions. Physics of Plasmas, 2009, 16, . | 1.9 | 33 |
| 13 | Characteristics of ion-acoustic solitary wave in a laboratory dusty plasma under the influence of ion-beam. Physics of Plasmas, 2012, 19, . | 1.9 | 33 |
| 14 | Investigation of sheath properties in Ar/SF ₆ dc discharge plasma. Journal Physics D: Applied Physics, 2003, 36, 645-652. | 2.8 | 29 |
| 15 | Observation of dust acoustic shock wave in a strongly coupled dusty plasma. Physics of Plasmas, 2016, 23, . | 1.9 | 28 |
| 16 | TiO ₂ /polyaniline nanocomposite films prepared by magnetron sputtering combined with plasma polymerization process. Applied Surface Science, 2011, 258, 1199-1205. | 6.1 | 27 |
| 17 | Observation of beam-enhanced sheath instability in a double plasma device. Physics of Plasmas, 1996, 3, 3245-3250. | 1.9 | 26 |
| 18 | Observation of ion acoustic multi-Peregrine solitons in multicomponent plasma with negative ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 4011-4018. | 2.1 | 26 |

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|----|---|-----|-----------|
| 19 | Characteristics of sheath instability in a double plasma device. <i>Physics of Plasmas</i> , 1997, 4, 61-68. | 1.9 | 22 |
| 20 | Deposition of nanostructured crystalline and corrosion resistant alumina film on bell metal at low temperature by rf magnetron sputtering. <i>Applied Surface Science</i> , 2009, 255, 7403-7407. | 6.1 | 22 |
| 21 | Study on discharge plasma in a cylindrical inertial electrostatic confinement fusion device. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2391-2396. | 2.1 | 19 |
| 22 | Ion-beam driven dust ion-acoustic solitary waves in dusty plasmas. <i>Physics of Plasmas</i> , 2010, 17, 044502. | 1.9 | 18 |
| 23 | Observation of instability in presence of $E\vec{A}-B$ flow in a direct current cylindrical magnetron discharge plasma. <i>Physics of Plasmas</i> , 2004, 11, 4719-4726. | 1.9 | 17 |
| 24 | Study on the influence of nitrogen on titanium nitride in a dc post magnetron sputtering plasma system. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 195205. | 2.8 | 17 |
| 25 | Plasma process for development of a bulk heterojunction optoelectronic device: A highly sensitive UV detector. <i>Applied Surface Science</i> , 2012, 258, 7897-7906. | 6.1 | 17 |
| 26 | Observation of dust acoustic multi-solitons in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2016, 23, 093704. | 1.9 | 17 |
| 27 | Observation of self-excited dust acoustic wave in dusty plasma with nanometer size dust grains. <i>Physics of Plasmas</i> , 2017, 24, . | 1.9 | 16 |
| 28 | Observation of sheath phenomena in multicomponent plasma with negative ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 244, 127-132. | 2.1 | 15 |
| 29 | Oblique collision of dust acoustic solitons in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2015, 22, . | 1.9 | 15 |
| 30 | Effects of a slow ion beam on ion-acoustic waves. <i>Physics of Plasmas</i> , 2004, 11, 3795-3800. | 1.9 | 14 |
| 31 | Influence of low energy ion beam on sheath characteristics in plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 305, 419-426. | 2.1 | 13 |
| 32 | Influence of electron beam injection on plasma parameters and sheath in a dc discharge plasma. <i>Journal of Applied Physics</i> , 2003, 94, 6328-6333. | 2.5 | 13 |
| 33 | Ion beam interaction with a potential dip formed in front of an electron-absorbing boundary. <i>Plasma Sources Science and Technology</i> , 2006, 15, 59-63. | 3.1 | 13 |
| 34 | Effect of oxygen on the characteristics of radio frequency planar magnetron sputtering plasma used for aluminum oxide deposition. <i>Journal of Applied Physics</i> , 2007, 101, 083304. | 2.5 | 13 |
| 35 | Effect of ion beam on the propagation of rarefactive solitons in multicomponent plasma with negative ions. <i>Physics of Plasmas</i> , 2010, 17, . | 1.9 | 13 |
| 36 | Dust charge measurement in a strongly coupled dusty plasma produced by an rf discharge. <i>Plasma Sources Science and Technology</i> , 2012, 21, 045002. | 3.1 | 13 |

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|----|--|-----|-----------|
| 37 | Observation of ion-acoustic shock waves undergoing Landau damping. <i>Physics of Plasmas</i> , 2004, 11, 3925-3931. | 1.9 | 12 |
| 38 | Characteristics of large amplitude compressive ion acoustic solitary wave in ion beam multicomponent plasma. <i>Physics of Plasmas</i> , 2010, 17, 032301. | 1.9 | 12 |
| 39 | Sheath and potential characteristics in rf magnetron sputtering plasma. <i>Journal of Applied Physics</i> , 2006, 100, 083303. | 2.5 | 11 |
| 40 | Transition of ion-acoustic perturbations in multicomponent plasma with negative ions. <i>Physics of Plasmas</i> , 2008, 15, 082111. | 1.9 | 11 |
| 41 | Vortex formation in a strongly coupled dusty plasma flow past an obstacle. <i>Physics of Plasmas</i> , 2020, 27, . | 1.9 | 11 |
| 42 | Cold atmospheric pressure plasma for attenuation of SARS-CoV-2 spike protein binding to ACE2 protein and the RNA deactivation. <i>RSC Advances</i> , 2022, 12, 9466-9472. | 3.6 | 11 |
| 43 | Investigation of the $E \times B$ rotation of electrons and related plasma characteristics in a radio frequency magnetron sputtering discharge. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6865-6872. | 2.8 | 10 |
| 44 | Observation of ion-acoustic shock wave transition due to enhanced Landau damping. <i>Physics of Plasmas</i> , 2008, 15, 052311. | 1.9 | 10 |
| 45 | Characteristics of dust voids in a strongly coupled laboratory dusty plasma. <i>Physics of Plasmas</i> , 2018, 25, . | 1.9 | 10 |
| 46 | Studies on virtual electrode and ion sheath characteristics in a cylindrical inertial electrostatic confinement fusion device. <i>Physics of Plasmas</i> , 2019, 26, 073514. | 1.9 | 10 |
| 47 | Observations of low-frequency mode in a multicomponent plasma with negative ions. <i>Physics of Plasmas</i> , 1999, 6, 1636-1640. | 1.9 | 9 |
| 48 | Development and optical characterization of an atmospheric pressure non-thermal plasma jet for superhydrophobic surface fabrication. <i>Plasma Research Express</i> , 2020, 2, 045002. | 0.9 | 9 |
| 49 | Effect of $E \times B$ electron drift and plasma discharge in dc magnetron sputtering plasma. <i>Chinese Physics B</i> , 2011, 20, 014701. | 1.4 | 8 |
| 50 | Spatiotemporal evolution of a self-excited dust density wave in a nanodusty plasma under strong Havnes effect. <i>Physics of Plasmas</i> , 2021, 28, . | 1.9 | 8 |
| 51 | Characteristics of presheath in multicomponent plasma with negative ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 333, 102-109. | 2.1 | 7 |
| 52 | Chaotic attractors in ion-beam plasma system. <i>Chaos, Solitons and Fractals</i> , 1994, 4, 677-680. | 5.1 | 6 |
| 53 | Self-similarity of electrostatic fluctuations in a linear magnetised plasma system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 350, 380-385. | 2.1 | 6 |
| 54 | Charging of micrometre-sized dust grains in a low temperature and low density plasma produced using a magnetic filter. <i>Plasma Sources Science and Technology</i> , 2010, 19, 055005. | 3.1 | 6 |

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|----|---|-----|-----------|
| 55 | A nanodusty plasma experiment to create extended dust clouds using reactive argon acetylene plasmas. <i>Physics of Plasmas</i> , 2021, 28, 063703. | 1.9 | 6 |
| 56 | Oblique collision of plane ion acoustic solitons in a multicomponent plasma with negative ions. <i>Journal of Plasma Physics</i> , 1999, 61, 151-159. | 2.1 | 5 |
| 57 | Ion and electron sheath characteristics in a low density and low temperature plasma. <i>Physics of Plasmas</i> , 2017, 24, 113512. | 1.9 | 5 |
| 58 | Propagation of solitary ion wavepacket in multi-component plasma with negative ions. <i>Chaos, Solitons and Fractals</i> , 1996, 7, 21-24. | 5.1 | 4 |
| 59 | Sheath characteristics in multi-component plasma with negative ions. <i>Pramana - Journal of Physics</i> , 2004, 62, 1091-1098. | 1.8 | 4 |
| 60 | The influence of RF power and gas pressure on the surface characteristics of aluminium oxide deposited by RF magnetron sputtering plasma. <i>Journal of Physics: Conference Series</i> , 2010, 208, 012102. | 0.4 | 4 |
| 61 | Suppression of a spontaneous dust density wave by modulation of ion streaming. <i>Plasma Science and Technology</i> , 2020, 22, 045002. | 1.5 | 4 |
| 62 | Novel single-step synthesis and shape transformation of Au/CuO micro/nanocomposites using plasma-liquid interaction. <i>Nanotechnology</i> , 2021, 32, 245601. | 2.6 | 4 |
| 63 | Analysis of electron energy distribution function in a magnetically filtered complex plasma. <i>Chinese Physics B</i> , 2013, 22, 045201. | 1.4 | 3 |
| 64 | Editorial: Peregrine Soliton and Breathers in Wave Physics: Achievements and Perspectives. <i>Frontiers in Physics</i> , 2021, 9, . | 2.1 | 3 |
| 65 | Characteristics of ion acoustic modified Korteweg de Vries (KdV) solitons in multicomponent plasma with negative ions. <i>Journal of Physics: Conference Series</i> , 2010, 208, 012036. | 0.4 | 1 |
| 66 | Shock Wave Propagation in a Dusty Plasma Crystal. <i>AIP Conference Proceedings</i> , 2011, , . | 0.4 | 1 |
| 67 | Study of the sheath potential structure using emissive probe in a dc magnetron plasma. <i>Journal of Physics: Conference Series</i> , 2010, 208, 012128. | 0.4 | 0 |
| 68 | Experiments on Coulomb Crystal in Rf Discharge Plasma. , 2011, , . | | 0 |
| 69 | Sheath characteristics in a magnetically filtered low density low temperature multicomponent plasma with negative ions. <i>Physics of Plasmas</i> , 2019, 26, 123511. | 1.9 | 0 |
| 70 | 10.1063/1.4950832.1. , 2016, , . | | 0 |
| 71 | 10.1063/1.4962566.1. , 2016, , . | | 0 |
| 72 | 10.1063/1.5001721.1. , 2017, , . | | 0 |

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|----|--------------------------------|----|-----------|
| 73 | 10.1063/5.0022356.1., 2020,, . | | 0 |