

# H Bailung

## List of Publications by Year in descending order

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73  
papers

2,400  
citations

361413

20  
h-index

206112

48  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1191  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold atmospheric pressure plasma for attenuation of SARS-CoV-2 spike protein binding to ACE2 protein and the RNA deactivation. RSC Advances, 2022, 12, 9466-9472.	3.6	11
2	Novel single-step synthesis and shape transformation of Au/CuO micro/nanocomposites using plasma-liquid interaction. Nanotechnology, 2021, 32, 245601.	2.6	4
3	A nanodusty plasma experiment to create extended dust clouds using reactive argon acetylene plasmas. Physics of Plasmas, 2021, 28, 063703.	1.9	6
4	Editorial: Peregrine Soliton and Breathers in Wave Physics: Achievements and Perspectives. Frontiers in Physics, 2021, 9, .	2.1	3
5	Spatiotemporal evolution of a self-excited dust density wave in a nanodusty plasma under strong Havnes effect. Physics of Plasmas, 2021, 28, .	1.9	8
6	Suppression of a spontaneous dust density wave by modulation of ion streaming. Plasma Science and Technology, 2020, 22, 045002.	1.5	4
7	Synthesis and Characterization of Oxygen Vacancy Induced Narrow Bandgap Tungsten Oxide (WO <sub>3</sub> âˆ™x) Nanoparticles by Plasma Discharge in Liquid and Its Photocatalytic Activity. Plasma Chemistry and Plasma Processing, 2020, 40, 1019-1036.	2.4	79
8	Vortex formation in a strongly coupled dusty plasma flow past an obstacle. Physics of Plasmas, 2020, 27, .	1.9	11
9	Development and optical characterization of an atmospheric pressure non-thermal plasma jet for superhydrophobic surface fabrication. Plasma Research Express, 2020, 2, 045002.	0.9	9
10	10.1063/5.0022356.1., 2020, , .		0
11	Studies on virtual electrode and ion sheath characteristics in a cylindrical inertial electrostatic confinement fusion device. Physics of Plasmas, 2019, 26, 073514.	1.9	10
12	Sheath characteristics in a magnetically filtered low density low temperature multicomponent plasma with negative ions. Physics of Plasmas, 2019, 26, 123511.	1.9	0
13	Characteristics of dust voids in a strongly coupled laboratory dusty plasma. Physics of Plasmas, 2018, 25, .	1.9	10
14	Study on discharge plasma in a cylindrical inertial electrostatic confinement fusion device. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2391-2396.	2.1	19
15	Observation of self-excited dust acoustic wave in dusty plasma with nanometer size dust grains. Physics of Plasmas, 2017, 24, .	1.9	16
16	Ion and electron sheath characteristics in a low density and low temperature plasma. Physics of Plasmas, 2017, 24, 113512.	1.9	5
17	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
18	10.1063/1.5001721.1., 2017, , .		0

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19	Observation of second order ion acoustic Peregrine breather in multicomponent plasma with negative ions. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	49
20	Observation of dust acoustic shock wave in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	28
21	Observation of dust acoustic multi-solitons in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2016, 23, 093704.	1.9	17
22	10.1063/1.4950832.1. , 2016, , .		0
23	10.1063/1.4962566.1. , 2016, , .		0
24	Oblique collision of dust acoustic solitons in a strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	15
25	Head-on collision of dust-acoustic solitons in a strongly coupled dusty plasma. <i>Physical Review E</i> , 2014, 89, 013110.	2.1	63
26	Observation of hole Peregrine soliton in a multicomponent plasma with critical density of negative ions. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 919-924.	2.4	62
27	Analysis of electron energy distribution function in a magnetically filtered complex plasma. <i>Chinese Physics B</i> , 2013, 22, 045201.	1.4	3
28	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
29	Characteristics of ion-acoustic solitary wave in a laboratory dusty plasma under the influence of ion-beam. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	33
30	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
31	Effect of $E_{\perp}$ electron drift and plasma discharge in dc magnetron sputtering plasma. <i>Chinese Physics B</i> , 2011, 20, 014701.	1.4	8
32	Observation of Peregrine Solitons in a Multicomponent Plasma with Negative Ions. <i>Physical Review Letters</i> , 2011, 107, 255005.	7.8	610
33	TiO <sub>2</sub> /polyaniline nanocomposite films prepared by magnetron sputtering combined with plasma polymerization process. <i>Applied Surface Science</i> , 2011, 258, 1199-1205.	6.1	27
34	Shock Wave Propagation in a Dusty Plasma Crystal. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	1
35	Experiments on Coulomb Crystal in Rf Discharge Plasma. , 2011, , .		0
36	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

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37	Charging of micrometre-sized dust grains in a low temperature and low density plasma produced using a magnetic filter. Plasma Sources Science and Technology, 2010, 19, 055005.	3.1	6
38	Characteristics of large amplitude compressive ion acoustic solitary wave in ion beam multicomponent plasma. Physics of Plasmas, 2010, 17, 032301.	1.9	12
39	Ion-beam driven dust ion-acoustic solitary waves in dusty plasmas. Physics of Plasmas, 2010, 17, 044502.	1.9	18
40	Effect of ion beam on the propagation of rarefactive solitons in multicomponent plasma with negative ions. Physics of Plasmas, 2010, 17, .	1.9	13
41	Study of the sheath potential structure using emissive probe in a dc magnetron plasma. Journal of Physics: Conference Series, 2010, 208, 012128.	0.4	0
42	Characteristics of ion acoustic modified Korteweg de Vries (KdV) solitons in multicomponent plasma with negative ions. Journal of Physics: Conference Series, 2010, 208, 012036.	0.4	1
43	Observation of rarefactive ion acoustic solitary waves in dusty plasma containing negative ions. Physics of Plasmas, 2009, 16, .	1.9	33
44	Deposition of nanostructured crystalline and corrosion resistant alumina film on bell metal at low temperature by rf magnetron sputtering. Applied Surface Science, 2009, 255, 7403-7407.	6.1	22
45	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
46	Study on the influence of nitrogen on titanium nitride in a dc post magnetron sputtering plasma system. Journal Physics D: Applied Physics, 2008, 41, 195205.	2.8	17
47	Transition of ion-acoustic perturbations in multicomponent plasma with negative ions. Physics of Plasmas, 2008, 15, 082111.	1.9	11
48	Observation of ion-acoustic shock wave transition due to enhanced Landau damping. Physics of Plasmas, 2008, 15, 052311.	1.9	10
49	Investigation of the $E \times B$ rotation of electrons and related plasma characteristics in a radio frequency magnetron sputtering discharge. Journal Physics D: Applied Physics, 2007, 40, 6865-6872.	2.8	10
50	Effect of oxygen on the characteristics of radio frequency planar magnetron sputtering plasma used for aluminum oxide deposition. Journal of Applied Physics, 2007, 101, 083304.	2.5	13
51	Observation of sheath modification in laboratory dusty plasma. Physics of Plasmas, 2007, 14, .	1.9	45
52	Sheath and potential characteristics in rf magnetron sputtering plasma. Journal of Applied Physics, 2006, 100, 083303.	2.5	11
53	Self-similarity of electrostatic fluctuations in a linear magnetised plasma system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 380-385.	2.1	6
54	Ion beam interaction with a potential dip formed in front of an electron-absorbing boundary. Plasma Sources Science and Technology, 2006, 15, 59-63.	3.1	13

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55	Effects of a slow ion beam on ion-acoustic waves. <i>Physics of Plasmas</i> , 2004, 11, 3795-3800.	1.9	14
56	Sheath characteristics in multi-component plasma with negative ions. <i>Pramana - Journal of Physics</i> , 2004, 62, 1091-1098.	1.8	4
57	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
58	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
59	Observation of ion-acoustic shock waves undergoing Landau damping. <i>Physics of Plasmas</i> , 2004, 11, 3925-3931.	1.9	12
60	Investigation of sheath properties in Ar/SF <sub>6</sub> dc discharge plasma. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 645-652.	2.8	29
61	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
62	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
63	Observation of Ion-Acoustic Shocks in a Dusty Plasma. <i>Physical Review Letters</i> , 1999, 83, 1602-1605.	7.8	558
64	Observations of low-frequency mode in a multicomponent plasma with negative ions. <i>Physics of Plasmas</i> , 1999, 6, 1636-1640.	1.9	9
65	Oblique collision of modified Kortewegâ€“de Vries ion-acoustic solitons. <i>Physics of Plasmas</i> , 1999, 6, 3466-3470.	1.9	79
66	A dusty double plasma device. <i>Review of Scientific Instruments</i> , 1999, 70, 2345-2348.	1.3	36
67	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
68	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
69	Characteristics of sheath instability in a double plasma device. <i>Physics of Plasmas</i> , 1997, 4, 61-68.	1.9	22
70	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
71	Observation of beamâ€“enhanced sheath instability in a double plasma device. <i>Physics of Plasmas</i> , 1996, 3, 3245-3250.	1.9	26
72	Chaotic attractors in ion-beam plasma system. <i>Chaos, Solitons and Fractals</i> , 1994, 4, 677-680.	5.1	6

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73	Observation of modulational instability in a multi-component plasma with negative ions. Journal of Plasma Physics, 1993, 50, 231-242.	2.1	73