

Abhijit Sen

List of Publications by Year in descending order

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208
papers

5,984
citations

117625

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210
docs citations

210
times ranked

2775
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Delay Induced Death in Coupled Limit Cycle Oscillators. <i>Physical Review Letters</i> , 1998, 80, 5109-5112.	7.8	531
2	Low frequency modes in strongly coupled dusty plasmas. <i>Physics of Plasmas</i> , 1998, 5, 3552-3559.	1.9	366
3	Collective effects due to charge-fluctuation dynamics in a dusty plasma. <i>Physical Review E</i> , 1993, 48, 3930-3933.	2.1	302
4	Experimental Evidence of Time-Delay-Induced Death in Coupled Limit-Cycle Oscillators. <i>Physical Review Letters</i> , 2000, 85, 3381-3384.	7.8	275
5	Clustered Chimera States in Delay-Coupled Oscillator Systems. <i>Physical Review Letters</i> , 2008, 100, 144102.	7.8	255
6	Chimera States: The Existence Criteria Revisited. <i>Physical Review Letters</i> , 2014, 112, 144101.	7.8	227
7	Principal physics developments evaluated in the ITER design review. <i>Nuclear Fusion</i> , 2009, 49, 065012.	3.5	200
8	Experimental Study of Nonlinear Dust Acoustic Solitary Waves in a Dusty Plasma. <i>Physical Review Letters</i> , 2008, 101, 065006.	7.8	194
9	Time delay effects on coupled limit cycle oscillators at Hopf bifurcation. <i>Physica D: Nonlinear Phenomena</i> , 1999, 129, 15-34.	2.8	171
10	Nonlinear 1D laser pulse solitons in a plasma. <i>Physical Review Letters</i> , 1992, 68, 3172-3175.	7.8	153
11	Amplitude-mediated chimera states. <i>Physical Review E</i> , 2013, 88, 042917.	2.1	141
12	Experimental Observations of Transverse Shear Waves in Strongly Coupled Dusty Plasmas. <i>Physical Review Letters</i> , 2002, 88, 175001.	7.8	98
13	Nonlinear wave excitations by orbiting charged space debris objects. <i>Advances in Space Research</i> , 2015, 56, 429-435.	2.6	92
14	Dynamics of a limit cycle oscillator under time delayed linear and nonlinear feedbacks. <i>Physica D: Nonlinear Phenomena</i> , 2000, 144, 335-357.	2.8	87
15	Experimental observation of extreme multistability in an electronic system of two coupled Rössler oscillators. <i>Physical Review E</i> , 2014, 89, 022918.	2.1	86
16	Phase-locked patterns and amplitude death in a ring of delay-coupled limit cycle oscillators. <i>Physical Review E</i> , 2004, 69, 056217.	2.1	85
17	Effect of polarization force on the propagation of dust acoustic solitary waves. <i>New Journal of Physics</i> , 2010, 12, 073002.	2.9	66
18	Characterization of Coherent Structures in Tokamak Edge Turbulence. <i>Physical Review Letters</i> , 1994, 73, 3403-3406.	7.8	64

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19	Formation of a density blob and its dynamics in the edge and the scrape-off layer of a tokamak plasma. <i>Physics of Plasmas</i> , 2005, 12, 102515.	1.9	57
20	Effect of sheared flows on classical and neoclassical tearing modes. <i>Nuclear Fusion</i> , 2005, 45, 524-530.	3.5	55
21	Forced magnetic field line reconnection in electron magnetohydrodynamics. <i>Physics of Plasmas</i> , 1998, 5, 2849-2860.	1.9	52
22	Simulation of plasma transport by coherent structures in scrape-off-layer tokamak plasmas. <i>Physics of Plasmas</i> , 2004, 11, 4018-4024.	1.9	52
23	Laser envelope solitons in cold overdense plasmas. <i>Physics of Plasmas</i> , 2002, 9, 1820-1823.	1.9	51
24	A Review of Alfvénic Turbulence in High-Speed Solar Wind Streams: Hints From Cometary Plasma Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2458-2492.	2.4	51
25	Experimental observation of precursor solitons in a flowing complex plasma. <i>Physical Review E</i> , 2016, 93, 041201.	2.1	50
26	Experimental observation of dust-acoustic wave turbulence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 312, 84-90.	2.1	49
27	Weakly relativistic one-dimensional laser pulse envelope solitons in a warm plasma. <i>Physics of Plasmas</i> , 2002, 9, 3802-3810.	1.9	48
28	Edge and scrape-off layer tokamak plasma turbulence simulation using two-field fluid model. <i>Physics of Plasmas</i> , 2005, 12, 072520.	1.9	47
29	Nonlinear wave propagation in strongly coupled dusty plasmas. <i>Physical Review E</i> , 2010, 81, 036407.	2.1	47
30	Diverse routes of transition from amplitude to oscillation death in coupled oscillators under additional repulsive links. <i>Physical Review E</i> , 2014, 89, 032901.	2.1	44
31	Generation and Amplification of Magnetic Islands by Drift Interchange Turbulence. <i>Physical Review Letters</i> , 2011, 107, 095003.	7.8	41
32	Modelling and analytic studies of sheared flow effects on tearing modes. <i>Nuclear Fusion</i> , 2015, 55, 053016.	3.5	37
33	Unprecedented 30 K hysteresis across switchable dielectric and magnetic properties in a bright luminescent organic-inorganic halide (CH ₆ N ₃) ₂ MnCl ₄ . <i>Journal of Materials Chemistry C</i> , 2019, 7, 4838-4845.	5.5	37
34	Experimental observation of strong coupling effects on the dispersion of dust acoustic waves in a plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 368, 491-494.	2.1	36
35	Time-delay effects on the aging transition in a population of coupled oscillators. <i>Physical Review E</i> , 2014, 90, 042904.	2.1	36
36	Fluid simulation studies of the dynamical behavior of one-dimensional relativistic electromagnetic solitons. <i>Physics of Plasmas</i> , 2006, 13, 032309.	1.9	34

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37	Phase mixing of relativistically intense waves in a cold homogeneous plasma. <i>Physical Review E</i> , 2009, 79, 026404.	2.1	34
38	Dusty Plasma Experimental (DPEX) device for complex plasma experiments with flow. <i>Review of Scientific Instruments</i> , 2015, 86, 113503.	1.3	34
39	Death island boundaries for delay-coupled oscillator chains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 355, 202-206.	2.1	33
40	Plasma density and ion energy control via driving frequency and applied voltage in a collisionless capacitively coupled plasma discharge. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	33
41	Nonlinear Dynamics of Magnetic Islands Imbedded in Small-Scale Turbulence. <i>Physical Review Letters</i> , 2009, 103, 145001.	7.8	32
42	Analysis of tokamak data using a novel Hilbert transform based technique. <i>Physics of Plasmas</i> , 2006, 13, 082507.	1.9	31
43	Stability of nonlinear one-dimensional laser pulse solitons in a plasma. <i>Physics of Plasmas</i> , 2007, 14, 072307.	1.9	30
44	Wakes and precursor soliton excitations by a moving charged object in a plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	30
45	Theoretical study of head-on collision of dust acoustic solitary waves in a strongly coupled complex plasma. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	29
46	Effect of the curvature and the \hat{I}^2 parameter on the nonlinear dynamics of a drift tearing magnetic island. <i>Nuclear Fusion</i> , 2009, 49, 055016.	3.5	28
47	Overview of operation and experiments in the ADITYA-U tokamak. <i>Nuclear Fusion</i> , 2019, 59, 112006.	3.5	28
48	Zonal and streamer structures in magnetic-curvature-driven Rayleigh–Taylor instability. <i>Physics of Plasmas</i> , 2001, 8, 5104-5112.	1.9	27
49	Electric field filamentation and higher harmonic generation in very high frequency capacitive discharges. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 365201.	2.8	26
50	A KdV-like advection–dispersion equation with some remarkable properties. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4115-4124.	3.3	25
51	Spatial symmetry breaking in single-frequency CCP discharge with transverse magnetic field. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	25
52	Fore-wake excitations from moving charged objects in a complex plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	24
53	Experimental observation of cnoidal waveform of nonlinear dust acoustic waves. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	24
54	Experimental observation of a dusty plasma crystal in the cathode sheath of a DC glow discharge plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	24

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55	Microscopic Origin of Shear Relaxation in a Model Viscoelastic Liquid. <i>Physical Review Letters</i> , 2015, 114, 055002.	7.8	23
56	Effect of size and shape of a moving charged object on the propagation characteristics of precursor solitons. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	23
57	Dynamical origin of shear flow induced modifications of magnetic islands. <i>Nuclear Fusion</i> , 2007, 47, 1238-1243.	3.5	22
58	Experimental investigation of flow induced dust acoustic shock waves in a complex plasma. <i>Physics of Plasmas</i> , 2016, 23, 083701.	1.9	22
59	Influence of select discharge parameters on electric field transients triggered in collisionless very high frequency capacitive discharges. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	22
60	Coupled nonlinear stationary waves in a plasma. <i>Physica D: Nonlinear Phenomena</i> , 1983, 9, 96-102.	2.8	21
61	Coherence resonance in an excitable system with time delay. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 364, 227-230.	2.1	21
62	Phase mixing/wave breaking studies of large amplitude oscillations in a cold homogeneous unmagnetized plasma. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 074014.	2.1	21
63	Inverse cascades in turbulence and the case of rotating flows. <i>Physica Scripta</i> , 2013, T155, 014032.	2.5	21
64	Chimera states in a population of identical oscillators under planar cross-coupling. <i>Pramana - Journal of Physics</i> , 2015, 84, 229-235.	1.8	21
65	Rayleigh-Taylor instability in dusty plasma experiment. <i>Physics of Plasmas</i> , 2015, 22, 083707.	1.9	20
66	Particle-in-cell simulation of large amplitude ion-acoustic solitons. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	20
67	A Critique of Recent Semi-Classical Spin-Half Quantum Plasma Theories. <i>Contributions To Plasma Physics</i> , 2015, 55, 3-11.	1.1	20
68	Order-disorder structural phase transition and magnetocaloric effect in organic-inorganic halide hybrid (C ₂ H ₅ NH ₃) ₂ CoCl ₄ . <i>Journal of Solid State Chemistry</i> , 2018, 258, 431-440.	2.9	20
69	Electron bounce-cyclotron resonance in capacitive discharges at low magnetic fields. <i>Physical Review Research</i> , 2022, 4, .	3.6	20
70	Relativistic electromagnetic flat top solitons and their stability. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	19
71	A signature for turbulence driven magnetic islands. <i>Physics of Plasmas</i> , 2014, 21, 092303.	1.9	19
72	Flowing dusty plasma experiments: generation of flow and measurement techniques. <i>Plasma Sources Science and Technology</i> , 2016, 25, 065021.	3.1	19

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73	Instability of shear waves in an inhomogeneous strongly coupled dusty plasma. <i>Physics of Plasmas</i> , 2000, 7, 3188-3193.	1.9	18
74	Synchronization between two coupled direct current glow discharge plasma sources. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	18
75	Turbulence driven tearing modes in a tokamak plasma. <i>Physics of Fluids</i> , 1981, 24, 1303.	1.4	17
76	Quasisteady state interpulse plasmas. <i>Journal of Applied Physics</i> , 2007, 101, 113311.	2.5	17
77	Dust cluster explosion. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	17
78	Stabilization of Resistive Ballooning Modes in High-Temperature Plasmas. <i>Physical Review Letters</i> , 1984, 52, 1617-1620.	7.8	16
79	Driven transverse shear waves in a strongly coupled dusty plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5467-5470.	2.1	16
80	Investigation of gas puff induced fluctuation suppression in ADITYA tokamak. <i>Plasma Physics and Controlled Fusion</i> , 2009, 51, 095010.	2.1	16
81	Low-frequency electrostatic modes in a magnetized dusty plasma. <i>Physical Review A</i> , 1992, 45, 5929-5934.	2.5	15
82	Tearing mode stability in a toroidally flowing plasma. <i>Nuclear Fusion</i> , 2013, 53, 053006.	3.5	15
83	A universal mechanism for plasma blob formation. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	15
84	Experimental observation of a first-order phase transition in a complex plasma monolayer crystal. <i>Physical Review E</i> , 2020, 101, 043209.	2.1	15
85	Turbulent Modification of the $m=1$ Resistive Tearing Instability. <i>Physical Review Letters</i> , 1980, 44, 322-326.	7.8	14
86	Chaotic dynamics of charged particles in the field of two monochromatic waves in a magnetized plasma. <i>Chaos</i> , 1996, 6, 451-460.	2.5	14
87	Nonlinear saturation of the Rayleigh-Taylor instability. <i>Physics of Plasmas</i> , 1997, 4, 1018-1027.	1.9	14
88	Nonlinear viscoresistive dynamics of the $m=1$ tearing instability. <i>Physics of Plasmas</i> , 2008, 15, 022502.	1.9	14
89	Novel approaches for mitigating runaway electrons and plasma disruptions in ADITYA tokamak. <i>Nuclear Fusion</i> , 2015, 55, 063010.	3.5	14
90	DPEX-II: a new dusty plasma device capable of producing large sized DC coulomb crystals. <i>Plasma Sources Science and Technology</i> , 2021, 30, 085003.	3.1	14

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91	Investigating the effects of electron bounce-cyclotron resonance on plasma dynamics in capacitive discharges operated in the presence of a weak transverse magnetic field. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	14
92	Linearly polarized superluminal electromagnetic solitons in cold relativistic plasmas. <i>Physical Review E</i> , 2009, 80, 016406.	2.1	12
93	Observation of sharply peaked solitons in dusty plasma simulations. <i>New Journal of Physics</i> , 2012, 14, 063008.	2.9	12
94	Generation of a magnetic island by edge turbulence in tokamak plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	12
95	A dynamical framework to relate perceptual variability with multisensory information processing. <i>Scientific Reports</i> , 2016, 6, 31280.	3.3	12
96	Coulomb fission of a dusty plasma. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	12
97	Nonlinear dynamics of turbulence driven magnetic islands. I. Theoretical aspects. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12
98	Nonlinear dynamics of turbulence driven magnetic islands. II. Numerical simulations. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12
99	Driving frequency effect on discharge parameters and higher harmonic generation in capacitive discharges at constant power densities. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 055205.	2.8	12
100	Precursor magneto-sonic solitons in a plasma from a moving charge bunch. <i>New Journal of Physics</i> , 2020, 22, 073057.	2.9	12
101	Rayleigh-Taylor instability driven nonlinear vortices in dusty plasmas. <i>Physics of Plasmas</i> , 2005, 12, 044506.	1.9	11
102	Amplitude mediated chimera states with active and inactive oscillators. <i>Chaos</i> , 2018, 28, 053109.	2.5	11
103	Low Frequency ($f < 200$ Hz) Polar Plasmaspheric Hiss: Coherent and Intense. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10063-10084.	2.4	11
104	CHAOS IN ABELIAN AND NON-ABELIAN HIGGS SYSTEMS. <i>International Journal of Modern Physics A</i> , 1993, 08, 1755-1772.	1.5	10
105	Nonlinear coupling of a superluminal electromagnetic wave to a relativistic electron beam. <i>Journal of Plasma Physics</i> , 1996, 56, 209-220.	2.1	10
106	Intrinsic toroidal and poloidal flow generation in the background of ion temperature gradient turbulence. <i>Nuclear Fusion</i> , 2011, 51, 013002.	3.5	10
107	Comment on "Spin-Gradient-Driven Light Amplification in a Quantum Plasma". <i>Physical Review Letters</i> , 2014, 112, 129501.	7.8	10
108	Kelvin-Helmholtz instability in dusty plasma medium: Fluid and particle approach. <i>Journal of Plasma Physics</i> , 2014, 80, 817-823.	2.1	10

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109	Amplification of a turbulence driven seed magnetic island by bootstrap current. Nuclear Fusion, 2017, 57, 072010.	3.5	10
110	Experimental observation of pinned solitons in a flowing dusty plasma. Physical Review E, 2021, 103, 013201.	2.1	10
111	Overview of recent experimental results from the ADITYA-U tokamak. Nuclear Fusion, 2022, 62, 042017.	3.5	10
112	Nonlinear stationary solutions for coupled electron-plasma and ion-acoustic waves in a plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 110, 35-39.	2.1	9
113	Feedback control of tearing modes via modulated neutral beams. Physics of Plasmas, 1997, 4, 3217-3221.	1.9	9
114	Collective dynamics of delay-coupled limit cycle oscillators. Pramana - Journal of Physics, 2005, 64, 465-482.	1.8	9
115	Kelvin-Helmholtz instability in a weakly coupled dust fluid. Physics of Plasmas, 2012, 19, .	1.9	9
116	Molecular dynamics simulations of soliton-like structures in a dusty plasma medium. Physics of Plasmas, 2015, 22, 033706.	1.9	9
117	A dust particle based technique to measure potential profiles in a plasma. Physics of Plasmas, 2018, 25, 083711.	1.9	9
118	Micro-dynamics of neutral flow induced dusty plasma flow. Physics of Plasmas, 2019, 26, .	1.9	9
119	A forced Korteweg-de Vries model for nonlinear mixing of oscillations in a dusty plasma. Physics of Plasmas, 2020, 27, .	1.9	9
120	Nonlinear traveling waves in a helical wiggler free-electron laser. Physical Review A, 1986, 34, 392-400.	2.5	8
121	Computation of the diocotron spectrum of a cylindrical non-neutral plasma. Physics of Plasmas, 1999, 6, 3442-3449.	1.9	8
122	Effect of time varying transmission rates on the coupled dynamics of epidemic and awareness over a multiplex network. Chaos, 2018, 28, 113125.	2.5	8
123	Experimental investigation of dynamical structures formed due to a complex plasma flowing past an obstacle. Physics of Plasmas, 2018, 25, .	1.9	8
124	Excitation of dust acoustic shock waves in an inhomogeneous dusty plasma. Physics of Plasmas, 2020, 27, .	1.9	8
125	Effects of nitrogen seeding in a tokamak plasma. Physics of Plasmas, 2020, 27, .	1.9	8
126	Experimental validation of universal plasma blob formation mechanism. Nuclear Fusion, 2022, 62, 026027.	3.5	8

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127	Effect of sheared toroidal flow on the equilibrium of an axisymmetric plasma torus. Plasma Physics and Controlled Fusion, 1992, 34, 1211-1223.	2.1	7
128	Nonlinear 1D laser pulse solitons for particle acceleration. Physica Scripta, 1994, T50, 47-50.	2.5	7
129	Theory of drift waves in the presence of parallel and perpendicular flow curvature. I. Slab model. Physics of Plasmas, 1996, 3, 2224-2228.	1.9	7
130	Driven response of time delay coupled limit cycle oscillators. Communications in Nonlinear Science and Numerical Simulation, 2003, 8, 493-518.	3.3	7
131	Synchronous solutions and their stability in nonlocally coupled phase oscillators with propagation delays. Physical Review E, 2010, 81, 056213.	2.1	7
132	Phase-locked solutions and their stability in the presence of propagation delays. Pramana - Journal of Physics, 2011, 77, 905-915.	1.8	7
133	Longitudinal singular response of dusty plasma medium in weak and strong coupling limits. Physics of Plasmas, 2012, 19, .	1.9	7
134	Nonlinear simulation of ELM dynamics in the presence of resonant magnetic perturbations. Nuclear Fusion, 2017, 57, 076001.	3.5	7
135	Visco-resistive MHD study of internal kink ($m = 1$) modes. Physics of Plasmas, 2018, 25, 022504.	1.9	7
136	Finite electron temperature gradient effects on blob formation in the scrape-off layer of a tokamak plasma. Nuclear Fusion, 2021, 61, 066008.	3.5	7
137	Reflection of a dust acoustic solitary wave in a dusty plasma. Physics of Plasmas, 2021, 28, .	1.9	7
138	Soliton solutions for free-electron-laser applications. Physical Review Letters, 1993, 70, 786-789.	7.8	6
139	Space charge effects in the Paul trap. Physics of Plasmas, 1995, 2, 3569-3572.	1.9	6
140	Excitable dynamics in the presence of time delay. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 285-289.	2.1	6
141	ETG turbulence effects on the evolution of an NTM. Nuclear Fusion, 2009, 49, 115012.	3.5	6
142	Experimental observation of phase-flip transitions in two inductively coupled glow discharge plasmas. Physical Review E, 2016, 94, 061201.	2.1	6
143	Observation of thick toroidal filaments during the disruptive phase of Aditya tokamak plasma. Physics of Plasmas, 2017, 24, .	1.9	6
144	Coulomb explosion and fission of charged dust clusters. AIP Conference Proceedings, 2018, , .	0.4	6

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145	Nonlinear saturated states of the magnetic-curvature-driven Rayleigh-Taylor instability in three dimensions. <i>Physics of Plasmas</i> , 2005, 12, 032302.	1.9	5
146	Bispectral analysis of nonlinear mixing in a periodically driven Korteweg-de Vries system. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	5
147	A nonlinear mechanism for magnetic reconnection and substorm activity. <i>Geophysical Research Letters</i> , 1980, 7, 921-924.	4.0	4
148	Nonlinear kinetic theory of the free-electron laser. <i>Physical Review A</i> , 1990, 42, 7395-7400.	2.5	4
149	Effect of rigid rotation on the stability to external kink modes. <i>Physics of Fluids B</i> , 1993, 5, 2138-2144.	1.7	4
150	Cylindrical solitary envelope pulses in warm overdense plasmas. <i>Physics of Plasmas</i> , 2000, 7, 1056-1059.	1.9	4
151	Exact propagating nonlinear singular disturbances in strongly coupled dusty plasmas. <i>Physics of Plasmas</i> , 2014, 21, 083701.	1.9	4
152	Collective dynamics of globally delay-coupled complex Ginzburg-Landau oscillators. <i>Chaos</i> , 2019, 29, 053104.	2.5	4
153	Recurrence in three dimensional magnetohydrodynamic plasma. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	4
154	Effect of rigid toroidal rotation on the stability of a tokamak plasma to tearing modes. <i>Physics of Plasmas</i> , 1997, 4, 239-241.	1.9	3
155	Nonlinear propagation of relativistically intense electromagnetic waves in a collisionless plasma. <i>Pramana - Journal of Physics</i> , 1997, 48, 675-692.	1.8	3
156	Stationary modes in a non-neutral plasma. <i>Physics of Plasmas</i> , 1998, 5, 895-901.	1.9	3
157	Spectrum of Electrostatic Modes in a Cylindrical Non-neutral Plasma of Arbitrary Density. <i>Journal of Computational Physics</i> , 2000, 159, 312-328.	3.8	3
158	Zero-dimensional model for magnetic curvature driven Rayleigh Taylor turbulence simulations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 378, 211-222.	2.6	3
159	A Sniffer Technique for an Efficient Deduction of Model Dynamical Equations Using Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2011, , 1-12.	1.3	3
160	Existence and stability of traveling-wave states in a ring of nonlocally coupled phase oscillators with propagation delays. <i>Physical Review E</i> , 2011, 84, 066203.	2.1	3
161	Nonlinear dynamics of multiple neoclassical tearing modes in tokamaks. <i>Physics of Plasmas</i> , 2013, 20, 042505.	1.9	3
162	Dynamics of compressional Mach cones in a strongly coupled complex plasma. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	3

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163	On the existence of vapor-liquid phase transition in dusty plasmas. <i>Physics of Plasmas</i> , 2014, 21, 103705.	1.9	3
164	Collective dynamics of time-delay-coupled phase oscillators in a frustrated geometry. <i>Physical Review E</i> , 2017, 95, 012204.	2.1	3
165	External control of the synchronization dynamics of two inductively coupled glow discharge plasma sources. <i>Physics of Plasmas</i> , 2017, 24, 102316.	1.9	3
166	Physical Origin of Short Scale Plasma Structures in the Auroral F Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028422.	2.4	3
167	Effect of in-plane shear flow on the magnetic island coalescence instability. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
168	Runaway electron mitigation with supersonic molecular beam injection (SMBI) in ADITYA-U tokamak. <i>Nuclear Fusion</i> , 2021, 61, 016027.	3.5	3
169	Studies on impurity seeding and transport in edge and SOL of tokamak plasma. <i>Nuclear Fusion</i> , 2022, 62, 036001.	3.5	3
170	ÅEerenkov emission from an axial-wiggler-magnetoactive plasma. <i>Physical Review A</i> , 1992, 45, 2593-2605.	2.5	2
171	Control of neoclassical tearing modes in large tokamaks. <i>Nuclear Fusion</i> , 2000, 40, 707-712.	3.5	2
172	Amplitude Death, Synchrony, and Chimera States in Delay Coupled Limit Cycle Oscillators. <i>Understanding Complex Systems</i> , 2009, , 1-43.	0.6	2
173	Interaction and propagation characteristics of two counter and co-propagating Mach cones in a dusty plasma. <i>Physics of Plasmas</i> , 2017, 24, 033706.	1.9	2
174	Experimental investigation of test particle induced micro-structural changes in a finite two-dimensional complex plasma crystal. <i>Physics of Plasmas</i> , 2019, 26, 103701.	1.9	2
175	Kinetic particle simulations in a global toroidal geometry. <i>Physics of Plasmas</i> , 2019, 26, 082507.	1.9	2
176	Numerical simulation of the effect of pellet injection on ELMs. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 085019.	2.1	2
177	Dynamics of mutual harmonic synchronization between two coupled glow discharge plasma systems. <i>Physics of Plasmas</i> , 2019, 26, 032305.	1.9	2
178	Simulation of the internal kink mode in visco-resistive regimes. <i>Nuclear Fusion</i> , 2020, 60, 046004.	3.5	2
179	Edge biasing and its impact on the edge and SOL turbulence. <i>Nuclear Fusion</i> , 2022, 62, 086030.	3.5	2
180	Stability of one-dimensional relativistic laser plasma envelope solitons. <i>Journal of Physics: Conference Series</i> , 2008, 112, 022110.	0.4	1

#	ARTICLE	IF	CITATIONS
181	Cyroknetic analysis of tearing instabilities in a collisionless plasma. Physics of Plasmas, 2011, 18, 032112.	1.9	1
182	Nonlinear Precursor Waves from a Moving Charged Object in a Plasma. , 2019, , .		1
183	Coherent nonlinear oscillations in magnetohydrodynamic plasma. Physics of Plasmas, 2019, 26, .	1.9	1
184	A nonlinear simulation study of the effect of toroidal rotation on RMP control of ELMs. Nuclear Fusion, 0, , .	3.5	1
185	A model for the fine structure of Saturn's rings. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 194, 241-245.	2.1	1
186	Data driven discovery of a model equation for anode-glow oscillations in a low pressure plasma discharge. Physics of Plasmas, 2022, 29, 042112.	1.9	1
187	Ponderomotive modification of drift tearing modes. Physics of Plasmas, 1997, 4, 1166-1168.	1.9	0
188	Viscous instability in a non-neutral plasma. Physics of Plasmas, 1999, 6, 729-736.	1.9	0
189	Interfacial Instability Triggered Coulomb Crystallization of Charged Water Droplets. Physical Review Letters, 2004, 93, .	7.8	0
190	Collective dynamics of delay-coupled limit cycle oscillators. Pramana - Journal of Physics, 2005, 64, 465-482.	1.8	0
191	Coherence resonance in an autapse neuron model with time delay. , 2007, , .		0
192	Visco-elastic effects in strongly coupled dusty plasmas. AIP Conference Proceedings, 2008, , .	0.4	0
193	Coherent Structures and Intermittency in Plasma Turbulence. , 2008, , .		0
194	Nonlinear Generalized Hydrodynamic Wave Equations in Strongly Coupled Dusty Plasmas. AIP Conference Proceedings, 2008, , .	0.4	0
195	Multi-CPU simulation of the tearing mode and ($m=1, n=1$) internal resistive kink mode. Journal of Physics: Conference Series, 2010, 208, 012053.	0.4	0
196	Collective Dynamics of Strongly Coupled Dusty Plasmas. , 2010, , .		0
197	Introduction to Neoclassical Tearing Modes and the Role of Rotation. Fusion Science and Technology, 2011, 59, 526-538.	1.1	0
198	25th IAEA Fusion Energy Conference: summary of sessions EX/S, EX/W and ICC. Nuclear Fusion, 2015, 55, 104024.	3.5	0

#	ARTICLE	IF	CITATIONS
199	Indirect detection of charged space debris via nonlinear wave excitations. , 2015, , .		0
200	Excitation of nonlinear wave patterns in flowing complex plasmas. AIP Conference Proceedings, 2018, , .	0.4	0
201	Summary of basic plasma physics sessions at the first Asia Pacific Plasma Conference, 2017. Reviews of Modern Plasma Physics, 2018, 2, 1.	4.1	0
202	Stimulated Fore-wake Excitations from Moving Charged Objects in the Ionosphere. , 2019, , .		0
203	Harmonics Of Drift Tearing Modes In ADITYA Tokamak. , 2019, , .		0
204	Reply to the "Comment on "Unprecedented 30 K hysteresis across switchable dielectric and magnetic properties in a bright luminescent organic-inorganic halide (CH ₆ N ₃) ₂ MnCl ₄ " by M. Szafranski, <i>J. Mater. Chem. C</i>, 2020, 8, 2594. Journal of Materials Chemistry C, 2020, 8, 12330-12331.	5.5	0
205	Thermodynamics and self-organization of strongly coupled Coulomb clusters: An experimental study. Physics of Plasmas, 2021, 28, 073702.	1.9	0
206	Precursor Magnetosonic Solitons from Moving Charged Objects in the Ionosphere. , 2021, , .		0
207	Collisional drift wave instability in an ultracold neutral plasma. Physics of Plasmas, 2021, 28, 102101.	1.9	0
208	Nonlinear precursor waves from a moving charged object in a plasma. URSI Radio Science Bulletin, 2019, 2019, 32-41.	0.1	0