

Jovo Vranjes

List of Publications by Year in descending order

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151
papers

1,673
citations

331259

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33
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152
all docs

152
docs citations

152
times ranked

570
citing authors

#	ARTICLE	IF	CITATIONS
1	Collisions, magnetization, and transport coefficients in the lower solar atmosphere. <i>Astronomy and Astrophysics</i> , 2013, 554, A22.	2.1	79
2	On waves and instabilities in pair-ion plasma. <i>Plasma Sources Science and Technology</i> , 2005, 14, 485-491.	1.3	72
3	Electrostatic modes in multi-ion and pair-ion collisional plasmas. <i>Physics of Plasmas</i> , 2008, 15, 072104.	0.7	71
4	Nonlinear drift waves in electron-positron-ion plasmas. <i>Physical Review E</i> , 2003, 67, 057402.	0.8	66
5	Energy flux of Alfvén waves in weakly ionized plasma. <i>Astronomy and Astrophysics</i> , 2008, 478, 553-558.	2.1	64
6	Experimental observation of a tripolar vortex in a plasma. <i>Physics of Plasmas</i> , 2003, 10, 2211-2216.	0.7	58
7	On some properties of linear and nonlinear waves in pair-ion plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 350, 375-379.	0.9	54
8	Electromagnetic vortices in electron-positron-ion plasmas with shear flow. <i>Physics of Plasmas</i> , 2002, 9, 474-479.	0.7	40
9	Analytical Description of a Neutral-Induced Tripole Vortex in a Plasma. <i>Physical Review Letters</i> , 2002, 89, 265002.	2.9	34
10	Tripolar vortices and vortex chains in dusty plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 258, 317-322.	0.9	33
11	On the shear flow instability and its applications to multicomponent plasmas. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	33
12	The universally growing mode in the solar atmosphere: coronal heating by drift waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 918-930.	1.6	32
13	The Pulsational Mode in the Presence of Dust Charge Fluctuations. <i>Physica Scripta</i> , 2002, 65, 513-517.	1.2	30
14	Effects of dust charge fluctuations on current-driven dust-ion-acoustic waves. <i>Physical Review E</i> , 2001, 64, 066404.	0.8	28
15	Waves in the solar photosphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 386, 1635-1643.	1.6	28
16	Electrostatic Ion Cyclotron and Ion Plasma Waves in a Symmetric Pair-Ion Plasma Cylinder. <i>Physical Review Letters</i> , 2014, 112, 105001.	2.9	26
17	Analysis of low-frequency waves in inhomogeneous and bounded plasmas. <i>Physics of Plasmas</i> , 2004, 11, 891-897.	0.7	25
18	Tripolar vortex in plasma flow. <i>Planetary and Space Science</i> , 1999, 47, 1531-1535.	0.9	24

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19	Electrostatic interaction in dusty plasma. <i>Physical Review E</i> , 2002, 66, 037401.	0.8	24
20	Drift waves in the corona: heating and acceleration of ions at frequencies far below the gyrofrequency. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 408, 1835-1839.	1.6	23
21	Current-less solar wind driven dust acoustic instability in cometary plasma. <i>Physics of Plasmas</i> , 2011, 18, .	0.7	22
22	A new paradigm for solar coronal heating. <i>Europhysics Letters</i> , 2009, 86, 39001.	0.7	21
23	Gravitational instability problem of nonuniform media. <i>Astrophysics and Space Science</i> , 1994, 213, 139-142.	0.5	19
24	Ion acoustic waves in dusty plasma with charge fluctuations. <i>Physics of Plasmas</i> , 2002, 9, 1464-1467.	0.7	19
25	Unstable drift mode driven by shear plasma flow in solar spicules. <i>Astronomy and Astrophysics</i> , 2007, 471, 289-293.	2.1	18
26	Ion temperature gradient instability in a dusty plasma. <i>Physical Review E</i> , 2004, 69, 056404.	0.8	17
27	Growing drift-Alfvén modes in collisional solar plasma. <i>Astronomy and Astrophysics</i> , 2006, 458, 635-640.	2.1	17
28	Kinetic instability of ion acoustic mode in permeating plasmas. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	17
29	KINETIC INSTABILITY OF DRIFT-ALFVÉN WAVES IN SOLAR CORONA AND STOCHASTIC HEATING. <i>Astrophysical Journal</i> , 2010, 719, 1335-1342.	1.6	17
30	Nonlinear magnetic chains associated with plasma flow. <i>Physics of Plasmas</i> , 1996, 3, 2275-2279.	0.7	16
31	Physics of the dusty Hall plasmas. <i>Physics of Plasmas</i> , 2006, 13, 122106.	0.7	16
32	Instability of electrostatic modes in partially ionized plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 348, 346-354.	0.9	16
33	Electric fields in solar magnetic structures due to gradient-driven instabilities: heating and acceleration of particles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 2147-2152.	1.6	16
34	Gravitational instability of a homogeneous gas cloud with radiation. <i>Astrophysics and Space Science</i> , 1990, 164, 329-331.	0.5	15
35	Features of ion acoustic waves in collisional plasmas. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	15
36	Drift waves in plasmas with sheared flows. <i>Physics of Plasmas</i> , 1998, 5, 4300-4304.	0.7	14

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37	Properties of the acoustic mode in partially ionized and dusty plasmas. <i>Physics of Plasmas</i> , 2006, 13, 052103.	0.7	14
38	On quantum plasma: A plea for a common sense. <i>Europhysics Letters</i> , 2012, 99, 25001.	0.7	14
39	Gravitational instability of a quasi-homogeneous plasma cloud with radiation. <i>Astrophysics and Space Science</i> , 1990, 173, 293-298.	0.5	13
40	Electromagnetic vortices in streaming pair plasmas. <i>Physics of Plasmas</i> , 2000, 7, 4872-4877.	0.7	13
41	Electrostatic waves in bounded dusty magnetoplasma. <i>Physics of Plasmas</i> , 2004, 11, 2178-2181.	0.7	13
42	Growing drift-cyclotron modes in the hot solar atmosphere. <i>Astronomy and Astrophysics</i> , 2008, 482, 653-656.	2.1	13
43	Viscosity effects on waves in partially and fully ionized plasma in magnetic field. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 1614-1624.	1.6	13
44	Nonlinear vortex chain associated with tearing mode. <i>Physics of Plasmas</i> , 1994, 1, 3239-3245.	0.7	12
45	Magnetic islands in a magnetized plasma with electron flow. <i>Physical Review E</i> , 1998, 58, 931-935.	0.8	12
46	Jeans instability of an inhomogeneous streaming dusty plasma. <i>Pramana - Journal of Physics</i> , 2003, 61, 109-120.	0.9	12
47	Collisional energy transfer in two-component plasmas. <i>Physics of Plasmas</i> , 2008, 15, 092107.	0.7	12
48	Thermal condensation mode in a dusty plasma. <i>Pramana - Journal of Physics</i> , 2003, 60, 491-498.	0.9	11
49	Fluid modeling of the electron flow driven ion acoustic mode in a collisional plasma with magnetized electrons. <i>Physics of Plasmas</i> , 2006, 13, 122103.	0.7	11
50	Global convective cell formation in pair-ion plasmas. <i>Physics of Plasmas</i> , 2008, 15, 044501.	0.7	11
51	Growing electric field parallel to magnetic field due to transverse kinetic drift waves in inhomogeneous corona. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 1543-1548.	1.6	11
52	Vortex solitons in self-gravitating plasma. <i>Physica Scripta</i> , 1990, 42, 463-468.	1.2	10
53	Low-frequency potential structures in a nonuniform dusty magnetoplasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 278, 231-238.	0.9	10
54	Low-frequency waves in bounded streaming plasma. <i>Physics of Plasmas</i> , 2005, 12, 064501.	0.7	10

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55	Collisional instability of the drift wave in multi-component plasmas. Planetary and Space Science, 2006, 54, 695-700.	0.9	10
56	Tripolar vortices and vortex chains in a shallow atmosphere. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 267, 184-187.	0.9	9
57	Equilibrium Properties of a Gravitating Dusty Plasma. Physica Scripta, 2002, 66, 269-272.	1.2	9
58	Comment on "Heating of the Solar Corona by Dissipative Alfvén Solitons". Physical Review Letters, 2007, 98, 049501; discussion 049502.	2.9	9
59	New features of ion acoustic waves in inhomogeneous and permeating plasmas. Astronomy and Astrophysics, 2013, 554, A90.	2.1	9
60	Coherent Structures in Sheared Flow of Magnetized Plasma with Magnetic Shear. Physica Scripta, 1999, 59, 230-234.	1.2	8
61	Formation of quadrupolar vortices in ion-temperature-gradient modes. Physics of Plasmas, 2003, 10, 2819-2823.	0.7	8
62	Electrostatic perturbations in partially ionized plasma with the effects of ionization and recombination. Physics of Plasmas, 2004, 11, 4188-4195.	0.7	8
63	On Gravity Induced Electric Field in Space Plasmas. Physica Scripta, 2005, 71, 325-328.	1.2	8
64	On the properties of electrostatic drift and sound modes in radially and axially inhomogeneous bounded plasmas. Physics of Plasmas, 2007, 14, 112106.	0.7	8
65	Note on the role of friction-induced momentum conservation in the collisional drift wave instability. Physics of Plasmas, 2008, 15, 034504.	0.7	8
66	On the role of perpendicular electron collisions in drift and acoustic wave instabilities. Physics of Plasmas, 2009, 16, 022101.	0.7	8
67	Solar nanoflares and other smaller energy release events as growing drift waves. Physics of Plasmas, 2009, 16, .	0.7	8
68	Acceleration of soliton by nonlinear Landau damping of dust-helical waves. Physics of Plasmas, 2009, 16, 053702.	0.7	8
69	On the Alfvén wave cut-off in partly ionized collisional plasmas. Physics of Plasmas, 2014, 21, 012110.	0.7	8
70	Drift wave stabilized by an additional streaming ion or plasma population. Physical Review E, 2015, 91, 033113.	0.8	8
71	Parametric excitation of drift waves in a sheared slab geometry. Physics of Plasmas, 1994, 1, 809-814.	0.7	7
72	Nonlinear kink modes in the presence of charged dust grains. Physics of Plasmas, 2000, 7, 3970.	0.7	7

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73	Three-Wave Interaction in a Self-Gravitating Fluid. <i>Physical Review Letters</i> , 2002, 89, 131102.	2.9	7
74	Gas acoustic and ion acoustic waves in partially ionized plasmas with magnetized electrons. <i>Physics of Plasmas</i> , 2007, 14, 032106.	0.7	7
75	Electromagnetic ion acoustic perturbations in spatially varying plasma. <i>Physics of Plasmas</i> , 2007, 14, 034504.	0.7	7
76	The solitary wave propagation in a collisional dusty plasma. <i>Physics of Plasmas</i> , 2008, 15, 083701.	0.7	7
77	Kinetic instability of drift magnetosonic wave in anisotropic low beta plasmas. <i>Physics of Plasmas</i> , 2015, 22, 062117.	0.7	7
78	Transport and diffusion of particles due to transverse drift waves. <i>Astronomy and Astrophysics</i> , 2011, 532, A137.	2.1	7
79	On the magnetohydrodynamic Kelvin-Helmholtz instability driven by a nonuniform ion drift. <i>Physics of Plasmas</i> , 2002, 9, 4379-4382.	0.7	6
80	Interchange mode in the presence of dust. <i>Physical Review E</i> , 2003, 67, 026410.	0.8	6
81	Unstable ion sound in plasmas with drifting electrons. <i>European Physical Journal D</i> , 2006, 40, 257-262.	0.6	6
82	Kinetic instability of the dust acoustic mode in inhomogeneous, partially magnetized plasma with both positively and negatively charged grains. <i>Physical Review E</i> , 2010, 82, 026411.	0.8	6
83	The stability of weakly ionized collisional dusty plasma in the presence of flow. <i>Physics of Plasmas</i> , 2012, 19, 093701.	0.7	6
84	Tripolar vortex in a plasma. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 452-453.	0.6	5
85	Unstable kinetic Alfvén wave in partially ionized plasma. <i>Planetary and Space Science</i> , 2006, 54, 641-644.	0.9	5
86	Drift-Alfvén eigenmodes in inhomogeneous plasma. <i>Physics of Plasmas</i> , 2006, 13, 032107.	0.7	5
87	Ion thermal effects in oscillating multi-ion plasma sheath theory. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	5
88	Ion plasma wave and its instability in interpenetrating plasmas. <i>Physics of Plasmas</i> , 2014, 21, 042104.	0.7	5
89	Alfvén wave coupled with flow-driven fluid instability in interpenetrating plasmas. <i>Physics of Plasmas</i> , 2015, 22, 052102.	0.7	5
90	Vortices driven by a spatially nonuniform lower hybrid pump. <i>Physica Scripta</i> , 1992, 46, 72-75.	1.2	4

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91	Nonlinear lower hybrid vortices. <i>Physical Review E</i> , 1996, 53, 1051-1058.	0.8	4
92	Nonlinear magnetic electron tripolar vortices in streaming plasmas. <i>Physical Review E</i> , 2000, 61, 7009-7013.	0.8	4
93	Electron acoustic wave in a dusty plasma. <i>Planetary and Space Science</i> , 2002, 50, 807-810.	0.9	4
94	Waves in a nonuniform rotating dusty magnetoplasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 316, 91-94.	0.9	4
95	Effects of ionization on the collisional streaming instability. <i>Physics of Plasmas</i> , 2005, 12, 112103.	0.7	4
96	Diamagnetic current does not produce an instability in the solar corona. <i>Astronomy and Astrophysics</i> , 2009, 503, 591-593.	2.1	4
97	Analysis of the effect of neutral flow on the waves in the solar photosphere. <i>Astronomy and Astrophysics</i> , 2007, 461, 277-284.	2.1	4
98	Vortex chains in development of interchange instability in plasma with velocity shear. <i>Physica Scripta</i> , 1996, 53, 336-338.	1.2	3
99	Linear and nonlinear electrostatic modes in a nonuniform magnetized electron plasma. <i>Physics of Plasmas</i> , 2001, 8, 3165-3176.	0.7	3
100	Velocity shear driven electron skin size vortices. <i>Physics of Plasmas</i> , 2001, 8, 3913-3920.	0.7	3
101	Entropy of a Dusty Plasma Gas. <i>Physica Scripta</i> , 2005, 72, 247-250.	1.2	3
102	The effects of inelastic collisions on waves in partially ionized plasma. <i>Plasma Sources Science and Technology</i> , 2006, 15, S1-S7.	1.3	3
103	Acceleration of dust particles by vortex ring. <i>Journal of Plasma Physics</i> , 2011, 77, 155-162.	0.7	3
104	Reply to the Comment by P. K. Shukla and M. Akbari-Moghanjoughi. <i>Europhysics Letters</i> , 2012, 99, 65002.	0.7	3
105	Theory of waves in pair-ion plasmas: Natural explanation of backward modes. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	3
106	Ion acoustic mode in permeating plasmas. <i>Journal of Physics: Conference Series</i> , 2014, 511, 012010.	0.3	3
107	Neutral Density Profile Determines the Vorticity of Ion Flow in a Charge Exchange-dominated Plasma.. <i>Journal of Plasma and Fusion Research</i> , 2002, 78, 1143-1144.	0.4	3
108	Drift wave shear damping annulment due to parametric coupling and magnetic field variation. <i>Physica Scripta</i> , 1993, 48, 603-606.	1.2	2

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109	Electrostatic chains driven by nonuniform lower hybrid pump. <i>Physica Scripta</i> , 1997, 55, 93-95.	1.2	2
110	Nonlinear Drift Waves in a Dusty Plasma with Sheared Flows. <i>Physica Scripta</i> , 2002, 65, 103-107.	1.2	2
111	Waves propagating along a density gradient in a dusty plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 320, 423-427.	0.9	2
112	The image charge effects on plasma waves in the presence of neutral dust grains. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 323, 439-444.	0.9	2
113	Slow EIT waves as gravity modes. <i>Physics of Plasmas</i> , 2011, 18, 062902.	0.7	2
114	Charge exchange in fluid description of partially ionized plasmas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3901-3909.	1.6	2
115	Vortices in nonuniform upper-hybrid field. <i>Physica Scripta</i> , 1992, 46, 435-440.	1.2	1
116	Curvature effects on drift waves. <i>Physica Scripta</i> , 1995, 52, 708-709.	1.2	1
117	Nonlinear tearing mode and vortex chains. <i>Physica Scripta</i> , 1996, T63, 234-238.	1.2	1
118	Magnetic rope structures in the electromagnetic interchange mode. <i>Physics of Plasmas</i> , 2002, 9, 2954-2958.	0.7	1
119	A dipolar vortex in a magnetized pair plasma containing nonuniform flows. <i>Physics of Plasmas</i> , 2002, 9, 806-810.	0.7	1
120	Streaming ion instability in nonuniform magnetized plasmas and nonlinear structures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 328, 65-72.	0.9	1
121	Comment on "Alfvén Instability in a Compressible Flow"; author reply 019502. <i>Physical Review Letters</i> , 2009, 103, 019501;	2.9	1
122	Nonlinear three-wave interaction in pair plasmas. <i>Physical Review E</i> , 2010, 81, 067401.	0.8	1
123	Resistive magneto-hydrodynamical cut-off of Alfvén wave in fully ionized plasmas. <i>Physics of Plasmas</i> , 2014, 21, 014501.	0.7	1
124	A new low-frequency backward mode in inhomogeneous plasmas. <i>Physics of Plasmas</i> , 2014, 21, 072125.	0.7	1
125	Features of coronal heating by drift waves. <i>Journal of Physics: Conference Series</i> , 2014, 511, 012054.	0.3	1
126	Kinetic dust acoustic mode in inhomogeneous partially magnetized plasma. <i>Journal of Physics: Conference Series</i> , 2014, 511, 012011.	0.3	1

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127	Cyro-viscosity and linear dispersion relations in pair-ion magnetized plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	1
128	Vortices with a nonuniform group velocity. <i>Physica Scripta</i> , 1992, 46, 463-465.	1.2	0
129	Nonlinear drift chains associated with sheared flow of magnetized plasma with magnetic shear. <i>European Physical Journal D</i> , 1998, 48, 183-188.	0.4	0
130	Shear Flow Driven Compressional Magnetohydrodynamic Surface Waves in Plasmas. <i>Physica Scripta</i> , 2001, 63, 150-153.	1.2	0
131	Comment on "Effect of flow profile on low frequency drift-type waves in a dusty plasma" [Phys. Plasmas 8, 3150 (2001)]. <i>Physics of Plasmas</i> , 2002, 9, 1481-1482.	0.7	0
132	Nonlinear wave interaction in a self-gravitating fluid. , 0, , .		0
133	Description of an experimental tripolar vortex. , 0, , .		0
134	The effects of image charge on waves in dusty plasma. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
135	Waves in bounded dusty plasma. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
136	Response to "Comment on "Ion" acoustic waves in dusty plasma with charge fluctuations" [Phys. Plasmas 11, 849 (2004)]. <i>Physics of Plasmas</i> , 2004, 11, 852-852.	0.7	0
137	Comment on: "Theory of vortex flows in partially ionized magnetoplasmas" [Phys. Lett. A 326 (2004) 267]. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 329, 162-164.	0.9	0
138	Comment on "Effect of ionization on ion acoustic solitary waves in a collisional dusty plasma" (J.) Tj ETQq0 0 0 rgBT /Overlock 10	0.7	0
139	Stabilizing effects of positron dynamics on the local and global drift modes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 366, 466-470.	0.9	0
140	Electrostatic waves in inhomogeneous pair-ion plasma. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
141	Global Modes in Spatially Limited Plasmas. , 2008, , .		0
142	Propagation of solitary waves in collisional dusty plasmas. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
143	Charge fluctuation and Hall effect in collisional dusty plasma. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
144	A New Approach to the Coronal Heating Problem. , 2009, , .		0

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145	Effects of friction on modes in collisional multicomponent plasmas. Journal of Physics: Conference Series, 2009, 162, 012017.	0.3	0
146	The Problem of Coronal Heating. , 2010, , .		0
147	Dust acoustic instability driven by solar and stellar winds. AIP Conference Proceedings, 2011, , .	0.3	0
148	Dust acoustic mode in inhomogeneous plasma. AIP Conference Proceedings, 2011, , .	0.3	0
149	Some unexplored features of the nonlinear compressive magnetoacoustic Alfvénic waves. Physica Scripta, 2013, 88, 035504.	1.2	0
150	Energy in density gradient. Physics of Plasmas, 2015, 22, 012105.	0.7	0
151	Vortex chains and tripolar vortices in dusty plasma flow. , 2000, , 147-152.		0