

Yurii V Yakovenko

List of Publications by Year in descending order

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docs citations

60
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of possible improvement of the plasma performance in JET due to the inward spatial channelling of fast-ion energy. Nuclear Fusion, 2018, 58, 076012.	3.5	8
2	Mechanisms of the energy transfer across the magnetic field by Alfvén waves in toroidal plasmas. Physics of Plasmas, 2018, 25, 122508.	1.9	3
3	Observation of 20–400 kHz fluctuations in the U-3M torsatron. Physics of Plasmas, 2016, 23, 022506.	1.9	6
4	Manifestations of the geodesic acoustic mode driven by energetic ions in tokamaks. Plasma Physics and Controlled Fusion, 2016, 58, 045024.	2.1	7
5	Bucket transport of energetic ions in tokamaks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2062-2067.	2.1	0
6	Frequencies of the geodesic acoustic mode and Alfvén gap modes in high- $q^2 I^2$ plasmas with non-circular cross section. Physics of Plasmas, 2013, 20, .	1.9	10
7	Can the stochasticity of field lines be responsible for sawtooth crashes?. Plasma Physics and Controlled Fusion, 2013, 55, 115006.	2.1	4
8	Transformations of kinetic Alfvén waves in toroidal plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 065002.	2.1	1
9	Geodesic acoustic mode frequency and the structure of Alfvén continuum in toroidal plasmas with high $q^2 I^2$. Plasma Physics and Controlled Fusion, 2012, 54, 085014.	2.1	18
10	Investigation of a transient energetic charge exchange flux enhancement (‘spike-on-tail’) observed in neutral-beam-heated H-mode discharges in the National Spherical Torus Experiment. Nuclear Fusion, 2012, 52, 013014.	3.5	5
11	Velocity-space studies of fast-ion transport at a sawtooth crash in neutral-beam heated plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 025006.	2.1	39
12	Equations for drift-Alfvén and drift-sound eigenmodes in toroidal plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 105001.	2.1	10
13	Affinity and difference between energetic-ion-driven instabilities in 2D and 3D toroidal systems. Plasma Physics and Controlled Fusion, 2011, 53, 024007.	2.1	23
14	Numerical study of precession of circulating particles in tokamaks. Journal of Plasma Physics, 2011, 77, 559-569.	2.1	3
15	Theory of generation of kinetic Alfvén waves by Non-conventional Global Alfvén Eigenmodes. Nuclear Fusion, 2010, 50, 084018.	3.5	3
16	Mode coupling in Alfvén instabilities. Nuclear Fusion, 2010, 50, 084015.	3.5	3
17	Effects of energetic-ion-driven instabilities on plasma heating, transport and rotation in toroidal systems. Nuclear Fusion, 2010, 50, 084011.	3.5	11
18	Channeling of the Energy and Momentum during Energetic-Ion-Driven Instabilities in Fusion Plasmas. Physical Review Letters, 2010, 104, 075001.	7.8	34

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19	Drift-sound and drift-Alfvén eigenmodes in toroidal plasmas. <i>Europhysics Letters</i> , 2009, 85, 25004.	2.0	7
20	Poloidal trapping of the high-frequency Alfvén continuum and eigenmodes in stellarators. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, 535-558.	2.1	13
21	Conventional and nonconventional global Alfvén eigenmodes in stellarators. <i>Physics of Plasmas</i> , 2007, 14, 102504.	1.9	29
22	Magnetohydrodynamic activity and energetic ions in fusion plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, A159-A166.	2.1	3
23	Mitigation of stochastic diffusion losses in optimized stellarators. <i>Plasma Physics and Controlled Fusion</i> , 2007, 49, 703-711.	2.1	3
24	High-frequency shear Alfvén instability driven by circulating energetic ions in NSTX. <i>Physics of Plasmas</i> , 2006, 13, 122503.	1.9	10
25	Effects of fast-ion-orbit width on Alfvén instabilities in stellarators: a general theory and its application to a W7-AS experiment. <i>Nuclear Fusion</i> , 2006, 46, 753-769.	3.5	12
26	Novel Mechanism of Anomalous Electron Heat Conductivity and Thermal Crashes during Alfvénic Activity in the Wendelstein 7-AS Stellarator. <i>Physical Review Letters</i> , 2005, 94, 165004.	7.8	18
27	Kinetic mirror-induced Alfvén eigenmodes in Wendelstein-type stellarators. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, 89-104.	2.1	6
28	Energetic ion transport and concomitant change of the fusion reactivity during reconnection events in spherical tori. <i>Physics of Plasmas</i> , 2004, 11, 5302-5315.	1.9	4
29	Alfvén continuum and Alfvén eigenmodes in the National Compact Stellarator Experiment. <i>Physics of Plasmas</i> , 2004, 11, 5444-5451.	1.9	4
30	Interplay of energetic ions and Alfvén modes in helical plasmas. <i>Physics of Plasmas</i> , 2004, 11, 158-170.	1.9	27
31	Fast-Ion Confinement and Fast-Ion-Induced Effects in Stellarators. <i>Fusion Science and Technology</i> , 2004, 46, 54-63.	1.1	8
32	Experiments close to the beta-limit in W7-AS. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, A285-A308.	2.1	42
33	Precession of toroidally passing particles in tokamaks and spherical tori. <i>Physics of Plasmas</i> , 2003, 10, 1449-1457.	1.9	17
34	Concept of a Helias ignition experiment. <i>Nuclear Fusion</i> , 2003, 43, 889-898.	3.5	17
35	Alfvén instabilities driven by circulating ions in optimized stellarators and their possible consequences in a Helias reactor. <i>Physics of Plasmas</i> , 2002, 9, 517-528.	1.9	46
36	Alfvén eigenmodes and their destabilization by energetic circulating ions in Wendelstein-line stellarators. <i>Nuclear Fusion</i> , 2002, 42, 949-958.	3.5	8

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37	Ideal magnetohydrodynamic equations for low-frequency waves in toroidal plasmas. <i>Physics of Plasmas</i> , 2002, 9, 1589-1595.	1.9	21
38	Mechanisms of stochastic diffusion of energetic ions in spherical tori. <i>Physics of Plasmas</i> , 2002, 9, 2639-2654.	1.9	12
39	Classification of particle orbits in high- \hat{I}^2 spherical tokamaks. <i>Physics of Plasmas</i> , 2001, 8, 4501-4508.	1.9	7
40	Transport of energetic ions during relaxation oscillations in plasmas of spherical tori. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 287, 131-136.	2.1	6
41	The Helias reactor HSR4/18. <i>Nuclear Fusion</i> , 2001, 41, 1759-1766.	3.5	67
42	Alfvén continuum and high-frequency eigenmodes in optimized stellarators. <i>Physics of Plasmas</i> , 2001, 8, 491-509.	1.9	64
43	Effect of sawtooth oscillations on energetic ions. <i>Nuclear Fusion</i> , 2000, 40, 1325-1341.	3.5	40
44	Small-Action Particles in a Tokamak in the Presence of $n=1$ Mode. <i>Physical Review Letters</i> , 2000, 84, 2152-2155.	7.8	6
45	Distributions of alpha particles escaping to the wall during sawtooth oscillations in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1999, 6, 1117-1130.	1.9	7
46	Superbanana orbits and redistribution of marginally trapped fast ions during sawtooth crashes. <i>Physics of Plasmas</i> , 1998, 5, 729-734.	1.9	5
47	Theory of resonance influence of sawtooth crashes on ions with large orbit width. <i>Physics of Plasmas</i> , 1998, 5, 2963-2976.	1.9	23
48	Theory of fast ion transport induced by sawtooth oscillations: Overview and new results. <i>Physics of Plasmas</i> , 1997, 4, 2544-2554.	1.9	29
49	Theory of fast ion transport during sawtooth crashes in tokamaks. <i>Nuclear Fusion</i> , 1996, 36, 531-531.	3.5	0
50	Theory of fast ion transport during sawtooth crashes in tokamaks. <i>Nuclear Fusion</i> , 1996, 36, 159-172.	3.5	49
51	Kinetic description of redistribution of fast ions during sawtooth crashes in tokamaks. <i>Nuclear Fusion</i> , 1995, 35, 1579-1583.	3.5	6
52	Theoretical study of the influence of sawtooth oscillations on fast ion transport and neutron emission in NBI experiments on JET. <i>Nuclear Fusion</i> , 1994, 34, 217-229.	3.5	23
53	Effect of sawteeth on alpha power deposition and ignition in tokamaks. <i>Nuclear Fusion</i> , 1994, 34, 1619-1628.	3.5	6
54	Thermonuclear Burn in a Plasma with Sawtooth Oscillations. <i>Fusion Science and Technology</i> , 1994, 25, 302-317.	0.6	10

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55	Interpretation of Sawtooth-Induced Changes of Neutron Emission in Joint European Torus Neutral Beam Injection Experiments. Fusion Science and Technology, 1994, 26, 227-233.	0.6	2
56	Sawtooth oscillations and fast-ion ejection in tokamaks. Nuclear Fusion, 1992, 32, 449-464.	3.5	38
57	Alpha particle heating during sawteeth in ITER-like reactor. Physica Scripta, 1992, 45, 133-137.	2.5	8
58	Sawtooth oscillations with the central safety factor, q_0 , below unity. Physical Review Letters, 1992, 68, 3881-3884.	7.8	47
59	Alpha-Particle-Induced Toroidal Flows in Tokamak Reactor Plasma. Fusion Science and Technology, 1990, 18, 597-605.	0.6	3