

Yurii V Yakovenko

List of Publications by Year in descending order

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59
papers

941
citations

430874

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477307

29
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60
all docs

60
docs citations

60
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	The Helias reactor HSR4/18. Nuclear Fusion, 2001, 41, 1759-1766.	3.5	67
2	Alfvén continuum and high-frequency eigenmodes in optimized stellarators. Physics of Plasmas, 2001, 8, 491-509.	1.9	64
3	Theory of fast ion transport during sawtooth crashes in tokamaks. Nuclear Fusion, 1996, 36, 159-172.	3.5	49
4	Sawtooth oscillations with the central safety factor, q_0 , below unity. Physical Review Letters, 1992, 68, 3881-3884.	7.8	47
5	Alfvén instabilities driven by circulating ions in optimized stellarators and their possible consequences in a Helias reactor. Physics of Plasmas, 2002, 9, 517-528.	1.9	46
6	Experiments close to the beta-limit in W7-AS. Plasma Physics and Controlled Fusion, 2003, 45, A285-A308.	2.1	42
7	Effect of sawtooth oscillations on energetic ions. Nuclear Fusion, 2000, 40, 1325-1341.	3.5	40
8	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
9	Sawtooth oscillations and fast-ion ejection in tokamaks. Nuclear Fusion, 1992, 32, 449-464.	3.5	38
10	Channeling of the Energy and Momentum during Energetic-Ion-Driven Instabilities in Fusion Plasmas. Physical Review Letters, 2010, 104, 075001.	7.8	34
11	Theory of fast ion transport induced by sawtooth oscillations: Overview and new results. Physics of Plasmas, 1997, 4, 2544-2554.	1.9	29
12	Conventional and nonconventional global Alfvén eigenmodes in stellarators. Physics of Plasmas, 2007, 14, 102504.	1.9	29
13	Interplay of energetic ions and Alfvén modes in helical plasmas. Physics of Plasmas, 2004, 11, 158-170.	1.9	27
14	Theoretical study of the influence of sawtooth oscillations on fast ion transport and neutron emission in NBI experiments on JET. Nuclear Fusion, 1994, 34, 217-229.	3.5	23
15	Theory of resonance influence of sawtooth crashes on ions with large orbit width. Physics of Plasmas, 1998, 5, 2963-2976.	1.9	23
16	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
17	Ideal magnetohydrodynamic equations for low-frequency waves in toroidal plasmas. Physics of Plasmas, 2002, 9, 1589-1595.	1.9	21
18	Novel Mechanism of Anomalous Electron Heat Conductivity and Thermal Crashes during Alfvénic Activity in the Wendelstein 7-AS Stellarator. Physical Review Letters, 2005, 94, 165004.	7.8	18

#	ARTICLE	IF	CITATIONS
19	Geodesic acoustic mode frequency and the structure of Alfvén continuum in toroidal plasmas with high q^2 . Plasma Physics and Controlled Fusion, 2012, 54, 085014.	2.1	18
20	Precession of toroidally passing particles in tokamaks and spherical tori. Physics of Plasmas, 2003, 10, 1449-1457.	1.9	17
21	Concept of a Helias ignition experiment. Nuclear Fusion, 2003, 43, 889-898.	3.5	17
22	Poloidal trapping of the high-frequency Alfvén continuum and eigenmodes in stellarators. Plasma Physics and Controlled Fusion, 2007, 49, 535-558.	2.1	13
23	Mechanisms of stochastic diffusion of energetic ions in spherical tori. Physics of Plasmas, 2002, 9, 2639-2654.	1.9	12
24	Effects of fast-ion-orbit width on Alfvén instabilities in stellarators: a general theory and its application to a W7-AS experiment. Nuclear Fusion, 2006, 46, 753-769.	3.5	12
25	Effects of energetic-ion-driven instabilities on plasma heating, transport and rotation in toroidal systems. Nuclear Fusion, 2010, 50, 084011.	3.5	11
26	Thermonuclear Burn in a Plasma with Sawtooth Oscillations. Fusion Science and Technology, 1994, 25, 302-317.	0.6	10
27	High-frequency shear Alfvén instability driven by circulating energetic ions in NSTX. Physics of Plasmas, 2006, 13, 122503.	1.9	10
28	Equations for drift-Alfvén and drift-sound eigenmodes in toroidal plasmas. Plasma Physics and Controlled Fusion, 2012, 54, 105001.	2.1	10
29	Frequencies of the geodesic acoustic mode and Alfvén gap modes in high- q^2 plasmas with non-circular cross section. Physics of Plasmas, 2013, 20, .	1.9	10
30	Alpha particle heating during sawteeth in ITER-like reactor. Physica Scripta, 1992, 45, 133-137.	2.5	8
31	Alfvén eigenmodes and their destabilization by energetic circulating ions in Wendelstein-line stellarators*. Nuclear Fusion, 2002, 42, 949-958.	3.5	8
32	Fast-Ion Confinement and Fast-Ion-Induced Effects in Stellarators. Fusion Science and Technology, 2004, 46, 54-63.	1.1	8
33	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
34	Distributions of alpha particles escaping to the wall during sawtooth oscillations in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1999, 6, 1117-1130.	1.9	7
35	Classification of particle orbits in high- q^2 spherical tokamaks. Physics of Plasmas, 2001, 8, 4501-4508.	1.9	7
36	Drift-sound and drift-Alfvén eigenmodes in toroidal plasmas. Europhysics Letters, 2009, 85, 25004.	2.0	7

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37	Manifestations of the geodesic acoustic mode driven by energetic ions in tokamaks. Plasma Physics and Controlled Fusion, 2016, 58, 045024.	2.1	7
38	Effect of sawteeth on alpha power deposition and ignition in tokamaks. Nuclear Fusion, 1994, 34, 1619-1628.	3.5	6
39	Kinetic description of redistribution of fast ions during sawtooth crashes in tokamaks. Nuclear Fusion, 1995, 35, 1579-1583.	3.5	6
40	Small-Action Particles in a Tokamak in the Presence of $n=1$ Mode. Physical Review Letters, 2000, 84, 2152-2155.	7.8	6
41	Transport of energetic ions during relaxation oscillations in plasmas of spherical tori. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 287, 131-136.	2.1	6
42	Kinetic mirror-induced Alfvén eigenmodes in Wendelstein-type stellarators. Plasma Physics and Controlled Fusion, 2004, 46, 89-104.	2.1	6
43	Observation of 20–400 kHz fluctuations in the U-3M torsatron. Physics of Plasmas, 2016, 23, 022506.	1.9	6
44	Superbanana orbits and redistribution of marginally trapped fast ions during sawtooth crashes. Physics of Plasmas, 1998, 5, 729-734.	1.9	5
45	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
46	Energetic ion transport and concomitant change of the fusion reactivity during reconnection events in spherical tori. Physics of Plasmas, 2004, 11, 5302-5315.	1.9	4
47	Alfvén continuum and Alfvén eigenmodes in the National Compact Stellarator Experiment. Physics of Plasmas, 2004, 11, 5444-5451.	1.9	4
48	Can the stochasticity of field lines be responsible for sawtooth crashes?. Plasma Physics and Controlled Fusion, 2013, 55, 115006.	2.1	4
49	Alpha-Particle-Induced Toroidal Flows in Tokamak Reactor Plasma. Fusion Science and Technology, 1990, 18, 597-605.	0.6	3
50	Magnetohydrodynamic activity and energetic ions in fusion plasmas. Plasma Physics and Controlled Fusion, 2007, 49, A159-A166.	2.1	3
51	Mitigation of stochastic diffusion losses in optimized stellarators. Plasma Physics and Controlled Fusion, 2007, 49, 703-711.	2.1	3
52	Theory of generation of kinetic Alfvén waves by Non-conventional Global Alfvén Eigenmodes. Nuclear Fusion, 2010, 50, 084018.	3.5	3
53	Mode coupling in Alfvén instabilities. Nuclear Fusion, 2010, 50, 084015.	3.5	3
54	Numerical study of precession of circulating particles in tokamaks. Journal of Plasma Physics, 2011, 77, 559-569.	2.1	3

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55	Mechanisms of the energy transfer across the magnetic field by Alfvén waves in toroidal plasmas. <i>Physics of Plasmas</i> , 2018, 25, 122508.	1.9	3
56	Interpretation of Sawtooth-Induced Changes of Neutron Emission in Joint European Torus Neutral Beam Injection Experiments. <i>Fusion Science and Technology</i> , 1994, 26, 227-233.	0.6	2
57	Transformations of kinetic Alfvén waves in toroidal plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 065002.	2.1	1
58	Theory of fast ion transport during sawtooth crashes in tokamaks. <i>Nuclear Fusion</i> , 1996, 36, 531-531.	3.5	0
59	Bucket transport of energetic ions in tokamaks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2062-2067.	2.1	0