

Zensho Yoshida

List of Publications by Year in descending order

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87
papers

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567281

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454955

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90
all docs

90
docs citations

90
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	Inward diffusion driven by low frequency fluctuations in self-organizing magnetospheric plasma. Nuclear Fusion, 2022, 62, 026041.	3.5	7
2	The kinetic origin of the fluid helicity's A symmetry in the kinetic phase space. Journal of Mathematical Physics, 2022, 63, 023101.	1.1	2
3	Clebsch representation of relativistic plasma and generalized enstrophy. Physics of Plasmas, 2022, 29, 052905.	1.9	0
4	Lower bounds on zonal enstrophy. Journal of Fluid Mechanics, 2021, 919, .	3.4	0
5	Calibration of coherence imaging spectroscopy using spectral line sources. Review of Scientific Instruments, 2021, 92, 073501.	1.3	0
6	Kinetic construction of the high-beta anisotropic-pressure equilibrium in the magnetosphere. Physics of Plasmas, 2021, 28, 122301.	1.9	1
7	Deformation of Lie's Poisson algebras and chirality. Journal of Mathematical Physics, 2020, 61, 082901.	1.1	6
8	Degenerate Laplacian describing topologically constrained diffusion: helicity constraint as an alternative to ellipticity. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 355202.	2.1	2
9	Experimental analysis of self-organized structure and transport on the magnetospheric plasma device RT-1. Nuclear Fusion, 2019, 59, 096005.	3.5	12
10	Tomographic Reconstruction of Imaging Diagnostics with a Generative Adversarial Network. Plasma and Fusion Research, 2019, 14, 1202117-1202117.	0.7	4
11	Diffusion with finite-helicity field tensor: A mechanism of generating heterogeneity. Physical Review E, 2018, 97, 022145.	2.1	12
12	Coherence-imaging spectroscopy for 2D distribution of ion temperature and flow velocity in a laboratory magnetosphere. Review of Scientific Instruments, 2018, 89, 10D133.	1.3	5
13	Ion cyclotron resonance heating system in the RT-1 magnetospheric plasma. Nuclear Fusion, 2017, 57, 086038.	3.5	9
14	Rattleback: A model of how geometric singularity induces dynamic chirality. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2772-2777.	2.1	13
15	Epi-Two-Dimensional Fluid Flow: A New Topological Paradigm for Dimensionality. Physical Review Letters, 2017, 119, 244501.	7.8	12
16	Hierarchical structure of noncanonical Hamiltonian systems. Physica Scripta, 2016, 91, 024001.	2.5	7
17	Self-organization by topological constraints: hierarchy of foliated phase space. Advances in Physics: X, 2016, 1, 2-19.	4.1	10
18	Quantum spirals. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 055501.	2.1	8

#	ARTICLE	IF	CITATIONS
19	Observation of particle acceleration in laboratory magnetosphere. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	17
20	Gauge symmetries and Noether charges in Clebsch-parameterized magnetohydrodynamics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 495501.	2.1	9
21	Measurement of a density profile of a hot-electron plasma in RT-1 with three-chord interferometry. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	10
22	Improved beta (local beta ≥ 1) and density in electron cyclotron resonance heating on the RT-1 magnetosphere plasma. <i>Nuclear Fusion</i> , 2015, 55, 053019.	3.5	28
23	Self-organization in foliated phase space: Construction of a scale hierarchy by adiabatic invariants of magnetized particles. <i>Progress of Theoretical and Experimental Physics</i> , 2014, 2014, .	6.6	23
24	Observation of a new high- β^2 and high-density state of a magnetospheric plasma in RT-1. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	12
25	Relativistic helicity and link in Minkowski space-time. <i>Journal of Mathematical Physics</i> , 2014, 55, .	1.1	18
26	A hierarchy of noncanonical Hamiltonian systems: circulation laws in an extended phase space. <i>Fluid Dynamics Research</i> , 2014, 46, 031412.	1.3	13
27	Stable confinement of electron plasma and initial results on positron injection in RT-1. <i>AIP Conference Proceedings</i> , 2013, .	0.4	3
28	Self-organized confinement by magnetic dipole: recent results from RT-1 and theoretical modeling. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 014018.	2.1	38
29	Thermo-magneto coupling in a dipole plasma. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	3
30	Duality of the Lagrangian and Eulerian representations of collective motion—a connection built around vorticity. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 014003.	2.1	7
31	Formation of high- β^2 plasma and stable confinement of toroidal electron plasma in Ring Trap 1. <i>Physics of Plasmas</i> , 2011, 18, 056102.	1.9	7
32	Magnetospheric Vortex Formation: Self-Organized Confinement of Charged Particles. <i>Physical Review Letters</i> , 2010, 104, 235004.	7.8	60
33	Confinement of electron plasma by levitating dipole magnet. <i>Physics of Plasmas</i> , 2010, 17, 112111.	1.9	20
34	Twisting Space-Time: Relativistic Origin of Seed Magnetic Field and Vorticity. <i>Physical Review Letters</i> , 2010, 105, 095005.	7.8	28
35	Clebsch parameterization: Basic properties and remarks on its applications. <i>Journal of Mathematical Physics</i> , 2009, 50, .	1.1	42
36	Improvement of Field Accuracy and Plasma Performance in the RT-1 Device. <i>Plasma and Fusion Research</i> , 2009, 4, 039-039.	0.7	6

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37	Measurement of the Density Profile of a Toroidal Non-neutral Plasma with a Wall-Probe Array. Plasma and Fusion Research, 2009, 4, 054-054.	0.7	6
38	Modification of Probe Characteristics in a Supersonic Plasma Flow. Plasma and Fusion Research, 2008, 3, 019-019.	0.7	2
39	Long-Lived Pure Electron Plasma in Ring Trap-1. Plasma and Fusion Research, 2007, 2, 045-045.	0.7	4
40	First Plasma in the RT-1 Device. Plasma and Fusion Research, 2006, 1, 008-008.	0.7	48
41	A theory for the pressure pedestal in high (H) mode tokamak discharges. Physics of Plasmas, 2005, 12, 032502.	1.9	20
42	Filament size of floating-emissive probe for low density plasmas with large space potential. Review of Scientific Instruments, 2003, 74, 4658-4662.	1.3	13
43	Parameter Dependence of Inward Diffusion on Injected Electrons in Helical Non-Neutral Plasmas. AIP Conference Proceedings, 2003, , .	0.4	0
44	Variational Principles and Self-Organization in Two-Fluid Plasmas. Physical Review Letters, 2002, 88, 095001.	7.8	132
45	Probing of flowing electron plasmas. Physics of Plasmas, 2001, 8, 4651-4658.	1.9	15
46	Confinement of nonneutral plasmas in the Prototype Ring Trap device. , 1999, , .		2
47	Self-organization, anomalous resistance and anomalous heating in magnetized plasmas. Journal of Plasma Physics, 1998, 59, 103-123.	2.1	10
48	Statistical mechanics of magnetohydrodynamics. Physical Review E, 1996, 53, 5200-5206.	2.1	23
49	PERTURBATION THEORY FOR THE ALFVÉN WAVE. International Journal of Modern Physics B, 1995, 09, 2857-2898.	2.0	6
50	A remark on the Hamiltonian form of the magnetic field line equations. Physics of Plasmas, 1994, 1, 208-209.	1.9	8
51	A bound for the pressure integral in a plasma equilibrium. Journal of Statistical Physics, 1993, 72, 1375-1389.	1.2	0
52	Parameter Optimization of the Inductively Operated Day-Long Tokamak Reactor. Fusion Science and Technology, 1993, 24, 188-199.	0.6	1
53	A reduced model of chaotic magnetic fluctuations in a tokamak plasma. Journal of Plasma Physics, 1993, 49, 403.	2.1	4
54	Anomalous impedance and anomalous ion heating due to gyrorelaxation through magnetohydrodynamic fluctuations. Physics of Fluids B, 1992, 4, 1534-1538.	1.7	2

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55	Bootstrap Currents and its Scaling in the Non-Circular Tokamaks.. KakuyÅ«gÅ•KenkyÅ«, 1992, 68, 404-408.	0.1	1
56	Thermal Power Regulation System for Pulsed Fusion Reactor.. KakuyÅ«gÅ•KenkyÅ«, 1992, 68, 155-158.	0.1	1
57	Helicity waves propagating in a plasma. Journal of Plasma Physics, 1991, 45, 481-488.	2.1	12
58	High-Current Runaway Electron Beam in a Tokamak Plasma. Journal of the Physical Society of Japan, 1991, 60, 1237-1246.	1.6	5
59	Discrete Eigenstates of Plasmas Described by the Chandrasekhar-Kendall Functions. Progress of Theoretical Physics, 1991, 86, 45-55.	2.0	1
60	A Model of Energy Balance in a Plasma Dominated by the MHD Relaxation Process.. KakuyÅ«gÅ•KenkyÅ«, 1991, 66, 135-143.	0.1	0
61	Remarks on spectra of operator rot. Mathematische Zeitschrift, 1990, 204, 235-245.	0.9	191
62	Roles of Magnetic Helicity in Plasma Confinement. Journal of Nuclear Science and Technology, 1990, 27, 193-204.	1.3	0
63	Anomalous ion heating correlated with MHD relaxation.. KakuyÅ«gÅ•KenkyÅ«, 1990, 64, 58-70.	0.1	0
64	Structures in plasmas and their self-organizations.. KakuyÅ«gÅ•KenkyÅ«, 1989, 62, 319-347.	0.1	0
65	Toroidal Equilibrium of Plasma with Concentrated Relativistic Electron Beam. Journal of the Physical Society of Japan, 1989, 58, 856-859.	1.6	1
66	A self-consistent equilibrium model of plasma-beam systems. Physics of Fluids B, 1989, 1, 1702-1708.	1.7	8
67	Asymmetric Perturbations of Toroidal Flux in Ramped-Up Discharges on Repute-1 Reversed Field Pinch. Journal of the Physical Society of Japan, 1989, 58, 24-27.	1.6	3
68	Symmetry breaking in plasma equilibria - Appearance of an intrinsic structure.. KakuyÅ«gÅ•KenkyÅ«, 1989, 61, 328-337.	0.1	0
69	Application of fuzzy theory to plasma data analysis.. KakuyÅ«gÅ•KenkyÅ«, 1989, 62, 151-158.	0.1	0
70	Ultra low-q discharge and high temperature experiments in REPUTE-1.. KakuyÅ«gÅ•KenkyÅ«, 1988, 59, 494-512.	0.1	1
71	ULQ experiments in TORIUT-6; Results of ramp-up discharge and effects of carbonization on the plasma behavior.. KakuyÅ«gÅ•KenkyÅ«, 1988, 59, 20-29.	0.1	1
72	Remarks on the measurement of the loop voltage and its relation to the resistance anomaly in toroidal current systems.. KakuyÅ«gÅ•KenkyÅ«, 1988, 60, 54-59.	0.1	0

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73	Development of a beam probing system for measurement of density, temperature, and magnetic field of RFP plasma. Review of Scientific Instruments, 1987, 58, 530-535.	1.3	2
74	Beam-driven ultra-low-q torus for intense 14MeV neutron source.. KakuyÅ«gÅ•KenkyÅ«, 1987, 57, 241-260.	0.1	2
75	Discussions on the Grad-Shafranov equation.. KakuyÅ«gÅ•KenkyÅ«, 1987, 57, 325-331.	0.1	0
76	Comments on variational analyses for MHD.. KakuyÅ«gÅ•KenkyÅ«, 1987, 58, 40-49.	0.1	0
77	Saturated Island Width in Tokamak with External Helical Perturbation. Journal of the Physical Society of Japan, 1987, 56, 2241-2244.	1.6	0
78	Remarks on Relaxation Phenomena in Toroidal Discharge. Journal of the Physical Society of Japan, 1986, 55, 450-453.	1.6	21
79	Intrinsic Dissipative Structure and Magnetohydrodynamic Equilibria. Journal of the Physical Society of Japan, 1986, 55, 1925-1930.	1.6	0
80	3D code for calculation of ironâ€core field in fusion devices. Journal of Applied Physics, 1986, 59, 2277-2282.	2.5	4
81	Summary of very low-q discharges in TORIUT tokamaks.. KakuyÅ«gÅ•KenkyÅ«, 1986, 56, 341-354.	0.1	0
82	Quasi-ultimate and quasistatic states in MHD systems.. KakuyÅ«gÅ•KenkyÅ«, 1986, 56, 115-123.	0.1	0
83	Ignition Conditions of Ohmically Heated DT TOKAMAK Reactors Operated in the Ultra-Low-q, Regime. KakuyÅ«gÅ•KenkyÅ«, 1985, 54, 567-586.	0.1	0
84	Remarks on equilibria in dynamical systems and ergodic theory -Self-organization of MHD equilibria-. KakuyÅ«gÅ•KenkyÅ«, 1985, 53, 298-305.	0.1	0
85	Weak solutions of a quasistatic model of plasmas. Journal of Mathematical Physics, 1984, 25, 1771-1775.	1.1	6
86	A mathematical aspect of magnetohydrodynamics. On the convective nonlinearity in a dissipative dynamical system.. KakuyÅ«gÅ•KenkyÅ«, 1984, 51, 127-139.	0.1	0
87	Nambu mechanics viewed as a Clebsch parameterized Poisson algebra â€” toward canonicalization and quantization. Progress of Theoretical and Experimental Physics, 0, , .	6.6	0