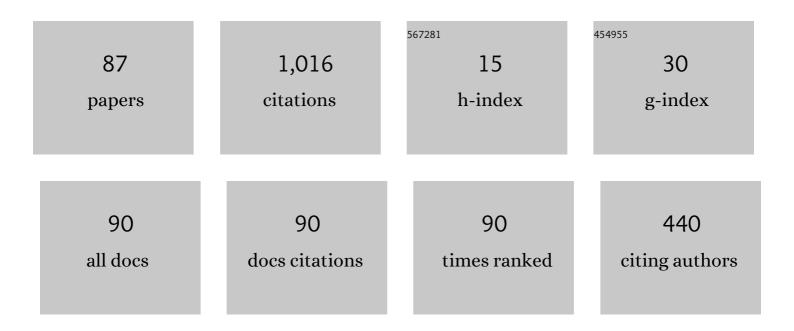
Zensho Yoshida

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Remarks on spectra of operator rot. Mathematische Zeitschrift, 1990, 204, 235-245.	0.9	191
2	Variational Principles and Self-Organization in Two-Fluid Plasmas. Physical Review Letters, 2002, 88, 095001.	7.8	132
3	Magnetospheric Vortex Formation: Self-Organized Confinement of Charged Particles. Physical Review Letters, 2010, 104, 235004.	7.8	60
4	First Plasma in the RT-1 Device. Plasma and Fusion Research, 2006, 1, 008-008.	0.7	48
5	Clebsch parameterization: Basic properties and remarks on its applications. Journal of Mathematical Physics, 2009, 50, .	1.1	42
6	Self-organized confinement by magnetic dipole: recent results from RT-1 and theoretical modeling. Plasma Physics and Controlled Fusion, 2013, 55, 014018.	2.1	38
7	Twisting Space-Time: Relativistic Origin of Seed Magnetic Field and Vorticity. Physical Review Letters, 2010, 105, 095005.	7.8	28
8	Improved beta (local beta >1) and density in electron cyclotron resonance heating on the RT-1 magnetosphere plasma. Nuclear Fusion, 2015, 55, 053019.	3.5	28
9	Statistical mechanics of magnetohydrodynamics. Physical Review E, 1996, 53, 5200-5206.	2.1	23
10	Self-organization in foliated phase space: Construction of a scale hierarchy by adiabatic invariants of magnetized particles. Progress of Theoretical and Experimental Physics, 2014, 2014, .	6.6	23
11	Remarkes on Relaxation Phenomena in Toroidal Discharge. Journal of the Physical Society of Japan, 1986, 55, 450-453.	1.6	21
12	A theory for the pressure pedestal in high (H) mode tokamak discharges. Physics of Plasmas, 2005, 12, 032502.	1.9	20
13	Confinement of electron plasma by levitating dipole magnet. Physics of Plasmas, 2010, 17, 112111.	1.9	20
14	Relativistic helicity and link in Minkowski space-time. Journal of Mathematical Physics, 2014, 55, .	1.1	18
15	Observation of particle acceleration in laboratory magnetosphere. Physics of Plasmas, 2015, 22, .	1.9	17
16	Probing of flowing electron plasmas. Physics of Plasmas, 2001, 8, 4651-4658.	1.9	15
17	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
18	A hierarchy of noncanonical Hamiltonian systems: circulation laws in an extended phase space. Fluid Dynamics Research, 2014, 46, 031412.	1.3	13

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19	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
20	Helicity waves propagating in a plasma. Journal of Plasma Physics, 1991, 45, 481-488.	2.1	12
21	Observation of a new high- <i>l²</i> and high-density state of a magnetospheric plasma in RT-1. Physics of Plasmas, 2014, 21, .	1.9	12
22	Epi-Two-Dimensional Fluid Flow: A New Topological Paradigm for Dimensionality. Physical Review Letters, 2017, 119, 244501.	7.8	12
23	Diffusion with finite-helicity field tensor: A mechanism of generating heterogeneity. Physical Review E, 2018, 97, 022145.	2.1	12
24	Experimental analysis of self-organized structure and transport on the magnetospheric plasma device RT-1. Nuclear Fusion, 2019, 59, 096005.	3.5	12
25	Self-organization, anomalous resistance and anomalous heating in magnetized plasmas. Journal of Plasma Physics, 1998, 59, 103-123.	2.1	10
26	Measurement of a density profile of a hot-electron plasma in RT-1 with three-chord interferometry. Physics of Plasmas, 2015, 22, .	1.9	10
27	Self-organization by topological constraints: hierarchy of foliated phase space. Advances in Physics: X, 2016, 1, 2-19.	4.1	10
28	Gauge symmetries and Noether charges in Clebsch-parameterized magnetohydrodynamics. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 495501.	2.1	9
29	Ion cyclotron resonance heating system in the RT-1 magnetospheric plasma. Nuclear Fusion, 2017, 57, 086038.	3.5	9
30	A self onsistent equilibrium model of plasma–beam systems. Physics of Fluids B, 1989, 1, 1702-1708.	1.7	8
31	A remark on the Hamiltonian form of the magneticâ€fieldâ€line equations. Physics of Plasmas, 1994, 1, 208-209.	1.9	8
32	Quantum spirals. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 055501.	2.1	8
33	Formation of high-β plasma and stable confinement of toroidal electron plasma in Ring Trap 1. Physics of Plasmas, 2011, 18, 056102.	1.9	7
34	Duality of the Lagrangian and Eulerian representations of collective motion—a connection built around vorticity. Plasma Physics and Controlled Fusion, 2012, 54, 014003.	2.1	7
35	Hierarchical structure of noncanonical Hamiltonian systems. Physica Scripta, 2016, 91, 024001.	2.5	7
36	Inward diffusion driven by low frequency fluctuations in self-organizing magnetospheric plasma. Nuclear Fusion, 2022, 62, 026041.	3.5	7

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37	Weak solutions of a quasistatic model of plasmas. Journal of Mathematical Physics, 1984, 25, 1771-1775.	1.1	6
38	PERTURBATION THEORY FOR THE ALFVÉN WAVE. International Journal of Modern Physics B, 1995, 09, 2857-2898.	2.0	6
39	Deformation of Lie–Poisson algebras and chirality. Journal of Mathematical Physics, 2020, 61, 082901.	1.1	6
40	Improvement of Field Accuracy and Plasma Performance in the RT-1 Device. Plasma and Fusion Research, 2009, 4, 039-039.	0.7	6
41	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
42	High-Current Runaway Electron Beam in a Tokamak Plasma. Journal of the Physical Society of Japan, 1991, 60, 1237-1246.	1.6	5
43	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
44	3D code for calculation of iron ore field in fusion devices. Journal of Applied Physics, 1986, 59, 2277-2282.	2.5	4
45	A reduced model of chaotic magnetic fluctuations in a tokamak plasma. Journal of Plasma Physics, 1993, 49, 403.	2.1	4
46	Tomographic Reconstruction of Imaging Diagnostics with a Generative Adversarial Network. Plasma and Fusion Research, 2019, 14, 1202117-1202117.	0.7	4
47	Long-Lived Pure Electron Plasma in Ring Trap-1. Plasma and Fusion Research, 2007, 2, 045-045.	0.7	4
48	Thermo-magneto coupling in a dipole plasma. Physics of Plasmas, 2012, 19, .	1.9	3
49	Stable confinement of electron plasma and initial results on positron injection in RT-1. AIP Conference Proceedings, 2013, , .	0.4	3
50	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
51	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
52	Anomalous impedance and anomalous ion heating due to gyrorelaxation through magnetohydrodynamic fluctuations. Physics of Fluids B, 1992, 4, 1534-1538.	1.7	2
53	Confinement of nonneutral plasmas in the Prototype Ring Trap device. , 1999, , .		2
54	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

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55	Beam-driven ultra-low-q torus for intense 14MeV neutron source KakuyūgŕKenkyū, 1987, 57, 241-260.	0.1	2
56	Modification of Probe Characteristics in a Supersonic Plasma Flow. Plasma and Fusion Research, 2008, 3, 019-019.	0.7	2
57	The kinetic origin of the fluid helicity—A symmetry in the kinetic phase space. Journal of Mathematical Physics, 2022, 63, 023101.	1.1	2
58	Toroidal Equilibrium of Plasma with Concentrated Relativistic Electron Beam. Journal of the Physical Society of Japan, 1989, 58, 856-859.	1.6	1
59	Parameter Optimization of the Inductively Operated Day-Long Tokamak Reactor. Fusion Science and Technology, 1993, 24, 188-199.	0.6	1
60	Discrete Eigenstates of Plasmas Described by the Chandrasekhar-Kendall Functions. Progress of Theoretical Physics, 1991, 86, 45-55.	2.0	1
61	Bootstrap Currents and its Scaling in the Non-Circular Tokamaks KakuyūgŕKenkyū, 1992, 68, 404-408.	0.1	1
62	Ultra low-q discharge and high temperature experiments in REPUTE-1 KakuyūgŕKenkyū, 1988, 59, 494-512.	0.1	1
63	ULQ experiments in TORIUT-6; Results of ramp-up discharge and effects of carbonization on the plasma behavior KakuyūgŕKenkyū, 1988, 59, 20-29.	0.1	1
64	Thermal Power Regulation System for Pulsed Fusion Reactor KakuyūgŕKenkyū, 1992, 68, 155-158.	0.1	1
65	Kinetic construction of the high-beta anisotropic-pressure equilibrium in the magnetosphere. Physics of Plasmas, 2021, 28, 122301.	1.9	1
66	Intrinsic Dissipative Structure and Magnetohydrodynamic Equilibria. Journal of the Physical Society of Japan, 1986, 55, 1925-1930.	1.6	0
67	Structures in plasmas and their self-organizations KakuyūgŕKenkyū, 1989, 62, 319-347.	0.1	0
68	Roles of Magnetic Helicity in Plasma Confinement. Journal of Nuclear Science and Technology, 1990, 27, 193-204.	1.3	0
69	A bound for the pressure integral in a plasma equilibrium. Journal of Statistical Physics, 1993, 72, 1375-1389.	1.2	0
70	Parameter Dependence of Inward Diffusion on Injected Electrons in Helical Non-Neutral Plasmas. AIP Conference Proceedings, 2003, , .	0.4	0
71	Lower bounds on zonal enstrophy. Journal of Fluid Mechanics, 2021, 919, .	3.4	0
72	Calibration of coherence imaging spectroscopy using spectral line sources. Review of Scientific Instruments, 2021, 92, 073501.	1.3	0

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73	A mathematical aspect of magnetohydrodynamics. On the convective nonlinearity in a dissipative dynamical system KakuyūgŕKenkyū, 1984, 51, 127-139.	0.1	0
74	lgnition Conditions of Ohmically Heated DT TOKAMAK Reactors Operated in the Ultra-Low-q, Regime. KakuyūgŕKenkyū, 1985, 54, 567-586.	0.1	0
75	Remarks on equilibria in dynamical systems and ergodic theory -Self-organization of MHD equilibria KakuyūgŕKenkyū, 1985, 53, 298-305.	0.1	0
76	Summary of very low-q discharges in TORIUT tokamaks KakuyūgŕKenkyū, 1986, 56, 341-354.	0.1	0
77	Quasi-ultimate and quasistatic states in MHD systems KakuyūgŕKenkyū, 1986, 56, 115-123.	0.1	0
78	Discussions on the Grad-Shafranov equation KakuyūgŕKenkyū, 1987, 57, 325-331.	0.1	0
79	Comments on variational analyses for MHD KakuyūgŕKenkyū, 1987, 58, 40-49.	0.1	0
80	Remarks on the measurement of the loop voltage and its relation to the resistance anomaly in toroidal current systems KakuyūgŕKenkyū, 1988, 60, 54-59.	0.1	0
81	Symmetry breaking in plasma equilibria - Appearance of an intrinsic structure KakuyūgŕKenkyū, 1989, 61, 328-337.	0.1	0
82	Application of fuzzy theory to plasma data analysis KakuyūgŕKenkyū, 1989, 62, 151-158.	0.1	0
83	Anomalous ion heating correlated with MHD relaxation KakuyūgŕKenkyū, 1990, 64, 58-70.	0.1	0
84	A Model of Energy Balance in a Plasma Dominated by the MHD Relaxation Process KakuyūgŕKenkyū, 1991, 66, 135-143.	0.1	0
85	Saturated Island Width in Tokamak with External Helical Perturbation. Journal of the Physical Society of Japan, 1987, 56, 2241-2244.	1.6	0
86	Clebsch representation of relativistic plasma and generalized enstrophy. Physics of Plasmas, 2022, 29, 052905.	1.9	0
87	Nambu mechanics viewed as a Clebsch parameterized Poisson algebra — toward canonicalization and quantization. Progress of Theoretical and Experimental Physics, 0, , .	6.6	0