

Makoto Sasaki

List of Publications by Year in descending order

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papers

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134
all docs

134
docs citations

134
times ranked

634
citing authors

#	ARTICLE	IF	CITATIONS
1	A Concept of Cross-Ferroc Plasma Turbulence. Scientific Reports, 2016, 6, 22189.	3.3	72
2	Energy channeling from energetic particles to bulk ions via beam-driven geodesic acoustic modes in GAM channeling. Plasma Physics and Controlled Fusion, 2011, 53, 085017.	2.1	44
3	Geodesic acoustic mode spectroscopy. Plasma Physics and Controlled Fusion, 2007, 49, L7-L10.	2.1	37
4	Non-inductive plasma current start-up by EC and RF power in the TST-2 spherical tokamak. Nuclear Fusion, 2009, 49, 065010.	3.5	36
5	Strong Destabilization of Stable Modes with a Half-Frequency Associated with Chirping Geodesic Acoustic Modes in the Large Helical Device. Physical Review Letters, 2016, 116, 015002.	7.8	36
6	Radial Eigenmodes of Geodesic Acoustic Modes. Contributions To Plasma Physics, 2008, 48, 68-72.	1.1	29
7	Eddy, drift wave and zonal flow dynamics in a linear magnetized plasma. Scientific Reports, 2016, 6, 33371.	3.3	26
8	Nonlinear Excitation of Subcritical Instabilities in a Toroidal Plasma. Physical Review Letters, 2016, 116, 015003.	7.8	24
9	Topological bifurcation of helical flows in magnetized plasmas with density gradient and parallel flow shear. Physics of Plasmas, 2017, 24, 112103.	1.9	23
10	Nonlinear self-interaction of geodesic acoustic modes in toroidal plasmas. Physics of Plasmas, 2009, 16, 022306.	1.9	22
11	Synchronization of Geodesic Acoustic Modes and Magnetic Fluctuations in Toroidal Plasmas. Physical Review Letters, 2016, 117, 145002.	7.8	22
12	A branch of energetic-particle driven geodesic acoustic modes due to magnetic drift resonance. Physics of Plasmas, 2016, 23, .	1.9	21
13	Enhancement and suppression of turbulence by energetic-particle-driven geodesic acoustic modes. Scientific Reports, 2017, 7, 16767.	3.3	20
14	Spatio-temporal dynamics of turbulence trapped in geodesic acoustic modes. Physics of Plasmas, 2018, 25, .	1.9	19
15	Parametric decay instability during high harmonic fast wave heating experiments on the TST-2 spherical tokamak. Nuclear Fusion, 2009, 49, 065020.	3.5	18
16	Quantification of Turbulent Driving Forces for the Geodesic Acoustic Mode in the JFT-2M Tokamak. Physical Review Letters, 2018, 120, 045002.	7.8	18
17	Development of a Compact Thomson Scattering System for the TST-2 Spherical Tokamak. Plasma and Fusion Research, 2008, 3, 027-027.	0.7	17
18	Structure formation in parallel ion flow and density profiles by cross-ferroc turbulent transport in linear magnetized plasma. Physics of Plasmas, 2016, 23, 102311.	1.9	17

#	ARTICLE	IF	CITATIONS
19	Optimal MR Plaque Imaging for Cervical Carotid Artery Stenosis in Predicting the Development of Microembolic Signals during Exposure of Carotid Arteries in Endarterectomy: Comparison of 4 T1-Weighted Imaging Techniques. American Journal of Neuroradiology, 2016, 37, 1146-1154.	2.4	17
20	Phenomenological Classification of Turbulence States in Linear Magnetized Plasma PANTA. Plasma and Fusion Research, 2017, 12, 1401019-1401019.	0.7	17
21	Nonlinear competition of turbulent structures and improved confinement in magnetized cylindrical plasmas. Nuclear Fusion, 2014, 54, 114009.	3.5	16
22	End plate biasing experiments in linear magnetized plasmas. Nuclear Fusion, 2014, 54, 114010.	3.5	15
23	Using dynamical mode decomposition to extract the limit cycle dynamics of modulated turbulence in a plasma simulation. Plasma Physics and Controlled Fusion, 2019, 61, 112001.	2.1	15
24	Transient excitation of zonal flows by geodesic acoustic modes. Plasma Physics and Controlled Fusion, 2009, 51, 085002.	2.1	14
25	Temporal-spatial structures of plasmas flows and turbulence around tearing mode islands in the edge tokamak plasmas. Nuclear Fusion, 2017, 57, 126006.	3.5	14
26	Poloidal eigenmode of the geodesic acoustic mode in the limit of high safety factor. Journal of Plasma Physics, 2009, 75, 721-729.	2.1	12
27	Toroidal momentum channeling of geodesic acoustic modes driven by fast ions. Nuclear Fusion, 2017, 57, 036025.	3.5	12
28	Observations of radially elongated particle flux induced by streamer in a linear magnetized plasma. Physics of Plasmas, 2019, 26, 042306.	1.9	12
29	Plasma current start-up experiments without the central solenoid in the TST-2 spherical tokamak. Nuclear Fusion, 2006, 46, S598-S602.	3.5	11
30	Electron Cyclotron Heating Start-Up Experiments on TST-2. Plasma and Fusion Research, 2008, 3, 026-026.	0.7	11
31	Diagnostic Accuracy of Screening Arterial Spin-Labeling MRI Using Hadamard Encoding for the Detection of Reduced CBF in Adult Patients with Ischemic Moyamoya Disease. American Journal of Neuroradiology, 2021, 42, 1403-1409.	2.4	11
32	Evaluation of Electron Temperature Fluctuations Using Two Different Probe Techniques in Plasma Assembly for Nonlinear Turbulence Analysis (PANTA). Plasma and Fusion Research, 2011, 6, 2406118-2406118.	0.7	11
33	Identification of Quasi-Periodic Nonlinear Waveforms in Turbulent Plasmas. Plasma and Fusion Research, 2014, 9, 1201016-1201016.	0.7	11
34	Azimuthal inhomogeneity of turbulence structure and its impact on intermittent particle transport in linear magnetized plasmas. Physics of Plasmas, 2015, 22, .	1.9	10
35	Formation mechanism of steep wave front in magnetized plasmas. Physics of Plasmas, 2015, 22, .	1.9	10
36	Propagation direction of geodesic acoustic modes driven by drift wave turbulence. Nuclear Fusion, 2018, 58, 112005.	3.5	10

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37	Parallel flow driven instability due to toroidal return flow in high-confinement mode plasmas. Nuclear Fusion, 2019, 59, 066039.	3.5	10
38	Isotope effects in self-organization of internal transport barrier and concomitant edge confinement degradation in steady-state LHD plasmas. Scientific Reports, 2019, 9, 15913.	3.3	10
39	Geodesic Acoustic Modes in Multi-Ion System. Plasma and Fusion Research, 2008, 3, S1017-S1017.	0.7	10
40	Zonal flows induced by symmetry breaking with existence of geodesic acoustic modes. Nuclear Fusion, 2012, 52, 023009.	3.5	9
41	Multiple-Instabilities in Magnetized Plasmas with Density Gradient and Velocity Shears. Plasma and Fusion Research, 2017, 12, 1401042-1401042.	0.7	9
42	Extraction of nonlinear waveform in turbulent plasma. Physics of Plasmas, 2018, 25, 062304.	1.9	9
43	Formation of radially elongated flow leading to onset of type-III edge localized modes in toroidal plasmas. Nuclear Fusion, 2020, 60, 046021.	3.5	9
44	Evaluation of abrupt energy transfer among turbulent plasma structures using singular value decomposition. Plasma Physics and Controlled Fusion, 2021, 63, 025004.	2.1	9
45	Observation of Nonlinear Coupling between Low Frequency Coherent Modes and Background Turbulence in LMD-U. Plasma and Fusion Research, 2011, 6, 2401082-2401082.	0.7	9
46	Temperature Responsive Polymer Conjugate Prepared by α -Grafting from ϵ -Proteins toward the Adsorption and Removal of Uremic Toxin. Molecules, 2022, 27, 1051.	3.8	9
47	Cerebral White Matter Hyperintensity as a Healthcare Quotient. Journal of Clinical Medicine, 2019, 8, 1823.	2.4	8
48	Modification of Symmetry of Poloidal Eigenmode of Geodesic Acoustic Modes. Plasma and Fusion Research, 2008, 3, 009-009.	0.7	8
49	Configuration of Flows in a Cylindrical Plasma Device. Plasma and Fusion Research, 2012, 7, 2401146-2401146.	0.7	8
50	SIRVVD model-based verification of the effect of first and second doses of COVID-19/SARS-CoV-2 vaccination in Japan. Mathematical Biosciences and Engineering, 2021, 19, 1026-1040.	1.9	8
51	Nonlinear excitation of subcritical fast ion-driven modes. Nuclear Fusion, 2016, 56, 056009.	3.5	7
52	Effects of hydrogen isotope in coupling between confinement, wall material and SoL turbulence. Nuclear Fusion, 2017, 57, 056031.	3.5	7
53	Hysteresis and fast timescales in transport relations of toroidal plasmas. Nuclear Fusion, 2017, 57, 102021.	3.5	7
54	Turbulence simulation taking account of inhomogeneity of neutral density in linear devices. Physics of Plasmas, 2018, 25, .	1.9	7

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55	Ion temperature measurement by laser-induced fluorescence spectroscopy in panta. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1450-1454.	1.4	7
56	The first observation of 4D tomography measurement of plasma structures and fluctuations. Scientific Reports, 2021, 11, 3720.	3.3	7
57	Plasma Current Sustainment by RF Power in ECH Start-up Plasma in the TST-2 Spherical Tokamak. Plasma and Fusion Research, 2008, 3, 049-049.	0.7	7
58	Observations of Intermittent Structures in the Periphery of a Cylindrical Linear Plasma in PANTA. Plasma and Fusion Research, 2012, 7, 1201025-1201025.	0.7	7
59	Verification of wavelet analysis for a heat pulse propagation experiment. Plasma Physics and Controlled Fusion, 2011, 53, 095012.	2.1	6
60	Preoperative Cerebral Oxygen Extraction Fraction Imaging Generated from 7T MR Quantitative Susceptibility Mapping Predicts Development of Cerebral Hyperperfusion following Carotid Endarterectomy. American Journal of Neuroradiology, 2017, 38, 2327-2333.	2.4	6
61	Determination of Spatiotemporal Structure of Fluctuations by Statistical Averaging Method. Plasma and Fusion Research, 2018, 13, 3401105-3401105.	0.7	6
62	Fourier-rectangular function analysis for cylindrical plasma images. Journal of Applied Physics, 2019, 126, .	2.5	6
63	Frequency and plasma condition dependent spatial structure of low frequency global potential oscillations in the TJ-II stellarator. Nuclear Fusion, 2019, 59, 044006.	3.5	6
64	Formation of spiral structures of turbulence driven by a strong rotation in magnetically cylindrical plasmas. Physics of Plasmas, 2019, 26, 042305.	1.9	6
65	Observation of spatiotemporal structures of temperature fluctuations by using of a statistical phase detection method in a linear magnetized plasma. Plasma Physics and Controlled Fusion, 2020, 62, 055011.	2.1	6
66	Zeolite Composite Nanofiber Mesh for Indoxyl Sulfate Adsorption toward Wearable Blood Purification Devices. Fibers, 2021, 9, 37.	4.0	6
67	Pedestal dynamics prior to type-III ELM onset on HL-2A tokamak*. Nuclear Fusion, 2020, 60, 086014.	3.5	6
68	ECH and HHFW Start-Up Experiments on the TST-2 Spherical Tokamak. Fusion Science and Technology, 2007, 51, 168-170.	1.1	5
69	Detection of a new parametric decay instability branch in TST-2 during high harmonic fast wave heating. Review of Scientific Instruments, 2008, 79, 10F507.	1.3	5
70	Evaluation of Excitation Conditions of ITG Modes in the PANTA. Plasma and Fusion Research, 2013, 8, 2403133-2403133.	0.7	5
71	Combined methods of moment vectors and Stokes parameters to analyze tomographic image of plasma turbulence. Physics of Plasmas, 2019, 26, 012305.	1.9	5
72	Definition of the profile gain factor and its application for internal transport barrier analysis in torus plasmas. Plasma Physics and Controlled Fusion, 2019, 61, 085005.	2.1	5

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73	On a Nonlinear Dispersion Effect of Geodesic Acoustic Modes. Plasma and Fusion Research, 2013, 8, 1403010-1403010.	0.7	5
74	Evaluation of Non-Linear Mode Coupling During End-Plate Biasing Experiment in PANTA. Plasma and Fusion Research, 2015, 10, 3401043-3401043.	0.7	4
75	A Calibration of Setting of Mach Probes by Observing GAM Oscillations. Plasma and Fusion Research, 2016, 11, 1402002-1402002.	0.7	4
76	Three-Dimensional Structure of the Streamer in Linear Plasmas. Journal of the Physical Society of Japan, 2018, 87, 034501.	1.6	4
77	Roles of solitary eddy and splash in drift wave zonal flow system in a linear magnetized plasma. Physics of Plasmas, 2019, 26, 052305.	1.9	4
78	Impact of helium neutral gas puff on plasma turbulence in linear magnetized argon plasmas. Physics of Plasmas, 2020, 27, .	1.9	4
79	Reflectometry for Density Fluctuation and Profile Measurements in TST-2. Plasma and Fusion Research, 2007, 2, S1037-S1037.	0.7	4
80	Soft X-ray Emission Profile and Mode Structure During MHD Events in the TST-2 Spherical Tokamak. Plasma and Fusion Research, 2007, 2, S1065-S1065.	0.7	4
81	Measurement of Dynamical Density Profiles Using a Microwave Frequency Comb Reflectometer. Plasma and Fusion Research, 2013, 8, 1201171-1201171.	0.7	4
82	Streamer Structures in Experiment and Modeling. Plasma and Fusion Research, 2013, 8, 2401022-2401022.	0.7	4
83	On turbulence-correlation analysis based on correlation reflectometry. Physica Scripta, 2013, 87, 045502.	2.5	3
84	Evaluation of Spatial Variation of Nonlinear Energy Transfer by Use of Turbulence Diagnostic Simulator. Plasma and Fusion Research, 2013, 8, 2403070-2403070.	0.7	3
85	Changes of Particle Flux during End-Plate Biasing Experiment in PANTA. Journal of the Physical Society of Japan, 2016, 85, 093501.	1.6	3
86	Mesoscale electric fluctuations interacting with zonal flows, magnetic fluctuations and turbulence. Nuclear Fusion, 2017, 57, 076036.	3.5	3
87	Coexistence of Drift Waves and D'Angelo Modes at Different Position and Frequency in Linear Plasma Device. Plasma and Fusion Research, 2017, 12, 1201008-1201008.	0.7	3
88	Phase coherence among the Fourier modes and non-Gaussian characteristics in the Alfvén chaos system. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	3
89	Subcritical Instabilities in Neutral Fluids and Plasmas. Fluids, 2018, 3, 89.	1.7	3
90	Acetazolamide-Loaded Dynamic 7T MR Quantitative Susceptibility Mapping in Major Cerebral Artery Steno-Occlusive Disease: Comparison with PET. American Journal of Neuroradiology, 2020, 41, 785-791.	2.4	3

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91	On the triad transfer analysis of plasma turbulence: symmetrization, coarse graining, and directional representation. <i>New Journal of Physics</i> , 2021, 23, 043049.	2.9	3
92	First Observation of RF-Induced Visible Light Fluctuations. <i>Plasma and Fusion Research</i> , 2007, 2, 023-023.	0.7	3
93	Interactions of drift wave turbulence with streamer flows in wave-kinetic formalism. <i>Physics of Plasmas</i> , 2021, 28, 102304.	1.9	3
94	Dynamic interaction between fluctuations with different origins in a linear magnetized plasma. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
95	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1970, 137, 195-202.	1.1	2
96	Incorporation of Hydrogen in Carbon-Tungsten Co-Deposition Layers Formed by Hydrogen Plasma Sputtering. <i>Fusion Science and Technology</i> , 2007, 52, 640-644.	1.1	2
97	Observation of subcritical geodesic acoustic mode excitation in the large helical device. <i>Nuclear Fusion</i> , 2017, 57, 072009.	3.5	2
98	Evaluation of Measurement Signal of Heavy Ion Beam Probe of Energetic-Particle Driven Geodesic Acoustic Modes. <i>Plasma and Fusion Research</i> , 2018, 13, 3403040-3403040.	0.7	2
99	On the Radial Eigenmode Structure of Drift Wave Instability with Inhomogeneous Damping in Cylindrical Plasmas. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 024501.	1.6	2
100	Comparison between Tomography and Langmuir Probe Data in PANTA. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 093501.	1.6	2
101	Flow helicity of wavy plasma turbulence. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	2
102	Scrape-off layer width set by nonlinear streamer flows in drift wave turbulence. <i>Contributions To Plasma Physics</i> , 2020, 60, e201900141.	1.1	2
103	Correlation-estimated conditional average method and its application on solitary oscillation in PANTA. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 032001.	2.1	2
104	Method for estimating the frequency-wavenumber resolved power spectrum density using the maximum entropy method for limited spatial points. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 045011.	2.1	2
105	Effects of Electron Temperature Fluctuation on Turbulence Measurement by Langmuir Probe in a Magnetized Helicon Plasma. <i>Plasma and Fusion Research</i> , 2021, 16, 1202081-1202081.	0.7	2
106	Characterization of isotope effect on ion internal transport barrier and its parameter dependence in Large Helical Device. <i>Nuclear Fusion</i> , 0, , .	3.5	2
107	Method for Estimating the Wavenumber of Standing Waves Using Three Langmuir Probes. <i>Plasma and Fusion Research</i> , 2011, 6, 1401050-1401050.	0.7	2
108	Time Evolution of Power Spectrum Density in Spontaneous Transition in Cylindrical Magnetized Plasma. <i>Plasma and Fusion Research</i> , 2012, 7, 2401054-2401054.	0.7	2

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109	Statistical Analyses of Turbulent Particle and Momentum Fluxes in a Cylindrical Magnetized Plasma. Plasma and Fusion Research, 2013, 8, 2401113-2401113.	0.7	2
110	Formation of density corrugations due to zonal flow in wave-kinetic framework. Physics of Plasmas, 2021, 28, .	1.9	2
111	Theoretical Analysis of the SIRVVD Model for Insights Into the Target Rate of COVID-19/SARS-CoV-2 Vaccination in Japan. IEEE Access, 2022, 10, 43044-43054.	4.2	2
112	Characterizing the flow and turbulence structure near the last closed flux surface in L-mode plasmas of ASDEX Upgrade. Physics of Plasmas, 2022, 29, 072304.	1.9	2
113	Improvement of the Reynolds Stress Probe for End-Plate Biasing Experiments in a Cylindrical Laboratory Plasma. Plasma and Fusion Research, 2016, 11, 1201091-1201091.	0.7	1
114	Simulation research on competitive nature of plasma turbulence in linear devices. AIP Conference Proceedings, 2018, , .	0.4	1
115	Global Mode Analysis of Ion-Temperature-Gradient Instabilities Using the Gyro-Fluid Model in Linear Devices. Plasma and Fusion Research, 2018, 13, 1401081-1401081.	0.7	1
116	Summary of the 8th Asia-Pacific Transport Working Group (APTWG) Meeting. Nuclear Fusion, 2019, 59, 047001.	3.5	1
117	Neutral particle drag on parallel flow shear driven instability. Physics of Plasmas, 2020, 27, .	1.9	1
118	Modal polarization analysis using Fourier-rectangular function transform in a cylindrical plasma. Journal of Applied Physics, 2021, 129, 093301.	2.5	1
119	Numerical investigation on how heat flux avalanche jams trigger the staircase pattern formation. Physics of Plasmas, 2021, 28, .	1.9	1
120	Assessment of Impaired Cerebrovascular Reactivity in Chronic Cerebral Ischemia using Intravoxel Incoherent Motion Magnetic Resonance Imaging. Journal of Stroke and Cerebrovascular Diseases, 2021, 30, 106107.	1.6	1
121	Phase Alignments between MHD Modes Followed by Minor Collapses on TST-2. Plasma and Fusion Research, 2009, 4, 015-015.	0.7	1
122	Bayesian inference of ion velocity distribution function from laser-induced fluorescence spectra. Scientific Reports, 2021, 11, 20810.	3.3	1
123	Estimation of Particle Flux Driven by Coherent Mode Using of Statistical Conditional Averaging. Plasma and Fusion Research, 2019, 14, 1402090-1402090.	0.7	1
124	On validity of quasi-linear theory for non-resonant pitch-angle diffusion by finite amplitude parallel propagating Alfvén waves. Physics of Plasmas, 2022, 29, 034501.	1.9	1
125	A new combination of Hankel and sparsity-promoting dynamic mode decompositions and its application to the prediction of plasma turbulence. Japanese Journal of Applied Physics, 2022, 61, SA1011.	1.5	1
126	An Application of Hadamard Transform for Plasma Laser-Induced Fluorescence Spectroscopy. Plasma and Fusion Research, 2015, 10, 1201085-1201085.	0.7	0

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127	Nonlinear Coupling of Drift Waves and High Frequency Fluctuation on PANTA. Plasma and Fusion Research, 2017, 12, 1201034-1201034.	0.7	0
128	Trapping of turbulence clumps by geodesic acoustic modes. AIP Conference Proceedings, 2018, , .	0.4	0
129	Evaluation of Electron Temperature Fluctuations Using a Conditional Technique. Plasma and Fusion Research, 2012, 7, 2401133-2401133.	0.7	0
130	Finite Larmor Radius Effect on Ion-Temperature-Gradient Instability in Cylindrical Plasmas. Plasma and Fusion Research, 2019, 14, 1401158-1401158.	0.7	0
131	Reconstruction of Time Series Observed in Linear Magnetized Plasma PANTA via a Machine Learning Algorithm. Plasma and Fusion Research, 2019, 14, 1301157-1301157.	0.7	0
132	Turbulence Simulation on Zonal Flow Formations in the Presence of Parallel Flows. Plasma and Fusion Research, 2019, 14, 1401161-1401161.	0.7	0
133	Wave Number Dependence on Ion Mass Number of Resistive Drift Wave Instabilities. Plasma and Fusion Research, 2022, 17, 1201053-1201053.	0.7	0
134	Prediction of Turbulence Temporal Evolution in PANTA by Long-Short Term Memory Network. Plasma and Fusion Research, 2022, 17, 1201048-1201048.	0.7	0