Makoto Sasaki

List of Publications by Year
in descending order

134	1,116	471509	580821
papers	citations	17 h-index	25 g-index

134	134	134	634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temperature Responsive Polymer Conjugate Prepared by â€œGrafting fromâ€•Proteins toward the Adsorption and Removal of Uremic Toxin. Molecules, 2022, 27, 1051.	3.8	9
2	On validity of quasi-linear theory for non-resonant pitch-angle diffusion by finite amplitude parallel propagating AlfvÃ©n waves. Physics of Plasmas, 2022, 29, 034501.	1.9	1
3	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
4	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
5	Wave Number Dependence on Ion Mass Number of Resistive Drift Wave Instabilities. Plasma and Fusion Research, 2022, 17, 1201053-1201053.	0.7	0
6	Prediction of Turbulence Temporal Evolution in PANTA by Long-Short Term Memory Network. Plasma and Fusion Research, 2022, 17, 1201048-1201048.	0.7	0
7	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
8	Correlation-estimated conditional average method and its application on solitary oscillation in PANTA. Plasma Physics and Controlled Fusion, 2021, 63, 032001.	2.1	2
9	The first observation of 4D tomography measurement of plasma structures and fluctuations. Scientific Reports, 2021, 11, 3720.	3.3	7
10	Method for estimating the frequency-wavenumber resolved power spectrum density using the maximum entropy method for limited spatial points. Plasma Physics and Controlled Fusion, 2021, 63, 045011.	2.1	2
11	Modal polarization analysis using Fourier-rectangular function transform in a cylindrical plasma. Journal of Applied Physics, 2021, 129, 093301.	2.5	1
12	On the triad transfer analysis of plasma turbulence: symmetrization, coarse graining, and directional representation. New Journal of Physics, 2021, 23, 043049.	2.9	3
13	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
14	Effects of Electron Temperature Fluctuation on Turbulence Measurement by Langmuir Probe in a Magnetized Helicon Plasma. Plasma and Fusion Research, 2021, 16, 1202081-1202081.	0.7	2
15	Zeolite Composite Nanofiber Mesh for Indoxyl Sulfate Adsorption toward Wearable Blood Purification Devices. Fibers, 2021, 9, 37.	4.0	6
16	Numerical investigation on how heat flux avalanche jams trigger the staircase pattern formation. Physics of Plasmas, 2021, 28, .	1.9	1
17	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
18	Evaluation of abrupt energy transfer among turbulent plasma structures using singular value decomposition. Plasma Physics and Controlled Fusion, 2021, 63, 025004.	2.1	9

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19	Interactions of drift wave turbulence with streamer flows in wave-kinetic formalism. Physics of Plasmas, 2021, 28, 102304.	1.9	3
20	Bayesian inference of ion velocity distribution function from laser-induced fluorescence spectra. Scientific Reports, 2021, 11, 20810.	3.3	1
21	Dynamic interaction between fluctuations with different origins in a linear magnetized plasma. Physics of Plasmas, 2021, 28, .	1.9	3
22	Formation of density corrugations due to zonal flow in wave-kinetic framework. Physics of Plasmas, 2021, 28, .	1.9	2
23	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
24	Comparison between Tomography and Langmuir Probe Data in PANTA. Journal of the Physical Society of Japan, 2020, 89, 093501.	1.6	2
25	Neutral particle drag on parallel flow shear driven instability. Physics of Plasmas, 2020, 27, .	1.9	1
26	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
27	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
28	Flow helicity of wavy plasma turbulence. Physics of Plasmas, 2020, 27, .	1.9	2
29	Scrapeâ€off layer width set by nonâ€linear streamer flows in drift wave turbulence. Contributions To Plasma Physics, 2020, 60, e201900141.	1.1	2
30	Impact of helium neutral gas puff on plasma turbulence in linear magnetized argon plasmas. Physics of Plasmas, 2020, 27, .	1.9	4
31	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
32	Pedestal dynamics prior to type-III ELM onset on HL-2A tokamak*. Nuclear Fusion, 2020, 60, 086014.	3.5	6
33	Parallel flow driven instability due to toroidal return flow in high-confinement mode plasmas. Nuclear Fusion, 2019, 59, 066039.	3.5	10
34	Ion temperature measurement by laserâ€induced fluorescence spectroscopy in panta. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1450-1454.	1.4	7
35	Cerebral White Matter Hyperintensity as a Healthcare Quotient. Journal of Clinical Medicine, 2019, 8, 1823.	2.4	8
36	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

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37	Fourier-rectangular function analysis for cylindrical plasma images. Journal of Applied Physics, 2019, 126, .	2.5	6
38	Combined methods of moment vectors and Stokes parameters to analyze tomographic image of plasma turbulence. Physics of Plasmas, 2019, 26, 012305.	1.9	5
39	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
40	Roles of solitary eddy and splash in drift waveâ€“zonal flow system in a linear magnetized plasma. Physics of Plasmas, 2019, 26, 052305.	1.9	4
41	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
42	Formation of spiral structures of turbulence driven by a strong rotation in magnetically cylindrical plasmas. Physics of Plasmas, 2019, 26, 042305.	1.9	6
43	Summary of the 8th Asia-Pacific Transport Working Group (APTWG) Meeting. Nuclear Fusion, 2019, 59, 047001.	3.5	1
44	Observations of radially elongated particle flux induced by streamer in a linear magnetized plasma. Physics of Plasmas, 2019, 26, 042306.	1.9	12
45	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
46	Estimation of Particle Flux Driven by Coherent Mode Using of Statistical Conditional Averaging. Plasma and Fusion Research, 2019, 14, 1402090-1402090.	0.7	1
47	Finite Larmor Radius Effect on Ion-Temperature-Gradient Instability in Cylindrical Plasmas. Plasma and Fusion Research, 2019, 14, 1401158-1401158.	0.7	0
48	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
49	Turbulence Simulation on Zonal Flow Formations in the Presence of Parallel Flows. Plasma and Fusion Research, 2019, 14, 1401161-1401161.	0.7	0
50	Turbulence simulation taking account of inhomogeneity of neutral density in linear devices. Physics of Plasmas, 2018, 25, .	1.9	7
51	Quantification of Turbulent Driving Forces for the Geodesic Acoustic Mode in the JFT-2M Tokamak. Physical Review Letters, 2018, 120, 045002.	7.8	18
52	Spatio-temporal dynamics of turbulence trapped in geodesic acoustic modes. Physics of Plasmas, 2018, 25, .	1.9	19
53	Three-Dimensional Structure of the Streamer in Linear Plasmas. Journal of the Physical Society of Japan, 2018, 87, 034501.	1.6	4
54	Simulation research on competitive nature of plasma turbulence in linear devices. AIP Conference Proceedings, 2018, , .	0.4	1

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55	Subcritical Instabilities in Neutral Fluids and Plasmas. Fluids, 2018, 3, 89.	1.7	3
56	Trapping of turbulence clumps by geodesic acoustic modes. AIP Conference Proceedings, 2018, , .	0.4	0
57	Determination of Spatiotemporal Structure of Fluctuations by Statistical Averaging Method. Plasma and Fusion Research, 2018, 13, 3401105-3401105.	0.7	6
58	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
59	Propagation direction of geodesic acoustic modes driven by drift wave turbulence. Nuclear Fusion, 2018, 58, 112005.	3.5	10
60	Evaluation of Measurement Signal of Heavy Ion Beam Probe of Energetic-Particle Driven Geodesic Acoustic Modes. Plasma and Fusion Research, 2018, 13, 3403040-3403040.	0.7	2
61	Extraction of nonlinear waveform in turbulent plasma. Physics of Plasmas, 2018, 25, 062304.	1.9	9
62	On the Radial Eigenmode Structure of Drift Wave Instability with Inhomogeneous Damping in Cylindrical Plasmas. Journal of the Physical Society of Japan, 2018, 87, 024501.	1.6	2
63	Toroidal momentum channeling of geodesic acoustic modes driven by fast ions. Nuclear Fusion, 2017, 57, 036025.	3.5	12
64	Observation of subcritical geodesic acoustic mode excitation in the large helical device. Nuclear Fusion, 2017, 57, 072009.	3.5	2
65	Effects of hydrogen isotope in coupling between confinement, wall material and SoL turbulence. Nuclear Fusion, 2017, 57, 056031.	3.5	7
66	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
67	Mesoscale electric fluctuations interacting with zonal flows, magnetic fluctuations and turbulence. Nuclear Fusion, 2017, 57, 076036.	3.5	3
68	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
69	Enhancement and suppression of turbulence by energetic-particle-driven geodesic acoustic modes. Scientific Reports, 2017, 7, 16767.	3.3	20
70	Topological bifurcation of helical flows in magnetized plasmas with density gradient and parallel flow shear. Physics of Plasmas, 2017, 24, 112103.	1.9	23
71	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
72	Multiple-Instabilities in Magnetized Plasmas with Density Gradient and Velocity Shears. Plasma and Fusion Research, 2017, 12, 1401042-1401042.	0.7	9

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73	Nonlinear Coupling of Drift Waves and High Frequency Fluctuation on PANTA. Plasma and Fusion Research, 2017, 12, 1201034-1201034.	0.7	0
74	Phenomenological Classification of Turbulence States in Linear Magnetized Plasma PANTA. Plasma and Fusion Research, 2017, 12, 1401019-1401019.	0.7	17
75	Phase coherence among the Fourier modes and non-Gaussian characteristics in the AlfvÃ©n chaos system. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	3
76	Hysteresis and fast timescales in transport relations of toroidal plasmas. Nuclear Fusion, 2017, 57, 102021.	3.5	7
77	A branch of energetic-particle driven geodesic acoustic modes due to magnetic drift resonance. Physics of Plasmas, 2016, 23, .	1.9	21
78	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
79	Nonlinear excitation of subcritical fast ion-driven modes. Nuclear Fusion, 2016, 56, 056009.	3.5	7
80	A Concept of Cross-Ferroic Plasma Turbulence. Scientific Reports, 2016, 6, 22189.	3.3	72
81	Synchronization of Geodesic Acoustic Modes and Magnetic Fluctuations in Toroidal Plasmas. Physical Review Letters, 2016, 117, 145002.	7.8	22
82	Eddy, drift wave and zonal flow dynamics in a linear magnetized plasma. Scientific Reports, 2016, 6, 33371.	3.3	26
83	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
84	Nonlinear Excitation of Subcritical Instabilities in a Toroidal Plasma. Physical Review Letters, 2016, 116, 015003.	7.8	24
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	A Calibration of Setting of Mach Probes by Observing GAM Oscillations. Plasma and Fusion Research, 2016, 11, 1402002-1402002.	0.7	4
87	Structure formation in parallel ion flow and density profiles by cross-ferroic turbulent transport in linear magnetized plasma. Physics of Plasmas, 2016, 23, 102311.	1.9	17
88	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
89	Azimuthal inhomogeneity of turbulence structure and its impact on intermittent particle transport in linear magnetized plasmas. Physics of Plasmas, 2015, 22, .	1.9	10
90	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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91	Evaluation of Non-Linear Mode Coupling During End-Plate Biasing Experiment in PANTA. Plasma and Fusion Research, 2015, 10, 3401043-3401043.	0.7	4
92	Formation mechanism of steep wave front in magnetized plasmas. Physics of Plasmas, 2015, 22, .	1.9	10
93	Nonlinear competition of turbulent structures and improved confinement in magnetized cylindrical plasmas. Nuclear Fusion, 2014, 54, 114009.	3.5	16
94	End plate biasing experiments in linear magnetized plasmas. Nuclear Fusion, 2014, 54, 114010.	3.5	15
95	Identification of Quasi-Periodic Nonlinear Waveforms in Turbulent Plasmas. Plasma and Fusion Research, 2014, 9, 1201016-1201016.	0.7	11
96	On turbulence-correlation analysis based on correlation reflectometry. Physica Scripta, 2013, 87, 045502.	2.5	3
97	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
98	Evaluation of Excitation Conditions of ITG Modes in the PANTA. Plasma and Fusion Research, 2013, 8, 2403133-2403133.	0.7	5
99	Measurement of Dynamical Density Profiles Using a Microwave Frequency Comb Reflectometer. Plasma and Fusion Research, 2013, 8, 1201171-1201171.	0.7	4
100	On a Nonlinear Dispersion Effect of Geodesic Acoustic Modes. Plasma and Fusion Research, 2013, 8, 1403010-1403010.	0.7	5
101	Streamer Structures in Experiment and Modeling. Plasma and Fusion Research, 2013, 8, 2401022-2401022.	0.7	4
102	Statistical Analyses of Turbulent Particle and Momentum Fluxes in a Cylindrical Magnetized Plasma. Plasma and Fusion Research, 2013, 8, 2401113-2401113.	0.7	2
103	Zonal flows induced by symmetry breaking with existence of geodesic acoustic modes. Nuclear Fusion, 2012, 52, 023009.	3.5	9
104	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
105	Time Evolution of Power Spectrum Density in Spontaneous Transition in Cylindrical Magnetized Plasma. Plasma and Fusion Research, 2012, 7, 2401054-2401054.	0.7	2
106	Configuration of Flows in a Cylindrical Plasma Device. Plasma and Fusion Research, 2012, 7, 2401146-2401146.	0.7	8
107	Evaluation of Electron Temperature Fluctuations Using a Conditional Technique. Plasma and Fusion Research, 2012, 7, 2401133-2401133.	0.7	0
108	Energy channeling from energetic particles to bulk ions via beam-driven geodesic acoustic modesâ€"GAM channeling. Plasma Physics and Controlled Fusion, 2011, 53, 085017.	2.1	44

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109	Verification of wavelet analysis for a heat pulse propagation experiment. Plasma Physics and Controlled Fusion, 2011, 53, 095012.	2.1	6
110	Method for Estimating the Wavenumber of Standing Waves Using Three Langmuir Probes. Plasma and Fusion Research, 2011, 6, 1401050-1401050.	0.7	2
111	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
112	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
113	Nonlinear self-interaction of geodesic acoustic modes in toroidal plasmas. Physics of Plasmas, 2009, 16, 022306.	1.9	22
114	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
115	Transient excitation of zonal flows by geodesic acoustic modes. Plasma Physics and Controlled Fusion, 2009, 51, 085002.	2.1	14
116	Parametric decay instability during high harmonic fast wave heating experiments on the TST-2 spherical tokamak. Nuclear Fusion, 2009, 49, 065020.	3.5	18
117	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
118	Phase Alignments between MHD Modes Followed by Minor Collapses on TST-2. Plasma and Fusion Research, 2009, 4, 015-015.	0.7	1
119	Radial Eigenmodes of Geodesic Acoustic Modes. Contributions To Plasma Physics, 2008, 48, 68-72.	1.1	29
120	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
121	Development of a Compact Thomson Scattering System for the TST-2 Spherical Tokamak. Plasma and Fusion Research, 2008, 3, 027-027.	0.7	17
122	Electron Cyclotron Heating Start-Up Experiments on TST-2. Plasma and Fusion Research, 2008, 3, 026-026.	0.7	11
123	Modification of Symmetry of Poloidal Eigenmode of Geodesic Acoustic Modes. Plasma and Fusion Research, 2008, 3, 009-009.	0.7	8
124	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
125	Geodesic Acoustic Modes in Multi-Ion System. Plasma and Fusion Research, 2008, 3, S1017-S1017.	0.7	10
126	Geodesic acoustic mode spectroscopy. Plasma Physics and Controlled Fusion, 2007, 49, L7-L10.	2.1	37

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127	ECH and HHFW Start-Up Experiments on the TST-2 Spherical Tokamak. Fusion Science and Technology, 2007, 51, 168-170.	1.1	5
128	Incorporation of Hydrogen in Carbon-Tungsten Co-Deposition Layers Formed by Hydrogen Plasma Sputtering. Fusion Science and Technology, 2007, 52, 640-644.	1.1	2
129	First Observation of RF-Induced Visible Light Fluctuations. Plasma and Fusion Research, 2007, 2, 023-023.	0.7	3
130	Reflectometry for Density Fluctuation and Profile Measurements in TST-2. Plasma and Fusion Research, 2007, 2, S1037-S1037.	0.7	4
131	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
132	Plasma current start-up experiments without the central solenoid in the TST-2 spherical tokamak. Nuclear Fusion, 2006, 46, S598-S602.	3.5	11
133	Title is missing!. Die Makromolekulare Chemie, 1970, 137, 195-202.	1.1	2
134	Characterization of isotope effect on ion internal transport barrier and its parameter dependence in Large Helical Device. Nuclear Fusion, 0, , .	3.5	2