

# Hiroshi Tanabe

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

477  
citations

623734

14  
h-index

713466

21  
g-index

50  
all docs

50  
docs citations

50  
times ranked

398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional resistive MHD simulation of the optimized plasma formation in the spherical tokamaks. Nuclear Fusion, 2021, 61, 066001.	3.5	3
2	Global Ion Heating during ST Merging Driven by High Guide Field Reconnection. Plasma and Fusion Research, 2021, 16, 2402068-2402068.	0.7	1
3	Development of Glass-Tube-Pair Type Doppler Probe Array for 1D Profile Measurement of Two Component Ion-Flow Vector. Plasma and Fusion Research, 2021, 16, 1202078-1202078.	0.7	1
4	Plasma heating and current sheet structure in anti-parallel magnetic reconnection. Physics of Plasmas, 2021, 28, 072101.	1.9	0
5	Double-filter high-resolution soft x-ray tomographic diagnostic for investigating electron acceleration in TS-6 reconnection merging experiments. Review of Scientific Instruments, 2021, 92, 083504.	1.3	3
6	Global ion heating/transport during merging spherical tokamak formation. Nuclear Fusion, 2021, 61, 106027.	3.5	3
7	Development of Soft X-ray Stereo Imaging System for Time-evolution Measurement of High-energy Electron Distribution. IEEJ Transactions on Fundamentals and Materials, 2021, 141, 604-605.	0.2	0
8	Spontaneous Formation of Plasmoid during Early Magnetic Reconnection Phase of Two Merging Tokamaks. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 1403-1404.	1.4	1
9	Development of Doppler Probe Array with Two Pairs of View-lines for 1D Ion Flow Vector Measurement. IEEJ Transactions on Fundamentals and Materials, 2020, 140, 502-503.	0.2	0
10	Reconnection heating experiments and simulations for torus plasma merging start-up. Nuclear Fusion, 2019, 59, 076025.	3.5	13
11	Investigation of fine structure formation of guide field reconnection during merging plasma startup of spherical tokamak in TS-3U. Nuclear Fusion, 2019, 59, 086041.	3.5	8
12	Effects of reconnection downstream conditions on electron parallel acceleration during the merging start-up of a spherical tokamak. Nuclear Fusion, 2019, 59, 086040.	3.5	10
13	Dependence of the pickup-like ion effective heating on the poloidal and toroidal magnetic fields during magnetic reconnection. Physics of Plasmas, 2019, 26, .	1.9	12
14	First Global Doppler Tomography Measurement of Ion Heating of Merging Tokamak Plasmas. IEEJ Transactions on Fundamentals and Materials, 2019, 139, 358-359.	0.2	1
15	Recent Progress in High Resolution 2D Imaging Measurements of Reconnection Heating during Merging Plasma Startup in TS-3. Plasma and Fusion Research, 2019, 14, 3401110-3401110.	0.7	1
16	Effective Proton Heating through Collisionless Driven Reconnection in the Presence of Guide Field. Plasma and Fusion Research, 2018, 13, 3401025-3401025.	0.7	5
17	High-Resolution 2D Magnetic Field Measurement of Magnetic Reconnection Using Printed-Circuit Board Coils. Plasma and Fusion Research, 2018, 13, 1202108-1202108.	0.7	3
18	Development of High-resolution Two-dimensional Magnetic Field Measurement System by Use of Printed-circuit Technology. IEEJ Transactions on Fundamentals and Materials, 2018, 138, 480-481.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Recent progress of magnetic reconnection research in the MAST spherical tokamak. Physics of Plasmas, 2017, 24, .	1.9	15
20	Investigation of merging/reconnection heating during solenoid-free startup of plasmas in the MAST Spherical Tokamak. Nuclear Fusion, 2017, 57, 056037.	3.5	18
21	Overview of recent physics results from MAST. Nuclear Fusion, 2017, 57, 102007.	3.5	16
22	Separated Double-Current Layers in a High-Guide-Field Reconnection Experiment. Plasma and Fusion Research, 2017, 12, 1202033-1202033.	0.7	1
23	Localized electron heating during magnetic reconnection in MAST. Nuclear Fusion, 2016, 56, 106019.	3.5	12
24	Application of Tomographic Ion Doppler Spectroscopy to Merging Plasma Startup in the MAST Spherical Tokamak. Plasma and Fusion Research, 2016, 11, 1302093-1302093.	0.7	8
25	Electron and Ion Heating Characteristics during Magnetic Reconnection in the MAST Spherical Tokamak. Physical Review Letters, 2015, 115, 215004.	7.8	34
26	Centre-solenoid-free merging start-up of spherical tokamak plasmas in UTST. Nuclear Fusion, 2015, 55, 033013.	3.5	28
27	Charge dependence of neoclassical and turbulent transport of light impurities on MAST. Plasma Physics and Controlled Fusion, 2015, 57, 095001.	2.1	14
28	2015, 22, 055708.	1.9	29
29	Overview of MAST results. Nuclear Fusion, 2015, 55, 104008.	3.5	16
30	Numerical study of energy conversion mechanism of magnetic reconnection in the presence of high guide field. Nuclear Fusion, 2015, 55, 083014.	3.5	16
31	2015, 22, 055708.	1.9	1
32	Low-frequency Magnetic Fluctuation Measurement during Magnetic Reconnection in Counter-helicity Plasma Merging Experiment. Electrical Engineering in Japan (English Translation of Denki Gakkai) Transactions on Electrical Engineering in Japan, 2014, 134, 523-524.	0.2	0
33	Ion Heating Characteristics of Merging Spherical Tokamak Plasmas using the Improved Doppler Tomography Spectroscopy System. IEEJ Transactions on Fundamentals and Materials, 2014, 134, 523-524.	0.2	0
34	Experimental Investigation of Ion Mass Dependency of Magnetic Reconnection Outflow by using High Precision Ion Doppler Spectroscopy. IEEJ Transactions on Fundamentals and Materials, 2014, 134, 352-353.	0.2	0
35	Excitation and propagation of electromagnetic fluctuations with ion-cyclotron range of frequency in magnetic reconnection laboratory experiment. Physics of Plasmas, 2013, 20, .	1.9	8
36	Two-dimensional ion temperature measurement by application of tomographic reconstruction to Doppler spectroscopy. Nuclear Fusion, 2013, 53, 093027.	3.5	16

#	ARTICLE	IF	CITATIONS
37	Two Dimensional Imaging Measurement of Magnetic Reconnection Outflow in the TS-4 Toroidal Plasma Merging Experiment. Plasma and Fusion Research, 2013, 8, 2405088-2405088.	0.7	10
38	Ion and electron heating characteristics of magnetic reconnection in tokamak plasma merging experiments. Plasma Physics and Controlled Fusion, 2012, 54, 124039.	2.1	52
39	A LABORATORY EXPERIMENT OF MAGNETIC RECONNECTION: OUTFLOWS, HEATING, AND WAVES IN CHROMOSPHERIC JETS. Astrophysical Journal, 2012, 756, 152.	4.5	14
40	Low-frequency Magnetic Fluctuation Measurement during Magnetic Reconnection in Counter-helicity Plasma Merging Experiment. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 233-238.	0.2	2
41	Ion and Electron Heating Characteristics of Magnetic Reconnection in a Two Flux Loop Merging Experiment. Physical Review Letters, 2011, 107, 185001.	7.8	63
42	Intermittent magnetic reconnection in TS-3 merging experiment. Physics of Plasmas, 2011, 18, .	1.9	27
43	Low Frequency Magnetic Fluctuations during Magnetic Reconnection in Laboratory Experiment. Plasma and Fusion Research, 2011, 6, 1201127-1201127.	0.7	4
44	Vector and Scalar Tomography of Compact Toroid Plasmas. Journal of Fusion Energy, 2010, 29, 592-595.	1.2	4
45	Two Dimensional Ion Temperature Measurement System by Use of Multiple Line-Integrated Spectrums. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 772-773.	0.2	3
46	Research on Fatty Abrasive of Alumina. Journal of the Ceramic Association Japan, 1954, 62, 48-52.	0.2	0
47	Research on Spinel Pigments. Journal of the Ceramic Association Japan, 1954, 62, 191-196.	0.2	0
48	Research on Artificial Emery. Journal of the Ceramic Association Japan, 1954, 62, 208-212.	0.2	0
49	Control of electron acceleration process during merging start-up of spherical tokamak. Nuclear Fusion, 0, , .	3.5	1
50	Reconstruction of the Internal Magnetic Configuration of Two Merging Spherical Tokamak Plasmas by External Probe Measurement and MHD Simulation. IEEJ Transactions on Electrical and Electronic Engineering, 0, , .	1.4	0