

# Hiroshi Tanabe

## List of Publications by Year in descending order

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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	Ion and Electron Heating Characteristics of Magnetic Reconnection in a Two Flux Loop Merging Experiment. <i>Physical Review Letters</i> , 2011, 107, 185001.	7.8	63
2	Ion and electron heating characteristics of magnetic reconnection in tokamak plasma merging experiments. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124039.	2.1	52
3	Electron and Ion Heating Characteristics during Magnetic Reconnection in the MAST Spherical Tokamak. <i>Physical Review Letters</i> , 2015, 115, 215004.	7.8	34
4	2015, 22, 055708.	1.9	29
5	Centre-solenoid-free merging start-up of spherical tokamak plasmas in UTST. <i>Nuclear Fusion</i> , 2015, 55, 033013.	3.5	28
6	Intermittent magnetic reconnection in TS-3 merging experiment. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	27
7	Investigation of merging/reconnection heating during solenoid-free startup of plasmas in the MAST Spherical Tokamak. <i>Nuclear Fusion</i> , 2017, 57, 056037.	3.5	18
8	Two-dimensional ion temperature measurement by application of tomographic reconstruction to Doppler spectroscopy. <i>Nuclear Fusion</i> , 2013, 53, 093027.	3.5	16
9	Overview of MAST results. <i>Nuclear Fusion</i> , 2015, 55, 104008.	3.5	16
10	Numerical study of energy conversion mechanism of magnetic reconnection in the presence of high guide field. <i>Nuclear Fusion</i> , 2015, 55, 083014.	3.5	16
11	Overview of recent physics results from MAST. <i>Nuclear Fusion</i> , 2017, 57, 102007.	3.5	16
12	Recent progress of magnetic reconnection research in the MAST spherical tokamak. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	15
13	A LABORATORY EXPERIMENT OF MAGNETIC RECONNECTION: OUTFLOWS, HEATING, AND WAVES IN CHROMOSPHERIC JETS. <i>Astrophysical Journal</i> , 2012, 756, 152.	4.5	14
14	Charge dependence of neoclassical and turbulent transport of light impurities on MAST. <i>Plasma Physics and Controlled Fusion</i> , 2015, 57, 095001.	2.1	14
15	Reconnection heating experiments and simulations for torus plasma merging start-up. <i>Nuclear Fusion</i> , 2019, 59, 076025.	3.5	13
16	Localized electron heating during magnetic reconnection in MAST. <i>Nuclear Fusion</i> , 2016, 56, 106019.	3.5	12
17	Dependence of the pickup-like ion effective heating on the poloidal and toroidal magnetic fields during magnetic reconnection. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	12
18	Two Dimensional Imaging Measurement of Magnetic Reconnection Outflow in the TS-4 Toroidal Plasma Merging Experiment. <i>Plasma and Fusion Research</i> , 2013, 8, 2405088-2405088.	0.7	10

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Effective Proton Heating through Collisionless Driven Reconnection in the Presence of Guide Field. Plasma and Fusion Research, 2018, 13, 3401025-3401025.	0.7	5
24	Vector and Scalar Tomography of Compact Toroid Plasmas. Journal of Fusion Energy, 2010, 29, 592-595.	1.2	4
25	Low Frequency Magnetic Fluctuations during Magnetic Reconnection in Laboratory Experiment. Plasma and Fusion Research, 2011, 6, 1201127-1201127.	0.7	4
26	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
27	Two-dimensional resistive MHD simulation of the optimized plasma formation in the spherical tokamaks. Nuclear Fusion, 2021, 61, 066001.	3.5	3
28	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
29	Global ion heating/transport during merging spherical tokamak formation. Nuclear Fusion, 2021, 61, 106027.	3.5	3
30	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
31	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
32	Separated Double-Current Layers in a High-Guide-Field Reconnection Experiment. Plasma and Fusion Research, 2017, 12, 1202033-1202033.	0.7	1
33	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
34	Global Ion Heating during ST Merging Driven by High Guide Field Reconnection. Plasma and Fusion Research, 2021, 16, 2402068-2402068.	0.7	1
35	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
36	Control of electron acceleration process during merging start-up of spherical tokamak. Nuclear Fusion, 0, , .	3.5	1

#	ARTICLE	IF	CITATIONS
37	2015, 22, 055708.	1.9	1
38	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
39	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
40	Research on Fatty Abrasive of Alumina. Journal of the Ceramic Association Japan, 1954, 62, 48-52.	0.2	0
41	Research on Spinel Pigments. Journal of the Ceramic Association Japan, 1954, 62, 191-196.	0.2	0
42	Research on Artificial Emery. Journal of the Ceramic Association Japan, 1954, 62, 208-212.	0.2	0
43	Low-frequency Magnetic Fluctuation Measurement during Magnetic Reconnection in Counter-helicity Plasma Merging Experiment. Electrical Engineering in Japan (English Translation of Denki Gakkai) TJ ETQq1 1 0.784314 rgBT /@verlock	0.2	0
44	Plasma heating and current sheet structure in anti-parallel magnetic reconnection. Physics of Plasmas, 2021, 28, 072101.	1.9	0
45	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
46	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
47	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
48	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
49	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
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