Mieko Toida

List of Publications by Year
in descending order

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40 papers	234 citations	1307594 7 h-index	1058476 14 g-index
40 all docs	40 docs citations	40 times ranked	59 citing authors

#	Article	IF	Citations
1	SIMULATION STUDIES OF ACCELERATION OF HEAVY IONS AND THEIR ELEMENTAL COMPOSITIONS. Solar Physics, 1997, 171, 161-175.	2.5	44
2	KdV Equations for High- and Low-Frequency Magnetosonic Waves in a Multi-Ion Plasma. Journal of the Physical Society of Japan, 1994, 63, 573-582.	1.6	31
3	Heavy Ion Acceleration by Nonlinear Magnetosonic Waves in a Two-Ion-Species Plasma. Journal of the Physical Society of Japan, 1995, 64, 2036-2046.	1.6	28
4	Simulation studies of nonlinear magnetosonic waves in a twoâ€ionâ€species plasma. Physics of Plasmas, 1995, 2, 3329-3334.	1.9	21
5	Damping of perpendicular magnetosonic pulses in a two-ion-species plasma. Physics of Plasmas, 1998, 5, 1298-1304.	1.9	16
6	Effect of Ion Composition on Magnetosonic Waves. Journal of the Physical Society of Japan, 2007, 76, 104502.	1.6	7
7	Multidimensional effects on relativistic electrons in an oblique shock wave. Physics of Plasmas, 2010, 17, 082316.	1.9	7
8	RF Wave Detection with High-Frequency Magnetic Probes in LHD. Plasma and Fusion Research, 2018, 13, 3402043-3402043.	0.7	7
9	Collective behavior of ion Bernstein waves in a multi-ion-species plasma. Physics of Plasmas, 2004, 11, 3028-3034.	1.9	6
10	Simulation Study of High-Frequency Magnetosonic Waves Excited by Energetic Ions in Association with Ion Cyclotron Emission. Plasma and Fusion Research, 2018, 13, 3403015-3403015.	0.7	6
11	Effect of ion composition on ion acceleration by magnetosonic shock waves. Physics of Plasmas, 2008, 15, 092305.	1.9	5
12	Effects of trapped electrons on ion reflection in an oblique shock wave. Physics of Plasmas, 2015, 22, .	1.9	5
13	Simulation Study of Energetic Ion Driven Instabilities near the Lower Hybrid Resonance Frequency in a Plasma with Increasing Density. Plasma and Fusion Research, 2019, 14, 3401112-3401112.	0.7	5
14	First observation and interpretation of spontaneous collective radiation from fusion-born ions in a stellarator plasma. Plasma Physics and Controlled Fusion, 2022, 64, 085008.	2.1	5
15	Energy Transfer to Heavy Ions by Nonlinear Evolution of Current-Driven Instabilities in a Multi-Ion-Species Plasma. Journal of the Physical Society of Japan, 2001, 70, 3285-3290.	1.6	4
16	Effects of trapped electrons on electromagnetic fields in an oblique shock wave. Physics of Plasmas, 2009, 16, 112305.	1.9	4
17	Parameteric studies of nonlinear oblique magnetosonic waves in two-ion-species plasmas. Physics of Plasmas, 2011, 18, 062303.	1.9	4
18	Collisionless Damping of Low-Frequency Magnetosonic Pulses in a Two-Ion-Species Plasma. Journal of the Physical Society of Japan, 1999, 68, 2157-2160.	1.6	3

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19	Simulation studies of energy transfer to heavy ions by strong current-driven instabilities. Physics of Plasmas, 2002, 9, 2541-2548.	1.9	3
20	Damping of magnetohydrodynamic disturbances in multi-ion-species plasmas. Physics of Plasmas, 2006, 13, 042302.	1.9	3
21	Effects of Electromagnetic Fluctuations along Shock Front on Electron Motions in an Oblique Shock Wave. Journal of the Physical Society of Japan, 2012, 81, 084502.	1.6	3
22	Finite beta effects on low- and high-frequency magnetosonic waves in a two-ion-species plasma. Physics of Plasmas, 2013, 20, 082301.	1.9	3
23	PIC Simulation of Energetic-ion Injection Effects on Nonlinear Development of Lower Hybrid Wave Instabilities. Journal of the Physical Society of Japan, 2021, 90, .	1.6	3
24	Detrapping of Energetic Electrons from Curved Shock Front. Journal of the Physical Society of Japan, 2008, 77, 084501.	1.6	2
25	Shock formation processes due to interactions of two plasmas in a magnetic field and modified two-stream instabilities. Physics of Plasmas, 2013, 20, 112302.	1.9	2
26	Theory for Finite Temperature Effects on Magnetosonic Waves in a Two-Ion-Species Plasma. Plasma and Fusion Research, 2013, 8, 2401018-2401018.	0.7	2
27	The maximum energy of 3He ions accelerated by current-driven instabilities. Physics of Plasmas, 2004, 11, 1622-1630.	1.9	1
28	A theoretical study for parallel electric field in nonlinear magnetosonic waves in three-component plasmas. Physics of Plasmas, 2016, 23, 072115.	1.9	1
29	Nonlinear Development of Current-driven Instabilities and3He Rich Events in Solar Flares. Journal of the Physical Society of Japan, 2003, 72, 1098-1106.	1.6	1
30	Multi-Ion-Species Effects on Power Spectra and Autocorrelation Functions of Ion Bernstein Waves. Journal of Plasma and Fusion Research, 2003, 79, 549-550.	0.4	1
31	Simulation Studies of Detrapping of Ultrarelativistic Electrons from an Oblique Shock Wave due to Multidimensional Fluctuations. Plasma and Fusion Research, 2013, 8, 2401031-2401031.	0.7	1
32	Multi-ion-species effects on low-frequency electromagnetic fluctuations and energy transport. Journal of Plasma Physics, 2006, 72, 895.	2.1	0
33	Effect of Ion Composition on Oblique Magnetosonic Waves. Plasma and Fusion Research, 2011, 6, 2401026-2401026.	0.7	0
34	Parametric Studies of Ultrarelativistic Electron Acceleration by an Oblique Shock Wave. Plasma and Fusion Research, 2014, 9, 3401026-3401026.	0.7	0
35	Simulation Studies of Shock Formation due to Interactions of Two Plasmas in a Magnetic Field and Modified Two-Stream Instabilities. Plasma and Fusion Research, 2015, 9, 3401035-3401035.	0.7	0
36	Simulation Study of Trapped Electron Effects on Positron Acceleration by a Shock Wave in an Electronâ€“Ionâ€“Positron Plasma. Journal of the Physical Society of Japan, 2021, 90, 014501.	1.6	0

#	Article	IF	Citations
37	Detrapping Mechanism of Ultrarelativistic Electrons from an Oblique Shock Wave. Plasma and Fusion Research, 2010, 5, S2064-S2064.	0.7	0
38	Repeated Acceleration of Thermal Ions by an Oblique Shock Wave and Associated Whistler Instabilities. Plasma and Fusion Research, 2010, 5, S2065-S2065.	0.7	0
39	Formation of Forward and Reverse Shock Waves in a Magnetized Plasma: Two-Dimensional Particle Simulations. Plasma and Fusion Research, 2013, 8, 2401155-2401155.	0.7	0
40	Theory and simulations of field strengths in magnetosonic shock waves in finite beta plasmas. Physics of Plasmas, 2022, 29, 042302.	1.9	0