

Akio Sanpei

List of Publications by Year in descending order

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50
papers

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docs citations

50
times ranked

99
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Initial Low-Aspect Ratio RFP Plasmas in RELAX, Journal of the Physical Society of Japan, 2007, 76, 123501.	1.6	46
2	Tangential soft-x ray imaging for three-dimensional structural studies in a reversed field pinch. Review of Scientific Instruments, 2010, 81, 073502.	1.3	22
3	Experimental verification of nonconstant potential and density on magnetic surfaces of helical nonneutral plasmas. Physics of Plasmas, 2007, 14, 022507.	1.9	21
4	Extended operational regimes and MHD behavior in a low-aspect-ratio reversed field pinch in RELAX. Plasma Physics and Controlled Fusion, 2011, 53, 025003.	2.1	15
5	Applicability of micro-channel plate followed by phosphor screen to charged particles. Review of Scientific Instruments, 2016, 87, 063306.	1.3	15
6	2D electron temperature diagnostic using soft x-ray imaging technique. Review of Scientific Instruments, 2014, 85, 033502.	1.3	14
7	Observation of Large-Scale Profile Change of Magnetic Field in a Low-Aspect Ratio Reversed Field Pinch. Journal of the Physical Society of Japan, 2008, 77, 075005.	1.6	12
8	Equilibrium Reconstruction and Estimation of Neoclassical Effect in Low-Aspect-Ratio Reversed Field Pinch Experiments on RELAX. Journal of the Physical Society of Japan, 2009, 78, 013501.	1.6	11
9	Initial Results on Simultaneous Confinement of Pure Lithium Ion and Electron Plasmas. Plasma and Fusion Research, 2013, 8, 2401017-2401017.	0.7	11
10	Characterization of Quasi-Single-Helicity States in a Low-Aspect-Ratio RFP. Plasma and Fusion Research, 2012, 7, 1402028-1402028.	0.7	10
11	Dependence of Properties of Quasi-Single-Helicity States on Field Reversal Parameter in a Low-Aspect-Ratio Reversed Field Pinch. Fusion Science and Technology, 2013, 63, 386-388.	1.1	8
12	Mie-Scattering Ellipsometry System for Analysis of Dust Formation Process in Large Plasma Device. IEEE Transactions on Plasma Science, 2016, 44, 1032-1035.	1.3	8
13	Levitation of Microorganisms in the Sheath of an RF Plasma. IEEE Transactions on Plasma Science, 2018, 46, 718-722.	1.3	8
14	Not Only Independently Producing but Simultaneously Confining of Lithium and Electron Plasmas. Plasma and Fusion Research, 2013, 8, 1201003-1201003.	0.7	8
15	Phase Locking and Unlocking Associated with Transition to Quasi-Single Helicity State in the RELAX Reversed-Field Pinch. Journal of the Physical Society of Japan, 2012, 81, 115001.	1.6	7
16	A prototype diagnostics system to detect ultraviolet emission for plasma turbulence. Review of Scientific Instruments, 2014, 85, 113502.	1.3	7
17	Initial Result of 3-D Reconstruction of Dusty Plasma Through Integral Photography Technique. IEEE Transactions on Plasma Science, 2016, 44, 558-561.	1.3	7
18	Observation of Helical Structure by Imaging Diagnostics in a Low-Aspect-Ratio Reversed Field Pinch. Journal of the Physical Society of Japan, 2011, 80, 114501.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Density Regimes of Low-Aspect-Ratio RFP Plasmas in RELAX. Plasma and Fusion Research, 2010, 5, S2061-S2061.	0.7	7
20	Design of an open-ended plenoptic camera for three-dimensional imaging of dusty plasmas. Japanese Journal of Applied Physics, 2017, 56, 080305.	1.5	6
21	Two-dimensional macroscopic shapes of lithium ion and electron plasmas after elapse of two-fluid plasma state. AIP Conference Proceedings, 2018, , .	0.4	6
22	Counter differential rigid-rotation equilibrium of electrically non-neutral two-fluid plasma with finite pressure. Journal of Plasma Physics, 2021, 87, .	2.1	6
23	Design of Soft-X Ray Imaging System for Magnetic Islands of RFP Plasmas. Plasma and Fusion Research, 2007, 2, S1064-S1064.	0.7	6
24	First Observation of Crystallike Configuration of Microorganisms in an RF Plasma. IEEE Transactions on Plasma Science, 2019, 47, 3074-3078.	1.3	5
25	Tangential Image of Helical SXR Emissivity Structure in Low-Aspect-Ratio RFP. IEEE Transactions on Plasma Science, 2011, 39, 2410-2411.	1.3	4
26	Features of the Electron-Temperature Distribution in a Low-Aspect-Ratio Reversed Field Pinch Plasmas. Journal of the Physical Society of Japan, 2017, 86, 063501.	1.6	4
27	A Data-Assimilation Based Method for Equilibrium Reconstruction of Magnetic Fusion Plasma and its Application to Reversed Field Pinch. IEEE Access, 2021, 9, 74739-74751.	4.2	4
28	Electron Temperature Measurement by Thomson Scattering in a Low-Aspect-Ratio RFP RELAX. Plasma and Fusion Research, 2014, 9, 1302009-1302009.	0.7	4
29	Multiple-pinhole camera for monitoring three-dimensional plasma shape. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1036, 166857.	1.6	4
30	Observation of macroscopic stability of weakly magnetized Li ⁺ ion beams near the Brillouin density limit. AIP Conference Proceedings, 2018, , .	0.4	3
31	Relaxation models for single helical reversed field pinch plasmas at low aspect ratio. Physics of Plasmas, 2018, 25, 072507.	1.9	3
32	Identification of Pollens From Polymer Particles Levitating in an RF Plasma by the Polarization Imaging Method. IEEE Transactions on Plasma Science, 2021, 49, 2967-2971.	1.3	3
33	Controlling the Diameter of a Pure Electron Plasma to Produce an Exact Two-Fluid Plasma State in a Nested Trap. Plasma and Fusion Research, 2019, 14, 1201039-1201039.	0.7	3
34	Development of Phosphor Screen Having "Gridded Energy Analyzer" for Two-Fluid Nonneutral Plasma Experiments. Plasma and Fusion Research, 2007, 2, S1127-S1127.	0.7	2
35	Formation Process of Non-Neutral Plasmas by Multiple Electron Beams on BX-U. , 2014, , .		2
36	Removal of ghost particles from the reconstruction of dusty plasma in integral photography by three-dimensional deconvolution. Optics Express, 2020, 28, 37743.	3.4	2

#	ARTICLE	IF	CITATIONS
37	Hot electron plasmas trapped in helical magnetic surfaces. <i>Hyperfine Interactions</i> , 2007, 174, 83-88.	0.5	1
38	Improvement of confinement times of lithium ion and electron plasmas in BX-U. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
39	Phase space analysis for dynamics of three vortices of pure electron plasma trapped with Penning trap. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
40	Collection of microorganisms levitating in a radio-frequency discharge. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 046002.	1.5	1
41	Electron Current Measurement of Helical Nonneutral Plasmas for Investigating Plasma Disruption Observed in CHS Experiments. <i>Plasma and Fusion Research</i> , 2007, 2, S1089-S1089.	0.7	1
42	Effects of Rotating Electric Field on Simultaneous Confinement of Lithium and Electron Plasmas. , 2014, , .		1
43	Analysis of Orbital $E \times B$ Rotation of Non-Neutral Plasmas Formed in BX-U. , 2014, , .		1
44	Feasibility of Growth of ZnO Cluster in Penning Trap. , 2014, , .		1
45	Recent Results of Helical Nonneutral Plasmas on Compact Helical System (CHS). <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
46	Probing of Toroidal Electron Plasmas Confined on Helical Magnetic Surfaces. <i>Plasma and Fusion Research</i> , 2007, 2, S1093-S1093.	0.7	0
47	Measurement and Evaluation of 3-D Structure in Low-Aspect-Ratio RFP RELAX with Dual SXR Imaging System. , 2014, , .		0
48	Repeatable Intense Beam Generation of Micro-Particles Attached with 10^{7-8} Electrons. <i>Plasma and Fusion Research</i> , 2018, 13, 1406042-1406042.	0.7	0
49	Integral Photography Technique for Three-Dimensional Imaging of Dusty Plasmas. , 0, , .		0
50	Three-dimensional imaging diagnostics for plasmas with integral photography and deconvolution techniques. , 2020, , .		0