

Akio Sanpei

List of Publications by Year in descending order

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papers

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citations

1040056

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all docs

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docs citations

50
times ranked

99
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Collection of microorganisms levitating in a radio-frequency discharge. Japanese Journal of Applied Physics, 2021, 60, 046002.	1.5	1
4	Counter differential rigid-rotation equilibrium of electrically non-neutral two-fluid plasma with finite pressure. Journal of Plasma Physics, 2021, 87, .	2.1	6
5	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
6	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
7	Three-dimensional imaging diagnostics for plasmas with integral photography and deconvolution techniques. , 2020, , .		0
8	First Observation of Crystallike Configuration of Microorganisms in an RF Plasma. IEEE Transactions on Plasma Science, 2019, 47, 3074-3078.	1.3	5
9	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
10	Observation of macroscopic stability of weakly magnetized Li ⁺ ion beams near the Brillouin density limit. AIP Conference Proceedings, 2018, , .	0.4	3
11	Levitation of Microorganisms in the Sheath of an RF Plasma. IEEE Transactions on Plasma Science, 2018, 46, 718-722.	1.3	8
12	Two-dimensional macroscopic shapes of lithium ion and electron plasmas after elapse of two-fluid plasma state. AIP Conference Proceedings, 2018, , .	0.4	6
13	Relaxation models for single helical reversed field pinch plasmas at low aspect ratio. Physics of Plasmas, 2018, 25, 072507.	1.9	3
14	Repeatable Intense Beam Generation of Micro-Particles Attached with 10^{7-8} Electrons. Plasma and Fusion Research, 2018, 13, 1406042-1406042.	0.7	0
15	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
16	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
17	Applicability of micro-channel plate followed by phosphor screen to charged particles. Review of Scientific Instruments, 2016, 87, 063306.	1.3	15
18	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

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19	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
20	Improvement of confinement times of lithium ion and electron plasmas in BX-U. AIP Conference Proceedings, 2015, , .	0.4	1
21	Phase space analysis for dynamics of three vortices of pure electron plasma trapped with Penning trap. AIP Conference Proceedings, 2015, , .	0.4	1
22	A prototype diagnostics system to detect ultraviolet emission for plasma turbulence. Review of Scientific Instruments, 2014, 85, 113502.	1.3	7
23	2D electron temperature diagnostic using soft x-ray imaging technique. Review of Scientific Instruments, 2014, 85, 033502.	1.3	14
24	Formation Process of Non-Neutral Plasmas by Multiple Electron Beams on BX-U. , 2014, , .		2
25	Effects of Rotating Electric Field on Simultaneous Confinement of Lithium and Electron Plasmas. , 2014, , .		1
26	Analysis of Orbital $E \times B$ Rotation of Non-Neutral Plasmas Formed in BX-U. , 2014, , .		1
27	Feasibility of Growth of ZnO Cluster in Penning Trap. , 2014, , .		1
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	Measurement and Evaluation of 3-D Structure in Low-Aspect-Ratio RFP RELAX with Dual SXR Imaging System. , 2014, , .		0
30	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
31	Not Only Independently Producing but Simultaneously Confining of Lithium and Electron Plasmas. Plasma and Fusion Research, 2013, 8, 1201003-1201003.	0.7	8
32	Initial Results on Simultaneous Confinement of Pure Lithium Ion and Electron Plasmas. Plasma and Fusion Research, 2013, 8, 2401017-2401017.	0.7	11
33	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
34	Characterization of Quasi-Single-Helicity States in a Low-Aspect-Ratio RFP. Plasma and Fusion Research, 2012, 7, 1402028-1402028.	0.7	10
35	Tangential Image of Helical SXR Emissivity Structure in Low-Aspect-Ratio RFP. IEEE Transactions on Plasma Science, 2011, 39, 2410-2411.	1.3	4
36	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

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37	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
38	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
39	Density Regimes of Low-Aspect-Ratio RFP Plasmas in RELAX. Plasma and Fusion Research, 2010, 5, S2061-S2061.	0.7	7
40	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
41	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
42	Experimental verification of nonconstant potential and density on magnetic surfaces of helical nonneutral plasmas. Physics of Plasmas, 2007, 14, 022507.	1.9	21
43	Hot electron plasmas trapped in helical magnetic surfaces. Hyperfine Interactions, 2007, 174, 83-88.	0.5	1
44	Characterization of Initial Low-Aspect Ratio RFP Plasmas in "RELAX". Journal of the Physical Society of Japan, 2007, 76, 123501.	1.6	46
45	Design of Soft-X Ray Imaging System for Magnetic Islands of RFP Plasmas. Plasma and Fusion Research, 2007, 2, S1064-S1064.	0.7	6
46	Electron Current Measurement of Helical Nonneutral Plasmas for Investigating Plasma Disruption Observed in CHS Experiments. Plasma and Fusion Research, 2007, 2, S1089-S1089.	0.7	1
47	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
48	Probing of Toroidal Electron Plasmas Confined on Helical Magnetic Surfaces. Plasma and Fusion Research, 2007, 2, S1093-S1093.	0.7	0
49	Recent Results of Helical Nonneutral Plasmas on Compact Helical System (CHS). AIP Conference Proceedings, 2006, , .	0.4	0
50	Integral Photography Technique for Three-Dimensional Imaging of Dusty Plasmas. , 0, , .		0