

Jonathan Krall

List of Publications by Year in descending order

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111
papers

6,698
citations

66234

42
h-index

62479

80
g-index

119
all docs

119
docs citations

119
times ranked

3808
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of the Thermosphere on Ionosphere Outflows. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	0
2	The Effect of Midnight Temperature Maximum Winds on Post-Midnight Equatorial Spread F. <i>Space Weather</i> , 2021, 19, e2021SW002728.	1.3	4
3	Counterstreaming Cold H ⁺ , He ⁺ , O ⁺ , and N ⁺ Outflows in the Plasmasphere. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	3
4	Does Ring Current Heating Generate the Observed O ⁺ Shell?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088419.	1.5	3
5	Modeling the Impact of Metallic Ion Layers on Equatorial Spread With SAMI3/ESF. <i>Geophysical Research Letters</i> , 2020, 47, no.	1.5	8
6	SAMI3 Simulations of Ionospheric Metallic Layers at Arecibo. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027297.	0.8	11
7	Global Ionospheric Metal Ion Transport With SAMI3. <i>Geophysical Research Letters</i> , 2019, 46, 7937-7944.	1.5	27
8	The Effect of Oxygen on the Limiting H ⁺ Flux in the Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4509-4517.	0.8	5
9	Simulation of Counterstreaming H ⁺ Outflows During Plasmasphere Refilling. <i>Geophysical Research Letters</i> , 2019, 46, 3052-3060.	1.5	6
10	SAMI3 Simulations of a Persistent Plasmasphere Plume. <i>Geophysical Research Letters</i> , 2018, 45, 3374-3381.	1.5	9
11	The Unknown Hydrogen Exosphere: Space Weather Implications. <i>Space Weather</i> , 2018, 16, 205-215.	1.3	20
12	Erosion of the plasmasphere during a storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9320-9328.	0.8	9
13	Day-to-day variability in the thermosphere and its impact on plasmasphere refilling. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6889-6900.	0.8	9
14	The plasmasphere electron content paradox. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8924-8935.	0.8	9
15	Measurement and modeling of the refilling plasmasphere during 2001. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2226-2248.	0.8	13
16	Seeding equatorial spread F with turbulent gravity waves: Phasing effects. <i>Geophysical Research Letters</i> , 2015, 42, 15-21.	1.5	13
17	Nonmigrating tidal signature in the distributions of equatorial plasma bubbles and prereversal enhancement. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3254-3262.	0.8	10
18	Ionized Plasma and Neutral Gas Coupling in the Sun's Chromosphere and Earth's Ionosphere/Thermosphere. <i>Space Science Reviews</i> , 2014, 184, 107-172.	3.7	58

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19	The effect of the thermosphere on quiet time plasmasphere morphology. Journal of Geophysical Research: Space Physics, 2014, 119, 5032-5048.	0.8	17
20	Radio-tomographic images of postmidnight equatorial plasma depletions. Geophysical Research Letters, 2014, 41, 13-19.	1.5	12
21	Modeling the plasmasphere with SAMI3. Geophysical Research Letters, 2013, 40, 6-10.	1.5	67
22	SAMI3 simulation of plasmasphere refilling. Geophysical Research Letters, 2013, 40, 2484-2488.	1.5	22
23	Impact of meridional winds on equatorial spread F : Revisited. Geophysical Research Letters, 2013, 40, 1268-1272.	1.5	63
24	On the seeding of equatorial spread F by gravity waves. Geophysical Research Letters, 2013, 40, 661-664.	1.5	52
25	Simulation of the seeding of equatorial spread F by circular gravity waves. Geophysical Research Letters, 2013, 40, 1-5.	1.5	324
26	Estimating the effects of ionospheric plasma on solar wind/magnetosphere coupling via mass loading of dayside reconnection: Ion-plasma-sheet oxygen, plasmaspheric drainage plumes, and the plasma cloak. Journal of Geophysical Research: Space Physics, 2013, 118, 5695-5719.	0.8	63
27	Modeling of equatorial plasma bubbles triggered by non-equatorial traveling ionospheric disturbances. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	45
28	Three-Dimensional Modeling of Equatorial Spread F , 2011, , 211-218.		4
29	Density enhancements associated with equatorial spread F . Annales Geophysicae, 2010, 28, 327-337.	0.6	46
30	Exploiting Laboratory and Heliophysics Plasma Synergies. Energies, 2010, 3, 1014-1048.	1.6	2
31	Equatorial spread F fossil plumes. Annales Geophysicae, 2010, 28, 2059-2069.	0.6	14
32	Self-consistent modeling of equatorial dawn density depletions with SAMI3. Geophysical Research Letters, 2010, 37, .	1.5	29
33	Why do equatorial ionospheric bubbles stop rising?. Geophysical Research Letters, 2010, 37, .	1.5	55
34	Correction to "Self-consistent modeling of equatorial dawn density depletions with SAMI3". Geophysical Research Letters, 2010, 37, .	1.5	4
35	Equinoctial asymmetry of a low-latitude ionosphere-thermosphere system and equatorial irregularities: evidence for meridional wind control. Annales Geophysicae, 2009, 27, 2027-2034.	0.6	52
36	Three-dimensional simulation of equatorial spread- F with meridional wind effects. Annales Geophysicae, 2009, 27, 1821-1830.	0.6	58

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37	Geospace imaging using Thomson scattering. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 132-142.	0.6	2
38	On the Origin, 3D Structure and Dynamic Evolution of CMEs Near Solar Minimum. <i>Solar Physics</i> , 2009, 259, 143-161.	1.0	28
39	Atomic and molecular ion dynamics during equatorial spread F_{min} . <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	29
40	Three-dimensional modeling of equatorial spread F_{min} airglow enhancements. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	36
41	Ion and electron temperature evolution during equatorial spread F_{min} . <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	35
42	Three-dimensional equatorial spread F_{min} modeling: Zonal neutral wind effects. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	62
43	Day-to-day variability of the equatorial ionization anomaly and scintillations at dusk observed by GUVI and modeling by SAMI3. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	54
44	Three-dimensional equatorial spread F_{min} modeling. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	196
45	Simulation of field-aligned H^+ and He^+ dynamics during late-stage plasmasphere refilling. <i>Annales Geophysicae</i> , 2008, 26, 1507-1516.	0.6	23
46	Are All Coronal Mass Ejections Hollow Flux Ropes?. <i>Astrophysical Journal</i> , 2007, 657, 559-566.	1.6	34
47	Analysis of Erupting Solar Prominences in Terms of an Underlying Flux-Rope Configuration. <i>Astrophysical Journal</i> , 2007, 663, 1354-1362.	1.6	8
48	Orientations of LASCO Halo CMEs and their connection to the flux rope structure of interplanetary CMEs. <i>Advances in Space Research</i> , 2007, 40, 1821-1826.	1.2	39
49	Flux Rope Model of the 2003 October 28-30 Coronal Mass Ejection and Interplanetary Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2006, 642, 541-553.	1.6	37
50	The Flux-Rope Scaling of the Acceleration of Coronal Mass Ejections and Eruptive Prominences. <i>Astrophysical Journal</i> , 2006, 649, 452-463.	1.6	43
51	Flux-Rope Coronal Mass Ejection Geometry and Its Relation to Observed Morphology. <i>Astrophysical Journal</i> , 2006, 652, 1740-1746.	1.6	48
52	The May 13, 2005 Eruption: Observations, Data Analysis and Interpretation. <i>Solar Physics</i> , 2006, 239, 317-335.	1.0	43
53	Density Structure of a Preeruption Coronal Flux Rope. <i>Astrophysical Journal</i> , 2005, 628, 1046-1055.	1.6	18
54	Acceleration of coronal mass ejections. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	130

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55	Erupting Solar Magnetic Flux Ropes: Theory and Observation. <i>Astrophysical Journal</i> , 2001, 562, 1045-1057.	1.6	79
56	Drive Mechanisms of Erupting Solar Magnetic Flux Ropes. <i>Astrophysical Journal</i> , 2000, 539, 964-982.	1.6	72
57	Magnetic Geometry and Dynamics of the Fast Coronal Mass Ejection of 1997 September 9. <i>Astrophysical Journal</i> , 2000, 533, 481-500.	1.6	94
58	Simulation of Buoyant Flux Ropes in a Magnetized Solar Atmosphere. <i>Astrophysical Journal</i> , 1998, 500, 992-1002.	1.6	19
59	Vacuum beat wave acceleration. <i>Physical Review E</i> , 1997, 55, 5924-5933.	0.8	61
60	Self-focusing and guiding of short laser pulses in ionizing gases and plasmas. <i>IEEE Journal of Quantum Electronics</i> , 1997, 33, 1879-1914.	1.0	419
61	Laser driven acceleration in vacuum and gases. , 1997, , .		0
62	Evidence of an Erupting Magnetic Flux Rope: LASCO Coronal Mass Ejection of 1997 April 13. <i>Astrophysical Journal</i> , 1997, 490, L191-L194.	1.6	221
63	Optical guiding of high-intensity laser pulses in a long plasma channel formed by a slow capillary discharge. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 68.	0.9	74
64	Overview of plasma-based accelerator concepts. <i>IEEE Transactions on Plasma Science</i> , 1996, 24, 252-288.	0.6	1,105
65	Guiding of High Intensity Laser Pulses in Straight and Curved Plasma Channel Experiments. <i>Physical Review Letters</i> , 1996, 77, 4186-4189.	2.9	295
66	Pulse propagation in the laser wakefield accelerator. <i>AIP Conference Proceedings</i> , 1996, , .	0.3	0
67	Vacuum laser acceleration. <i>Optics Communications</i> , 1996, 124, 69-73.	1.0	59
68	Laser driven electron acceleration in vacuum, gases, and plasmas. <i>Physics of Plasmas</i> , 1996, 3, 2183-2190.	0.7	173
69	Temporal Evolution of Self-Modulated Laser Wakefields Measured by Coherent Thomson Scattering. <i>Physical Review Letters</i> , 1996, 77, 5377-5380.	2.9	77
70	Self-guiding and stability of intense optical beams in gases undergoing ionization. <i>Physical Review E</i> , 1996, 54, 4211-4232.	0.8	95
71	Control of emittance growth due to mismatches in accelerators that use stellarator transport. <i>Journal of Applied Physics</i> , 1995, 77, 463-473.	1.1	5
72	Observation of 20 eV x-ray generation in a proof-of-principle laser synchrotron source experiment. <i>Journal of Applied Physics</i> , 1995, 78, 575-577.	1.1	34

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73	Transverse equilibrium and stability of the primary beam in the plasma wakefield accelerator. Physics of Plasmas, 1995, 2, 1326-1331.	0.7	47
74	Laser acceleration of electrons in vacuum. Physical Review E, 1995, 52, 5443-5453.	0.8	278
75	Theory and group velocity of ultrashort, tightly focused laser pulses. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1695.	0.9	76
76	ELBA (electron beams in accelerators) particle simulation code. Laser and Particle Beams, 1994, 12, 273-282.	0.4	7
77	Propagation of radius-tailored laser pulses over extended distances in a uniform plasma*. Physics of Plasmas, 1994, 1, 1738-1743.	0.7	38
78	Hose-Modulation Instability of Laser Pulses in Plasmas. Physical Review Letters, 1994, 73, 3544-3547.	2.9	107
79	Envelope analysis of intense laser pulse self-modulation in plasmas. Physical Review Letters, 1994, 72, 2887-2890.	2.9	186
80	RF convertor simulation-imposition of the radiation condition. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 335-346.	0.6	0
81	Optically guided laser wakefield acceleration*. Physics of Fluids B, 1993, 5, 2690-2697.	1.7	118
82	Enhanced acceleration in a self-modulated-laser wake-field accelerator. Physical Review E, 1993, 48, 2157-2161.	0.8	150
83	<title>Intense laser pulse propagation, optical guiding, and wakefield generation in plasma</title>. , 1992, , .		0
84	Theory of electromagnetic instability of an intense beam in a quadrupole focusing system. Physical Review A, 1992, 45, 7492-7499.	1.0	1
85	Numerical simulation of the electromagnetic instability of an intense beam in a quadrupole focusing system. Physical Review A, 1992, 46, 6750-6753.	1.0	0
86	Electron acceleration and optical guiding in the laser wakefield accelerator. AIP Conference Proceedings, 1992, , .	0.3	0
87	<title>rf converter simulation: imposition of the radiation condition</title>. , 1992, , .		0
88	Simulation studies of a klystronlike amplifier operating in the 10-100 GW regime. IEEE Transactions on Electromagnetic Compatibility, 1992, 34, 222-228.	1.4	11
89	Propagation and guiding of intense laser pulses in plasmas. Physical Review Letters, 1992, 69, 2200-2203.	2.9	406
90	Numerical simulation of a 450 MeV single-stage laser wakefield accelerator. AIP Conference Proceedings, 1992, , .	0.3	1

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91	Vlasov simulations of very-large-amplitude-wave generation in the plasma wake-field accelerator. Physical Review A, 1991, 44, 6854-6861.	1.0	20
92	<title>Relativistic klystron amplifier IV: simulation studies of a coaxial-geometry RKA</title>. , 1991, 1407, 23.		7
93	Stability regimes in a helical quadrupole focusing accelerator~theory and simulation. Physics of Fluids B, 1991, 3, 204-211.	1.7	5
94	Kinetic stabilization of interchange modes in an axisymmetric mirror by large orbit radius thermal ions. Physics of Fluids B, 1991, 3, 1015-1025.	1.7	3
95	Beam dynamics in the spiral line induction accelerator. , 1991, , .		0
96	ELBA-a laser-plasma simulation code. , 1990, , .		0
97	Relativistic klystron amplifier and its applications. , 1990, , .		1
98	Nonlinear beam loading and dynamical limiting currents in a high power microwave gap. , 1990, , .		0
99	Efficient generation of multigigawatt rf power by a klystronlike amplifier. Review of Scientific Instruments, 1990, 61, 171-181.	0.6	72
100	Relativistic Klystron amplifiers driven by modulated intense relativistic electron beams. IEEE Transactions on Plasma Science, 1990, 18, 553-569.	0.6	62
101	Electron accelerators driven by modulated intense relativistic electron beams. Physical Review Letters, 1989, 63, 2468-2471.	2.9	20
102	On Certain Theoretical Aspects Of Relativistic Klystron Amplifiers. Proceedings of SPIE, 1989, 1061, 48.	0.8	2
103	Numerical simulations of axisymmetric erosion processes in ion~focused regime~transported beams. Physics of Fluids B, 1989, 1, 2099-2105.	1.7	27
104	Operation Of A Multigigawatt Relativistic Klystron Amplifier. , 1989, 1061, 34.		2
105	A Compact Accelerator Powered By The Relativistic Klystron Amplifier. Proceedings of SPIE, 1989, , .	0.8	0
106	Externally modulated intense relativistic electron beams. Journal of Applied Physics, 1988, 64, 3353-3379.	1.1	123
107	Nonlinear space-charge waves on an intense relativistic electron beam. IEEE Transactions on Plasma Science, 1988, 16, 249-257.	0.6	13
108	Modulation of an intense beam by an external microwave source: Theory and simulation. Applied Physics Letters, 1988, 52, 431-433.	1.5	16

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109	Relativistic Klystron Amplifier. Proceedings of SPIE, 1988, , .	0.8	4
110	Stability of an elongated axisymmetric mirror with an energetic axis-encircling ion component. Nuclear Fusion, 1984, 24, 1013-1021.	1.6	2
111	Relativistic Klystron Amplifiers: Simulation Studies Of A Coaxial-geometry RKA. , 0, , .		0