

Nathaniel Fisch

List of Publications by Year in descending order

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Version: 2024-02-01

487
papers

13,684
citations

23500

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38300

95
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496
all docs

496
docs citations

496
times ranked

3326
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Generated Plasma Rotation in a Z-Pinch Implosion with Preembedded Axial Magnetic Field. Physical Review Letters, 2022, 128, 015001.	2.9	10
2	Velocity-space compression from Fermi acceleration with Lorentz scattering. Physical Review E, 2022, 105, 015207.	0.8	1
3	Collective plasma effects of electron-positron pairs in beam-driven QED cascades. Physics of Plasmas, 2022, 29, .	0.7	5
4	Super-resonant four-photon collinear laser frequency multiplication in plasma. Physical Review E, 2022, 105, 045207.	0.8	2
5	Production of high fluence laser beams using ion wave plasma optics. Applied Physics Letters, 2022, 120, 200501.	1.5	3
6	On the stabilisation of locked tearing modes in ITER and other large tokamaks. Nuclear Fusion, 2022, 62, 086044.	1.6	3
7	Momentum conservation in current drive and alpha-channeling-mediated rotation drive. Physics of Plasmas, 2022, 29, .	0.7	6
8	Observation of Self-Generated Plasma Rotation and its Effects in A Z-Pinch With Preembedded Axial Magnetic Field. , 2022, , .		0
9	Study of a Current Loss at A Z-Pinch Stagnation Due to Fast Current Redistribution. , 2022, , .		1
10	Particle deceleration for collective QED signatures. Physics of Plasmas, 2022, 29, .	0.7	4
11	Temperature screening and cross-field impurity accumulation from a thermodynamic perspective. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 447, 128298.	0.9	1
12	MITNS: Multiple-Ion Transport Numerical Solver for magnetized plasmas. Computer Physics Communications, 2021, 258, 107511.	3.0	5
13	Laser-driven plasma sources of intense, ultrafast, and coherent radiation. Physics of Plasmas, 2021, 28, .	0.7	10
14	Suppression of power losses during laser pulse propagation in underdense plasma slab. Physics of Plasmas, 2021, 28, 023112.	0.7	2
15	Plasma physics in strong-field regimes: Theories and simulations. Physics of Plasmas, 2021, 28, .	0.7	10
16	Disruption avoidance via radio frequency current condensation in magnetic islands produced by off-normal events. Physics of Plasmas, 2021, 28, .	0.7	4
17	Two-fluid model of rf current condensation in magnetic islands. Physics of Plasmas, 2021, 28, .	0.7	3
18	Modulation-slippage trade-off in resonant four-wave upconversion. Physics of Plasmas, 2021, 28, 052112.	0.7	3

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19	Trace impurity transport in multi-species plasmas with large particle fluxes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 398, 127284.	0.9	2
20	Coupled heat pulse propagation in two-fluid plasmas. Physical Review E, 2021, 103, 053201.	0.8	0
21	Fusion yield of plasma with velocity-space anisotropy at constant energy. Physics of Plasmas, 2021, 28, .	0.7	6
22	Generalized impurity pinch in partially magnetized multi-ion plasma. Physics of Plasmas, 2021, 28, .	0.7	3
23	Natural hot-ion modes in a rotating plasma. Physical Review E, 2021, 104, 015209.	0.8	8
24	Nonresonant Diffusion in Alpha Channeling. Physical Review Letters, 2021, 127, 025003.	2.9	11
25	Signature of Collective Plasma Effects in Beam-Driven QED Cascades. Physical Review Letters, 2021, 127, 095001.	2.9	13
26	On the merit of hot ion mode for tearing mode stabilization. Physics of Plasmas, 2021, 28, 082509.	0.7	2
27	Generating optical supercontinuum and frequency comb in tenuous plasmas. Matter and Radiation at Extremes, 2021, 6, .	1.5	1
28	Wave-driven torques to drive current and rotation. Physics of Plasmas, 2021, 28, 102506.	0.7	6
29	Driving rotamak currents with minimal power dissipation. Physics of Plasmas, 2021, 28, 122504.	0.7	1
30	Finite-difference multiple fluid solution for source-driven rotation in highly magnetized linear plasma device. Physics of Plasmas, 2021, 28, .	0.7	2
31	Calculating RF current condensation with consistent ray-tracing and island heating. Physics of Plasmas, 2020, 27, .	0.7	5
32	Heat pump via charge incompressibility in a collisional magnetized multi-ion plasma. Physical Review E, 2020, 102, 013212.	0.8	6
33	Preferential turbulence enhancement in two-dimensional compressions. Physical Review E, 2020, 102, 053213.	0.8	2
34	Physics of E _{â€‰% <math>\tilde{A}</math>- â€‰%B discharges relevant to plasma propulsion and similar technologies. Physics of Plasmas, 2020, 27, .}	0.7	89
35	Enhanced tuneable rotatory power in a rotating plasma. Physical Review E, 2020, 102, 051202.	0.8	7
36	Momentum-exchange current drive by electrostatic waves in an unmagnetized collisionless plasma. Physics of Plasmas, 2020, 27, .	0.7	5

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37	Pulsed RF schemes for tearing mode stabilization. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	11
38	Available energy from diffusive and reversible phase space rearrangements. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	6
39	Fluid model for the piezothermal effect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126700.	0.9	2
40	Towards megajoule x-ray lasers via relativistic four-photon cascade in plasma. <i>Physical Review E</i> , 2020, 101, 023211.	0.8	8
41	Maximum-entropy states for magnetized ion transport. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126262.	0.9	5
42	RF current condensation in the presence of turbulent enhanced transport. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	9
43	Generation of localized lower-hybrid current drive by temperature perturbations. <i>Nuclear Fusion</i> , 2020, 60, 096027.	1.6	6
44	Resonant four-photon scattering of collinear laser pulses in plasma. <i>Physical Review E</i> , 2020, 102, 063207.	0.8	5
45	Optical phase conjugation in backward Raman amplification. <i>Optics Letters</i> , 2020, 45, 5254.	1.7	4
46	Magnetogenesis by Wave-driven Momentum Exchange. <i>Astrophysical Journal</i> , 2020, 905, 13.	1.6	5
47	Recovering Gardner restacking with purely diffusive operations. <i>Physical Review E</i> , 2020, 102, 063209.	0.8	6
48	Viscous dissipation in two-dimensional compression of turbulence. <i>Physics of Plasmas</i> , 2019, 26, 082702.	0.7	4
49	Amplification of mid-infrared lasers via backscattering in magnetized plasmas. <i>Physics of Plasmas</i> , 2019, 26, 072114.	0.7	4
50	Radiation in equilibrium with plasma and plasma effects on cosmic microwave background. <i>Physical Review E</i> , 2019, 100, 023202.	0.8	13
51	Spectral Manipulation of Raman Amplifiers. <i>Journal of Physics: Conference Series</i> , 2019, 1206, 012015.	0.3	0
52	Laser Amplification in Strongly Magnetized Plasma. <i>Physical Review Letters</i> , 2019, 123, 025001.	2.9	27
53	Determining the rotation direction in pulsars. <i>Nature Communications</i> , 2019, 10, 3232.	5.8	15
54	Understanding turbulence in compressing plasma as a quasi-EOS. <i>Physics of Plasmas</i> , 2019, 26, 062709.	0.7	5

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55	Radial current and rotation profile tailoring in highly ionized linear plasma devices. Physics of Plasmas, 2019, 26, 082309.	0.7	16
56	Laser frequency upconversion in plasmas with finite ionization rates. Physics of Plasmas, 2019, 26, 083105.	0.7	7
57	RF current condensation in magnetic islands and associated hysteresis phenomena. Physics of Plasmas, 2019, 26, .	0.7	10
58	Creating localized plasma waves by ionization of doped semiconductors. Physical Review E, 2019, 99, 063201.	0.8	2
59	E \times B configurations for high-throughput plasma mass separation: An outlook on possibilities and challenges. Physics of Plasmas, 2019, 26, .	0.7	26
60	Current channel evolution in ideal Z pinch for general velocity profiles. Physics of Plasmas, 2019, 26, .	0.7	5
61	A necessary condition for perpendicular electric field control in magnetized plasmas. Physics of Plasmas, 2019, 26, .	0.7	11
62	Nonlinear ohmic dissipation in axisymmetric DC and RF driven rotating plasmas. Physics of Plasmas, 2019, 26, .	0.7	20
63	Plasma optics for intense laser amplification. , 2019, , .		0
64	Opportunities for plasma separation techniques in rare earth elements recycling. Journal of Cleaner Production, 2018, 182, 1060-1069.	4.6	38
65	Bulk hydrodynamic stability and turbulent saturation in compressing hot spots. Physics of Plasmas, 2018, 25, .	0.7	8
66	Transition between inverse and direct energy cascades in multiscale optical turbulence. Physical Review E, 2018, 97, 032202.	0.8	5
67	Strategies for advantageous differential transport of ions in magnetic fusion devices. Physics of Plasmas, 2018, 25, .	0.7	16
68	Turbulent stagnation in a Z -pinch plasma. Physical Review E, 2018, 97, 013202.	0.8	23
69	Laser-plasma interactions in magnetized environment. Physics of Plasmas, 2018, 25, .	0.7	22
70	Multifrequency Raman amplifiers. Physical Review E, 2018, 97, 033201.	0.8	8
71	Harnessing mass differential confinement effects in magnetized rotating plasmas to address new separation needs. Plasma Physics and Controlled Fusion, 2018, 60, 014018.	0.9	18
72	Backward Raman compression in plasma under nonlinear detuning at plasma wave-breaking threshold. , 2018, , .		0

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73	Anisotropy-driven collisional separation of impurities in magnetized compressing and expanding cylindrical plasmas. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	8
74	Suppression of Tearing Modes by Radio Frequency Current Condensation. <i>Physical Review Letters</i> , 2018, 121, 225001.	2.9	25
75	Favorable Collisional Demixing of Ash and Fuel in Magnetized Inertial Fusion. <i>Physical Review Letters</i> , 2018, 121, 235002.	2.9	9
76	Plasma mass separation. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	49
77	Simulations of relativistic quantum plasmas using real-time lattice scalar QED. <i>Physical Review E</i> , 2018, 97, 053206.	0.8	21
78	Influence of nonlinear detuning at plasma wavebreaking threshold on backward Raman compression of non-relativistic laser pulses. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	9
79	Cumulative displacement induced by a magnetosonic soliton bouncing in a bounded plasma slab. <i>Physics of Plasmas</i> , 2018, 25, 062118.	0.7	3
80	Cascaded chirped photon acceleration for efficient frequency conversion. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	13
81	Theory of electromagnetic wave frequency upconversion in dynamic media. <i>Physical Review E</i> , 2018, 98, 023202.	0.8	27
82	On extreme points of the diffusion polytope. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 473, 225-236.	1.2	5
83	Radiative transfer dynamo effect. <i>Physical Review E</i> , 2017, 95, 013205.	0.8	5
84	Laser-pulse compression using magnetized plasmas. <i>Physical Review E</i> , 2017, 95, 023211.	0.8	24
85	Compressibility and heat capacity of rotating plasma. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	7
86	A Lower Bound on Adiabatic Heating of Compressed Turbulence for Simulation and Model Validation. <i>Astrophysical Journal</i> , 2017, 838, 118.	1.6	9
87	Role of Magnetosonic Solitons in Perpendicular Collisionless Shock Reformation. <i>Physical Review Letters</i> , 2017, 118, 125101.	2.9	14
88	Heat pump model for Ranque-Hilsch vortex tubes. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 771-777.	2.5	23
89	X-ray amplification by stimulated Brillouin scattering. <i>Physical Review E</i> , 2017, 96, 023209.	0.8	14
90	Drift and separation in collisionality gradients. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	5

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91	Collisional considerations in axial-collection plasma mass filters. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	13
92	Particle orbits in a force-balanced, wave-driven, rotating torus. <i>Physics of Plasmas</i> , 2017, 24, 092513.	0.7	13
93	Centrifugal instability in the regime of fast rotation. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	13
94	Plasma Wave Seed for Raman Amplifiers. <i>Physical Review Letters</i> , 2017, 118, 164801.	2.9	21
95	Kinetic simulations of laser parametric amplification in magnetized plasmas. <i>Physics of Plasmas</i> , 2017, 24, 093103.	0.7	15
96	Plasma $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{q} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -plate for generation and manipulation of intense optical vortices. <i>Physical Review E</i> , 2017, 96, 053207.	0.8	35
97	Inverse Bremsstrahlung current drive. <i>Physical Review E</i> , 2017, 96, 053211.	0.8	5
98	Efficiency of wave-driven rigid body rotation toroidal confinement. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	22
99	Beam cleaning of an incoherent laser via plasma Raman amplification. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	16
100	Laser pulse sharpening with electromagnetically induced transparency in plasma. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	3
101	Kinetic simulations of ladder climbing by electron plasma waves. <i>Physical Review E</i> , 2017, 95, 053212.	0.8	21
102	Modeling turbulent energy behavior and sudden viscous dissipation in compressing plasma turbulence. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	13
103	Three-wave scattering in magnetized plasmas: From cold fluid to quantized Lagrangian. <i>Physical Review E</i> , 2017, 96, 023204.	0.8	12
104	Parametric X-Ray Amplification in Plasmas. , 2017, , .		0
105	Maximum time-dependent space-charge limited diode currents. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	16
106	Practicality of magnetic compression for plasma density control. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	5
107	Electron energy enhancement by frequency chirp of a radially polarized laser pulse during ionization of low-density gases. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 115011.	0.9	2
108	Backward Raman amplification of broad-band pulses. <i>Physics of Plasmas</i> , 2016, 23, 083115.	0.7	12

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109	Compressing turbulence and sudden viscous dissipation with compression-dependent ionization state. <i>Physical Review E</i> , 2016, 94, 053206.	0.8	18
110	Reducing parametric backscattering by polarization rotation. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	27
111	Distinguishing Raman from strongly coupled Brillouin amplification for short pulses. <i>Physics of Plasmas</i> , 2016, 23, 053118.	0.7	24
112	Short-pulse amplification by strongly coupled stimulated Brillouin scattering. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	31
113	Initial experimental test of a helicon plasma based mass filter. <i>Plasma Sources Science and Technology</i> , 2016, 25, 035024.	1.3	24
114	Density waves in a system of non-interacting particles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 3061-3066.	0.9	2
115	Effective-action approach to wave propagation in scalar QED plasmas. <i>Physical Review A</i> , 2016, 94, .	1.0	17
116	Extended Propagation of Powerful Laser Pulses in Focusing Kerr Media. <i>Physical Review Letters</i> , 2016, 117, 133901.	2.9	12
117	Beyond nonlinear saturation of backward Raman amplifiers. <i>Physical Review E</i> , 2016, 93, 063210.	0.8	17
118	Sudden Viscous Dissipation of Compressing Turbulence. <i>Physical Review Letters</i> , 2016, 116, 105004.	2.9	33
119	Strongly Enhanced Stimulated Brillouin Backscattering in an Electron-Positron Plasma. <i>Physical Review Letters</i> , 2016, 116, 015004.	2.9	33
120	Piezothermal effect in a spinning gas. <i>Physical Review E</i> , 2016, 94, 042113.	0.8	8
121	Pushing Particles with Waves: Current Drive and \pm -Channeling. <i>Plasma and Fusion Research</i> , 2016, 11, 2101010-2101010.	0.3	2
122	Trapped-electron runaway effect. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	4
123	Ladder Climbing and Autoresonant Acceleration of Plasma Waves. <i>Physical Review Letters</i> , 2015, 115, 075001.	2.9	11
124	Alpha channeling with high-field launch of lower hybrid waves. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	20
125	Ignition threshold for non-Maxwellian plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	13
126	The efficiency of Raman amplification in the wavebreaking regime. <i>Physics of Plasmas</i> , 2015, 22, 074501.	0.7	37

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127	The alpha channeling effect. AIP Conference Proceedings, 2015, , .	0.3	12
128	Verification of nonlinear particle simulation of radio frequency waves in tokamak. Physics of Plasmas, 2015, 22, .	0.7	19
129	Breakdown of the Brillouin limit and classical fluxes in rotating collisional plasmas. Physics of Plasmas, 2015, 22, .	0.7	13
130	Maximal energy extraction under discrete diffusive exchange. Physics of Plasmas, 2015, 22, .	0.7	10
131	Plasma filtering techniques for nuclear waste remediation. Journal of Hazardous Materials, 2015, 297, 153-159.	6.5	35
132	High intensity regimes for resonant Raman compression. , 2015, , .		0
133	Coupling of alpha channeling to parallel wavenumber upshift in lower hybrid current drive. Physics of Plasmas, 2015, 22, .	0.7	21
134	Exceeding the leading spike intensity and fluence limits in backward Raman amplifiers. Physical Review E, 2014, 90, 063110.	0.8	20
135	Backward Raman amplification in the Langmuir wavebreaking regime. Physics of Plasmas, 2014, 21, 113110.	0.7	48
136	On the nature of kinetic electrostatic electron nonlinear (KEEN) waves. Physics of Plasmas, 2014, 21, 034501.	0.7	6
137	ARE PERYTONS SIGNATURES OF BALL LIGHTNING?. Astrophysical Journal, 2014, 794, 98.	1.6	3
138	The double well mass filter. Physics of Plasmas, 2014, 21, 020701.	0.7	27
139	Enhanced efficiency of internal combustion engines by employing spinning gas. Physical Review E, 2014, 90, 022139.	0.8	4
140	Saturation of the leading spike growth in backward Raman amplifiers. Physics of Plasmas, 2014, 21, 093112.	0.7	25
141	What is the fate of runaway positrons in tokamaks?. Physics of Plasmas, 2014, 21, .	0.7	14
142	Cross-field plasma lens for focusing of the Hall thruster plume. Plasma Sources Science and Technology, 2014, 23, 044005.	1.3	13
143	Fusion utility in the Knudsen layer. Physics of Plasmas, 2014, 21, 092114.	0.7	12
144	Aerodynamic focusing of high-density aerosols. Journal of Aerosol Science, 2014, 76, 115-125.	1.8	3

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145	Plasma mass filtering for separation of actinides from lanthanides. Plasma Sources Science and Technology, 2014, 23, 035002.	1.3	31
146	Ponderomotive Forces on Waves in Modulated Media. Physical Review Letters, 2014, 112, .	2.9	16
147	Key plasma parameters for resonant backward Raman amplification in plasma. European Physical Journal: Special Topics, 2014, 223, 1157-1167.	1.2	48
148	Some Unsolved Challenges In Radio-Frequency Heating and Current Drive. Fusion Science and Technology, 2014, 65, 79-87.	0.6	4
149	Methods of Radio-Frequency Current Drive. Fusion Science and Technology, 2014, 65, 1-9.	0.6	3
150	On plasma rotation induced by waves in tokamaks. Physics of Plasmas, 2013, 20, 102105.	0.7	7
151	Geometrical Optics of Dense Aerosols: Forming Dense Plasma Slabs. Physical Review Letters, 2013, 111, 188301.	2.9	4
152	On the toroidal plasma rotations induced by lower hybrid waves. Physics of Plasmas, 2013, 20, .	0.7	15
153	New wave effects in nonstationary plasma. Physics of Plasmas, 2013, 20, 056302.	0.7	1
154	Parallel rf Force Driven by the Inhomogeneity of Power Absorption in Magnetized Plasma. Physical Review Letters, 2013, 110, 235004.	2.9	8
155	Comment on "Three-dimensional numerical investigation of electron transport with rotating spoke in a cylindrical anode layer Hall plasma accelerator" [Phys. Plasmas 19, 073519 (2012)]. Physics of Plasmas, 2013, 20, 014701.	0.7	1
156	Rigid-body rotation of an electron cloud in divergent magnetic fields. Physics of Plasmas, 2013, 20, .	0.7	3
157	Tendency of a rotating electron plasma to approach the Brillouin limit. Physics of Plasmas, 2013, 20, .	0.7	6
158	Effects of LHRF on toroidal rotation in Alcator C-Mod plasmas. Nuclear Fusion, 2013, 53, 093015.	1.6	16
159	Negative-Mass Instability in Nonlinear Plasma Waves. Physical Review Letters, 2013, 110, 215006.	2.9	20
160	Nonlinear Amplification and Decay of Phase-Mixed Waves in Compressing Plasma. Physical Review Letters, 2013, 110, 055001.	2.9	14
161	Reduced Compressibility and an Inverse Problem for a Spinning Gas. Physical Review Letters, 2013, 110, 150604.	2.9	18
162	Practicality of a plasma mass filter for nuclear fuel reprocessing: Separating lanthanides from actinides. , 2013, , .		0

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163	Practicality of a plasma mass filter for nuclear fuel reprocessing: Separating lanthanides from actinides. , 2013, , .		0
164	Amended conjecture on an upper bound to time-dependent space-charge limited current. Physics of Plasmas, 2012, 19, .	0.7	18
165	Current ramp-up with lower hybrid current drive in EAST. Physics of Plasmas, 2012, 19, 122507.	0.7	10
166	Comparisons between nonlinear kinetic modelings of simulated Raman scattering using envelope equations. Physics of Plasmas, 2012, 19, 013110.	0.7	20
167	Laser duration and intensity limits in plasma backward Raman amplifiers. Physics of Plasmas, 2012, 19, 023109.	0.7	21
168	Particle deconfinement in a bent magnetic mirror. Physics of Plasmas, 2012, 19, .	0.7	9
169	Adiabatic nonlinear waves with trapped particles. III. Wave dynamics. Physics of Plasmas, 2012, 19, .	0.7	17
170	Elementary processes underlying alpha channeling in tokamaks. AIP Conference Proceedings, 2012, , .	0.3	6
171	Rotating spoke phenomena in hall thrusters. , 2012, , .		0
172	Driving Sudden Current and Voltage in Expanding and Compressing Plasma. Physical Review Letters, 2012, 108, 215003.	2.9	7
173	Axiomatic geometrical optics, Abraham-Minkowski controversy, and photon properties derived classically. Physical Review A, 2012, 86, .	1.0	50
174	Plasma-Based Accelerator with Magnetic Compression. Physical Review Letters, 2012, 109, 255003.	2.9	7
175	Seed Laser Chirping for Enhanced Backward Raman Amplification in Plasmas. Physical Review Letters, 2012, 109, 085003.	2.9	47
176	Practical considerations in realizing a magnetic centrifugal mass filter. Physics of Plasmas, 2012, 19, .	0.7	21
177	Cross-field electron transport induced by a rotating spoke in a cylindrical Hall thruster. Physics of Plasmas, 2012, 19, .	0.7	125
178	Geometrical constraints on plasma couplers for Raman compression. Physics of Plasmas, 2012, 19, .	0.7	20
179	Adiabatic nonlinear waves with trapped particles. I. General formalism. Physics of Plasmas, 2012, 19, .	0.7	22
180	Adiabatic nonlinear waves with trapped particles. II. Wave dispersion. Physics of Plasmas, 2012, 19, .	0.7	13

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181	Feedback control of an azimuthal oscillation in the $E \times B$ discharge of Hall thrusters. Physics of Plasmas, 2012, 19, .	0.7	25
182	Applying alpha-channeling to mirror machines. Physics of Plasmas, 2012, 19, .	0.7	3
183	Enhancement of fusion rates due to quantum effects in the particles momentum distribution in nonideal plasma media. European Physical Journal D, 2012, 66, 1.	0.6	11
184	Exawatt-Zettawatt pulse generation and applications. Optics Communications, 2012, 285, 720-724.	1.0	125
185	A comparison of emissive probe techniques for electric potential measurements in a complex plasma. , 2011, , .		0
186	New Wave Effects in Compressing Plasma. IEEE Transactions on Plasma Science, 2011, 39, 2490-2491.	0.6	1
187	Fast Camera Imaging of Hall Thruster Ignition. IEEE Transactions on Plasma Science, 2011, 39, 2950-2951.	0.6	32
188	A comparison of emissive probe techniques for electric potential measurements in a complex plasma. Physics of Plasmas, 2011, 18, .	0.7	104
189	Effect of Secondary Electron Emission on Electron Cross-Field Current in $E \times B$ Discharges. IEEE Transactions on Plasma Science, 2011, 39, 995-1006.	0.6	72
190	Wave-Driven Rotation in Centrifugal Mirrors. Fusion Science and Technology, 2011, 59, 136-139.	0.6	0
191	Evolution of nonlinear waves in compressing plasma. Physics of Plasmas, 2011, 18, 042103.	0.7	13
192	A Hamiltonian model of dissipative wave-particle interactions and the negative-mass effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1236-1241.	0.9	4
193	Nonlinear Dispersion of Stationary Waves in Collisionless Plasmas. Physical Review Letters, 2011, 107, 035005.	2.9	19
194	Simulation of Alpha Particles in Rotating Plasma Interacting With a Stationary Ripple. IEEE Transactions on Plasma Science, 2011, 39, 2948-2949.	0.6	1
195	Channeling of Fusion Alpha-Particle Power Using Minority Ion Catalysis. Physical Review Letters, 2011, 107, 175001.	2.9	7
196	Limiting effects on laser compression by resonant backward Raman scattering in modern experiments. Physics of Plasmas, 2011, 18, 056711.	0.7	63
197	Ion acceleration in supersonically rotating magnetized-electron plasma. Plasma Physics and Controlled Fusion, 2011, 53, 124038.	0.9	33
198	Observation of amplification of light by Langmuir waves and its saturation on the electron kinetic timescale. Journal of Plasma Physics, 2011, 77, 521-528.	0.7	24

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199	Evolution of the bump-on-tail instability in compressing plasma. Journal of Plasma Physics, 2011, 77, 629-638.	0.7	5
200	Cathode Effects on Operation and Plasma Plume of the Permanent Magnet Cylindrical Hall Thruster. , 2011, , .		0
201	Multi-beam effects on backscatter and its saturation in experiments with conditions relevant to ignition. Physics of Plasmas, 2011, 18, .	0.7	38
202	Metrics for comparing plasma mass filters. Physics of Plasmas, 2011, 18, .	0.7	15
203	Radial electric field generated by resonant trapped electron pinch with radio frequency injection in a tokamak plasma. Physics of Plasmas, 2011, 18, 082507.	0.7	10
204	Wave-particle interactions in rotating mirrors. Physics of Plasmas, 2011, 18, 055704.	0.7	8
205	Numerical modeling of quasitransient backward Raman amplification of laser pulses in moderately undercritical plasmas with multicharged ions. Physics of Plasmas, 2011, 18, 102311.	0.7	29
206	The magnetic centrifugal mass filter. Physics of Plasmas, 2011, 18, .	0.7	64
207	Current drive in recombining plasma. Physics of Plasmas, 2011, 18, .	0.7	3
208	Wave-Driven Rotation in Supersonically Rotating Mirrors. Fusion Science and Technology, 2010, 57, 343-350.	0.6	10
209	PLASMA PHYSICS AND CONTROLLED NUCLEAR FUSION. , 2010, , .		0
210	Feasibility Studies of Alpha-Particle Channeling in Mirror Machines. Fusion Science and Technology, 2010, 57, 361-368.	0.6	4
211	Laser induced fluorescence measurements of the cylindrical Hall thruster plume. Physics of Plasmas, 2010, 17, .	0.7	26
212	Damping of linear waves via ionization and recombination in homogeneous plasmas. Physics of Plasmas, 2010, 17, .	0.7	10
213	On generalizing the theorem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3472-3475.	0.9	17
214	Transformer recharging with alpha channeling in tokamaks. Journal of Plasma Physics, 2010, 76, 627-634.	0.7	17
215	On the anomalous fast ion energy diffusion in toroidal plasmas due to cavity modes. Plasma Physics and Controlled Fusion, 2010, 52, 055014.	0.9	15
216	Negative effective mass of wave-driven classical particles in dielectric media. Physical Review E, 2010, 81, 036404.	0.8	4

#	ARTICLE	IF	CITATIONS
217	Vlasov equation and collisionless hydrodynamics adapted to curved spacetime. Physics of Plasmas, 2010, 17, 112118.	0.7	12
218	Controlling Hot Electrons by Wave Amplification and Decay in Compressing Plasma. Physical Review Letters, 2010, 105, 175003.	2.9	20
219	Kinetic effects in hall plasma thrusters. , 2010, , .		0
220	Cylindrical Hall thrusters with permanent magnets. Journal of Applied Physics, 2010, 108, .	1.1	40
221	Supra-bubble regime for laser acceleration of cold electron beams in tenuous plasma. Physics of Plasmas, 2010, 17, .	0.7	9
222	Transition in electron transport in a cylindrical Hall thruster. Applied Physics Letters, 2010, 97, .	1.5	79
223	An upper bound to time-averaged space-charge limited diode currents. Physics of Plasmas, 2010, 17, .	0.7	33
224	Contained modes in mirrors with sheared rotation. Physics of Plasmas, 2010, 17, .	0.7	4
225	Effects of the cathode electron emission and background gas pressure on transient phenomena in magnetized thruster discharge. , 2010, , .		0
226	Alpha channeling in rotating plasma with stationary waves. Physics of Plasmas, 2010, 17, .	0.7	19
227	Quasitransient backward Raman amplification of powerful laser pulses in dense plasmas with multicharged ions. Physics of Plasmas, 2010, 17, 073109.	0.7	27
228	Phase-space dynamics of runaway electrons in tokamaks. Physics of Plasmas, 2010, 17, .	0.7	39
229	On the evolution of linear waves in cosmological plasmas. Physical Review D, 2010, 82, .	1.6	23
230	Effect of the Magnetic Field on the Plasma Plume of the Cylindrical Hall Thruster with Permanent Magnets. , 2010, , .		2
231	Comparisons in Performance of Electromagnet and Permanent-Magnet Cylindrical Hall-Effect Thrusters. , 2010, , .		4
232	Background Gas Pressure Effects in the Cylindrical Hall Thruster. , 2010, , .		4
233	Ionization, Plume Properties, and Performance of Cylindrical Hall Thrusters. IEEE Transactions on Plasma Science, 2010, 38, 1052-1057.	0.6	33
234	Direct-current-like phase space manipulation using chirped alternating current fields. Physics of Plasmas, 2010, 17, 013105.	0.7	2

#	ARTICLE	IF	CITATIONS
235	Development of a nanosecond-laser-pumped Raman amplifier for short laser pulses in plasma. <i>Physics of Plasmas</i> , 2009, 16, 123113.	0.7	57
236	Quasitransient regimes of backward Raman amplification of intense x-ray pulses. <i>Physical Review E</i> , 2009, 80, 046409.	0.8	44
237	Effect of nonlinear Landau damping in plasma-based backward Raman amplifier. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	32
238	Waves for alpha channeling in mirror machines. <i>Physics of Plasmas</i> , 2009, 16, 112511.	0.7	12
239	Effects of enhanced cathode electron emission on Hall thruster operation. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	47
240	Dressed-particle approach in the nonrelativistic classical limit. <i>Physical Review E</i> , 2009, 79, 026407.	0.8	13
241	Langmuir wave linear evolution in inhomogeneous nonstationary anisotropic plasma. <i>Physics of Plasmas</i> , 2009, 16, 112101.	0.7	36
242	Monte Carlo Simulation of Surface-Charging Phenomena on Insulators Prior to Flashover in Vacuum. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 698-704.	0.6	12
243	Simplified model of nonlinear Landau damping. <i>Physics of Plasmas</i> , 2009, 16, 072104.	0.7	41
244	Magnetic detachment and plume control in escaping magnetized plasma. <i>Journal of Plasma Physics</i> , 2009, 75, 359-371.	0.7	22
245	Operation and Plume Measurements of Miniaturized Cylindrical Hall Thrusters with Permanent Magnets. , 2009, , .		5
246	Investigation of Electron Transport in a Cylindrical Hall Thruster using a Kinetic Code. , 2009, , .		3
247	Performance of a Permanent-Magnet Cylindrical Hall-Effect Thruster. , 2009, , .		4
248	Ponderomotive acceleration of hot electrons in tenuous plasmas. <i>Physical Review E</i> , 2009, 80, 036404.	0.8	10
249	Wave-driven countercurrent plasma centrifuge. <i>Plasma Sources Science and Technology</i> , 2009, 18, 045003.	1.3	34
250	Fired Tsukuba professorâ€™s defense. <i>Physics Today</i> , 2009, 62, 11-11.	0.3	0
251	Flux control in networks of diffusion paths. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5534-5541.	0.9	3
252	Manleyâ€™-Rowe relations for an arbitrary discrete system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6094-6096.	0.9	12

#	ARTICLE	IF	CITATIONS
253	Diffusion paths in resonantly driven Hamiltonian systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6111-6112.	0.9	5
254	Controlling the Plasma Potential Distribution in Segmented-Electrode Hall Thruster. IEEE Transactions on Plasma Science, 2008, 36, 1202-1203.	0.6	11
255	Low Power Cylindrical Hall Thruster Performance and Plume Properties. , 2008, , .		4
256	Effects of Cathode Electron Emission of Hall Thruster Discharge. , 2008, , .		3
257	Demonstration of detuning and wavebreaking effects on Raman amplification efficiency in plasma. Physics of Plasmas, 2008, 15, .	0.7	48
258	Controlling the Plasma Flow in the Miniaturized Cylindrical Hall Thruster. IEEE Transactions on Plasma Science, 2008, 36, 1998-2003.	0.6	21
259	Simulations of a Miniaturized Cylindrical Hall Thruster. IEEE Transactions on Plasma Science, 2008, 36, 2034-2042.	0.6	13
260	Charged particle acceleration in dense plasma channels. Physics of Plasmas, 2008, 15, .	0.7	19
261	Plasma Plume of Annular and Cylindrical Hall Thrusters. IEEE Transactions on Plasma Science, 2008, 36, 1204-1205.	0.6	1
262	Non-Newtonian mechanics of oscillation centers. , 2008, , .		3
263	Simulation of \hat{I}_{\pm} -channeling in mirror machines. Physics of Plasmas, 2008, 15, 042506.	0.7	16
264	Cathode effects in cylindrical Hall thrusters. Journal of Applied Physics, 2008, 104, 103302.	1.1	32
265	A compact double-pass Raman backscattering amplifier/compressor. Physics of Plasmas, 2008, 15, .	0.7	69
266	\hat{I}_{\pm} Channeling in a Rotating Plasma. Physical Review Letters, 2008, 101, 205003.	2.9	57
267	Positive and negative effective mass of classical particles in oscillatory and static fields. Physical Review E, 2008, 77, 036402.	0.8	33
268	Scientists protest professor's dismissal. Physics Today, 2008, 61, 10-12.	0.3	0
269	Comment on "Effects of magnetic field gradient on ion beam current in cylindrical Hall ion source". Appl. Phys. 102, 123305 (2007)]. Journal of Applied Physics, 2008, 104, 066102.	1.1	5
270	Performance of a Low-Power Cylindrical Hall Thruster. Journal of Propulsion and Power, 2007, 23, 886-888.	1.3	26

#	ARTICLE	IF	CITATIONS
271	Nonlinear nonresonant forces by radio-frequency waves in plasmas. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	13
272	Particle manipulation with nonadiabatic ponderomotive forces. <i>Physics of Plasmas</i> , 2007, 14, 055901.	0.7	12
273	Experimental and theoretical studies of cylindrical Hall thrusters. <i>Physics of Plasmas</i> , 2007, 14, 057106.	0.7	88
274	Stochastic Extraction of Periodic Attosecond Bunches from Relativistic Electron Beams. <i>Physical Review Letters</i> , 2007, 98, 234801.	2.9	9
275	Relic Crystal-Lattice Effects on Raman Compression of Powerful X-Ray Pulses in Plasmas. <i>Physical Review Letters</i> , 2007, 99, 205001.	2.9	40
276	Enhanced performance of cylindrical Hall thrusters. <i>Applied Physics Letters</i> , 2007, 90, 221502.	1.5	53
277	Compression of powerful x-ray pulses to attosecond durations by stimulated Raman backscattering in plasmas. <i>Physical Review E</i> , 2007, 75, 026404.	0.8	95
278	Amplification of an ultrashort pulse laser by stimulated Raman scattering of a 1ns pulse in a low density plasma. <i>Physics of Plasmas</i> , 2007, 14, 113109.	0.7	39
279	Alpha-Channeling Effects in Mirror-like Plasma. , 2007, , .		0
280	Alpha Channeling in Mirror Machines and in Tokamaks. <i>Fusion Science and Technology</i> , 2007, 51, 1-6.	0.6	12
281	Optimization of Cylindrical Hall Thrusters. , 2007, , .		5
282	Autoresonant ion cyclotron isotope separation. <i>Physics of Plasmas</i> , 2007, 14, 043102.	0.7	20
283	Plasma acceleration from radio-frequency discharge in dielectric capillary. <i>Applied Physics Letters</i> , 2006, 88, 251502.	1.5	31
284	Nonlinear ponderomotive force by low frequency waves and nonresonant current drive. <i>Physics of Plasmas</i> , 2006, 13, 112307.	0.7	18
285	Segmented Electrodes in Annual and Cylindrical Hall Thrusters. , 2006, , .		2
286	Electron cross-field transport in a miniaturized cylindrical Hall thruster. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 132-141.	0.6	34
287	Measurements of secondary electron emission effects in the Hall thruster discharge. <i>Physics of Plasmas</i> , 2006, 13, 014502.	0.7	82
288	Nonadiabatic ponderomotive potentials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 349, 356-369.	0.9	19

#	ARTICLE	IF	CITATIONS
289	Ignition regime for fusion in a degenerate plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 72-78.	0.9	17
290	Controlled fusion with hot-ion mode in a degenerate plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 65-71.	0.9	16
291	Operation of a segmented Hall thruster with low-sputtering carbon-velvet electrodes. Journal of Applied Physics, 2006, 99, 036103.	1.1	31
292	Alpha Channeling in Mirror Machines. Physical Review Letters, 2006, 97, 225001.	2.9	33
293	Formation of laser plasma channels in a stationary gas. Physics of Plasmas, 2006, 13, 043106.	0.7	6
294	Effect of magnetic field profile on the anode fall in a Hall-effect thruster discharge. Physics of Plasmas, 2006, 13, 057104.	0.7	22
295	Nonadiabatic ponderomotive barriers. , 2006, , .		0
296	Limits for light intensification by reflection from relativistic plasma mirrors. Physics of Plasmas, 2006, 13, 093102.	0.7	14
297	Correction to the Alfvén-Lawson criterion for relativistic electron beams. Physics of Plasmas, 2006, 13, 103104.	0.7	10
298	Nonadiabatic tunneling in ponderomotive barriers. Physical Review E, 2006, 74, 056404.	0.8	11
299	Segmented Electrode Hall Thruster. Journal of Propulsion and Power, 2006, 22, 1396-1401.	1.3	16
300	Approximate integrals of radiofrequency-driven particle motion in a magnetic field. Journal of Plasma Physics, 2005, 71, 289-300.	0.7	12
301	Pycnonuclear reaction and possible chain reactions in an ultra-dense DT plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 337, 397-407.	0.9	8
302	Variational formulation of the Gardner's restacking algorithm. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 341, 187-192.	0.9	16
303	Hot electron production in plasmas illuminated by intense lasers. JETP Letters, 2005, 81, 1-5.	0.4	5
304	Statistical mechanics of an optical phase space compressor. Europhysics Letters, 2005, 70, 761-767.	0.7	28
305	Space charge saturated sheath regime and electron temperature saturation in Hall thrusters. Physics of Plasmas, 2005, 12, 073507.	0.7	76
306	Backward Raman amplification in a partially ionized gas. Physical Review E, 2005, 72, 036401.	0.8	20

#	ARTICLE	IF	CITATIONS
307	Quantumlike Dynamics of Classical Particles in Ponderomotive Potentials. Physical Review Letters, 2005, 95, 115001.	2.9	10
308	Reaching the Nonlinear Regime of Raman Amplification of Ultrashort Laser Pulses. Physical Review Letters, 2005, 94, 045003.	2.9	137
309	Experimental and Theoretical Studies of a Low Power Cylindrical Hall Thruster. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
310	Electron Cross-Field Transport in a Miniaturized Cylindrical Hall Thruster. , 2005, , .		0
311	Current-Drive Efficiency in a Degenerate Plasma. Physical Review Letters, 2005, 95, 225002.	2.9	52
312	Compression of Atomic Phase Space Using an Asymmetric One-Way Barrier. Physical Review Letters, 2005, 94, 053003.	2.9	50
313	Experimental studies of anode sheath phenomena in a Hall thruster discharge. Journal of Applied Physics, 2005, 97, 103309.	1.1	42
314	Maximizing ion current by space-charge neutralization using negative ions and dust particles. Physics of Plasmas, 2005, 12, 053503.	0.7	12
315	Ponderomotive ratchet in a uniform magnetic field. Physical Review E, 2005, 72, 046602.	0.8	15
316	Raman laser amplification in preformed and ionizing plasmas. Laser and Particle Beams, 2005, 23, .	0.4	10
317	Electron-wall interaction in Hall thrusters. Physics of Plasmas, 2005, 12, 057104.	0.7	114
318	Three-dimensional simulation of backward Raman amplification. IEEE Transactions on Plasma Science, 2005, 33, 488-489.	0.6	5
319	Manipulating ultraintense laser pulses in plasmas. Physics of Plasmas, 2005, 12, 044507.	0.7	42
320	Characterization of plasma in a Hall thruster operated at high discharge voltage. , 2005, , .		1
321	Amplification of Ultrashort Laser Pulses by a Resonant Raman Scheme in a Gas-Jet Plasma. Physical Review Letters, 2004, 92, 175007.	2.9	123
322	Inverse bremsstrahlung stabilization of noise in the generation of ultrashort intense pulses by backward Raman amplification. Physics of Plasmas, 2004, 11, 1931-1937.	0.7	37
323	Finite-duration seeding effects in powerful backward Raman amplifiers. Physical Review E, 2004, 69, 036401.	0.8	30
324	Effect of anode dielectric coating on Hall thruster operation. Applied Physics Letters, 2004, 84, 1070-1072.	1.5	28

#	ARTICLE	IF	CITATIONS
325	Ponderomotive barrier as a Maxwell demon. <i>Physics of Plasmas</i> , 2004, 11, 5046-5064.	0.7	33
326	Measuring the plasma density of a ferroelectric plasma source in an expanding plasma. <i>Journal of Applied Physics</i> , 2004, 95, 4621-4626.	1.1	13
327	Operation of ferroelectric plasma sources in a gas discharge mode. <i>Physics of Plasmas</i> , 2004, 11, 2957-2963.	0.7	7
328	Fast ion absorption of the high harmonic fast wave in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2004, 11, 2441-2452.	0.7	23
329	Electrostatic probe apparatus for measurements in the near-anode region of Hall thrusters. <i>Review of Scientific Instruments</i> , 2004, 75, 1255-1260.	0.6	34
330	Pump side scattering in ultrapowerful backward Raman amplifiers. <i>Physical Review E</i> , 2004, 69, 066413.	0.8	16
331	Temperature gradient in Hall thrusters. <i>Applied Physics Letters</i> , 2004, 84, 3028-3030.	1.5	41
332	Rayleigh instability in Hall thrusters. <i>Physics of Plasmas</i> , 2004, 11, 1379-1383.	0.7	74
333	Shielded electrostatic probe for nonperturbing plasma measurements in Hall thrusters. <i>Review of Scientific Instruments</i> , 2004, 75, 393-399.	0.6	35
334	Aneutronic fusion in a degenerate plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 329, 76-82.	0.9	57
335	Experimental studies of high-frequency azimuthal waves in Hall thrusters. <i>Physics of Plasmas</i> , 2004, 11, 1701-1705.	0.7	76
336	Electron cross-field transport in a low power cylindrical Hall thruster. <i>Physics of Plasmas</i> , 2004, 11, 4922-4933.	0.7	86
337	Anode Fall Formation in a Hall Thruster. , 2004, , .		1
338	Investigation of a Segmented Electrode Hall Thruster. , 2004, , .		2
339	Electron Transport and Ion Acceleration in a Low-Power Cylindrical Hall Thruster. , 2004, , .		5
340	Plasma measurements in a 100 W cylindrical Hall thruster. <i>Journal of Applied Physics</i> , 2004, 95, 2283-2292.	1.1	83
341	Drift Lagrangian for a relativistic particle in an intense laser field. <i>JETP Letters</i> , 2003, 78, 202-206.	0.4	12
342	Secondary electron emission from dielectric materials of a Hall thruster with segmented electrodes. <i>Physics of Plasmas</i> , 2003, 10, 2574-2577.	0.7	123

#	ARTICLE	IF	CITATIONS
343	Relativistic electron acceleration in focused laser fields after above-threshold ionization. Physical Review E, 2003, 68, 056402.	0.8	28
344	Enhanced ionization in the cylindrical Hall thruster. Journal of Applied Physics, 2003, 94, 852-857.	1.1	53
345	Plasma Measurements of a 100 W Cylindrical Hall Thruster. , 2003, , .		0
346	Plume Characteristics of the PPPL Segmented Electrode Hall Thruster. , 2003, , .		1
347	Simulations of Raman laser amplification in ionizing plasmas. Physics of Plasmas, 2003, 10, 4837-4847.	0.7	19
348	Noise suppression and enhanced focusability in plasma Raman amplifier with multi-frequency pump. Physics of Plasmas, 2003, 10, 4856-4864.	0.7	30
349	Operating regime for a backward Raman laser amplifier in preformed plasma. Physics of Plasmas, 2003, 10, 3363-3370.	0.7	70
350	Generation of ultrahigh intensity laser pulses. Physics of Plasmas, 2003, 10, 2056-2063.	0.7	81
351	Particle-in-cell simulations of Raman laser amplification in preformed plasmas. Physics of Plasmas, 2003, 10, 4848-4855.	0.7	30
352	Ferroelectric cathodes in transverse magnetic fields. Journal of Applied Physics, 2003, 93, 3481-3485.	1.1	3
353	Random density inhomogeneities and focusability of the output pulses for plasma-based powerful backward Raman amplifiers. Physics of Plasmas, 2003, 10, 2540-2544.	0.7	47
354	Current Drive in a Ponderomotive Potential with Sign Reversal. Physical Review Letters, 2003, 91, 205004.	2.9	27
355	Recent progress in neutrino factory and muon collider research within the Muon Collaboration. Physical Review Special Topics: Accelerators and Beams, 2003, 6, .	1.8	123
356	Suppression of Superluminous Precursors in High-Power Backward Raman Amplifiers. Physical Review Letters, 2002, 88, 235004.	2.9	62
357	Magnetic field generation through angular momentum exchange between circularly polarized radiation and charged particles. Physical Review E, 2002, 65, 046403.	0.8	37
358	Storing, Retrieving, and Processing Optical Information by Raman Backscattering in Plasmas. Physical Review Letters, 2002, 88, 165001.	2.9	52
359	Effects of segmented electrode in Hall current plasma thrusters. Journal of Applied Physics, 2002, 92, 4906-4911.	1.1	60
360	Parametric investigation of miniaturized cylindrical and annular Hall thrusters. Journal of Applied Physics, 2002, 92, 5673-5679.	1.1	109

#	ARTICLE	IF	CITATIONS
361	Magnetic-field generation and electron acceleration in relativistic laser channel. <i>Physics of Plasmas</i> , 2002, 9, 636-648.	0.7	31
362	Regime for a self-ionizing Raman laser amplifier. <i>Physics of Plasmas</i> , 2002, 9, 2772-2780.	0.7	28
363	Raman amplification of ultrashort laser pulses in microcapillary plasmas. <i>Physical Review E</i> , 2002, 66, 046401.	0.8	39
364	High-frequency probing diagnostic for Hall current plasma thrusters. <i>Review of Scientific Instruments</i> , 2002, 73, 2882-2885.	0.6	8
365	Robustness of laser phase fronts in backward Raman amplifiers. <i>Physics of Plasmas</i> , 2002, 9, 3617-3624.	0.7	46
366	Alfvén wave tomography for cold magnetohydrodynamic plasmas. <i>Physics of Plasmas</i> , 2002, 9, 760-765.	0.7	1
367	Raman Amplification of Laser Pulses in Microcapillary Plasmas. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
368	Excitation of accelerating plasma waves by counter-propagating laser beams. <i>Physics of Plasmas</i> , 2002, 9, 2383-2392.	0.7	14
369	Performance Studies of Miniaturized Cylindrical and Annular Hall Thrusters. , 2002, , .		3
370	Experimental Studies of High-Frequency Oscillations in Hall Thrusters. , 2002, , .		4
371	Plasma Characterization of Hall Thruster with Active and Passive Segmented Electrodes. , 2002, , .		3
372	Hall Thruster Modeling with a Given Temperature Profile. , 2002, , .		2
373	Compression of high power lasers in plasma. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
374	Intense laser pulse amplification using Raman backscatter in plasma channels. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 296, 109-116.	0.9	33
375	Dynamic volume holography and optical information processing by Raman scattering. <i>Optics Communications</i> , 2002, 214, 83-98.	1.0	10
376	Amplification of short laser pulses by Raman backscattering in capillary plasmas. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 95, 625-638.	0.2	16
377	Quantum corrections to the distribution function of particles over momentum in dense media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 305, 287-296.	1.2	26
378	Collective Deceleration of Relativistic Electrons Precisely in the Core of an Inertial-Fusion Target. <i>Physical Review Letters</i> , 2002, 89, 125004.	2.9	39

#	ARTICLE	IF	CITATIONS
379	Review of the EP activities of US academia. , 2001, , .		3
380	Inverse Faraday effect in a relativistic laser channel. Laser and Particle Beams, 2001, 19, 133-136.	0.4	7
381	Resistive instabilities in Hall current plasma discharge. Physics of Plasmas, 2001, 8, 648-651.	0.7	72
382	Parametric investigations of a nonconventional Hall thruster. Physics of Plasmas, 2001, 8, 2579-2586.	0.7	165
383	Backward Raman amplification of ionizing laser pulses. Physics of Plasmas, 2001, 8, 4698-4699.	0.7	31
384	Control of the electric-field profile in the Hall thruster. Physics of Plasmas, 2001, 8, 1048-1056.	0.7	63
385	Variable operation of Hall thruster with multiple segmented electrodes. Journal of Applied Physics, 2001, 89, 2040-2046.	1.1	41
386	Parametric Excitations of Fast Plasma Waves by Counterpropagating Laser Beams. Physical Review Letters, 2001, 86, 3328-3331.	2.9	25
387	Variational principle for optimal accelerated neutralized flow. Physics of Plasmas, 2001, 8, 56-58.	0.7	17
388	Motion of charged particles near magnetic-field discontinuities. Physical Review E, 2001, 64, 016405.	0.8	6
389	Pulse Compression in Plasma: Generation of Femtosecond Pulses Without CPA. Springer Series in Chemical Physics, 2001, , 311-313.	0.2	0
390	Effect of quantum uncertainty on the rate of nuclear reactions in the Sun. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 274, 64-68.	0.9	25
391	Acceleration and compression of charged particle bunches using counterpropagating laser beams. IEEE Transactions on Plasma Science, 2000, 28, 1185-1192.	0.6	10
392	Physics of alpha channelling and related TFTR experiments. Nuclear Fusion, 2000, 40, 1095-1100.	1.6	27
393	The possibility of high amplitude driven contained modes during ion Bernstein wave experiments in the tokamak fusion test reactor. Physics of Plasmas, 2000, 7, 2923-2932.	0.7	21
394	Plume reduction in segmented electrode Hall thruster. Journal of Applied Physics, 2000, 88, 1263-1270.	1.1	80
395	Detuned Raman Amplification of Short Laser Pulses in Plasma. Physical Review Letters, 2000, 84, 1208-1211.	2.9	138
396	Stability of Muon Beams to Langmuir Waves during Ionization Cooling. Physical Review Letters, 2000, 85, 5575-5578.	2.9	3

#	ARTICLE	IF	CITATIONS
397	Demonstration of ultrashort laser pulse amplification in plasmas by a counterpropagating pumping beam. <i>Physical Review E</i> , 2000, 62, R4532-R4535.	0.8	67
398	Ultra-powerful compact amplifiers for short laser pulses. <i>Physics of Plasmas</i> , 2000, 7, 2232-2240.	0.7	115
399	Stimulated Raman Scattering of Rapidly Amplified Short Laser Pulses. <i>Physical Review Letters</i> , 2000, 85, 4068-4071.	2.9	36
400	Pulse compression in plasma: generation of femtosecond pulses without CPA. , 2000, , .		0
401	Theory of forward Raman scattering of nonstationary short laser pulses and backward Raman compression of ultrapowerful lasers in plasmas. , 2000, , .		0
402	Quantum interference and thermodynamic equilibrium between the gas of three-level atoms and the photon gas. , 1999, , .		0
403	Laser-driven undulator radiation. , 1999, , .		3
404	Electromagnetically induced guiding and superradiant amplification of counter-propagating lasers in plasma. , 1999, , .		0
405	A tutorial on -channelling. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, A221-A228.	0.9	23
406	Fast Compression of Laser Beams to Highly Overcritical Powers. <i>Physical Review Letters</i> , 1999, 82, 4448-4451.	2.9	389
407	Role of quantum interference in thermodynamic equilibrium. <i>Physical Review A</i> , 1999, 59, 708-713.	1.0	6
408	Generation of periodic accelerating structures in plasma by colliding laser pulses. <i>Physical Review E</i> , 1999, 60, 2218-2223.	0.8	32
409	Unusual radiation effects from atoms in gases and plasmas. <i>Physics of Plasmas</i> , 1999, 6, 2278-2283.	0.7	0
410	Modelling the behaviour of a Hall current plasma accelerator. <i>Plasma Physics and Controlled Fusion</i> , 1999, 41, A357-A364.	0.9	12
411	Super-radiant amplification of ultra-short ($\leq 10\text{fs}$) laser pulses in plasmas. , 1999, , .		0
412	Superradiant Amplification of an Ultrashort Laser Pulse in a Plasma by a Counterpropagating Pump. <i>Physical Review Letters</i> , 1998, 81, 4879-4882.	2.9	204
413	Fusion plasma experiments on TFTR: A 20 year retrospective. <i>Physics of Plasmas</i> , 1998, 5, 1577-1589.	0.7	91
414	Tunable Radiation Source through Upshifting without Ionization. <i>Physical Review Letters</i> , 1998, 80, 2598-2601.	2.9	7

#	ARTICLE	IF	CITATIONS
415	TFTR DT experiments. Plasma Physics and Controlled Fusion, 1997, 39, B103-B114.	0.9	35
416	Alpha-particle physics in the tokamak fusion test reactor DT experiment. Plasma Physics and Controlled Fusion, 1997, 39, A275-A283.	0.9	23
417	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. Physics of Plasmas, 1997, 4, 1714-1724.	0.7	27
418	Beam-channeled laser-wakefield accelerator. Physical Review E, 1997, 55, 6297-6300.	0.8	7
419	Cooling Energetic Particles in a Tokamak with Waves. Physical Review Letters, 1997, 79, 1495-1498.	2.9	67
420	Polarization of Atomic Radiation in Stochastic Plasma Fields. Physical Review Letters, 1997, 79, 669-672.	2.9	2
421	Relativistic effects in energy extraction from alpha particles. Physics of Plasmas, 1997, 4, 138-145.	0.7	6
422	Electron-ion collisions in intensely illuminated plasmas. Physics of Plasmas, 1997, 4, 428-436.	0.7	17
423	Beam-generated plasma channels for laser wakefield acceleration. , 1997, , .		0
424	Redistribution function of resonance radiation for atoms with degenerate structure. AIP Conference Proceedings, 1997, , .	0.3	0
425	Alpha particle losses from Tokamak Fusion Test Reactor deuterium-tritium plasmas. Physics of Plasmas, 1996, 3, 1875-1880.	0.7	25
426	Enhanced loss of fast ions during mode conversion ion Bernstein wave heating in TFTR. Nuclear Fusion, 1996, 36, 509-513.	1.6	29
427	Plasma discreteness effects in the presence of an intense, ultrashort laser pulse. Physics of Plasmas, 1996, 3, 1430-1436.	0.7	1
428	Mode conversion experiments in TFTR. , 1996, , .		1
429	Enhanced loss of fusion products during mode conversion heating in TFTR. , 1996, , .		0
430	Relativistic Raman instability shifted by half-plasma frequency. Physics of Plasmas, 1996, 3, 1109-1112.	0.7	7
431	Alpha power channelling with two waves. Nuclear Fusion, 1995, 35, 1753-1760.	1.6	48
432	Review of deuterium-tritium results from the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 2176-2188.	0.7	89

#	ARTICLE	IF	CITATIONS
433	Alpha power channeling using ion Bernstein waves. <i>Physics of Plasmas</i> , 1995, 2, 2375-2380.	0.7	55
434	Overview of DT results from TFTR. <i>Nuclear Fusion</i> , 1995, 35, 1429-1436.	1.6	41
435	Utility of extracting alpha particle energy by waves. <i>Nuclear Fusion</i> , 1994, 34, 1541-1556.	1.6	77
436	Modelling of MeV alpha particle energy transfer to lower hybrid waves. <i>Plasma Physics and Controlled Fusion</i> , 1994, 36, 855-866.	0.9	2
437	Guiding-center equations for electrons in ultraintense laser fields. <i>Physics of Plasmas</i> , 1994, 1, 1105-1116.	0.7	7
438	Excitation of Large- k_{\parallel} Ion-Bernstein Waves in Tokamaks. <i>Physical Review Letters</i> , 1994, 73, 3536-3539.	2.9	58
439	Optimization of nonthermal fusion power consistent with channeling of charged fusion product energy. <i>Journal of Fusion Energy</i> , 1994, 13, 281-289.	0.5	5
440	Phase-matched third harmonic generation in a plasma. <i>IEEE Transactions on Plasma Science</i> , 1993, 21, 105-109.	0.6	37
441	Free energy in plasmas under wave-induced diffusion. <i>Physics of Fluids B</i> , 1993, 5, 1754-1759.	1.7	25
442	Review of current drive theory: selected topics. <i>Plasma Physics and Controlled Fusion</i> , 1993, 35, A91-A104.	0.9	8
443	Fast particle resonances in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 1993, 35, B129-B140.	0.9	8
444	Ultrahigh intensity laser-plasma interaction: A Lagrangian approach*. <i>Physics of Fluids B</i> , 1993, 5, 2578-2583.	1.7	18
445	Nonlinear relativistic interaction of an ultrashort laser pulse with a cold plasma. <i>Physics of Fluids B</i> , 1992, 4, 1323-1331.	1.7	27
446	Inverse problem for bremsstrahlung radiation. <i>Physics of Fluids B</i> , 1992, 4, 762-763.	1.7	9
447	Interaction of energetic alpha particles with intense lower hybrid waves. <i>Physical Review Letters</i> , 1992, 69, 612-615.	2.9	215
448	Third-harmonic generation with ultrahigh-intensity laser pulses. <i>Physical Review Letters</i> , 1992, 69, 772-775.	2.9	75
449	Current drive by lower hybrid waves in the presence of energetic alpha particles. <i>Nuclear Fusion</i> , 1992, 32, 549-556.	1.6	47
450	Plans for a Pulse-Heated Vertical ECE System. <i>AIP Conference Proceedings</i> , 1992, , .	0.3	0

#	ARTICLE	IF	CITATIONS
451	Diagnostic applications of transient synchrotron radiation in tokamak plasmas. Physics of Fluids B, 1990, 2, 1486-1491.	1.7	2
452	Loop-voltage tomography in Tokamaks using transient synchrotron radiation. Plasma Physics and Controlled Fusion, 1990, 32, 335-357.	0.9	0
453	Plasma tomography using transient synchrotron radiation. AIP Conference Proceedings, 1989, , .	0.3	0
454	Greenâ€™s function for RF-driven current in a toroidal plasma. AIP Conference Proceedings, 1989, , .	0.3	10
455	Sensitivity of transient synchrotron radiation to Tokamak plasma parameters. Plasma Physics and Controlled Fusion, 1989, 31, 1407-1432.	0.9	5
456	Information content of transient synchrotron radiation in tokamak plasmas. Physical Review Letters, 1989, 62, 2393-2396.	2.9	7
457	Superthermal electron distribution measurements from polarized electron cyclotron emission (invited). Review of Scientific Instruments, 1988, 59, 1593-1598.	0.6	27
458	Inverse problem for incremental synchrotron radiation. Plasma Physics and Controlled Fusion, 1988, 30, 1059-1067.	0.9	6
459	Theory of current drive in plasmas. Reviews of Modern Physics, 1987, 59, 175-234.	16.4	812
460	Current in wave-driven plasmas. Physics of Fluids, 1986, 29, 180.	1.4	83
461	Transport in driven plasmas. Physics of Fluids, 1986, 29, 172.	1.4	29
462	Angular distribution of the bremsstrahlung emission during lower hybrid current drive on PLT. Nuclear Fusion, 1985, 25, 1515-1528.	1.6	72
463	Conversion of wave energy to magnetic field energy in a plasma torus. Physical Review Letters, 1985, 54, 897-900.	2.9	68
464	Comparison of the theory and the practice of lower-hybrid current drive. Physical Review A, 1985, 32, 2554-2556.	1.0	59
465	Asymptotic analysis of radio frequency heated collisional plasma. Physics of Fluids, 1985, 28, 3107.	1.4	14
466	Conductivity of rfâ€™heated plasma. Physics of Fluids, 1985, 28, 245-247.	1.4	73
467	Efficiency of current drive by fast waves. Physics of Fluids, 1985, 28, 116-126.	1.4	143
468	Modelling of the electron distribution based on bremsstrahlung emission during lower-hybrid current drive on PLT. Nuclear Fusion, 1985, 25, 1529-1541.	1.6	62

#	ARTICLE	IF	CITATIONS
469	Current generation in tokamaks by phased injection of pellets. Nuclear Fusion, 1984, 24, 378-386.	1.6	8
470	Field reversal by rotating waves. Nuclear Fusion, 1982, 22, 423-427.	1.6	14
471	Reply to "Comments by W.N. Hugrass on the paper by N.J. Fisch, T. Watanabe "Field reversal by rotating waves"(Nucl. Fusion 22 (1982) 423)". Nuclear Fusion, 1982, 22, 1243-1244.	1.6	0
472	CURRENT GENERATION IN TOROIDAL PLASMA. , 1982, , 841-847.		2
473	Current generation with low-frequency waves. Physics of Fluids, 1981, 24, 27.	1.4	144
474	Current generation in a relativistic plasma. Physical Review A, 1981, 24, 3245-3248.	1.0	65
475	Effect of resonance broadening on the evolution of the edge of a turbulent spectrum. Physics of Fluids, 1981, 24, 504.	1.4	3
476	Currents driven by electron cyclotron waves. Nuclear Fusion, 1981, 21, 1549-1557.	1.6	67
477	Current generation by minority-species heating. Nuclear Fusion, 1981, 21, 15-22.	1.6	73
478	METHODS OF DRIVING CURRENT BY HEATING A TOROIDAL PLASMA. , 1981, , 1157-1162.		0
479	Separating variables in two-way diffusion equations. Journal of Mathematical Physics, 1980, 21, 740-750.	0.5	51
480	Creating an Asymmetric Plasma Resistivity with Waves. Physical Review Letters, 1980, 45, 720-722.	2.9	414
481	Numerical studies of current generation by radio-frequency traveling waves. Physics of Fluids, 1979, 22, 1817.	1.4	219
482	Confining a Tokamak Plasma with rf-Driven Currents.. Physical Review Letters, 1979, 42, 410-410.	2.9	8
483	Confining a Tokamak Plasma with rf-Driven Currents. Physical Review Letters, 1978, 41, 873-876.	2.9	550
484	Resonance Broadening for Wave-Particle and Wave-Wave Turbulence. Physical Review Letters, 1975, 35, 373-376.	2.9	6
485	Effect of magnetic field distribution in cylindrical Hall current plasma sources. , 0, , .		0
486	Operation of ferroelectric plasma cathodes in magnetic field. , 0, , .		0

#	ARTICLE	IF	CITATIONS
487	A study of wall effects on hall thruster operation. , 0, , .		0