

Nathaniel Fisch

List of Publications by Year in descending order

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487
papers

13,684
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95
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496
all docs

496
docs citations

496
times ranked

3326
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of current drive in plasmas. <i>Reviews of Modern Physics</i> , 1987, 59, 175-234.	45.8	812
2	Confining a Tokamak Plasma with rf-Driven Currents. <i>Physical Review Letters</i> , 1978, 41, 873-876.	7.9	550
3	Creating an Asymmetric Plasma Resistivity with Waves. <i>Physical Review Letters</i> , 1980, 45, 720-722.	7.9	414
4	Fast Compression of Laser Beams to Highly Overcritical Powers. <i>Physical Review Letters</i> , 1999, 82, 4448-4451.	7.9	389
5	Numerical studies of current generation by radio-frequency traveling waves. <i>Physics of Fluids</i> , 1979, 22, 1817.	1.4	219
6	Interaction of energetic alpha particles with intense lower hybrid waves. <i>Physical Review Letters</i> , 1992, 69, 612-615.	7.9	215
7	Superradiant Amplification of an Ultrashort Laser Pulse in a Plasma by a Counterpropagating Pump. <i>Physical Review Letters</i> , 1998, 81, 4879-4882.	7.9	204
8	Parametric investigations of a nonconventional Hall thruster. <i>Physics of Plasmas</i> , 2001, 8, 2579-2586.	1.9	165
9	Current generation with low-frequency waves. <i>Physics of Fluids</i> , 1981, 24, 27.	1.4	144
10	Efficiency of current drive by fast waves. <i>Physics of Fluids</i> , 1985, 28, 116-126.	1.4	143
11	Detuned Raman Amplification of Short Laser Pulses in Plasma. <i>Physical Review Letters</i> , 2000, 84, 1208-1211.	7.9	138
12	Reaching the Nonlinear Regime of Raman Amplification of Ultrashort Laser Pulses. <i>Physical Review Letters</i> , 2005, 94, 045003.	7.9	137
13	Cross-field electron transport induced by a rotating spoke in a cylindrical Hall thruster. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	125
14	Exawatt-Zettawatt pulse generation and applications. <i>Optics Communications</i> , 2012, 285, 720-724.	2.2	125
15	Secondary electron emission from dielectric materials of a Hall thruster with segmented electrodes. <i>Physics of Plasmas</i> , 2003, 10, 2574-2577.	1.9	123
16	Recent progress in neutrino factory and muon collider research within the Muon Collaboration. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2003, 6, .	1.8	123
17	Amplification of Ultrashort Laser Pulses by a Resonant Raman Scheme in a Gas-Jet Plasma. <i>Physical Review Letters</i> , 2004, 92, 175007.	7.9	123
18	Ultra-powerful compact amplifiers for short laser pulses. <i>Physics of Plasmas</i> , 2000, 7, 2232-2240.	1.9	115

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19	Electron-wall interaction in Hall thrusters. <i>Physics of Plasmas</i> , 2005, 12, 057104.	1.9	114
20	Parametric investigation of miniaturized cylindrical and annular Hall thrusters. <i>Journal of Applied Physics</i> , 2002, 92, 5673-5679.	2.5	109
21	A comparison of emissive probe techniques for electric potential measurements in a complex plasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	104
22	Compression of powerful x-ray pulses to attosecond durations by stimulated Raman backscattering in plasmas. <i>Physical Review E</i> , 2007, 75, 026404.	2.1	95
23	Fusion plasma experiments on TFTR: A 20 year retrospective. <i>Physics of Plasmas</i> , 1998, 5, 1577-1589.	1.9	91
24	Review of deuterium-tritium results from the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1995, 2, 2176-2188.	1.9	89
25	Physics of E ₀ discharges relevant to plasma propulsion and similar technologies. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	89
26	Experimental and theoretical studies of cylindrical Hall thrusters. <i>Physics of Plasmas</i> , 2007, 14, 057106.	1.9	88
27	Electron cross-field transport in a low power cylindrical Hall thruster. <i>Physics of Plasmas</i> , 2004, 11, 4922-4933.	1.9	86
28	Current in wave-driven plasmas. <i>Physics of Fluids</i> , 1986, 29, 180.	1.4	83
29	Plasma measurements in a 100 W cylindrical Hall thruster. <i>Journal of Applied Physics</i> , 2004, 95, 2283-2292.	2.5	83
30	Measurements of secondary electron emission effects in the Hall thruster discharge. <i>Physics of Plasmas</i> , 2006, 13, 014502.	1.9	82
31	Generation of ultrahigh intensity laser pulses. <i>Physics of Plasmas</i> , 2003, 10, 2056-2063.	1.9	81
32	Plume reduction in segmented electrode Hall thruster. <i>Journal of Applied Physics</i> , 2000, 88, 1263-1270.	2.5	80
33	Transition in electron transport in a cylindrical Hall thruster. <i>Applied Physics Letters</i> , 2010, 97, .	3.4	79
34	Utility of extracting alpha particle energy by waves. <i>Nuclear Fusion</i> , 1994, 34, 1541-1556.	3.5	77
35	Experimental studies of high-frequency azimuthal waves in Hall thrusters. <i>Physics of Plasmas</i> , 2004, 11, 1701-1705.	1.9	76
36	Space charge saturated sheath regime and electron temperature saturation in Hall thrusters. <i>Physics of Plasmas</i> , 2005, 12, 073507.	1.9	76

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37	Third-harmonic generation with ultrahigh-intensity laser pulses. <i>Physical Review Letters</i> , 1992, 69, 772-775.	7.9	75
38	Rayleigh instability in Hall thrusters. <i>Physics of Plasmas</i> , 2004, 11, 1379-1383.	1.9	74
39	Current generation by minority-species heating. <i>Nuclear Fusion</i> , 1981, 21, 15-22.	3.5	73
40	Conductivity of rf-heated plasma. <i>Physics of Fluids</i> , 1985, 28, 245-247.	1.4	73
41	Angular distribution of the bremsstrahlung emission during lower hybrid current drive on PLT. <i>Nuclear Fusion</i> , 1985, 25, 1515-1528.	3.5	72
42	Resistive instabilities in Hall current plasma discharge. <i>Physics of Plasmas</i> , 2001, 8, 648-651.	1.9	72
43	Effect of Secondary Electron Emission on Electron Cross-Field Current in $E \times B$ Discharges. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 995-1006.	1.3	72
44	Operating regime for a backward Raman laser amplifier in preformed plasma. <i>Physics of Plasmas</i> , 2003, 10, 3363-3370.	1.9	70
45	A compact double-pass Raman backscattering amplifier/compressor. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	69
46	Conversion of wave energy to magnetic field energy in a plasma torus. <i>Physical Review Letters</i> , 1985, 54, 897-900.	7.9	68
47	Currents driven by electron cyclotron waves. <i>Nuclear Fusion</i> , 1981, 21, 1549-1557.	3.5	67
48	Cooling Energetic Particles in a Tokamak with Waves. <i>Physical Review Letters</i> , 1997, 79, 1495-1498.	7.9	67
49	Demonstration of ultrashort laser pulse amplification in plasmas by a counterpropagating pumping beam. <i>Physical Review E</i> , 2000, 62, R4532-R4535.	2.1	67
50	Current generation in a relativistic plasma. <i>Physical Review A</i> , 1981, 24, 3245-3248.	2.5	65
51	The magnetic centrifugal mass filter. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	64
52	Control of the electric-field profile in the Hall thruster. <i>Physics of Plasmas</i> , 2001, 8, 1048-1056.	1.9	63
53	Limiting effects on laser compression by resonant backward Raman scattering in modern experiments. <i>Physics of Plasmas</i> , 2011, 18, 056711.	1.9	63
54	Modelling of the electron distribution based on bremsstrahlung emission during lower-hybrid current drive on PLT. <i>Nuclear Fusion</i> , 1985, 25, 1529-1541.	3.5	62

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55	Suppression of Superluminous Precursors in High-Power Backward Raman Amplifiers. Physical Review Letters, 2002, 88, 235004.	7.9	62
56	Effects of segmented electrode in Hall current plasma thrusters. Journal of Applied Physics, 2002, 92, 4906-4911.	2.5	60
57	Comparison of the theory and the practice of lower-hybrid current drive. Physical Review A, 1985, 32, 2554-2556.	2.5	59
58	Excitation of Large- k_{\perp} Ion-Bernstein Waves in Tokamaks. Physical Review Letters, 1994, 73, 3536-3539.	7.9	58
59	Aneutronic fusion in a degenerate plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 329, 76-82.	2.2	57
60	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Channeling in a Rotating Plasma. Physical Review Letters, 2008, 101, 205003.	7.9	57
61	Development of a nanosecond-laser-pumped Raman amplifier for short laser pulses in plasma. Physics of Plasmas, 2009, 16, 123113.	1.9	57
62	Alpha power channeling using ion-Bernstein waves. Physics of Plasmas, 1995, 2, 2375-2380.	1.9	55
63	Enhanced ionization in the cylindrical Hall thruster. Journal of Applied Physics, 2003, 94, 852-857.	2.5	53
64	Enhanced performance of cylindrical Hall thrusters. Applied Physics Letters, 2007, 90, 221502.	3.4	53
65	Storing, Retrieving, and Processing Optical Information by Raman Backscattering in Plasmas. Physical Review Letters, 2002, 88, 165001.	7.9	52
66	Current-Drive Efficiency in a Degenerate Plasma. Physical Review Letters, 2005, 95, 225002.	7.9	52
67	Separating variables in two-way diffusion equations. Journal of Mathematical Physics, 1980, 21, 740-750.	1.1	51
68	Compression of Atomic Phase Space Using an Asymmetric One-Way Barrier. Physical Review Letters, 2005, 94, 053003.	7.9	50
69	Axiomatic geometrical optics, Abraham-Minkowski controversy, and photon properties derived classically. Physical Review A, 2012, 86, .	2.5	50
70	Plasma mass separation. Physics of Plasmas, 2018, 25, .	1.9	49
71	Alpha power channelling with two waves. Nuclear Fusion, 1995, 35, 1753-1760.	3.5	48
72	Demonstration of detuning and wavebreaking effects on Raman amplification efficiency in plasma. Physics of Plasmas, 2008, 15, .	1.9	48

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73	Backward Raman amplification in the Langmuir wavebreaking regime. <i>Physics of Plasmas</i> , 2014, 21, 113110.	1.9	48
74	Key plasma parameters for resonant backward Raman amplification in plasma. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1157-1167.	2.6	48
75	Current drive by lower hybrid waves in the presence of energetic alpha particles. <i>Nuclear Fusion</i> , 1992, 32, 549-556.	3.5	47
76	Random density inhomogeneities and focusability of the output pulses for plasma-based powerful backward Raman amplifiers. <i>Physics of Plasmas</i> , 2003, 10, 2540-2544.	1.9	47
77	Effects of enhanced cathode electron emission on Hall thruster operation. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	47
78	Seed Laser Chirping for Enhanced Backward Raman Amplification in Plasmas. <i>Physical Review Letters</i> , 2012, 109, 085003.	7.9	47
79	Robustness of laser phase fronts in backward Raman amplifiers. <i>Physics of Plasmas</i> , 2002, 9, 3617-3624.	1.9	46
80	Quasitransient regimes of backward Raman amplification of intense x-ray pulses. <i>Physical Review E</i> , 2009, 80, 046409.	2.1	44
81	Experimental studies of anode sheath phenomena in a Hall thruster discharge. <i>Journal of Applied Physics</i> , 2005, 97, 103309.	2.5	42
82	Manipulating ultraintense laser pulses in plasmas. <i>Physics of Plasmas</i> , 2005, 12, 044507.	1.9	42
83	Overview of DT results from TFTR. <i>Nuclear Fusion</i> , 1995, 35, 1429-1436.	3.5	41
84	Variable operation of Hall thruster with multiple segmented electrodes. <i>Journal of Applied Physics</i> , 2001, 89, 2040-2046.	2.5	41
85	Temperature gradient in Hall thrusters. <i>Applied Physics Letters</i> , 2004, 84, 3028-3030.	3.4	41
86	Simplified model of nonlinear Landau damping. <i>Physics of Plasmas</i> , 2009, 16, 072104.	1.9	41
87	Relic Crystal-Lattice Effects on Raman Compression of Powerful X-Ray Pulses in Plasmas. <i>Physical Review Letters</i> , 2007, 99, 205001.	7.9	40
88	Cylindrical Hall thrusters with permanent magnets. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	40
89	Raman amplification of ultrashort laser pulses in microcapillary plasmas. <i>Physical Review E</i> , 2002, 66, 046401.	2.1	39
90	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.	1.9	39

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91	Phase-space dynamics of runaway electrons in tokamaks. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	39
92	Collective Deceleration of Relativistic Electrons Precisely in the Core of an Inertial-Fusion Target. <i>Physical Review Letters</i> , 2002, 89, 125004.	7.9	39
93	Multi-beam effects on backscatter and its saturation in experiments with conditions relevant to ignition. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	38
94	Opportunities for plasma separation techniques in rare earth elements recycling. <i>Journal of Cleaner Production</i> , 2018, 182, 1060-1069.	9.4	38
95	Phase-matched third harmonic generation in a plasma. <i>IEEE Transactions on Plasma Science</i> , 1993, 21, 105-109.	1.3	37
96	Magnetic field generation through angular momentum exchange between circularly polarized radiation and charged particles. <i>Physical Review E</i> , 2002, 65, 046403.	2.1	37
97	Inverse bremsstrahlung stabilization of noise in the generation of ultrashort intense pulses by backward Raman amplification. <i>Physics of Plasmas</i> , 2004, 11, 1931-1937.	1.9	37
98	The efficiency of Raman amplification in the wavebreaking regime. <i>Physics of Plasmas</i> , 2015, 22, 074501.	1.9	37
99	Stimulated Raman Scattering of Rapidly Amplified Short Laser Pulses. <i>Physical Review Letters</i> , 2000, 85, 4068-4071.	7.9	36
100	Langmuir wave linear evolution in inhomogeneous nonstationary anisotropic plasma. <i>Physics of Plasmas</i> , 2009, 16, 112101.	1.9	36
101	TFTR DT experiments. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, B103-B114.	2.1	35
102	Shielded electrostatic probe for nonperturbing plasma measurements in Hall thrusters. <i>Review of Scientific Instruments</i> , 2004, 75, 393-399.	1.3	35
103	Plasma filtering techniques for nuclear waste remediation. <i>Journal of Hazardous Materials</i> , 2015, 297, 153-159.	12.5	35
104	Plasma $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi} \rangle \text{q} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-plate}$ for generation and manipulation of intense optical vortices. <i>Physical Review E</i> , 2017, 96, 053207.	2.1	35
105	Electrostatic probe apparatus for measurements in the near-anode region of Hall thrusters. <i>Review of Scientific Instruments</i> , 2004, 75, 1255-1260.	1.3	34
106	Electron cross-field transport in a miniaturized cylindrical Hall thruster. <i>IEEE Transactions on Plasma Science</i> , 2006, 34, 132-141.	1.3	34
107	Wave-driven countercurrent plasma centrifuge. <i>Plasma Sources Science and Technology</i> , 2009, 18, 045003.	3.1	34
108	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.	2.2	33

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109	Ponderomotive barrier as a Maxwell demon. <i>Physics of Plasmas</i> , 2004, 11, 5046-5064.	1.9	33
110	Alpha Channeling in Mirror Machines. <i>Physical Review Letters</i> , 2006, 97, 225001.	7.9	33
111	Positive and negative effective mass of classical particles in oscillatory and static fields. <i>Physical Review E</i> , 2008, 77, 036402.	2.1	33
112	An upper bound to time-averaged space-charge limited diode currents. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	33
113	Ionization, Plume Properties, and Performance of Cylindrical Hall Thrusters. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 1052-1057.	1.3	33
114	Ion acceleration in supersonically rotating magnetized-electron plasma. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 124038.	2.1	33
115	Sudden Viscous Dissipation of Compressing Turbulence. <i>Physical Review Letters</i> , 2016, 116, 105004.	7.9	33
116	Strongly Enhanced Stimulated Brillouin Backscattering in an Electron-Positron Plasma. <i>Physical Review Letters</i> , 2016, 116, 015004.	7.9	33
117	Generation of periodic accelerating structures in plasma by colliding laser pulses. <i>Physical Review E</i> , 1999, 60, 2218-2223.	2.1	32
118	Cathode effects in cylindrical Hall thrusters. <i>Journal of Applied Physics</i> , 2008, 104, 103302.	2.5	32
119	Effect of nonlinear Landau damping in plasma-based backward Raman amplifier. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	32
120	Fast Camera Imaging of Hall Thruster Ignition. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2950-2951.	1.3	32
121	Backward Raman amplification of ionizing laser pulses. <i>Physics of Plasmas</i> , 2001, 8, 4698-4699.	1.9	31
122	Magnetic-field generation and electron acceleration in relativistic laser channel. <i>Physics of Plasmas</i> , 2002, 9, 636-648.	1.9	31
123	Plasma acceleration from radio-frequency discharge in dielectric capillary. <i>Applied Physics Letters</i> , 2006, 88, 251502.	3.4	31
124	Operation of a segmented Hall thruster with low-sputtering carbon-velvet electrodes. <i>Journal of Applied Physics</i> , 2006, 99, 036103.	2.5	31
125	Plasma mass filtering for separation of actinides from lanthanides. <i>Plasma Sources Science and Technology</i> , 2014, 23, 035002.	3.1	31
126	Short-pulse amplification by strongly coupled stimulated Brillouin scattering. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	31

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127	Noise suppression and enhanced focusability in plasma Raman amplifier with multi-frequency pump. <i>Physics of Plasmas</i> , 2003, 10, 4856-4864.	1.9	30
128	Particle-in-cell simulations of Raman laser amplification in preformed plasmas. <i>Physics of Plasmas</i> , 2003, 10, 4848-4855.	1.9	30
129	Finite-duration seeding effects in powerful backward Raman amplifiers. <i>Physical Review E</i> , 2004, 69, 036401.	2.1	30
130	Transport in driven plasmas. <i>Physics of Fluids</i> , 1986, 29, 172.	1.4	29
131	Enhanced loss of fast ions during mode conversion ion Bernstein wave heating in TFTR. <i>Nuclear Fusion</i> , 1996, 36, 509-513.	3.5	29
132	Numerical modeling of quasitransient backward Raman amplification of laser pulses in moderately undercritical plasmas with multicharged ions. <i>Physics of Plasmas</i> , 2011, 18, 102311.	1.9	29
133	Regime for a self-ionizing Raman laser amplifier. <i>Physics of Plasmas</i> , 2002, 9, 2772-2780.	1.9	28
134	Relativistic electron acceleration in focused laser fields after above-threshold ionization. <i>Physical Review E</i> , 2003, 68, 056402.	2.1	28
135	Effect of anode dielectric coating on Hall thruster operation. <i>Applied Physics Letters</i> , 2004, 84, 1070-1072.	3.4	28
136	Statistical mechanics of an optical phase space compressor. <i>Europhysics Letters</i> , 2005, 70, 761-767.	2.1	28
137	Superthermal electron distribution measurements from polarized electron cyclotron emission (invited). <i>Review of Scientific Instruments</i> , 1988, 59, 1593-1598.	1.3	27
138	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
139	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1714-1724.	1.9	27
140	Physics of alpha channelling and related TFTR experiments. <i>Nuclear Fusion</i> , 2000, 40, 1095-1100.	3.5	27
141	Current Drive in a Ponderomotive Potential with Sign Reversal. <i>Physical Review Letters</i> , 2003, 91, 205004.	7.9	27
142	Quasitransient backward Raman amplification of powerful laser pulses in dense plasmas with multicharged ions. <i>Physics of Plasmas</i> , 2010, 17, 073109.	1.9	27
143	The double well mass filter. <i>Physics of Plasmas</i> , 2014, 21, 020701.	1.9	27
144	Reducing parametric backscattering by polarization rotation. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	27

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145	Theory of electromagnetic wave frequency upconversion in dynamic media. <i>Physical Review E</i> , 2018, 98, 023202.	2.1	27
146	Laser Amplification in Strongly Magnetized Plasma. <i>Physical Review Letters</i> , 2019, 123, 025001.	7.9	27
147	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.	2.6	26
148	Performance of a Low-Power Cylindrical Hall Thruster. <i>Journal of Propulsion and Power</i> , 2007, 23, 886-888.	2.2	26
149	Laser induced fluorescence measurements of the cylindrical Hall thruster plume. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	26
150	$E \times B$ configurations for high-throughput plasma mass separation: An outlook on possibilities and challenges. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	26
151	Free energy in plasmas under wave-induced diffusion. <i>Physics of Fluids B</i> , 1993, 5, 1754-1759.	1.7	25
152	Alpha particle losses from Tokamak Fusion Test Reactor deuterium-tritium plasmas. <i>Physics of Plasmas</i> , 1996, 3, 1875-1880.	1.9	25
153	Effect of quantum uncertainty on the rate of nuclear reactions in the Sun. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 274, 64-68.	2.2	25
154	Parametric Excitations of Fast Plasma Waves by Counterpropagating Laser Beams. <i>Physical Review Letters</i> , 2001, 86, 3328-3331.	7.9	25
155	Feedback control of an azimuthal oscillation in the $E \times B$ discharge of Hall thrusters. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	25
156	Saturation of the leading spike growth in backward Raman amplifiers. <i>Physics of Plasmas</i> , 2014, 21, 093112.	1.9	25
157	Suppression of Tearing Modes by Radio Frequency Current Condensation. <i>Physical Review Letters</i> , 2018, 121, 225001.	7.9	25
158	Observation of amplification of light by Langmuir waves and its saturation on the electron kinetic timescale. <i>Journal of Plasma Physics</i> , 2011, 77, 521-528.	2.1	24
159	Distinguishing Raman from strongly coupled Brillouin amplification for short pulses. <i>Physics of Plasmas</i> , 2016, 23, 053118.	1.9	24
160	Initial experimental test of a helicon plasma based mass filter. <i>Plasma Sources Science and Technology</i> , 2016, 25, 035024.	3.1	24
161	Laser-pulse compression using magnetized plasmas. <i>Physical Review E</i> , 2017, 95, 023211.	2.1	24
162	Alpha-particle physics in the tokamak fusion test reactor DT experiment. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, A275-A283.	2.1	23

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163	A tutorial on α -channelling. Plasma Physics and Controlled Fusion, 1999, 41, A221-A228.	2.1	23
164	Fast ion absorption of the high harmonic fast wave in the National Spherical Torus Experiment. Physics of Plasmas, 2004, 11, 2441-2452.	1.9	23
165	On the evolution of linear waves in cosmological plasmas. Physical Review D, 2010, 82, .	4.7	23
166	Heat pump model for Ranque-Hilsch vortex tubes. International Journal of Heat and Mass Transfer, 2017, 107, 771-777.	4.9	23
167	Turbulent stagnation in a Z -pinch plasma. Physical Review E, 2018, 97, 013202.	2.1	23
168	Effect of magnetic field profile on the anode fall in a Hall-effect thruster discharge. Physics of Plasmas, 2006, 13, 057104.	1.9	22
169	Magnetic detachment and plume control in escaping magnetized plasma. Journal of Plasma Physics, 2009, 75, 359-371.	2.1	22
170	Adiabatic nonlinear waves with trapped particles. I. General formalism. Physics of Plasmas, 2012, 19, .	1.9	22
171	Efficiency of wave-driven rigid body rotation toroidal confinement. Physics of Plasmas, 2017, 24, .	1.9	22
172	Laser-plasma interactions in magnetized environment. Physics of Plasmas, 2018, 25, .	1.9	22
173	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.	1.9	21
174	Controlling the Plasma Flow in the Miniaturized Cylindrical Hall Thruster. IEEE Transactions on Plasma Science, 2008, 36, 1998-2003.	1.3	21
175	Laser duration and intensity limits in plasma backward Raman amplifiers. Physics of Plasmas, 2012, 19, 023109.	1.9	21
176	Practical considerations in realizing a magnetic centrifugal mass filter. Physics of Plasmas, 2012, 19, .	1.9	21
177	Coupling of α channeling to parallel wavenumber upshift in lower hybrid current drive. Physics of Plasmas, 2015, 22, .	1.9	21
178	Plasma Wave Seed for Raman Amplifiers. Physical Review Letters, 2017, 118, 164801.	7.9	21
179	Kinetic simulations of ladder climbing by electron plasma waves. Physical Review E, 2017, 95, 053212.	2.1	21
180	Simulations of relativistic quantum plasmas using real-time lattice scalar QED. Physical Review E, 2018, 97, 053206.	2.1	21

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181	Backward Raman amplification in a partially ionized gas. <i>Physical Review E</i> , 2005, 72, 036401.	2.1	20
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