

Christine Charles

List of Publications by Year in descending order

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227
papers

6,442
citations

71102

41
h-index

91884

69
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230
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230
docs citations

230
times ranked

2300
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Submillinewton Thrust Measurements Between a Laser Interferometer and a Load Cell on a Pendulum Balance. <i>Frontiers in Space Technologies</i> , 2021, 2, .	1.4	0
2	Preliminary Measurements of a Magnetic Steering System for RF Plasma Thruster Applications. , 2021, , .		5
3	Characterization of a new variable magnetic field linear plasma device. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	7
4	Naphthalene as a Cubesat Cold Gas Thruster Propellant. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	2
5	Thermodynamic Analogy for Electrons Interacting with a Magnetic Nozzle. <i>Physical Review Letters</i> , 2020, 125, 165001.	7.8	24
6	Commentary: On helicon thrusters: Will they ever fly?. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	7
7	An Inductively-Coupled Plasma Electrothermal Radiofrequency Thruster. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	8
8	Characterization and Control of an Ion-Acoustic Plasma Instability Downstream of a Diverging Magnetic Nozzle. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	5
9	The INSPIRE-2 CubeSat for the QB50 Project. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	2
10	High-temperature hypersonic Laval nozzle for non-LTE cavity ringdown spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 134201.	3.0	17
11	Decoupling ion energy and flux in intermediate pressure capacitively coupled plasmas via tailored voltage waveforms. <i>Plasma Sources Science and Technology</i> , 2020, 29, 124002.	3.1	11
12	Inducing locally structured ion energy distributions in intermediate-pressure plasmas. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	4
13	Non-local plasma generation in a magnetic nozzle. <i>Physics of Plasmas</i> , 2019, 26, 072107.	1.9	13
14	Field-aligned Boltzmann electric triple layer in a low-pressure expanding plasma. <i>Plasma Sources Science and Technology</i> , 2019, 28, 06LT01.	3.1	4
15	Control of electron, ion and neutral heating in a radio-frequency electrothermal microthruster via dual-frequency voltage waveforms. <i>Plasma Sources Science and Technology</i> , 2019, 28, 035019.	3.1	4
16	Current-Free Electric Double Layer in a Small Collisional Plasma Thruster Nozzle Simulation. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	1
17	<i>In situ</i> electrostatic characterisation of ion beams in the region of ion acceleration. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	12
18	Space micropropulsion systems for Cubesats and small satellites: From proximate targets to furthestmost frontiers. <i>Applied Physics Reviews</i> , 2018, 5, .	11.3	242

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19	Adiabatic Expansion of Electron Gas in a Magnetic Nozzle. <i>Physical Review Letters</i> , 2018, 120, 045001.	7.8	39
20	Performance modelling of plasma microthruster nozzles in vacuum. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	12
21	An Integrated RF Power Delivery and Plasma Micro-Thruster System for Nano-Satellites. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	12
22	Demonstrating a new technology for space debris removal using a bi-directional plasma thruster. <i>Scientific Reports</i> , 2018, 8, 14417.	3.3	37
23	Redefinition of the self-bias voltage in a dielectrically shielded thin sheath RF discharge. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	5
24	Separating the location of geometric and magnetic expansions in low-pressure expanding plasmas. <i>Plasma Sources Science and Technology</i> , 2018, 27, 075003.	3.1	10
25	Selective radial release of hot, magnetised electrons downstream of a low-pressure expanding plasma. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 375204.	2.8	9
26	Spatio-temporal plasma heating mechanisms in a radio frequency electrothermal microthruster. <i>Plasma Sources Science and Technology</i> , 2018, 27, 085011.	3.1	10
27	Cross-field transport of electrons at the magnetic throat in an annular plasma reactor. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 015205.	2.8	2
28	Structurally supportive RF power inverter for a CubeSat electrothermal plasma micro-thruster with PCB inductors. , 2017, , .		9
29	High temperature electrons exhausted from rf plasma sources along a magnetic nozzle. <i>Physics of Plasmas</i> , 2017, 24, 084503.	1.9	55
30	Neutral gas heating and ion transport in a constricted plasma flow. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	12
31	A Comprehensive Cold Gas Performance Study of the Pocket Rocket Radiofrequency Electrothermal Microthruster. <i>Frontiers in Physics</i> , 2017, 4, .	2.1	18
32	Microplasma Array Patterning of Reactive Oxygen and Nitrogen Species onto Polystyrene. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	0
33	Density Measurements in Low Pressure, Weakly Magnetized, RF Plasmas: Experimental Verification of the Sheath Expansion Effect. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	8
34	Vacuum Testing of a Miniaturized Switch Mode Amplifier Powering an Electrothermal Plasma Micro-Thruster. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	13
35	A compact RF power inverter with reduced EMI for a CubeSat electrothermal micro-thruster. , 2017, , .		1
36	Direct Measurement of Axial Momentum Imparted by an Electrothermal Radiofrequency Plasma Micro-Thruster. <i>Frontiers in Physics</i> , 2016, 4, .	2.1	18

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37	Effect of radial plasma transport at the magnetic throat on axial ion beam formation. Physics of Plasmas, 2016, 23, 083515.	1.9	11
38	Measurement of bi-directional ion acceleration along a convergent-divergent magnetic nozzle. Applied Physics Letters, 2016, 108, .	3.3	4
39	Collisionless expansion of pulsed radio frequency plasmas. I. Front formation. Physics of Plasmas, 2016, 23, 013511.	1.9	1
40	How plasma induced oxidation, oxygenation, and de-oxygenation influences viability of skin cells. Applied Physics Letters, 2016, 109, .	3.3	25
41	Neutral gas temperature estimates and metastable resonance energy transfer for argon-nitrogen discharges. Physics of Plasmas, 2016, 23, .	1.9	16
42	Collisionless expansion of pulsed radio frequency plasmas. II. Parameter study. Physics of Plasmas, 2016, 23, 013512.	1.9	1
43	Plasma Catalytic Synthesis of Ammonia Using Functionalized-Carbon Coatings in an Atmospheric-Pressure Non-equilibrium Discharge. Plasma Chemistry and Plasma Processing, 2016, 36, 917-940.	2.4	74
44	A POLYTROPIC MODEL FOR SPACE AND LABORATORY PLASMAS DESCRIBED BY BI-MAXWELLIAN ELECTRON DISTRIBUTIONS. Astrophysical Journal, 2016, 829, 10.	4.5	11
45	Thermodynamic Study on Plasma Expansion along a Divergent Magnetic Field. Physical Review Letters, 2016, 116, 025001.	7.8	41
46	A Short Review of Experimental and Computational Diagnostics for Radiofrequency Plasma Micro-thrusters. Plasma Chemistry and Plasma Processing, 2016, 36, 29-44.	2.4	25
47	Characterization of an annular helicon plasma source powered by an outer or inner RF antenna. Plasma Sources Science and Technology, 2016, 25, 015007.	3.1	2
48	Approximants to the Tonks-Langmuir theory for a collisionless annular plasma. Physical Review E, 2015, 92, 063103.	2.1	0
49	Diagnostic Efficacy of a Single Progesterone Determination to Assess Full-Term Pregnancy in the Bitch. Reproduction in Domestic Animals, 2015, 50, 1028-1031.	1.4	15
50	Simulation of main plasma parameters of a cylindrical asymmetric capacitively coupled plasma micro-thruster using computational fluid dynamics. Frontiers in Physics, 2015, 2, .	2.1	15
51	Electron energy probability function and L-p similarity in low pressure inductively coupled bounded plasma. Frontiers in Physics, 2015, 3, .	2.1	4
52	Non-local electron energy probability function in a plasma expanding along a magnetic nozzle. Frontiers in Physics, 2015, 3, .	2.1	31
53	Spatiotemporal study of gas heating mechanisms in a radio-frequency electrothermal plasma micro-thruster. Frontiers in Physics, 2015, 3, .	2.1	9
54	Principle of radial transport in low temperature annular plasmas. Physics of Plasmas, 2015, 22, .	1.9	5

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55	Particle in cell simulation of a radiofrequency plasma jet expanding in vacuum. Applied Physics Letters, 2015, 106, .	3.3	10
56	Grand challenges in low-temperature plasma physics. Frontiers in Physics, 2014, 2, .	2.1	8
57	Experimental Identification of Thrust Components Imparted by an Electrodeless Helicon Plasma Thruster. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Pb_1-Pb_6.	0.2	1
58	Volume and surface propellant heating in an electrothermal radio-frequency plasma micro-thruster. Applied Physics Letters, 2014, 105, .	3.3	31
59	An Experimental and Analytical Study of an Asymmetric Capacitively Coupled Plasma Used for Plasma Polymerization. Plasma Processes and Polymers, 2014, 11, 833-841.	3.0	25
60	Effect of magnetic and physical nozzles on plasma thruster performance. Plasma Sources Science and Technology, 2014, 23, 044004.	3.1	36
61	Collisionless expansion of pulsed rf plasmas. Journal Physics D: Applied Physics, 2014, 47, 055207.	2.8	2
62	Transport of ion beam in an annular magnetically expanding helicon double layer thruster. Physics of Plasmas, 2014, 21, .	1.9	7
63	Phase Resolved Imaging of a Repetitive Extrusion of Hydrogen Plasma From a Hollow Cathode Source. IEEE Transactions on Plasma Science, 2014, 42, 2834-2835.	1.3	1
64	Observations of a mode transition in a hydrogen hollow cathode discharge using phase resolved optical emission spectroscopy. Applied Physics Letters, 2014, 105, 014104.	3.3	2
65	Plume Characteristics of an Electrothermal Plasma Microthruster. IEEE Transactions on Plasma Science, 2014, 42, 2728-2729.	1.3	8
66	Low-Weight Fixed Ceramic Capacitor Impedance Matching System for an Electrothermal Plasma Microthruster. Journal of Propulsion and Power, 2014, 30, 1117-1121.	2.2	18
67	Direct measurement of neutral gas heating in a radio-frequency electrothermal plasma micro-thruster. Applied Physics Letters, 2013, 103, .	3.3	33
68	Induced Flow and Optical Emission Generated by a Pulsed 13.56 MHz±5 kHz Plasma Actuator. IEEE Transactions on Plasma Science, 2013, 41, 3275-3278.	1.3	4
69	Spatial evolution of EEPFs in a millimetre scale radio frequency argon plume. Journal Physics D: Applied Physics, 2013, 46, 365202.	2.8	2
70	Surface discharge plasma actuator driven by a pulsed 13.56 MHz±5 kHz voltage waveform. Journal Physics D: Applied Physics, 2013, 46, 405201.	2.8	5
71	Variable frequency matching to a radiofrequency source immersed in vacuum. Journal Physics D: Applied Physics, 2013, 46, 365203.	2.8	24
72	Performance improvement of a permanent magnet helicon plasma thruster. Journal Physics D: Applied Physics, 2013, 46, 352001.	2.8	52

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73	Defining Plasma Polymerization: New Insight Into What We Should Be Measuring. ACS Applied Materials & Interfaces, 2013, 5, 5387-5391.	8.0	30
74	A Radio Frequency Plasma Micro-Thruster: Characterization of Various Discharge Gases Through Optical Diagnostics. , 2013, , .		0
75	Interactions between arrayed hollow cathodes. Journal Physics D: Applied Physics, 2013, 46, 145204.	2.8	10
76	Approaching the Theoretical Limit of Diamagnetic-Induced Momentum in a Rapidly Diverging Magnetic Nozzle. Physical Review Letters, 2013, 110, 195003.	7.8	100
77	Boltzmann expansion in a radiofrequency conical helicon thruster operating in xenon and argon. Applied Physics Letters, 2013, 102, .	3.3	21
78	Formation of spatially periodic fronts of high-energy electrons in a radio-frequency driven surface microdischarge. Applied Physics Letters, 2013, 102, 034109.	3.3	3
79	Nanosecond optical imaging spectroscopy of an electrothermal radiofrequency plasma thruster plume. Applied Physics Letters, 2013, 103, .	3.3	9
80	Simulations of Electron Heating in a Capacitively Coupled Radio Frequency Micro-Thruster using Computational Fluid Dynamics. , 2013, , .		0
81	A magnetic nozzle calculation of the force on a plasma. Physics of Plasmas, 2012, 19, .	1.9	76
82	Axial force imparted by a current-free magnetically expanding plasma. Physics of Plasmas, 2012, 19, 083509.	1.9	39
83	Axial force imparted by a conical radiofrequency magneto-plasma thruster. Applied Physics Letters, 2012, 100, 113504.	3.3	28
84	Two new concepts in rf plasma sources for space travel. , 2012, , .		0
85	Control of diffuse and filamentary modes in an RF asymmetric surface barrier discharge in atmospheric-pressure argon. Plasma Sources Science and Technology, 2012, 21, 055016.	3.1	11
86	Investigation of radiofrequency plasma sources for space travel. Plasma Physics and Controlled Fusion, 2012, 54, 124021.	2.1	38
87	Measurement and modelling of a radiofrequency micro-thruster. Plasma Sources Science and Technology, 2012, 21, 022002.	3.1	56
88	Platinum nanocluster growth on vertically aligned carbon nanofiber arrays: Sputtering experiments and molecular dynamics simulations. Applied Surface Science, 2012, 263, 352-356.	6.1	7
89	One step multifunctional micropatterning of surfaces using asymmetric glow discharge plasma polymerization. Chemical Communications, 2012, 48, 1907.	4.1	18
90	Investigation of effect of excitation frequency on electron energy distribution functions in low pressure radio frequency bounded plasmas. Physics of Plasmas, 2011, 18, 072102.	1.9	3

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91	Particle-in-cell simulations of a current-free double layer. <i>Physics of Plasmas</i> , 2011, 18, 063502.	1.9	24
92	Mode Transitions in the Helicon Double-Layer Thruster Prototype Operating in Xenon. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2468-2469.	1.3	5
93	Propagation Structure of a 13.56-MHz Asymmetric Surface Barrier Discharge Plasma in Atmospheric-Pressure Air. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2082-2083.	1.3	0
94	Three-Dimensional Magnetic Field Mapping of the Magnetically Steered Helicon Double-Layer Thruster. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2460-2461.	1.3	1
95	Plasma propagation of a 13.56-MHz asymmetric surface barrier discharge in atmospheric pressure air. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 205202.	2.8	19
96	Characterization of a helicon plasma source in low diverging magnetic fields. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 055202.	2.8	51
97	Performance characterization of a helicon double layer thruster using direct thrust measurements. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 235201.	2.8	91
98	Plasma Expansion From a Radio Frequency Microdischarge. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2512-2513.	1.3	24
99	Electron cyclotron damping of helicon waves in low diverging magnetic fields. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	6
100	Microarcing in a Helicon Plasma Reactor. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 1652-1659.	1.3	6
101	Low temperature growth of nanocrystalline TiO ₂ films with Ar/O ₂ low-field helicon plasma. <i>Surface and Coatings Technology</i> , 2011, 205, 3939-3946.	4.8	21
102	Characterization of nanocrystalline nitrogen-containing titanium oxide obtained by N ₂ /O ₂ /Ar low-field helicon plasma sputtering. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 455202.	2.8	16
103	Electron temperature characterization and power balance in a low magnetic field helicon mode. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 185204.	2.8	15
104	Electron Diamagnetic Effect on Axial Force in an Expanding Plasma: Experiments and Theory. <i>Physical Review Letters</i> , 2011, 107, 235001.	7.8	132
105	Ion-Current Downstream of a Carbon Dioxide Helicon Double Layer. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2446-2447.	1.3	0
106	Electron Energy Distribution of a Current-Free Double Layer: Druyvesteyn Theory and Experiments. <i>Physical Review Letters</i> , 2011, 107, 035002.	7.8	50
107	Direct thrust measurement of a permanent magnet helicon double layer thruster. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	113
108	Characterization of the ion beam formed in a low magnetic field helicon mode. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 145204.	2.8	3

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109	Direct thrust measurements and modelling of a radio-frequency expanding plasma thruster. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	56
110	Characterization of the temperature of free electrons diffusing from a magnetically expanding current-free double layer plasma. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 162001.	2.8	21
111	Thrust measurements in a low-magnetic field high-density mode in the helicon double layer thruster. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 305203.	2.8	35
112	Double-layer ion acceleration triggered by ion magnetization in expanding radiofrequency plasma sources. <i>Applied Physics Letters</i> , 2010, 97, 141503.	3.3	19
113	High density conics in a magnetically expanding helicon plasma. <i>Applied Physics Letters</i> , 2010, 96, 051502.	3.3	80
114	Magnetic Ion Beam Deflection in the Helicon Double-Layer Thruster. <i>Journal of Propulsion and Power</i> , 2010, 26, 1045-1052.	2.2	11
115	Operating Radio Frequency Antennas Immersed in Vacuum: Implications for Ground-Testing Plasma Thrusters. <i>Journal of Propulsion and Power</i> , 2010, 26, 892-896.	2.2	16
116	Plasma control by modification of helicon wave propagation in low magnetic fields. <i>Physics of Plasmas</i> , 2010, 17, 073508.	1.9	27
117	Ion beam formation in a very low magnetic field expanding helicon discharge. <i>Physics of Plasmas</i> , 2010, 17, 043505.	1.9	27
118	Space Simulation Testing of the Helicon Double Layer Thruster Prototype. , 2010, , .		5
119	Experimental investigation of a conical helicon double layer thruster arrangement. <i>Plasma Sources Science and Technology</i> , 2010, 19, 045003.	3.1	9
120	Asymmetric surface barrier discharge plasma driven by pulsed 13.56 MHz power in atmospheric pressure air. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 342001.	2.8	11
121	Transport of energetic electrons in a magnetically expanding helicon double layer plasma. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	81
122	Oblique Double Layers: A Comparison between Terrestrial and Auroral Measurements. <i>Physical Review Letters</i> , 2009, 103, 095001.	7.8	30
123	Effect of Nafion and platinum content in a catalyst layer processed in a radio frequency helicon plasma system. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 045207.	2.8	25
124	High density mode in xenon produced by a Helicon Double Layer Thruster. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 245201.	2.8	30
125	Carbon/platinum nanotextured films produced by plasma sputtering. <i>Carbon</i> , 2009, 47, 209-214.	10.3	21
126	Plasmas for spacecraft propulsion. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 163001.	2.8	299

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127	Detailed plasma potential measurements in a radio-frequency expanding plasma obtained from various electrostatic probes. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	24
128	A high sensitivity momentum flux measuring instrument for plasma thruster exhausts and diffusive plasmas. <i>Review of Scientific Instruments</i> , 2009, 80, 053509.	1.3	26
129	Anomalous Diffusion Mediated by Atom Deposition into a Porous Substrate. <i>Physical Review Letters</i> , 2009, 102, 045901.	7.8	44
130	Three-Dimensional Mapping of Ion Density in a Double-Layer Helicon Plasma. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1386-1387.	1.3	13
131	Deposition of platinum catalyst by plasma sputtering for fuel cells: 3D simulation and experiments. <i>Plasma Sources Science and Technology</i> , 2008, 17, 035028.	3.1	11
132	Magnetic steering of a helicon double layer thruster. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	19
133	Operating the Helicon Double Layer Thruster in a Space Simulation Chamber. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1196-1197.	1.3	17
134	Spatial evolution of an ion beam created by a geometrically expanding low-pressure argon plasma. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	17
135	TCP Plasma Sputtering of Nanostructured Fuel Cell Electrodes. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 872-873.	1.3	3
136	Double layers in low pressure expanding magnetised plasmas. , 2008, , .		0
137	Testing a Helicon Double Layer Thruster Immersed in a Space-Simulation Chamber. <i>Journal of Propulsion and Power</i> , 2008, 24, 134-141.	2.2	86
138	Effect of Exhaust Magnetic Field in a Helicon Double-Layer Thruster Operating in Xenon. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 2141-2146.	1.3	19
139	Synthesis of Carbon Nanofibers and Pt-Nanocluster-Based Electrochemical Microsystems by Combining Low-Pressure Helicon Plasma Techniques. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 882-883.	1.3	3
140	Transport and Deposition of Plasma-Sputtered Platinum Atoms: Comparison Between Experiments and Simulation. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 884-885.	1.3	2
141	Plasma based improvements in fuel cells. , 2008, , .		0
142	An experimental investigation of alternative propellants for the helicon double layer thruster. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 175213.	2.8	35
143	Improvement of the sputtered platinum utilization in proton exchange membrane fuel cells using plasma-based carbon nanofibres. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 185307.	2.8	20
144	Xenon Ion Beam Detachment From a Helicon Double Layer Thruster. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1194-1195.	1.3	5

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145	Spatial retarding field energy analyzer measurements downstream of a helicon double layer plasma. Applied Physics Letters, 2008, 93, 071505.	3.3	56
146	Radial characterization of the electron energy distribution in a helicon source terminated by a double layer. Physics of Plasmas, 2008, 15, 074505.	1.9	36
147	Double layer in an expanding plasma: Simultaneous upstream and downstream measurements. Physics of Plasmas, 2008, 15, .	1.9	31
148	Solid Polymer Fuel Cell synthesis by low pressure plasmas: a short review. EPJ Applied Physics, 2008, 43, 137-137.	0.7	3
149	Integrated plasma synthesis of efficient catalytic nanostructures for fuel cell electrodes. Nanotechnology, 2007, 18, 305603.	2.6	33
150	The magnetic-field-induced transition from an expanding plasma to a double layer containing expanding plasma. Applied Physics Letters, 2007, 91, 201505.	3.3	60
151	Plasma based platinum nanoaggregates deposited on carbon nanofibers improve fuel cell efficiency. Applied Physics Letters, 2007, 90, 223119.	3.3	50
152	Ion beam formation in a low-pressure geometrically expanding argon plasma. Applied Physics Letters, 2007, 91, 241501.	3.3	44
153	Measurement of the energy distribution of trapped and free electrons in a current-free double layer. Physics of Plasmas, 2007, 14, .	1.9	94
154	Low energy plasma treatment of a proton exchange membrane used for low temperature fuel cells. Plasma Physics and Controlled Fusion, 2007, 49, A73-A79.	2.1	9
155	A review of recent laboratory double layer experiments. Plasma Sources Science and Technology, 2007, 16, R1-R25.	3.1	231
156	Low energy plasma treatment of Nafion® membranes for PEM fuel cells. Journal of Power Sources, 2007, 165, 41-48.	7.8	42
157	Upstream Ionization Instability Associated with a Current-Free Double Layer. Physical Review Letters, 2006, 97, 075003.	7.8	24
158	Initial Experiments on a Dual-Stage 4-Grid Ion Thruster for Very High Specific Impulse and Power. , 2006, , .		11
159	Helicon Double Layer Thrusters. , 2006, , .		13
160	Ion Detachment in the Helicon Double-Layer Thruster Exhaust Beam. Journal of Propulsion and Power, 2006, 22, 24-30.	2.2	39
161	A theory for formation of a low pressure, current-free double layer. Journal Physics D: Applied Physics, 2006, 39, 3294-3304.	2.8	54
162	Xenon ion beam characterization in a helicon double layer thruster. Applied Physics Letters, 2006, 89, 261503.	3.3	94

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163	The Innovative Dual-Stage 4-Grid Ion Thruster Concept - Theory And Experimental Results. , 2006, , .		6
164	Plasma expansion from a dielectric electron cyclotron resonance source. Physica Scripta, 2006, T122, 19-24.	2.5	6
165	The Current-Free Electric Double Layer in a Coronal Magnetic Funnel. Astrophysical Journal, 2006, 640, L199-L202.	4.5	49
166	Comparison of stress in single and multiple layer depositions of plasma-deposited amorphous silicon dioxide. Journal Physics D: Applied Physics, 2006, 39, 164-171.	2.8	5
167	Theory for Formation of a Low-Pressure, Current-Free Double Layer. Physical Review Letters, 2006, 97, 045003.	7.8	70
168	Interface creation and stress dynamics in plasma-deposited silicon dioxide films. Applied Physics Letters, 2006, 88, 234103.	3.3	5
169	Experiments and theory of an upstream ionization instability excited by an accelerated electron beam through a current-free double layer. Physics of Plasmas, 2006, 13, 122101.	1.9	11
170	Solid polymer fuel cell synthesis by low pressure plasmas: a short review. EPJ Applied Physics, 2006, 34, 151-156.	0.7	41
171	Development of the nanotiter plate for use in antibody and cell array technologies. , 2005, , .		0
172	Microarcing instability in RF PECVD plasma system. Surface and Coatings Technology, 2005, 198, 379-383.	4.8	8
173	Deposition and diffusion of platinum nanoparticles in porous carbon assisted by plasma sputtering. Surface and Coatings Technology, 2005, 200, 391-394.	4.8	69
174	The effect of phase difference between powered electrodes on RF plasmas. Plasma Sources Science and Technology, 2005, 14, 407-411.	3.1	9
175	A comparison between experimental results and a fluid description of a low pressure discharge driven by a double-saddle antenna. Journal Physics D: Applied Physics, 2005, 38, 2825-2829.	2.8	5
176	High source potential upstream of a current-free electric double layer. Physics of Plasmas, 2005, 12, 044508.	1.9	29
177	The ion velocity distribution function in a current-free double layer. Physics of Plasmas, 2005, 12, 093502.	1.9	41
178	Experimental Evidence of a Double Layer in a Large Volume Helicon Reactor. Physical Review Letters, 2005, 95, 205002.	7.8	64
179	Thickness-dependent stress in plasma-deposited silicon dioxide films. Journal of Applied Physics, 2005, 97, 084912.	2.5	13
180	Spatially resolved energy analyzer measurements of an ion beam on the low potential side of a current-free double-layer. IEEE Transactions on Plasma Science, 2005, 33, 336-337.	1.3	18

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181	Deep dry-etch of silica in a helicon plasma etcher for optical waveguide fabrication. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 146-150.	2.1	14
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