

Uwe Czarnetzki

List of Publications by Year in descending order

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167
papers

6,251
citations

66315

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79644

73
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168
all docs

168
docs citations

168
times ranked

2842
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma parameters and tungsten sputter rates in a high-frequency CCP. <i>Physics of Plasmas</i> , 2022, 29, 043511.	0.7	1
2	Foundations of capacitive and inductive radio-frequency discharges. <i>Plasma Sources Science and Technology</i> , 2021, 30, 024001.	1.3	31
3	Vibrational CARS measurements in a near-atmospheric pressure plasma jet in nitrogen: II. Analysis. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 305205.	1.3	5
4	Lock-in technique for precise measurement of ion distribution functions. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 305202.	1.3	0
5	Vibrational CARS measurements in a near-atmospheric pressure plasma jet in nitrogen: I. Measurement procedure and results. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 305204.	1.3	12
6	Nanosecond resolved ro-vibrational CO ₂ excitation measurement. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 34LT02.	1.3	5
7	Time evolution of CO ₂ ro-vibrational excitation in a nanosecond discharge measured with laser absorption spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 365201.	1.3	7
8	Zeeman-resolved TDLAS using metastable levels of Ar in the weakly magnetized plasma of the linear plasma device PSI-2. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 395001.	1.3	2
9	Operation of the inductively coupled array (INCA) discharge as a para-array. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 385204.	1.3	0
10	Electric field measurements in a He:N ₂ nanosecond pulsed discharge with sub-ns time resolution. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 055201.	1.3	21
11	Message from the Editor in Chief. <i>Plasma Sources Science and Technology</i> , 2020, 29, 120201.	1.3	0
12	A xenon collisional-radiative model applicable to electric propulsion devices: II. Kinetics of the 6s, 6p, and 5d states of atoms and ions in Hall thrusters. <i>Plasma Sources Science and Technology</i> , 2019, 28, 105005.	1.3	30
13	Reply to "Comment on "Information hidden in the velocity distribution of ions and the exact kinetic Bohm criterion". <i>Plasma Sources Science and Technology</i> , 2019, 28, 078002.	1.3	1
14	Measurement of the Magnetic Field in a Linear Magnetized Plasma by Tunable Diode Laser Absorption Spectroscopy. <i>Atoms</i> , 2019, 7, 48.	0.7	7
15	Message from the editor in chief. <i>Plasma Sources Science and Technology</i> , 2019, 28, 010401.	1.3	0
16	Analytical plasma impedance model of dual frequency capacitive discharges with ion dynamics. <i>Plasma Sources Science and Technology</i> , 2019, 28, 035004.	1.3	3
17	Numerical modeling of plasma sources with a periodic structure. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
18	The effect of the pulse repetition rate on the fast ionization wave discharge. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 225202.	1.3	31

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19	First measurements of the temporal evolution of the plasma density in HiPIMS discharges using THz time domain spectroscopy. <i>Plasma Sources Science and Technology</i> , 2018, 27, 035006.	1.3	29
20	Reply to Comment on "Information hidden in the velocity distribution of ions and the exact kinetic Bohm criterion". <i>Plasma Sources Science and Technology</i> , 2018, 27, 038002.	1.3	3
21	Inductively coupled array (INCA) discharge. <i>Plasma Sources Science and Technology</i> , 2018, 27, 105010.	1.3	8
22	Kinetic model for stochastic heating in the INCA discharge. <i>Plasma Sources Science and Technology</i> , 2018, 27, 105011.	1.3	4
23	Thomson scattering of plasma turbulence on PSI-2. <i>Nuclear Materials and Energy</i> , 2017, 12, 1253-1258.	0.6	7
24	Information hidden in the velocity distribution of ions and the exact kinetic Bohm criterion. <i>Plasma Sources Science and Technology</i> , 2017, 26, 055003.	1.3	26
25	Measurement of plasma densities by dual frequency multichannel boxcar THz time domain spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 245202.	1.3	13
26	Electric field measurements on plasma bullets in N_2 using four-wave mixing. <i>Plasma Sources Science and Technology</i> , 2017, 26, 115006.	1.3	19
27	The 2017 Plasma Roadmap: Low temperature plasma science and technology. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 323001.	1.3	710
28	Determination of state-to-state electron-impact rate coefficients between Ar excited states: a review of combined diagnostic experiments in afterglow plasmas. <i>Plasma Sources Science and Technology</i> , 2016, 25, 043003.	1.3	13
29	Comment on the paper "The impact of Langmuir probe geometries on electron current collection and the integral relation for obtaining electron energy distribution functions". <i>Plasma Sources Science and Technology</i> , 2016, 25, 048001.	1.3	0
30	Ignition and afterglow dynamics of a high pressure nanosecond pulsed helium micro-discharge: I. Electron, Rydberg molecules and He (2^3S) densities. <i>Plasma Sources Science and Technology</i> , 2016, 25, 054003.	1.3	33
31	Retrospective on "The 2012 Plasma Roadmap". <i>Journal Physics D: Applied Physics</i> , 2016, 49, 431001.	1.3	6
32	Determination of the electric field strength of filamentary DBDs by CARS-based four-wave mixing. <i>Plasma Sources Science and Technology</i> , 2016, 25, 054002.	1.3	32
33	Escape factors for Paschen $2p^1s$ emission lines in low-temperature Ar, Kr, and Xe plasmas. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 225204.	1.3	10
34	Ignition and afterglow dynamics of a high pressure nanosecond pulsed helium micro-discharge: II. Rydberg molecules kinetics. <i>Plasma Sources Science and Technology</i> , 2016, 25, 054004.	1.3	21
35	Comment on: Measurement of the force exerted on the surface of an object immersed in a plasma. <i>European Physical Journal D</i> , 2015, 69, 1.	0.6	7
36	Rydberg state, metastable, and electron dynamics in the low-pressure argon afterglow. <i>Plasma Sources Science and Technology</i> , 2015, 24, 065001.	1.3	9

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37	Line integration and spatial resolution in optical imaging of plasmas. Journal Physics D: Applied Physics, 2015, 48, 385201.	1.3	9
38	2D collisional-radiative model for non-uniform argon plasmas: with or without α -escape factor TM . Journal Physics D: Applied Physics, 2015, 48, 085201.	1.3	13
39	Influence of a phase-locked RF substrate bias on the E- to H-mode transition in an inductively coupled plasma. Plasma Sources Science and Technology, 2015, 24, 044006.	1.3	19
40	Self-absorption method in combination with an optical probe: a possibility to determine the radial density profile of rare-gas metastables in low-temperature plasmas. Plasma Sources Science and Technology, 2015, 24, 035023.	1.3	3
41	Electric field vector measurements in a surface ionization wave discharge. Plasma Sources Science and Technology, 2015, 24, 055017.	1.3	21
42	Prevention of ion flux lateral inhomogeneities in large area capacitive radio frequency plasmas via the electrical asymmetry effect. Applied Physics Letters, 2015, 106, .	1.5	32
43	Evaluation of the Electrical Asymmetry Effect by spectroscopic measurements of capacitively coupled discharges and silicon thin film depositions. Thin Solid Films, 2015, 574, 60-65.	0.8	25
44	Collisionless electron heating in periodic arrays of inductively coupled plasmas. Physics of Plasmas, 2014, 21, 123508.	0.7	5
45	Electron heating, mode transitions, and asymmetry effects in dusty single- and dual-frequency capacitive discharges. , 2014, , .		0
46	Ion flux uniformity in large area capacitively coupled dual-frequency discharges. , 2014, , .		0
47	Ion distribution functions at the electrodes of capacitively coupled high-pressure hydrogen discharges. Plasma Sources Science and Technology, 2014, 23, 015001.	1.3	20
48	Ion Distribution Functions in Electrically Asymmetric Capacitively Coupled Radio-Frequency Discharges in Hydrogen. IEEE Transactions on Plasma Science, 2014, 42, 2376-2377.	0.6	3
49	Dust Hour Glass in a Capacitive RF Discharge. IEEE Transactions on Plasma Science, 2014, 42, 2672-2673.	0.6	2
50	The Glow in a Three-Body Recombination Dominated Afterglow. IEEE Transactions on Plasma Science, 2014, 42, 2388-2389.	0.6	2
51	On the OES line-ratio technique in argon and argon-containing plasmas. Journal Physics D: Applied Physics, 2014, 47, 445201.	1.3	38
52	Formation of carbon nanoparticle using Ar+CH4 high pressure nanosecond discharges. Journal of Physics: Conference Series, 2014, 518, 012020.	0.3	4
53	Field reversals in electrically asymmetric capacitively coupled radio-frequency discharges in hydrogen. Journal Physics D: Applied Physics, 2013, 46, 435201.	1.3	16
54	Transport control of dust particles via the electrical asymmetry effect: experiment, simulation and modelling. Journal Physics D: Applied Physics, 2013, 46, 245202.	1.3	16

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55	Effect of structured electrodes on heating and plasma uniformity in capacitive discharges. Journal Physics D: Applied Physics, 2013, 46, 505202.	1.3	38
56	Deposition of microcrystalline intrinsic silicon by the Electrical Asymmetry Effect technique. Vacuum, 2013, 87, 114-118.	1.6	37
57	The effect of dust on electron heating and dc self-bias in hydrogen diluted silane discharges. Journal Physics D: Applied Physics, 2013, 46, 175205.	1.3	46
58	Pulsed high-power plasmas for deposition of nanostructured thin films. Journal Physics D: Applied Physics, 2013, 46, 080301.	1.3	0
59	Analytical model for the radio-frequency sheath. Physical Review E, 2013, 88, 063101.	0.8	29
60	Possibilities of determining non-Maxwellian EEDFs from the OES line-ratios in low-pressure capacitive and inductive plasmas containing argon and krypton. Plasma Sources Science and Technology, 2012, 21, 024003.	1.3	28
61	The electrical asymmetry effect in geometrically asymmetric capacitive radio frequency plasmas. Journal of Applied Physics, 2012, 112, .	1.1	46
62	Coupling effects in inductive discharges with radio frequency substrate biasing. Applied Physics Letters, 2012, 100, .	1.5	52
63	Electron cooling in decaying low-pressure plasmas. Physical Review E, 2012, 85, 046407.	0.8	15
64	Temporally resolved optical emission spectroscopic investigations on a nanosecond self-pulsing micro-thin-cathode discharge. Plasma Sources Science and Technology, 2012, 21, 045015.	1.3	7
65	Rotational and vibrational temperatures in a hydrogen discharge with a magnetic X-point. Physics of Plasmas, 2012, 19, 123503.	0.7	13
66	The effect of the driving frequencies on the electrical asymmetry of dual-frequency capacitively coupled plasmas. Journal Physics D: Applied Physics, 2012, 45, 465205.	1.3	46
67	Fundamental investigations of capacitive radio frequency plasmas: simulations and experiments. Plasma Physics and Controlled Fusion, 2012, 54, 124003.	0.9	95
68	Sheath-to-sheath transport of dust particles in a capacitively coupled discharge. Plasma Sources Science and Technology, 2012, 21, 032001.	1.3	8
69	Recombination and enhanced metastable repopulation in the argon afterglow. Physical Review E, 2012, 85, 056401.	0.8	28
70	The 2012 Plasma Roadmap. Journal Physics D: Applied Physics, 2012, 45, 253001.	1.3	511
71	Development of Fast Ionization Wave Discharges at High Pulse Repetition Rates. Plasma Chemistry and Plasma Processing, 2012, 32, 471-493.	1.1	17
72	An atmospheric pressure self-pulsing micro thin-cathode discharge. Journal Physics D: Applied Physics, 2011, 44, 125204.	1.3	24

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73	The electrical asymmetry effect in capacitively coupled radio-frequency discharges. Plasma Sources Science and Technology, 2011, 20, 024010.	1.3	89
74	The electrical asymmetry effect in multi-frequency capacitively coupled radio frequency discharges. Plasma Sources Science and Technology, 2011, 20, 015017.	1.3	85
75	Control of plasma properties in capacitively coupled oxygen discharges via the electrical asymmetry effect. Journal Physics D: Applied Physics, 2011, 44, 285205.	1.3	54
76	Determination of electron densities by diode-laser absorption spectroscopy in a pulsed ICP. Plasma Sources Science and Technology, 2011, 20, 015022.	1.3	21
77	Experimental and modeling analysis of fast ionization wave discharge propagation in a rectangular geometry. Physics of Plasmas, 2011, 18, .	0.7	73
78	An Ultrahigh Current Density Micro Discharge. IEEE Transactions on Plasma Science, 2011, 39, 2682-2683.	0.6	0
79	Ignition of a nanosecond-pulsed near atmospheric pressure discharge in a narrow gap. Journal Physics D: Applied Physics, 2011, 44, 165202.	1.3	24
80	Dynamics of a Nanosecond High-Voltage Microdischarge. IEEE Transactions on Plasma Science, 2011, 39, 2688-2689.	0.6	1
81	Making a geometrically asymmetric capacitive rf discharge electrically symmetric. Applied Physics Letters, 2011, 98, .	1.5	44
82	Kinetic simulation of a nanosecond-pulsed hydrogen microdischarge. Applied Physics Letters, 2011, 98, .	1.5	21
83	Starlike Structures in Discharges With a Magnetic X-Point. IEEE Transactions on Plasma Science, 2011, 39, 2466-2467.	0.6	8
84	Hydrogen Discharge With a Magnetic X-Point. IEEE Transactions on Plasma Science, 2011, 39, 2538-2539.	0.6	13
85	Secondary electrons in dual-frequency capacitive radio frequency discharges. Plasma Sources Science and Technology, 2011, 20, 045007.	1.3	77
86	Spatially and temporally resolved optical spectroscopic investigations inside a self-pulsing micro thin-cathode discharge. Journal Physics D: Applied Physics, 2011, 44, 252001.	1.3	2
87	Power absorption in electrically asymmetric dual frequency capacitive radio frequency discharges. Physics of Plasmas, 2011, 18, 013503.	0.7	44
88	A discharge with a magnetic X-point as a negative hydrogen ion source. AIP Conference Proceedings, 2011, . .	0.3	16
89	Wave propagation and noncollisional heating in neutral loop and helicon discharges. Physics of Plasmas, 2011, 18, .	0.7	10
90	The 8th Workshop on Frontiers in Low Temperature Plasma Diagnostics. Journal Physics D: Applied Physics, 2010, 43, 120301.	1.3	2

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91	Argon ion velocity distributions in a helicon discharge measured by laser induced fluorescence. Journal of Physics: Conference Series, 2010, 227, 012035.	0.3	6
92	Electric field measurements at near-atmospheric pressure by coherent Raman scattering of laser beams. Journal of Physics: Conference Series, 2010, 227, 012018.	0.3	2
93	Investigations on the afterglow of a thin cathode discharge in argon at atmospheric pressure. Journal Physics D: Applied Physics, 2010, 43, 295201.	1.3	13
94	Excitation dynamics in electrically asymmetric capacitively coupled radio frequency discharges: experiment, simulation, and model. Plasma Sources Science and Technology, 2010, 19, 045028.	1.3	49
95	A novel probe for spatially resolved emission spectroscopy in plasmas. Plasma Sources Science and Technology, 2010, 19, 045008.	1.3	3
96	Charge dynamics in capacitively coupled radio frequency discharges. Journal Physics D: Applied Physics, 2010, 43, 225201.	1.3	38
97	Rapid formation of electric field profiles in repetitively pulsed high-voltage high-pressure nanosecond discharges. Journal Physics D: Applied Physics, 2010, 43, 062001.	1.3	48
98	The effect of secondary electrons on the separate control of ion energy and flux in dual-frequency capacitively coupled radio frequency discharges. Applied Physics Letters, 2010, 97, .	1.5	95
99	Electric field measurements in near-atmospheric pressure nitrogen and air based on a four-wave mixing scheme. Journal of Physics: Conference Series, 2010, 227, 012040.	0.3	11
100	Phase resolved optical emission spectroscopy: a non-intrusive diagnostic to study electron dynamics in capacitive radio frequency discharges. Journal Physics D: Applied Physics, 2010, 43, 124016.	1.3	69
101	The influence of the relative phase between the driving voltages on electron heating in asymmetric dual frequency capacitive discharges. Plasma Sources Science and Technology, 2010, 19, 045001.	1.3	21
102	Self-excited nonlinear plasma series resonance oscillations in geometrically symmetric capacitively coupled radio frequency discharges. Applied Physics Letters, 2009, 94, .	1.5	91
103	Optimization of the electrical asymmetry effect in dual-frequency capacitively coupled radio frequency discharges: Experiment, simulation, and model. Journal of Applied Physics, 2009, 106, .	1.1	77
104	The electrical asymmetry effect in capacitively coupled radio frequency discharges – measurements of dc self bias, ion energy and ion flux. Journal Physics D: Applied Physics, 2009, 42, 092005.	1.3	147
105	Collisionless wave damping in neutral loop discharges. Plasma Physics and Controlled Fusion, 2009, 51, 124040.	0.9	5
106	Plasma diagnostics by optical emission spectroscopy on argon and comparison with Thomson scattering. Journal Physics D: Applied Physics, 2009, 42, 045208.	1.3	125
107	PIC simulations of the separate control of ion flux and energy in CCRF discharges via the electrical asymmetry effect. Journal Physics D: Applied Physics, 2009, 42, 025205.	1.3	157
108	Electric field measurement in an atmospheric or higher pressure gas by coherent Raman scattering of nitrogen. Journal Physics D: Applied Physics, 2009, 42, 092003.	1.3	36

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109	The gain and loss of energy by electrons in the RF-CCP sheath. Journal Physics D: Applied Physics, 2009, 42, 085205.	1.3	4
110	The Electrical Asymmetry Effect - A novel and simple method for separate control of ion energy and flux in capacitively coupled RF discharges. Journal of Physics: Conference Series, 2009, 162, 012010.	0.3	54
111	Different modes of electron heating in dual-frequency capacitively coupled radio frequency discharges. Plasma Sources Science and Technology, 2009, 18, 034011.	1.3	73
112	Electron beams in asymmetric capacitively coupled radio frequency discharges at low pressures. Journal Physics D: Applied Physics, 2008, 41, 042003.	1.3	69
113	On the possibility of making a geometrically symmetric RF-CCP discharge electrically asymmetric. Journal Physics D: Applied Physics, 2008, 41, 165202.	1.3	195
114	Neutral gas depletion mechanisms in dense low-temperature argon plasmas. Journal Physics D: Applied Physics, 2008, 41, 035208.	1.3	53
115	Helicon-Type Discharge With a Flat Spiral Antenna. IEEE Transactions on Plasma Science, 2008, 36, 1406-1407.	0.6	5
116	A hybrid, one-dimensional model of capacitively coupled radio-frequency discharges. Journal Physics D: Applied Physics, 2008, 41, 225208.	1.3	18
117	Plasma dynamics in an inductively coupled magnetic neutral loop discharge. Plasma Sources Science and Technology, 2008, 17, 024022.	1.3	16
118	Numerical Modeling of Electron Beams Accelerated by the Radio Frequency Boundary Sheath. IEEE Transactions on Plasma Science, 2008, 36, 1404-1405.	0.6	69
119	Electron Beams in Capacitively Coupled Radio-Frequency Discharges. IEEE Transactions on Plasma Science, 2008, 36, 1400-1401.	0.6	47
120	Electric field reversals in the sheath region of capacitively coupled radio frequency discharges at different pressures. Journal Physics D: Applied Physics, 2008, 41, 105214.	1.3	74
121	Stochastic heating in asymmetric capacitively coupled RF discharges. Journal Physics D: Applied Physics, 2008, 41, 195212.	1.3	85
122	Instabilities in Capacitively Coupled Radio-Frequency Discharges. IEEE Transactions on Plasma Science, 2008, 36, 1402-1403.	0.6	9
123	Phase resolved measurement of anisotropic electron velocity distribution functions in a radio-frequency discharge. Journal Physics D: Applied Physics, 2008, 41, 082003.	1.3	38
124	Laser spectroscopic electric field measurement in krypton. New Journal of Physics, 2007, 9, 18-18.	1.2	40
125	Space and phase resolved plasma parameters in an industrial dual-frequency capacitively coupled radio-frequency discharge. Journal Physics D: Applied Physics, 2007, 40, 7008-7018.	1.3	116
126	Plasma ionization through wave-particle interaction in a capacitively coupled radio-frequency discharge. Physics of Plasmas, 2007, 14, 034505.	0.7	49

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127	Diagnostics of the plasma series resonance effect in radio-frequency discharges. Journal of Physics: Conference Series, 2007, 86, 012010.	0.3	56
128	A planar inductively coupled radio-frequency magnetic neutral loop discharge. Journal Physics D: Applied Physics, 2007, 40, 4508-4514.	1.3	21
129	Spatial structures of plasma parameters in a magnetic neutral loop discharge. Plasma Sources Science and Technology, 2007, 16, 543-548.	1.3	19
130	Plasma boundary sheath in the afterglow of a pulsed inductively coupled RF plasma. Plasma Sources Science and Technology, 2007, 16, 355-363.	1.3	33
131	Self-excitation of the plasma series resonance in radio-frequency discharges: An analytical description. Physics of Plasmas, 2006, 13, 123503.	0.7	156
132	Frequency coupling in dual frequency capacitively coupled radio-frequency plasmas. Applied Physics Letters, 2006, 89, 261502.	1.5	159
133	Diagnostics for the Dynamics of Power Dissipation in Technologically used Plasmas. AIP Conference Proceedings, 2006, , .	0.3	0
134	Electronic excitation in metals through hyperthermal atoms. Journal Physics D: Applied Physics, 2006, 39, 5224-5229.	1.3	11
135	Plasma diagnostics by laser spectroscopic electric field measurement. Pure and Applied Chemistry, 2005, 77, 345-358.	0.9	15
136	Energy analysis of hyperthermal hydrogen atoms generated through surface neutralisation of ions. Europhysics Letters, 2005, 72, 235-241.	0.7	36
137	Phase and space resolved optical emission spectroscopic investigations of an inductively coupled RF plasma using an imaging acousto-optic spectrometer. Surface and Coatings Technology, 2005, 200, 859-861.	2.2	9
138	Sources and sinks of CF and CF ₂ in a cc-RF CF ₄ -plasma under various conditions. Plasma Sources Science and Technology, 2005, 14, 1-11.	1.3	44
139	Characterization of stationary and pulsed inductively coupled RF discharges for plasma sterilization. Plasma Physics and Controlled Fusion, 2005, 47, A353-A360.	0.9	29
140	Thomson scattering in low temperature helium plasmas of a magnetic multipole plasma source. Journal Physics D: Applied Physics, 2004, 37, 2677-2685.	1.3	30
141	Measurement of quenching coefficients and development of calibration methods for quantitative spectroscopy of plasmas at elevated pressures. , 2002, 4460, 122.		7
142	Observation of Fast Hydrogen Atoms Formed by Ion Bombarding of Surfaces. Contributions To Plasma Physics, 2002, 42, 596-602.	0.5	18
143	Quenching rate constants for reactions of Ar(4p ² [1/2]0, 4p ² [1/2]0, 4p ² [3/2]2, and 4p ² [5/2]2) atoms with 22 reagent gases. Journal of Chemical Physics, 2001, 115, 3144-3154.	1.2	104
144	Investigations on ionic processes and dynamics in the sheath region of helium and hydrogen discharges by laser spectroscopic electric field measurements. Applied Physics A: Materials Science and Processing, 2001, 72, 509-521.	1.1	18

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145	Two Step Laser Induced Fluorescence: An Enhanced Detection Method of Rydberg-State Species for Electric Field Measurement in Glow Discharge Plasmas. Japanese Journal of Applied Physics, 2000, 39, 299-300.	0.8	5
146	Diagnostics of atoms by laser spectroscopic methods in plasmas and plasma-wall interaction studies (vacuum ultraviolet and two-photon techniques). Plasma Sources Science and Technology, 2000, 9, 477-491.	1.3	23
147	Absolute atomic hydrogen densities in a radio frequency discharge measured by two-photon laser induced fluorescence imaging. Journal of Applied Physics, 1999, 85, 696-702.	1.1	38
148	Plasma sheath electric field strengths above a grooved electrode in a parallel-plate radio-frequency discharge. IEEE Transactions on Plasma Science, 1999, 27, 70-71.	0.6	28
149	Space and time resolved electric field measurements in helium and hydrogen RF-discharges. Plasma Sources Science and Technology, 1999, 8, 230-248.	1.3	130
150	Nonlinear optical techniques for plasma diagnostics. IEEE Transactions on Plasma Science, 1998, 26, 1502-1513.	0.6	29
151	Sensitive Electric Field Measurement by Fluorescence-Dip Spectroscopy of Rydberg States of Atomic Hydrogen. Physical Review Letters, 1998, 81, 4592-4595.	2.9	77
152	Increased efficiency of vacuum ultraviolet generation by stimulated anti-Stokes Raman scattering with Stokes seeding. Applied Optics, 1998, 37, 8453.	2.1	21
153	Collisional deactivation of two-photon-excited Ar (4p; J = 0, 2) states by H ₂ and several hydrocarbon and fluorine containing molecules. EPL Applied Physics, 1998, 4, 239-242.	0.3	7
154	Quenching of the 750.4 nm argon actinometry line by H ₂ and several hydrocarbon molecules. Applied Physics Letters, 1997, 71, 3796-3798.	1.5	21
155	Application of Non-Linear Optical Methods to Plasma Diagnostics. European Physical Journal Special Topics, 1997, 07, C4-175-C4-186.	0.2	2
156	Novel scheme for atomic hydrogen detection by double-resonant four-wave mixing. Review of Scientific Instruments, 1995, 66, 587-589.	0.6	6
157	Two-photon laser-induced fluorescence measurements of absolute atomic hydrogen densities and powder formation in a silane discharge. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 831-834.	0.9	12
158	Comparison of various two-photon excitation schemes for laser-induced fluorescence spectroscopy in atomic hydrogen. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 2155.	0.9	43
159	Generation of vacuum-ultraviolet radiation in H ₂ by nonlinear optical processes near the EF- and B-state resonances. Physical Review A, 1991, 44, 7530-7546.	1.0	36
160	Observation of unexpected energy levels in molecular hydrogen and ortho-para energy transfer. Physical Review Letters, 1990, 64, 2763-2766.	2.9	2
161	Observation of stimulated hyper-Raman scattering in H ₂ . Physical Review A, 1989, 40, 6120-6123.	1.0	6
162	Stimulated IR- and vacuum-UV emission following two-photon-excitation of molecular hydrogen using an ArF laser. Applied Physics B, Photophysics and Laser Chemistry, 1989, 48, 37-40.	1.5	6

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163	Laser-induced fluorescence spectroscopy of beryllium vapour at UV and VUV wavelengths. Journal Physics D: Applied Physics, 1988, 21, 246-250.	1.3	4
164	Perturbation treatment of multilevel rate equations for laser-induced fluorescence spectroscopy. Applied Optics, 1987, 26, 1622.	2.1	3
165	Christiansen filters for the far ultraviolet: an old spectral device in a new light. Applied Optics, 1987, 26, 4788.	2.1	9
166	Fluorescence spectroscopy of low-Z-materials: Application of Raman-converted VUV-radiation to beryllium and oxygen. Journal of Nuclear Materials, 1987, 145-147, 438-442.	1.3	5
167	Neodymium: glass laser system with a large tuning range. Applied Optics, 1986, 25, 2912.	2.1	4