

# Uwe Czarnetzki

## List of Publications by Year in descending order

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167  
papers

6,251  
citations

66343

42  
h-index

79698

73  
g-index

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.  | 1.9 | 1         |
| 2  | Foundations of capacitive and inductive radio-frequency discharges. <i>Plasma Sources Science and Technology</i> , 2021, 30, 024001.   | 3.1 | 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.   | 2.8 | 5         |
| 4  | Lock-in technique for precise measurement of ion distribution functions. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 305202.   | 2.8 | 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.                                       | 2.8 | 12        |
| 6  | Nanosecond resolved ro-vibrational CO <sub>2</sub> excitation measurement. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 34LT02.   | 2.8 | 5         |
| 7  | Time evolution of CO <sub>2</sub> ro-vibrational excitation in a nanosecond discharge measured with laser absorption spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 365201.                               | 2.8 | 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.   | 2.8 | 2         |
| 9  | Operation of the inductively coupled array (INCA) discharge as a para-array. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 385204.   | 2.8 | 0         |
| 10 | Electric field measurements in a He:N <sub>2</sub> nanosecond pulsed discharge with sub-ns time resolution. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 055201.  | 2.8 | 21        |
| 11 | Message from the Editor in Chief. <i>Plasma Sources Science and Technology</i> , 2020, 29, 120201.   | 3.1 | 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. | 3.1 | 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.  | 3.1 | 1         |
| 14 | Measurement of the Magnetic Field in a Linear Magnetized Plasma by Tunable Diode Laser Absorption Spectroscopy. <i>Atoms</i> , 2019, 7, 48.  | 1.6 | 7         |
| 15 | Message from the editor in chief. <i>Plasma Sources Science and Technology</i> , 2019, 28, 010401.   | 3.1 | 0         |
| 16 | Analytical plasma impedance model of dual frequency capacitive discharges with ion dynamics. <i>Plasma Sources Science and Technology</i> , 2019, 28, 035004.  | 3.1 | 3         |
| 17 | Numerical modeling of plasma sources with a periodic structure. <i>AIP Conference Proceedings</i> , 2019, , .  | 0.4 | 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.   | 2.8 | 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.   | 3.1 | 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.   | 3.1 | 3         |
| 21 | Inductively coupled array (INCA) discharge. <i>Plasma Sources Science and Technology</i> , 2018, 27, 105010.   | 3.1 | 8         |
| 22 | Kinetic model for stochastic heating in the INCA discharge. <i>Plasma Sources Science and Technology</i> , 2018, 27, 105011.   | 3.1 | 4         |
| 23 | Thomson scattering of plasma turbulence on PSI-2. <i>Nuclear Materials and Energy</i> , 2017, 12, 1253-1258.   | 1.3 | 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.   | 3.1 | 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.  | 2.8 | 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.  | 3.1 | 19        |
| 27 | The 2017 Plasma Roadmap: Low temperature plasma science and technology. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 323001.  | 2.8 | 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.                | 3.1 | 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. | 3.1 | 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.                      | 3.1 | 33        |
| 31 | Retrospective on "The 2012 Plasma Roadmap". <i>Journal Physics D: Applied Physics</i> , 2016, 49, 431001.  | 2.8 | 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.  | 3.1 | 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.   | 2.8 | 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.  | 3.1 | 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.   | 1.3 | 7         |
| 36 | Rydberg state, metastable, and electron dynamics in the low-pressure argon afterglow. <i>Plasma Sources Science and Technology</i> , 2015, 24, 065001.   | 3.1 | 9         |

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|----|---|-----|-----------|
| 37 | Line integration and spatial resolution in optical imaging of plasmas. Journal Physics D: Applied Physics, 2015, 48, 385201.  | 2.8 | 9         |
| 38 | 2D collisional-radiative model for non-uniform argon plasmas: with or without $\alpha$ -escape factor <sup>TM</sup> . Journal Physics D: Applied Physics, 2015, 48, 085201.   | 2.8 | 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.   | 3.1 | 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. | 3.1 | 3         |
| 41 | Electric field vector measurements in a surface ionization wave discharge. Plasma Sources Science and Technology, 2015, 24, 055017.   | 3.1 | 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, .  | 3.3 | 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.   | 1.8 | 25        |
| 44 | Collisionless electron heating in periodic arrays of inductively coupled plasmas. Physics of Plasmas, 2014, 21, 123508.   | 1.9 | 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.  | 3.1 | 20        |
| 48 | Ion Distribution Functions in Electrically Asymmetric Capacitively Coupled Radio-Frequency Discharges in Hydrogen. IEEE Transactions on Plasma Science, 2014, 42, 2376-2377.  | 1.3 | 3         |
| 49 | Dust Hour Glass in a Capacitive RF Discharge. IEEE Transactions on Plasma Science, 2014, 42, 2672-2673.   | 1.3 | 2         |
| 50 | The Glow in a Three-Body Recombination Dominated Afterglow. IEEE Transactions on Plasma Science, 2014, 42, 2388-2389.   | 1.3 | 2         |
| 51 | On the OES line-ratio technique in argon and argon-containing plasmas. Journal Physics D: Applied Physics, 2014, 47, 445201.  | 2.8 | 38        |
| 52 | Formation of carbon nanoparticle using Ar+CH <sub>4</sub> high pressure nanosecond discharges. Journal of Physics: Conference Series, 2014, 518, 012020.  | 0.4 | 4         |
| 53 | Field reversals in electrically asymmetric capacitively coupled radio-frequency discharges in hydrogen. Journal Physics D: Applied Physics, 2013, 46, 435201.   | 2.8 | 16        |
| 54 | Transport control of dust particles via the electrical asymmetry effect: experiment, simulation and modelling. Journal Physics D: Applied Physics, 2013, 46, 245202.  | 2.8 | 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.   | 2.8 | 38        |
| 56 | Deposition of microcrystalline intrinsic silicon by the Electrical Asymmetry Effect technique. Vacuum, 2013, 87, 114-118.  | 3.5 | 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.   | 2.8 | 46        |
| 58 | Pulsed high-power plasmas for deposition of nanostructured thin films. Journal Physics D: Applied Physics, 2013, 46, 080301.   | 2.8 | 0         |
| 59 | Analytical model for the radio-frequency sheath. Physical Review E, 2013, 88, 063101.  | 2.1 | 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. | 3.1 | 28        |
| 61 | The electrical asymmetry effect in geometrically asymmetric capacitive radio frequency plasmas. Journal of Applied Physics, 2012, 112, .   | 2.5 | 46        |
| 62 | Coupling effects in inductive discharges with radio frequency substrate biasing. Applied Physics Letters, 2012, 100, .   | 3.3 | 52        |
| 63 | Electron cooling in decaying low-pressure plasmas. Physical Review E, 2012, 85, 046407.  | 2.1 | 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.                              | 3.1 | 7         |
| 65 | Rotational and vibrational temperatures in a hydrogen discharge with a magnetic X-point. Physics of Plasmas, 2012, 19, 123503.   | 1.9 | 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.  | 2.8 | 46        |
| 67 | Fundamental investigations of capacitive radio frequency plasmas: simulations and experiments. Plasma Physics and Controlled Fusion, 2012, 54, 124003.   | 2.1 | 95        |
| 68 | Sheath-to-sheath transport of dust particles in a capacitively coupled discharge. Plasma Sources Science and Technology, 2012, 21, 032001.   | 3.1 | 8         |
| 69 | Recombination and enhanced metastable repopulation in the argon afterglow. Physical Review E, 2012, 85, 056401.  | 2.1 | 28        |
| 70 | The 2012 Plasma Roadmap. Journal Physics D: Applied Physics, 2012, 45, 253001.   | 2.8 | 511       |
| 71 | Development of Fast Ionization Wave Discharges at High Pulse Repetition Rates. Plasma Chemistry and Plasma Processing, 2012, 32, 471-493.  | 2.4 | 17        |
| 72 | An atmospheric pressure self-pulsing micro thin-cathode discharge. Journal Physics D: Applied Physics, 2011, 44, 125204.   | 2.8 | 24        |

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|----|--|-----|-----------|
| 73 | The electrical asymmetry effect in capacitively coupled radio-frequency discharges. Plasma Sources Science and Technology, 2011, 20, 024010.                                     | 3.1 | 89        |
| 74 | The electrical asymmetry effect in multi-frequency capacitively coupled radio frequency discharges. Plasma Sources Science and Technology, 2011, 20, 015017.                     | 3.1 | 85        |
| 75 | Control of plasma properties in capacitively coupled oxygen discharges via the electrical asymmetry effect. Journal Physics D: Applied Physics, 2011, 44, 285205.                | 2.8 | 54        |
| 76 | Determination of electron densities by diode-laser absorption spectroscopy in a pulsed ICP. Plasma Sources Science and Technology, 2011, 20, 015022.                             | 3.1 | 21        |
| 77 | Experimental and modeling analysis of fast ionization wave discharge propagation in a rectangular geometry. Physics of Plasmas, 2011, 18, .                                      | 1.9 | 73        |
| 78 | An Ultrahigh Current Density Micro Discharge. IEEE Transactions on Plasma Science, 2011, 39, 2682-2683.  | 1.3 | 0         |
| 79 | Ignition of a nanosecond-pulsed near atmospheric pressure discharge in a narrow gap. Journal Physics D: Applied Physics, 2011, 44, 165202.                                       | 2.8 | 24        |
| 80 | Dynamics of a Nanosecond High-Voltage Microdischarge. IEEE Transactions on Plasma Science, 2011, 39, 2688-2689.  | 1.3 | 1         |
| 81 | Making a geometrically asymmetric capacitive rf discharge electrically symmetric. Applied Physics Letters, 2011, 98, .   | 3.3 | 44        |
| 82 | Kinetic simulation of a nanosecond-pulsed hydrogen microdischarge. Applied Physics Letters, 2011, 98, .  | 3.3 | 21        |
| 83 | Starlike Structures in Discharges With a Magnetic X-Point. IEEE Transactions on Plasma Science, 2011, 39, 2466-2467.   | 1.3 | 8         |
| 84 | Hydrogen Discharge With a Magnetic X-Point. IEEE Transactions on Plasma Science, 2011, 39, 2538-2539.  | 1.3 | 13        |
| 85 | Secondary electrons in dual-frequency capacitive radio frequency discharges. Plasma Sources Science and Technology, 2011, 20, 045007.  | 3.1 | 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. | 2.8 | 2         |
| 87 | Power absorption in electrically asymmetric dual frequency capacitive radio frequency discharges. Physics of Plasmas, 2011, 18, 013503.  | 1.9 | 44        |
| 88 | A discharge with a magnetic X-point as a negative hydrogen ion source. AIP Conference Proceedings, 2011, . .   | 0.4 | 16        |
| 89 | Wave propagation and noncollisional heating in neutral loop and helicon discharges. Physics of Plasmas, 2011, 18, .  | 1.9 | 10        |
| 90 | The 8th Workshop on Frontiers in Low Temperature Plasma Diagnostics. Journal Physics D: Applied Physics, 2010, 43, 120301.   | 2.8 | 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.   | 0.4 | 6         |
| 92  | Electric field measurements at near-atmospheric pressure by coherent Raman scattering of laser beams. Journal of Physics: Conference Series, 2010, 227, 012018.                                     | 0.4 | 2         |
| 93  | Investigations on the afterglow of a thin cathode discharge in argon at atmospheric pressure. Journal Physics D: Applied Physics, 2010, 43, 295201.   | 2.8 | 13        |
| 94  | Excitation dynamics in electrically asymmetric capacitively coupled radio frequency discharges: experiment, simulation, and model. Plasma Sources Science and Technology, 2010, 19, 045028.         | 3.1 | 49        |
| 95  | A novel probe for spatially resolved emission spectroscopy in plasmas. Plasma Sources Science and Technology, 2010, 19, 045008.   | 3.1 | 3         |
| 96  | Charge dynamics in capacitively coupled radio frequency discharges. Journal Physics D: Applied Physics, 2010, 43, 225201.   | 2.8 | 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.                           | 2.8 | 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, .            | 3.3 | 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.                             | 0.4 | 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. | 2.8 | 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.   | 3.1 | 21        |
| 102 | Self-excited nonlinear plasma series resonance oscillations in geometrically symmetric capacitively coupled radio frequency discharges. Applied Physics Letters, 2009, 94, .                        | 3.3 | 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, .      | 2.5 | 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.   | 2.8 | 147       |
| 105 | Collisionless wave damping in neutral loop discharges. Plasma Physics and Controlled Fusion, 2009, 51, 124040.  | 2.1 | 5         |
| 106 | Plasma diagnostics by optical emission spectroscopy on argon and comparison with Thomson scattering. Journal Physics D: Applied Physics, 2009, 42, 045208.  | 2.8 | 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.                        | 2.8 | 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.                                 | 2.8 | 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.   | 2.8 | 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. | 0.4 | 54        |
| 111 | Different modes of electron heating in dual-frequency capacitively coupled radio frequency discharges. Plasma Sources Science and Technology, 2009, 18, 034011.  | 3.1 | 73        |
| 112 | Electron beams in asymmetric capacitively coupled radio frequency discharges at low pressures. Journal Physics D: Applied Physics, 2008, 41, 042003.   | 2.8 | 69        |
| 113 | On the possibility of making a geometrically symmetric RF-CCP discharge electrically asymmetric. Journal Physics D: Applied Physics, 2008, 41, 165202.   | 2.8 | 195       |
| 114 | Neutral gas depletion mechanisms in dense low-temperature argon plasmas. Journal Physics D: Applied Physics, 2008, 41, 035208.   | 2.8 | 53        |
| 115 | Helicon-Type Discharge With a Flat Spiral Antenna. IEEE Transactions on Plasma Science, 2008, 36, 1406-1407.   | 1.3 | 5         |
| 116 | A hybrid, one-dimensional model of capacitively coupled radio-frequency discharges. Journal Physics D: Applied Physics, 2008, 41, 225208.  | 2.8 | 18        |
| 117 | Plasma dynamics in an inductively coupled magnetic neutral loop discharge. Plasma Sources Science and Technology, 2008, 17, 024022.  | 3.1 | 16        |
| 118 | Numerical Modeling of Electron Beams Accelerated by the Radio Frequency Boundary Sheath. IEEE Transactions on Plasma Science, 2008, 36, 1404-1405.   | 1.3 | 69        |
| 119 | Electron Beams in Capacitively Coupled Radio-Frequency Discharges. IEEE Transactions on Plasma Science, 2008, 36, 1400-1401.   | 1.3 | 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.                           | 2.8 | 74        |
| 121 | Stochastic heating in asymmetric capacitively coupled RF discharges. Journal Physics D: Applied Physics, 2008, 41, 195212.   | 2.8 | 85        |
| 122 | Instabilities in Capacitively Coupled Radio-Frequency Discharges. IEEE Transactions on Plasma Science, 2008, 36, 1402-1403.  | 1.3 | 9         |
| 123 | Phase resolved measurement of anisotropic electron velocity distribution functions in a radio-frequency discharge. Journal Physics D: Applied Physics, 2008, 41, 082003.                                 | 2.8 | 38        |
| 124 | Laser spectroscopic electric field measurement in krypton. New Journal of Physics, 2007, 9, 18-18.   | 2.9 | 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.                      | 2.8 | 116       |
| 126 | Plasma ionization through wave-particle interaction in a capacitively coupled radio-frequency discharge. Physics of Plasmas, 2007, 14, 034505.   | 1.9 | 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.   | 0.4 | 56        |
| 128 | A planar inductively coupled radio-frequency magnetic neutral loop discharge. Journal Physics D: Applied Physics, 2007, 40, 4508-4514.  | 2.8 | 21        |
| 129 | Spatial structures of plasma parameters in a magnetic neutral loop discharge. Plasma Sources Science and Technology, 2007, 16, 543-548.   | 3.1 | 19        |
| 130 | Plasma boundary sheath in the afterglow of a pulsed inductively coupled RF plasma. Plasma Sources Science and Technology, 2007, 16, 355-363.  | 3.1 | 33        |
| 131 | Self-excitation of the plasma series resonance in radio-frequency discharges: An analytical description. Physics of Plasmas, 2006, 13, 123503.  | 1.9 | 156       |
| 132 | Frequency coupling in dual frequency capacitively coupled radio-frequency plasmas. Applied Physics Letters, 2006, 89, 261502.   | 3.3 | 159       |
| 133 | Diagnostics for the Dynamics of Power Dissipation in Technologically used Plasmas. AIP Conference Proceedings, 2006, , .  | 0.4 | 0         |
| 134 | Electronic excitation in metals through hyperthermal atoms. Journal Physics D: Applied Physics, 2006, 39, 5224-5229.  | 2.8 | 11        |
| 135 | Plasma diagnostics by laser spectroscopic electric field measurement. Pure and Applied Chemistry, 2005, 77, 345-358.  | 1.9 | 15        |
| 136 | Energy analysis of hyperthermal hydrogen atoms generated through surface neutralisation of ions. Europhysics Letters, 2005, 72, 235-241.  | 2.0 | 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.                      | 4.8 | 9         |
| 138 | Sources and sinks of CF and CF <sub>2</sub> in a cc-RF CF <sub>4</sub> -plasma under various conditions. Plasma Sources Science and Technology, 2005, 14, 1-11.   | 3.1 | 44        |
| 139 | Characterization of stationary and pulsed inductively coupled RF discharges for plasma sterilization. Plasma Physics and Controlled Fusion, 2005, 47, A353-A360.  | 2.1 | 29        |
| 140 | Thomson scattering in low temperature helium plasmas of a magnetic multipole plasma source. Journal Physics D: Applied Physics, 2004, 37, 2677-2685.  | 2.8 | 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.  | 1.1 | 18        |
| 143 | Quenching rate constants for reactions of Ar(4p <sup>2</sup> [1/2]0, 4p <sup>2</sup> [1/2]0, 4p <sup>2</sup> [3/2]2, and 4p <sup>2</sup> [5/2]2) atoms with 22 reagent gases. Journal of Chemical Physics, 2001, 115, 3144-3154.  | 3.0 | 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. | 2.3 | 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.                    | 1.5 | 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.                     | 3.1 | 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.   | 2.5 | 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.   | 1.3 | 28        |
| 149 | Space and time resolved electric field measurements in helium and hydrogen RF-discharges. Plasma Sources Science and Technology, 1999, 8, 230-248.  | 3.1 | 130       |
| 150 | Nonlinear optical techniques for plasma diagnostics. IEEE Transactions on Plasma Science, 1998, 26, 1502-1513.  | 1.3 | 29        |
| 151 | Sensitive Electric Field Measurement by Fluorescence-Dip Spectroscopy of Rydberg States of Atomic Hydrogen. Physical Review Letters, 1998, 81, 4592-4595.   | 7.8 | 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 <sub>2</sub> and several hydrocarbon and fluorine containing molecules. EPL Applied Physics, 1998, 4, 239-242.                                     | 0.7 | 7         |
| 154 | Quenching of the 750.4 nm argon actinometry line by H <sub>2</sub> and several hydrocarbon molecules. Applied Physics Letters, 1997, 71, 3796-3798.   | 3.3 | 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.  | 1.3 | 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. | 2.1 | 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.                               | 2.1 | 43        |
| 159 | Generation of vacuum-ultraviolet radiation in H <sub>2</sub> by nonlinear optical processes near the EF- and B-state resonances. Physical Review A, 1991, 44, 7530-7546.  | 2.5 | 36        |
| 160 | Observation of unexpected energy levels in molecular hydrogen and ortho-para energy transfer. Physical Review Letters, 1990, 64, 2763-2766.   | 7.8 | 2         |
| 161 | Observation of stimulated hyper-Raman scattering in H <sub>2</sub> . Physical Review A, 1989, 40, 6120-6123.  | 2.5 | 6         |
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