

# Rainer Hippler

## List of Publications by Year in descending order

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300  
papers

6,320  
citations

81839

39  
h-index

123376

61  
g-index

306  
all docs

306  
docs citations

306  
times ranked

3582  
citing authors

#	ARTICLE	IF	CITATIONS
1	The energy balance at substrate surfaces during plasma processing. <i>Vacuum</i> , 2001, 63, 385-431.	1.6	318
2	Degradation of various textile dyes as wastewater pollutants under dielectric barrier discharge plasma treatment. <i>Chemical Engineering Journal</i> , 2013, 229, 9-19.	6.6	226
3	Mechanisms of inner-shell vacancy production in slow ion-atom collisions. <i>Physics Reports</i> , 1986, 132, 129-260.	10.3	145
4	Title is missing!. <i>Plasmas and Polymers</i> , 2001, 6, 237-266.	1.5	121
5	Structural deformation, melting point and lattice parameter studies of size selected silver clusters. <i>European Physical Journal D</i> , 2006, 37, 409-415.	0.6	115
6	Deposition of thin titanium-copper films with antimicrobial effect by advanced magnetron sputtering methods. <i>Materials Science and Engineering C</i> , 2011, 31, 1512-1519.	3.8	111
7	Title is missing!. <i>Physics-Uspexhi</i> , 2007, 50, 455.	0.8	96
8	Deposition of titanium/titanium oxide clusters produced by magnetron sputtering. <i>Thin Solid Films</i> , 2006, 500, 41-51.	0.8	95
9	Ambient air particle transport into the effluent of a cold atmospheric-pressure argon plasma jet investigated by molecular beam mass spectrometry. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 435203.	1.3	86
10	Plane wave born calculations of K-shell ionization at low velocities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 144, 81-85.	0.9	84
11	Formation of TiO <sub>x</sub> films produced by high-power pulsed magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 055202.	1.3	78
12	L-shell alignment of heavy atoms induced by proton impact ionisation. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1979, 12, 4077-4084.	1.6	71
13	Energy influx from an rf plasma to a substrate during plasma processing. <i>Journal of Applied Physics</i> , 2000, 87, 3637-3645.	1.1	69
14	Double- and single-electron capture and loss in collisions of 1-2-MeV/u boron, oxygen, and silicon projectiles with helium atoms. <i>Physical Review A</i> , 1987, 35, 585-590.	1.0	68
15	L X-ray anisotropy and L <sub>3</sub> -subshell alignment of heavy atoms induced by ion impact. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1983, 16, 1417-1431.	1.6	63
16	On the energy influx to the substrate during sputter deposition of thin aluminium films. <i>Thin Solid Films</i> , 1998, 332, 282-289.	0.8	63
17	Micro-Disperse Particles in Plasmas: From Disturbing Side Effects to New Applications. <i>Contributions To Plasma Physics</i> , 2001, 41, 598-609.	0.5	63
18	Coincidence studies of capture and ionization in highly charged $q^+-\text{He}$ and $Uq^+-\text{He}$ collisions at medium velocities. <i>Physical Review A</i> , 1990, 41, 3559-3571.	1.0	61

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19	Investigations on the energy influx at plasma processes by means of a simple thermal probe. Thin Solid Films, 2000, 377-378, 585-591.	0.8	57
20	Chemical Reaction Studies in CH <sub>4</sub> /Ar and CH <sub>4</sub> /N <sub>2</sub> Gas Mixtures of a Dielectric Barrier Discharge. Journal of Physical Chemistry A, 2005, 109, 9371-9377.	1.1	57
21	Time-resolved investigation of dual high power impulse magnetron sputtering with closed magnetic field during deposition of TiCu thin films. Journal of Applied Physics, 2010, 108, .	1.1	57
22	Size-controlled formation of Cu nanoclusters in pulsed magnetron sputtering system. Surface and Coatings Technology, 2011, 205, 2755-2762.	2.2	57
23	Absolute cross sections for the excitation of n <sup>1</sup> P-levels of helium by proton impact (150-1000 keV). Journal of Physics B: Atomic and Molecular Physics, 1974, 7, 618-625.	1.6	53
24	Angular distribution of photoelectrons from above-threshold ionization of Xe. Physical Review A, 1985, 32, 3787-3789.	1.0	53
25	Physical properties of homogeneous TiO <sub>2</sub> films prepared by high power impulse magnetron sputtering as a function of crystallographic phase and nanostructure. Journal Physics D: Applied Physics, 2009, 42, 105204.	1.3	52
26	Chemical composition and bond structure of carbon-nitride films deposited by CH <sub>4</sub> /N <sub>2</sub> dielectric barrier discharge. Surface and Coatings Technology, 2007, 201, 6437-6444.	2.2	51
27	Absolute cross sections for inner shell ionization by lepton impact. Physical Review Letters, 1993, 71, 2707-2709.	2.9	50
28	Simultaneous electron-photon excitation of helium ( $h\nu = 1.17$ eV). Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 3241-3249.	0.6	49
29	Chemical synthesis and surface morphology of amorphous hydrogenated carbon nitride film deposited by N <sub>2</sub> /CH <sub>4</sub> dielectric barrier discharge plasma. Composite Interfaces, 2012, 19, 161-170.	1.3	48
30	ZDependence of Bremsstrahlung Radiation from Free Atoms. Physical Review Letters, 1981, 46, 1622-1625.	2.9	47
31	Flow of nanosize cluster-containing plasma in a magnetron discharge. Physical Review E, 2007, 75, 066402.	0.8	47
32	Line shape measurements of atoms sputtered from polycrystalline Cu, Zn, and Al by 300 keV Ar <sup>+</sup> bombardment. Nuclear Instruments & Methods, 1976, 132, 439-444.	1.2	46
33	Effect of nitrogen doping on TiO <sub>x</sub> N <sub>y</sub> thin film formation at reactive high-power pulsed magnetron sputtering. Journal Physics D: Applied Physics, 2010, 43, 285203.	1.3	46
34	L-subshell ionisation of Au by light-ion impact. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 4405-4417.	1.6	43
35	Time-resolved probe diagnostics of pulsed DC magnetron discharge during deposition of TiO <sub>x</sub> layers. Surface and Coatings Technology, 2006, 201, 2512-2519.	2.2	43
36	Aluminium atom density and temperature in a dc magnetron discharge determined by means of blue diode laser absorption spectroscopy. Journal Physics D: Applied Physics, 2005, 38, 2390-2395.	1.3	41

#	ARTICLE	IF	CITATIONS
37	Structural characterization of amorphous hydrogenated-carbon nitride (aH-CN <sub>x</sub> ) film deposited by CH <sub>4</sub> /N <sub>2</sub> dielectric barrier discharge plasma: <sup>13</sup> C, <sup>1</sup> H solid state NMR, FTIR and elemental analysis. Surface and Coatings Technology, 2009, 203, 2013-2016.	2.2	41
38	Simultaneous electron-photon excitation of hydrogen and helium. Zeitschrift für Physik A, 1984, 315, 271-276.	1.4	40
39	Mass Spectrometric Investigations of Nano-Size Cluster Ions Produced by High Pressure Magnetron Sputtering. Contributions To Plasma Physics, 2012, 52, 881-889.	0.5	40
40	Effect of mid-frequency discharge assistance on dual-high power impulse magnetron sputtering. Surface and Coatings Technology, 2012, 206, 2801-2809.	2.2	40
41	Alignment of H(2p) following H <sup>+</sup> -He, Ar charge-changing collisions. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 1507-1514.	1.6	39
42	Complex (dusty) plasmas: Examples for applications and observation of magnetron-induced phenomena. Pure and Applied Chemistry, 2005, 77, 415-428.	0.9	39
43	Deposition of rutile (TiO <sub>2</sub> ) with preferred orientation by assisted high power impulse magnetron sputtering. Surface and Coatings Technology, 2013, 222, 112-117.	2.2	39
44	Energy dependence of characteristic and bremsstrahlung cross sections of argon induced by electron bombardment at low energies. Zeitschrift für Physik A, 1982, 307, 83-87.	1.4	37
45	Examples for application and diagnostics in plasma-powder interaction. New Journal of Physics, 2003, 5, 93-93.	1.2	37
46	Threshold behaviour of Ar K and Xe L <sub>3</sub> ionisation by electron impact. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, L617-L621.	1.6	36
47	Alignment of H(2p) in H <sup>+</sup> -H <sub>2</sub> collisions. Physical Review A, 1988, 38, 1662-1665.	1.0	36
48	Time-resolved optical emission spectroscopy of a unipolar and a bipolar pulsed magnetron sputtering discharge in an argon/oxygen gas mixture with a cobalt target. Plasma Sources Science and Technology, 2019, 28, 115020.	1.3	36
49	Relative L-subshell ionisation cross sections for 0.15 to 10 MeV proton bombardment of Dy and Au. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 763-768.	1.6	35
50	Polarization studies of H(2p) charge-exchange excitation: H <sup>+</sup> -Ar collisions. Physical Review A, 1985, 31, 1399-1404.	1.0	34
51	Ion Molecule and Dust Particle Formation in Ar/CH <sub>4</sub> , Ar/C <sub>2</sub> H <sub>2</sub> and Ar/C <sub>3</sub> H <sub>6</sub> Radio-frequency Plasmas. Contributions To Plasma Physics, 2005, 45, 378-384.	0.5	34
52	The influence of target erosion on the mass spectra of clusters formed in the planar DC magnetron sputtering source. Surface and Coatings Technology, 2012, 213, 41-47.	2.2	34
53	Electron-photon angular correlations from electron impact excitation of heavy rare-gas atoms. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, L411-L414.	1.6	33
54	Surface Stoichiometry and Optical Properties of Cu <sub>x</sub> TyCz Thin Films Deposited by Magnetron Sputtering. Coatings, 2019, 9, 551.	1.2	33

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55	Ionization of xenon subshells by low-energy electron impact. <i>Physical Review A</i> , 1981, 23, 1730-1736.	1.0	32
56	Cross sections for charge-exchange excitation to H(2p) in proton-rare-gas-atom collisions (1–25 keV). <i>Physical Review A</i> , 1987, 35, 3139-3141.	1.0	32
57	Rotating dust ring in an RF discharge coupled with a dc-magnetron sputter source. Experiment and simulation. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 2703-2708.	1.3	32
58	Cytocompatibility of amorphous hydrogenated carbon nitride films deposited by CH <sub>4</sub> /N <sub>2</sub> dielectric barrier discharge plasmas with respect to cell lines. <i>Journal of Applied Physics</i> , 2008, 104, 074702.	1.1	32
59	Growth and melting of silicon supported silver nanocluster films. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 035306.	1.3	32
60	Dielectronic recombination of the B-like ions: N <sup>2+</sup> , O <sup>3+</sup> , and F <sup>4+</sup> . <i>Physical Review A</i> , 1988, 38, 2762-2766.	1.0	31
61	Electron Emission from Polycrystalline Copper Surfaces by Multi-Photon Absorption. <i>Europhysics Letters</i> , 1989, 9, 489-494.	0.7	31
62	Coherent excitation in few-electron atomic collisions systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 1-42.	0.6	31
63	Characterization of a Magnetron Plasma for Deposition of Titanium Oxide and Titanium Nitride Films. <i>Contributions To Plasma Physics</i> , 2005, 45, 348-357.	0.5	31
64	Strain Effects by Surface Oxidation of Cu <sub>3</sub> N Thin Films Deposited by DC Magnetron Sputtering. <i>Coatings</i> , 2017, 7, 64.	1.2	31
65	Time-resolved Langmuir probe diagnostics of a bipolar high power impulse magnetron sputtering discharge. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	31
66	On the determination of energy fluxes at plasma surface processes. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 72, 531-540.	1.1	30
67	Surface morphology and composition of films grown by size-selected Cu nanoclusters. <i>Vacuum</i> , 2008, 83, 719-723.	1.6	30
68	Role of Nitrogen in the Formation of HC <sub>3</sub> N Films by CH <sub>4</sub> /N <sub>2</sub> Barrier Discharge Plasma: Aliphatic Tendency. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15734-15741.	1.2	30
69	Antimicrobial Potential of Copper-Containing Titanium Surfaces Generated by Ion Implantation and Dual High Power Impulse Magnetron Sputtering. <i>Advanced Engineering Materials</i> , 2012, 14, B224.	1.6	30
70	Time-resolved tunable diode laser absorption spectroscopy of excited argon and ground-state titanium atoms in pulsed magnetron discharges. <i>Plasma Sources Science and Technology</i> , 2013, 22, 015002.	1.3	30
71	Formation of clusters through generation of free atoms. <i>Physica Scripta</i> , 2006, 73, 288-295.	1.2	29
72	Development of metal nanocluster ion source based on dc magnetron plasma sputtering at room temperature. <i>Review of Scientific Instruments</i> , 2009, 80, 095103.	0.6	29

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73	Growth and properties of Ti-Cu films with respect to plasma parameters in dual-magnetron sputtering discharges. European Physical Journal D, 2011, 64, 427-435.	0.6	29
74	Ionized vapor deposition of antimicrobial Ti-Cu films with controlled copper release. Thin Solid Films, 2014, 550, 389-394.	0.8	29
75	Pressure dependence of singly and doubly charged ion formation in a HiPIMS discharge. Journal of Applied Physics, 2019, 125, .	1.1	29
76	Absolute excitation cross sections for the 41 S-, 41 D- and 31 P-levels of helium excited by fast protons. European Physical Journal A, 1971, 248, 254-263.	1.0	28
77	Angular distribution of X-radiation following electron bombardment of free atoms. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, 989-998.	1.6	28
78	Impact parameter dependence of Ar L-shell excitation in slow Ar-Ar collisions. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, 997-1007.	1.6	28
79	Two-photon bremsstrahlung of free atoms. Physical Review Letters, 1991, 66, 2197-2199.	2.9	28
80	Investigation of diffusion and crystallization processes in thin ITO films by temperature and time resolved grazing incidence X-ray diffractometry. Surface Science, 2003, 540, 337-342.	0.8	28
81	delta -electron spectroscopy of multiply ionising proton-rate-gas collisions. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 2453-2466.	1.6	27
82	Partial doubly differential cross sections for multiple ionization of argon, krypton, and xenon atoms by electron impact. Physical Review A, 1989, 39, 530-536.	1.0	27
83	Microstructural and Chemical Evolution of CH <sub>3</sub> -Incorporated (Low-k) SiCO(H) Films Prepared by Dielectric Barrier Discharge Plasma. Journal of the Electrochemical Society, 2008, 155, D22.	1.3	27
84	Dielectric barrier discharge plasma treatment on <i>E. coli</i> : Influence of CH <sub>4</sub> /N <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> /O <sub>2</sub> , N <sub>2</sub> , and Ar gases. Journal of Applied Physics, 2009, 106, .	1.1	27
85	Highly ionized physical vapor deposition plasma source working at very low pressure. Applied Physics Letters, 2012, 100, .	1.5	27
86	Velocity distribution of mass-selected nano-size cluster ions. Plasma Sources Science and Technology, 2013, 22, 045011.	1.3	27
87	Plane wave born cross sections including exchange for K-shell ionization of light atoms. Zeitschrift für Physik A, 1982, 307, 287-292.	1.4	26
88	Angular distribution of photoelectrons from multiphoton ionisation ( $\lambda=532$ nm) of xenon. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, L713-L719.	1.6	26
89	Time-Resolved Diagnostics of Dual High Power Impulse Magnetron Sputtering With Pulse Delays of 15 $\mu$ s and 500 $\mu$ s. Contributions To Plasma Physics, 2011, 51, 237-245.	0.5	26
90	Angle-resolved investigation of ion dynamics in high power impulse magnetron sputtering deposition system. Thin Solid Films, 2013, 549, 177-183.	0.8	26

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91	Light emission from a Si target during ion beam sputtering. Surface Science, 1995, 327, 53-58.	0.8	25
92	Evaluation of antimicrobial effects of novel implant materials by testing the prevention of biofilm formation using a simple small scale medium-throughput growth inhibition assay. Biofouling, 2012, 28, 267-277.	0.8	25
93	Light emission from sputtered atoms following ion bombardment of polycrystalline Al and Cu targets. Vacuum, 1991, 42, 807-810.	1.6	24
94	Study of Electronegative Ar/O <sup>2+</sup> Discharge by Means of Langmuir Probe. Contributions To Plasma Physics, 2008, 48, 503-508.	0.5	24
95	Angular dependence of plasma parameters and film properties during high power impulse magnetron sputtering for deposition of Ti and TiO <sub>2</sub> layers. Journal of Applied Physics, 2017, 121, .	1.1	24
96	Polarization studies of H(2p) charge-exchange excitation:H <sup>+</sup> -He collisions. Physical Review A, 1987, 36, 4644-4651.	1.0	23
97	Development of dielectric barrier discharge plasma processing apparatus for mass spectrometry and thin film deposition. Review of Scientific Instruments, 2007, 78, 075103.	0.6	23
98	Design of magnetic field configuration for controlled discharge properties in highly ionized plasma. Plasma Sources Science and Technology, 2015, 24, 045016.	1.3	23
99	Time-resolved diagnostics of a bipolar HiPIMS discharge. Journal of Applied Physics, 2020, 127, .	1.1	23
100	Evidence for electron capture to the continuum by protons scattered at non-0° angles from Ar atoms. Physical Review A, 1998, 58, 296-303.	1.0	22
101	Plasma chemical reactions in C <sub>2</sub> H <sub>2</sub> /N <sub>2</sub> , C <sub>2</sub> H <sub>4</sub> /N <sub>2</sub> , and C <sub>2</sub> H <sub>6</sub> /N <sub>2</sub> gas mixtures of a laboratory dielectric barrier discharge. Advances in Space Research, 2011, 48, 857-861.	1.2	22
102	Electron spectroscopy of multiple ionization of argon by electron impact. Physical Review A, 1984, 30, 3328-3331.	1.0	21
103	Interaction of injected dust particles with metastable neon atoms in a radio frequency plasma. New Journal of Physics, 2008, 10, 053010.	1.2	21
104	Pulsed gas aggregation for improved nanocluster growth and flux. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1189-1193.	0.8	21
105	Excitation of He(31 D) by electron impact. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1994, 30, 129-133.	1.0	20
106	Multiple ionization of argon, krypton and xenon atoms by positron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 1095-1103.	0.6	20
107	Investigation of ionized metal flux in enhanced high power impulse magnetron sputtering discharges. Journal of Applied Physics, 2014, 115, .	1.1	20
108	The growth process of plasma-deposited ITO films investigated by grazing incidence X-ray techniques. Surface Science, 2000, 454-456, 790-795.	0.8	19

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109	Tunable diode laser absorption spectroscopy of argon metastable atoms in Ar/C <sub>2</sub> H <sub>2</sub> dusty plasmas. New Journal of Physics, 2009, 11, 033020.	1.2	19
110	An application of the branching ratio method for ion impact cross section measurements in the far ultraviolet. Zeitschrift für Physik A, 1979, 289, 239-243.	1.4	18
111	Angular distribution of electrons ejected from the argon L shell by 350 keV proton impact. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 71-80.	1.6	18
112	Bombardment-induced light emission from a Si(100) target. Physical Review B, 1997, 55, 13989-13992.	1.1	18
113	Efficiency of cluster generation in a magnetron discharge. Europhysics Letters, 2010, 91, 63001.	0.7	18
114	Plasma diagnostics of low pressure high power impulse magnetron sputtering assisted by electron cyclotron wave resonance plasma. Journal of Applied Physics, 2012, 112, .	1.1	18
115	Electron transfer processes in collisions of highly charged energetic (0.1–1.0 MeV/nucleon) ions with helium atoms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 262, 62-68.	0.7	17
116	Spin effects in slow (H-He)+collisions. Physical Review A, 1989, 40, 3446-3449.	1.0	17
117	Electric dipole moments of H(n=2) induced in H <sup>+</sup> -He and H-He collisions. Physical Review A, 1991, 43, 2587-2590.	1.0	17
118	Determination of rank 4 multipoles and of the partial cross sections for He(31D) excitation by electron impact. Physical Review Letters, 1993, 71, 235-238.	2.9	17
119	Pressure dependence of Ar <sub>2</sub> <sup>+</sup> , ArTi <sup>+</sup> , and Ti <sub>2</sub> <sup>+</sup> dimer formation in a magnetron sputtering discharge. Journal Physics D: Applied Physics, 2017, 50, 445205.	1.3	17
120	Investigation of the aluminium oxidation in an oxygen plasma excited by microwaves. Thin Solid Films, 2000, 377-378, 626-630.	0.8	16
121	The energy influx during plasma deposition of amorphous hydrogenated carbon films. Surface and Coatings Technology, 2002, 149, 206-216.	2.2	16
122	Metastable argon atom density in complex argon/acetylene plasmas determined by means of optical absorption and emission spectroscopy. Journal Physics D: Applied Physics, 2016, 49, 425201.	1.3	16
123	Deposition of cobalt oxide films by reactive pulsed magnetron sputtering. Surface and Coatings Technology, 2021, 405, 126590.	2.2	16
124	Evidence for rotationally induced 4f <sub>1</sub> f excitation in slow Kr-Xe and Kr-Kr collisions. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, L495-L500.	1.6	15
125	Photoelectron spectroscopy of above-threshold ionization of xenon with circularly and linearly polarized light. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1987, 5, 21-25.	1.0	15
126	Interaction of ion beams with dusty plasmas. Plasma Physics and Controlled Fusion, 2006, 48, B105-B113.	0.9	15

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127	Analysis of the Release Characteristics of Cu-Treated Antimicrobial Implant Surfaces Using Atomic Absorption Spectrometry. <i>Bioinorganic Chemistry and Applications</i> , 2012, 2012, 1-5.	1.8	15
128	Application of the escape factor method for determination of excited states densities in a low-pressure argon radio-frequency discharge. <i>Contributions To Plasma Physics</i> , 2013, 53, 549-559.	0.5	15
129	Angular and velocity distribution of nano-size cluster beams in a gas flow. <i>Vacuum</i> , 2014, 110, 140-145.	1.6	15
130	Light emission from sputtered atoms following ion bombardment of polycrystalline metal targets. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1992, 67, 620-623.	0.6	14
131	Characteristic and non-characteristic X-ray emission from SF <sub>6</sub> and SO <sub>2</sub> molecules by electron impact. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 42, 161-164.	1.0	14
132	In situ studies of diffusion and crystal growth in plasma deposited thin ITO films. <i>Thin Solid Films</i> , 2000, 377-378, 418-424.	0.8	14
133	Plasma and ion beam characterization by non-conventional methods. <i>Surface and Coatings Technology</i> , 2005, 200, 809-813.	2.2	14
134	Ion energy distribution of an inductively coupled radiofrequency discharge in argon and oxygen. <i>Vacuum</i> , 2008, 83, 732-737.	1.6	14
135	Study of thin Film Formation From Silicon-Containing Precursors Produced by an RF Non-Thermal Plasma Jet at Atmospheric Pressure. <i>Contributions To Plasma Physics</i> , 2012, 52, 872-880.	0.5	14
136	Cross sections for the excitation of the 41 S-, 41 D- and 31 P-levels of helium excited by fast He <sup>+</sup> -ions. <i>Zeitschrift für Physik A</i> , 1972, 257, 43-50.	0.9	13
137	Cross sections for Ne-K X-ray production in Ne <sup>+</sup> -Ne collisions (100 keV to 1.2 MeV). <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1973, 46, 31-32.	0.9	13
138	Coincidence measurements of M-shell excitation in slow Xe-Xe collisions. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1982, 15, 2041-2049.	1.6	13
139	Complete linear polarization of Lyman- $\beta$ radiation from metastable hydrogen atoms in external electric fields. <i>Physical Review A</i> , 1989, 39, 3388-3391.	1.0	13
140	Coherent excitation of H(n=2) in H <sup>+</sup> , H - He collisions. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1991, 18, 61-67.	1.0	13
141	Photon angular correlations and pressure-dependent effects of helium 21P and 31P excitation by electrons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 1429-1451.	0.6	13
142	Development of a new experimental setup for studying collisions of keV-electrons with thick and thin targets. <i>Pramana - Journal of Physics</i> , 2002, 58, 499-519.	0.9	13
143	Optical and chemical characterization of thin TiN <sub>x</sub> films deposited by DC-magnetron sputtering. <i>Vacuum</i> , 2008, 82, 1115-1119.	1.6	13
144	Processes involved in the formation of silver clusters on silicon surface. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 107, 1009-1021.	0.2	13

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145	Time-resolved Langmuir probe investigation of hybrid high power impulse magnetron sputtering discharges. <i>Vacuum</i> , 2013, 90, 176-181.	1.6	13
146	L-shell ionization by positron and electron impact. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 156, 303-306.	0.9	12
147	Blue Diode Laser Absorption Spectroscopy of Pulsed Magnetron Discharge. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8090-8094.	0.8	12
148	Production and deposition of energetic metal nanocluster ions of silver on Si substrates. <i>Surface and Coatings Technology</i> , 2009, 203, 2452-2457.	2.2	12
149	Behavior of a porous particle in a radiofrequency plasma under pulsed argon ion beam bombardment. <i>New Journal of Physics</i> , 2010, 12, 033036.	1.2	12
150	Study of mass and cluster flux in a pulsed gas system with enhanced nanoparticle aggregation. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	12
151	Mass spectrometric investigations of plasma chemical reactions in a radiofrequency discharge with Ar/C <sub>2</sub> H <sub>2</sub> and Ar/C <sub>2</sub> H <sub>2</sub> /O <sub>2</sub> gas mixtures. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	12
152	Measurement of inelasticities for charge correlated multiple ionization of Ne by fast C <sub>6</sub> <sup>+</sup> ions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987, 262, 6-9.	0.7	11
153	Alignment and orientation of H(2p) following excitation in H-He, Ne, Ar collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, 103-110.	0.6	11
154	Partial dissociative ionization of SF <sub>6</sub> by electron impact using an ejected electron-ion coincidence technique. <i>Physical Review A</i> , 2003, 67, .	1.0	11
155	Monte Carlo Simulations of the Electron Currents Collected by Electrostatic Probes. <i>Contributions To Plasma Physics</i> , 2004, 44, 577-581.	0.5	11
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