

Rainer Hippler

List of Publications by Year in descending order

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300
papers

6,320
citations

81743

39
h-index

123241

61
g-index

306
all docs

306
docs citations

306
times ranked

3582
citing authors

#	ARTICLE	IF	CITATIONS
1	Deposition of cobalt oxide films by reactive pulsed magnetron sputtering. Surface and Coatings Technology, 2021, 405, 126590.	2.2	16
2	A positively biased external anode for energy control of plasma ions: hollow cathode and magnetron sputtering discharge. Plasma Sources Science and Technology, 2021, 30, 045003.	1.3	10
3	Surface Stoichiometry and Depth Profile of Tix-CuyNz Thin Films Deposited by Magnetron Sputtering. Materials, 2021, 14, 3191.	1.3	11
4	Direct current and high power impulse magnetron sputtering discharges with a positively biased anode. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	0.9	7
5	Time-resolved diagnostics of a bipolar HiPIMS discharge. Journal of Applied Physics, 2020, 127, .	1.1	23
6	Time-resolved Langmuir probe diagnostics of a bipolar high power impulse magnetron sputtering discharge. Applied Physics Letters, 2020, 116, .	1.5	31
7	Ion formation in an argon and argon-oxygen gas mixture of a magnetron sputtering discharge. Journal of Physics Communications, 2019, 3, 055011.	0.5	10
8	Modified high frequency probe approach for diagnostics of highly reactive plasma. Plasma Sources Science and Technology, 2019, 28, 115009.	1.3	9
9	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
10	Synthesis of Tix-CuyNz thin film: Electronic bond structure. AIP Conference Proceedings, 2019, , .	0.3	0
11	Surface Stoichiometry and Optical Properties of Cuxâ€“TiyCz Thin Films Deposited by Magnetron Sputtering. Coatings, 2019, 9, 551.	1.2	33
12	Generation of positively and negatively charged molecular ions during sputtering of a copper target by low-energy Ar+ ion bombardment in a dilute argon/oxygen gas mixture. Plasma Sources Science and Technology, 2019, 28, 035008.	1.3	3
13	Pressure dependence of singly and doubly charged ion formation in a HiPIMS discharge. Journal of Applied Physics, 2019, 125, .	1.1	29
14	Influence of reactive oxygen species during deposition of iron oxide films by high power impulse magnetron sputtering. Journal Physics D: Applied Physics, 2018, 51, 095205.	1.3	11
15	Self-buckled effect of cubic Cu3N film: Surface stoichiometry. AIP Conference Proceedings, 2018, , .	0.3	1
16	Formation of $\{\mathrm{Cu}\}_{n}^{+}$ ($n=1-3$), $\{\mathrm{Ar}\}_{n}^{+}$ ($n=1, 2$), and ArCu^{+} ions during sputtering of a copper surface by low-energy Ar^{+} ion bombardment in a dilute argon atmosphere. Plasma Sources Science and Technology, 2018, 27, 065010.	1.3	2
17	Angular dependence of plasma parameters and film properties during high power impulse magnetron sputtering for deposition of Ti and TiO2 layers. Journal of Applied Physics, 2017, 121, .	1.1	24
18	Mass spectrometric investigations of plasma chemical reactions in a radiofrequency discharge with Ar/C2H2 and Ar/C2H2/O2 gas mixtures. Journal of Applied Physics, 2017, 121, .	1.1	12

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19	Pressure dependence of Ar ₂ ⁺ , ArTi ⁺ , and Ti ₂ ⁺ dimer formation in a magnetron sputtering discharge. Journal Physics D: Applied Physics, 2017, 50, 445205.	1.3	17
20	Mass and energy distribution of negatively and positively charged small cluster ions sputtered from GaAs(100) by 150 keV Ar ⁺ bombardment. Nuclear Instruments & Methods in Physics Research B, 2017, 407, 132-140.	0.6	5
21	Strain Effects by Surface Oxidation of Cu ₃ N Thin Films Deposited by DC Magnetron Sputtering. Coatings, 2017, 7, 64.	1.2	31
22	Spectroscopic Study of Plasma Polymerized a-C:H Films Deposited by a Dielectric Barrier Discharge. Materials, 2016, 9, 594.	1.3	9
23	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
24	Atmospheric effect corrections of MuSTANg data. Journal of Space Weather and Space Climate, 2015, 5, A6.	1.1	10
25	Clusters as a diagnostics tool for gas flows. Physics-Uspexhi, 2015, 58, 579-588.	0.8	6
26	Deposition and characterization of organic polymer thin films using a dielectric barrier discharge with different C ₂ H _m /N ₂ (m = 2, 4, 6) gas mixtures. European Physical Journal D, 2015, 69, 1.	0.6	2
27	Infrared spectroscopy of CH ₄ /N ₂ and C ₂ H ₂ /M (M = 2, 4, 6) gas mixtures and deposition of nitrogen-containing polymer films in a dielectric barrier discharge. , 2015, ,		0
28	Oxidation behavior of Cu nanoparticles embedded into semiconductive TiO ₂ matrix. Thin Solid Films, 2015, 589, 864-871.	0.8	7
29	Design of magnetic field configuration for controlled discharge properties in highly ionized plasma. Plasma Sources Science and Technology, 2015, 24, 045016.	1.3	23
30	Angular and velocity distribution of nano-size cluster beams in a gas flow. Vacuum, 2014, 110, 140-145.	1.6	15
31	Development of fast heating electron beam annealing setup for ultra high vacuum chamber. Review of Scientific Instruments, 2014, 85, 025107.	0.6	9
32	Comparative Plasma Chemical Reaction Studies of CH ₄ /Ar and C ₂ H _m /Ar (m = 2,4,6) Gas Mixtures in a Dielectric Barrier Discharge. Contributions To Plasma Physics, 2014, 54, 683-696.	0.5	9
33	Negatively and positively charged oxygen ion formation in collisions of positively charged projectiles with O ₂ molecules in the energy range 50-350 keV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 225208.	0.6	7
34	Investigation of ionized metal flux in enhanced high power impulse magnetron sputtering discharges. Journal of Applied Physics, 2014, 115, .	1.1	20
35	Ionized vapor deposition of antimicrobial Ti-Cu films with controlled copper release. Thin Solid Films, 2014, 550, 389-394.	0.8	29
36	Study of mass and cluster flux in a pulsed gas system with enhanced nanoparticle aggregation. Journal of Applied Physics, 2014, 116, .	1.1	12

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37	DC Operated Air Plasma Jet for Antimicrobial Copper Coatings on Temperature Labile Surfaces. IEEE Transactions on Plasma Science, 2014, 42, 2756-2757.	0.6	11
38	Time resolved tunable diode laser absorption spectroscopy of dual High Power Impulse Magnetron Sputtering discharges. International Journal of Modern Physics Conference Series, 2014, 32, 1460337.	0.7	0
39	Pulsed gas aggregation for improved nanocluster growth and flux. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1189-1193.	0.8	21
40	Infrared Spectroscopy of CH_4/N_2 and $\text{C}_2\text{H}_m/\text{N}_2$ ($m = 2, 4, 6$) Gas Mixtures in a Dielectric Barrier Discharge. Plasma Chemistry and Plasma Processing, 2014, 34, 1157-1170.	1.1	7
41	Time-resolved tuned diode laser absorption spectroscopy of pulsed plasma. Journal of Physics: Conference Series, 2014, 511, 012088.	0.3	0
42	Antimicrobial copper-coatings on temperature labile surfaces deposited with a DC plasma jet operated with air. , 2014, , .		1
43	In vivo examination of the local inflammatory response after implantation of Ti6Al4V samples with a combined low-temperature plasma treatment using pulsed magnetron sputtering of copper and plasma-polymerized ethylenediamine. Journal of Materials Science: Materials in Medicine, 2013, 24, 761-771.	1.7	10
44	Seasonal variations of the muon flux in the MUSTANG super telescope data. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 561-565.	0.1	1
45	Degradation of various textile dyes as wastewater pollutants under dielectric barrier discharge plasma treatment. Chemical Engineering Journal, 2013, 229, 9-19.	6.6	226
46	Shake up satellites and fluorescence property of carbon nitride and hydrogenated carbon nitride: Annealing effect. Surface Science, 2013, 609, 53-61.	0.8	10
47	Operational limit of a planar DC magnetron cluster source due to target erosion. Nuclear Instruments & Methods in Physics Research B, 2013, 316, 6-12.	0.6	6
48	Role of nitrogen in optical and electrical band gaps of hydrogenated/hydrogen free carbon nitride film. Thin Solid Films, 2013, 527, 151-157.	0.8	8
49	Angle-resolved investigation of ion dynamics in high power impulse magnetron sputtering deposition system. Thin Solid Films, 2013, 549, 177-183.	0.8	26
50	Ambient air particle transport into the effluent of a cold atmospheric-pressure argon plasma jet investigated by molecular beam mass spectrometry. Journal Physics D: Applied Physics, 2013, 46, 435203.	1.3	86
51	Role of nitrogen in evolution of sp ² /sp ³ bonding and optical band gap in hydrogenated carbon nitride. Vibrational Spectroscopy, 2013, 66, 63-68.	1.2	11
52	Deposition of rutile (TiO ₂) with preferred orientation by assisted high power impulse magnetron sputtering. Surface and Coatings Technology, 2013, 222, 112-117.	2.2	39
53	Time-resolved Langmuir probe investigation of hybrid high power impulse magnetron sputtering discharges. Vacuum, 2013, 90, 176-181.	1.6	13
54	Time-resolved tunable diode laser absorption spectroscopy of excited argon and ground-state titanium atoms in pulsed magnetron discharges. Plasma Sources Science and Technology, 2013, 22, 015002.	1.3	30

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55	Effects of Reactive Oxygen Species on Single Polycation Layers. Journal of Physical Chemistry B, 2013, 117, 8475-8483.	1.2	4
56	Seasonal variations of the muon flux seen by muon telescope MuSTAnG. Journal of Physics: Conference Series, 2013, 409, 012242.	0.3	9
57	Application of the escape factor method for determination of excited states densities in a low-pressure argon radio-frequency discharge. Contributions To Plasma Physics, 2013, 53, 549-559.	0.5	15
58	Superoxide-anion formation in collisions of positively charged argon ions with oxygen molecules. Physical Review A, 2013, 87, .	1.0	7
59	Velocity distribution of mass-selected nano-size cluster ions. Plasma Sources Science and Technology, 2013, 22, 045011.	1.3	27
60	Directional sensitivity of MuSTAnG muon telescope. Journal of Space Weather and Space Climate, 2013, 3, A16.	1.1	5
61	Note: Development of fast heating inert gas annealing apparatus operated at atmospheric pressure. Review of Scientific Instruments, 2012, 83, 046109.	0.6	3
62	Chemical synthesis and surface morphology of amorphous hydrogenated carbon nitride film deposited by N ₂ /CH ₄ dielectric barrier discharge plasma. Composite Interfaces, 2012, 19, 161-170.	1.3	48
63	Analysis of the Release Characteristics of Cu-Treated Antimicrobial Implant Surfaces Using Atomic Absorption Spectrometry. Bioinorganic Chemistry and Applications, 2012, 2012, 1-5.	1.8	15
64	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
65	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
66	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
67	Study of thin Film Formation From Silicon-Containing Precursors Produced by an RF Non-Thermal Plasma Jet at Atmospheric Pressure. Contributions To Plasma Physics, 2012, 52, 872-880.	0.5	14
68	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
69	Modeling of altered layer formation during reactive ion etching of GaAs. Applied Surface Science, 2012, 263, 626-632.	3.1	4
70	Highly ionized physical vapor deposition plasma source working at very low pressure. Applied Physics Letters, 2012, 100, .	1.5	27
71	Deposition of Amorphous Hydrogenated Carbon Nitride Films with a Dielectric Barrier Discharge. Plasma Processes and Polymers, 2012, 9, 647-651.	1.6	9
72	Antimicrobial Potential of Copper-Containing Titanium Surfaces Generated by Ion Implantation and Dual High Power Impulse Magnetron Sputtering. Advanced Engineering Materials, 2012, 14, B224.	1.6	30

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73	Ultra low-k property of hydrogenated carbon nitride: Chemical evaluation. Chemical Physics Letters, 2012, 524, 62-67.	1.2	7
74	Effect of mid-frequency discharge assistance on dual-high power impulse magnetron sputtering. Surface and Coatings Technology, 2012, 206, 2801-2809.	2.2	40
75	Dynamic Study of Dual High-Power Impulse Magnetron Sputtering Discharge by Optical Emission Imaging. IEEE Transactions on Plasma Science, 2011, 39, 2454-2455.	0.6	5
76	Deposition of thin titanium-copper films with antimicrobial effect by advanced magnetron sputtering methods. Materials Science and Engineering C, 2011, 31, 1512-1519.	3.8	111
77	Energy dependence of small silver clusters sputtered by 150keV ions. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3209-3211.	0.6	6
78	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
79	Plasma chemical reactions in C ₂ H ₂ /N ₂ , C ₂ H ₄ /N ₂ , and C ₂ H ₆ /N ₂ gas mixtures of a laboratory dielectric barrier discharge. Advances in Space Research, 2011, 48, 857-861.	1.2	22
80	Time-Resolved Diagnostics of Dual High Power Impulse Magnetron Sputtering With Pulse Delays of 15 Ås and 500 Ås. Contributions To Plasma Physics, 2011, 51, 237-245.	0.5	26
81	Size-controlled formation of Cu nanoclusters in pulsed magnetron sputtering system. Surface and Coatings Technology, 2011, 205, 2755-2762.	2.2	57
82	Low Cost Ferroelectric Loop Study Set up With New and Simple Compensation Circuit: Operated at Variable Frequencies. Ferroelectrics, Letters Section, 2011, 38, 78-85.	0.4	7
83	Ellipsometric study of carbon nitride films deposited by DC-magnetron sputtering. Photonics Letters of Poland, 2011, 3, .	0.2	3
84	Stability of a deposited liquid cluster. Journal of Experimental and Theoretical Physics, 2010, 110, 521-528.	0.2	2
85	Molecular dynamics of thermal vibration effects: Ar+Ni(100) collision system. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1103-1110.	1.7	3
86	Dependency of temperature on polarization in CH ₄ /N ₂ dielectric barrier discharge plasma: A crude assumption. Physics of Plasmas, 2010, 17, .	0.7	2
87	Thermal fragmentation of nano-size clusters on surfaces. Europhysics Letters, 2010, 90, 16001.	0.7	9
88	Efficiency of cluster generation in a magnetron discharge. Europhysics Letters, 2010, 91, 63001.	0.7	18
89	Effect of nitrogen doping on TiO _x N _y thin film formation at reactive high-power pulsed magnetron sputtering. Journal Physics D: Applied Physics, 2010, 43, 285203.	1.3	46
90	Behavior of a porous particle in a radiofrequency plasma under pulsed argon ion beam bombardment. New Journal of Physics, 2010, 12, 033036.	1.2	12

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91	Time-resolved investigation of dual high power impulse magnetron sputtering with closed magnetic field during deposition of Ti ⁶² Cu thin films. Journal of Applied Physics, 2010, 108, .	1.1	57
92	Fourier Analysis of Particle Motion in a Radio Frequency Plasma Under Pulsed Argon Ion Beam Bombardment. IEEE Transactions on Plasma Science, 2010, 38, 810-813.	0.6	1
93	Formation and Deposition of Nanosize Particles on Surfaces. Springer Series on Atomic, Optical, and Plasma Physics, 2010, , 299-314.	0.1	1
94	Development of metal nanocluster ion source based on dc magnetron plasma sputtering at room temperature. Review of Scientific Instruments, 2009, 80, 095103.	0.6	29
95	Growth and melting of silicon supported silver nanocluster films. Journal Physics D: Applied Physics, 2009, 42, 035306.	1.3	32
96	Rapid thermal annealing effect on amorphous hydrocarbon film deposited by CH ₄ /Ar dielectric barrier discharge plasma on Si wafer: Surface morphology and chemical evaluation. Journal of Applied Physics, 2009, 105, .	1.1	4
97	Tunable diode laser absorption spectroscopy of argon metastable atoms in Ar/C ₂ H ₂ dusty plasmas. New Journal of Physics, 2009, 11, 033020.	1.2	19
98	Cancer cells (MCF-7, Colo-357, and LNCaP) viability on amorphous hydrogenated carbon nitride film deposited by dielectric barrier discharge plasma. Journal of Applied Physics, 2009, 106, 034702.	1.1	10
99	Morphological evolution of films composed of energetic and size-selected silver nanocluster ions. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1432-1435.	0.6	9
100	Structural characterization of amorphous hydrogenated-carbon nitride (aH-CN _x) film deposited by CH ₄ /N ₂ dielectric barrier discharge plasma: ¹³ C, ¹ H solid state NMR, FTIR and elemental analysis. Surface and Coatings Technology, 2009, 203, 2013-2016.	2.2	41
101	Production and deposition of energetic metal nanocluster ions of silver on Si substrates. Surface and Coatings Technology, 2009, 203, 2452-2457.	2.2	12
102	Dielectric barrier discharge plasma treatment on <i>E. coli</i> : Influence of CH ₄ /N ₂ , O ₂ , N ₂ /O ₂ , N ₂ , and Ar gases. Journal of Applied Physics, 2009, 106, .	1.1	27
103	Physical properties of homogeneous TiO ₂ 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
104	Role of Nitrogen in the Formation of HC ¹⁴ N Films by CH ₄ /N ₂ Barrier Discharge Plasma: Aliphatic Tendency. Journal of Physical Chemistry B, 2009, 113, 15734-15741.	1.2	30
105	Reactive deposition of TiN _x layers in a DC-magnetron discharge. Surface and Interface Analysis, 2008, 40, 790-793.	0.8	2
106	Study of Electronegative Ar/O ₂ Discharge by Means of Langmuir Probe. Contributions To Plasma Physics, 2008, 48, 503-508.	0.5	24
107	Optical and chemical characterization of thin TiN _x films deposited by DC-magnetron sputtering. Vacuum, 2008, 82, 1115-1119.	1.6	13
108	Ion energy distribution of an inductively coupled radiofrequency discharge in argon and oxygen. Vacuum, 2008, 83, 732-737.	1.6	14

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109	Surface morphology and composition of films grown by size-selected Cu nanoclusters. Vacuum, 2008, 83, 719-723.	1.6	30
110	Processes involved in the formation of silver clusters on silicon surface. Journal of Experimental and Theoretical Physics, 2008, 107, 1009-1021.	0.2	13
111	Formation of TiO _x films produced by high-power pulsed magnetron sputtering. Journal Physics D: Applied Physics, 2008, 41, 055202.	1.3	78
112	Interaction of injected dust particles with metastable neon atoms in a radio frequency plasma. New Journal of Physics, 2008, 10, 053010.	1.2	21
113	Tunable Diode Laser Absorption Spectroscopy of Metastable Atoms in Dusty Plasmas. AIP Conference Proceedings, 2008, , .	0.3	0
114	Microstructural and Chemical Evolution of CH_3 -Incorporated (Low-k) SiCO(H) Films Prepared by Dielectric Barrier Discharge Plasma. Journal of the Electrochemical Society, 2008, 155, D22.	1.3	27
115	Cytocompatibility of amorphous hydrogenated carbon nitride films deposited by CH_4/N_2 dielectric barrier discharge plasmas with respect to cell lines. Journal of Applied Physics, 2008, 104, 074702.	1.1	32
116	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
117	Flow of nanosize cluster-containing plasma in a magnetron discharge. Physical Review E, 2007, 75, 066402.	0.8	47
118	Title is missing!. Physics-Uspexhi, 2007, 50, 455.	0.8	96
119	Chemical composition and bond structure of carbon-nitride films deposited by CH_4/N_2 dielectric barrier discharge. Surface and Coatings Technology, 2007, 201, 6437-6444.	2.2	51
120	Melting of small silver clusters investigated by HT-GIXRD. Zeitschrift für Kristallographie, Supplement, 2007, 2007, 267-272.	0.5	6
121	Formation of clusters through generation of free atoms. Physica Scripta, 2006, 73, 288-295.	1.2	29
122	Evidence for enhanced desorption of hydrogen atoms from a Si(100) surface induced by slow highly-charged ions. Nuclear Instruments & Methods in Physics Research B, 2006, 248, 253-258.	0.6	3
123	Time-resolved probe diagnostics of pulsed DC magnetron discharge during deposition of TiO _x layers. Surface and Coatings Technology, 2006, 201, 2512-2519.	2.2	43
124	Deposition of titanium/titanium oxide clusters produced by magnetron sputtering. Thin Solid Films, 2006, 500, 41-51.	0.8	95
125	Structural deformation, melting point and lattice parameter studies of size selected silver clusters. European Physical Journal D, 2006, 37, 409-415.	0.6	115
126	Investigation of the time evolution of plasma parameters in a pulsed magnetron discharge. European Physical Journal D, 2006, 56, B1364-B1370.	0.4	4

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127	Blue Diode Laser Absorption Spectroscopy of Pulsed Magnetron Discharge. Japanese Journal of Applied Physics, 2006, 45, 8090-8094.	0.8	12
128	Molecular Dynamics Study of a Thermal Expansion Coefficient: Ti Bulk with an Elastic Minimum Image Method. Chinese Physics Letters, 2006, 23, 1068-1071.	1.3	5
129	Interaction of ion beams with dusty plasmas. Plasma Physics and Controlled Fusion, 2006, 48, B105-B113.	0.9	15
130	Complex (dusty) plasmas: Examples for applications and observation of magnetron-induced phenomena. Pure and Applied Chemistry, 2005, 77, 415-428.	0.9	39
131	Impact excitation of MF magnetron discharge for PVD processes. Vacuum, 2005, 78, 611-615.	1.6	0
132	Bombardment of Ni(100) surface with low-energy argons: molecular dynamics simulations. Thin Solid Films, 2005, 474, 346-357.	0.8	6
133	Plasma and ion beam characterization by non-conventional methods. Surface and Coatings Technology, 2005, 200, 809-813.	2.2	14
134	Characterization of a Magnetron Plasma for Deposition of Titanium Oxide and Titanium Nitride Films. Contributions To Plasma Physics, 2005, 45, 348-357.	0.5	31
135	Ion Molecule and Dust Particle Formation in Ar/CH ₄ , Ar/C ₂ H ₂ and Ar/C ₃ H ₆ Radio-frequency Plasmas. Contributions To Plasma Physics, 2005, 45, 378-384.	0.5	34
136	Energy distribution of ion species in Ar/CH ₄ , Ar/C ₂ H ₂ , and Ar/C ₃ H ₆ radio-frequency plasmas. AIP Conference Proceedings, 2005, , .	0.3	0
137	Chemical Reaction Studies in CH ₄ /Ar and CH ₄ /N ₂ Gas Mixtures of a Dielectric Barrier Discharge. Journal of Physical Chemistry A, 2005, 109, 9371-9377.	1.1	57
138	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
139	Investigation of plasma parameters in the DC planar magnetron in balanced and unbalanced mode. European Physical Journal D, 2004, 54, C822-C827.	0.4	4
140	Monte Carlo Simulations of the Electron Currents Collected by Electrostatic Probes. Contributions To Plasma Physics, 2004, 44, 577-581.	0.5	11
141	Rotating dust ring in an RF discharge coupled with a dc-magnetron sputter source. Experiment and simulation. Journal Physics D: Applied Physics, 2004, 37, 2703-2708.	1.3	32
142	Plasma-Assisted Deposition and Crystal Growth of Thin Indium-Tin-Oxide (ITO) Films. Advances in Solid State Physics, 2004, , 299-312.	0.8	10
143	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
144	Investigation of a pulsed magnetron sputtering discharge with a vacuum pentode modulator power supply. Vacuum, 2003, 72, 59-69.	1.6	5

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145	Examples for application and diagnostics in plasma-powder interaction. <i>New Journal of Physics</i> , 2003, 5, 93-93.	1.2	37
146	Partial dissociative ionization of SF ₆ by electron impact using an ejected electron-ion coincidence technique. <i>Physical Review A</i> , 2003, 67, .	1.0	11
147	Ejected electron-ion coincidence measurements of multiple ionization of argon by 10-24 keV electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 3243-3256.	0.6	10
148	On the Interaction of a Complex Plasma with an External Ion Beam. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	3
149	On the Modification of Powder Particles in a Process Plasma. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	1
150	Influence of microstructure on oxygen diffusion in plasma-deposited In/Sn films. <i>Thin Solid Films</i> , 2002, 420-421, 306-311.	0.8	9
151	Design and fabrication of a time-of-flight spectrometer for studies of multiple ionization of gases by charged particle impact. <i>Pramana - Journal of Physics</i> , 2002, 58, 623-638.	0.9	7
152	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
153	Kinetic aspects of the formation of aluminium oxide by use of a microwave-induced plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 720-723.	1.9	5
154	The energy influx during plasma deposition of amorphous hydrogenated carbon films. <i>Surface and Coatings Technology</i> , 2002, 149, 206-216.	2.2	16
155	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
156	The energy balance at substrate surfaces during plasma processing. <i>Vacuum</i> , 2001, 63, 385-431.	1.6	318
157	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
158	Title is missing!. <i>Plasmas and Polymers</i> , 2001, 6, 237-266.	1.5	121
159	Amorphous-to-Crystalline Transformation of Thin ITO Films Studied by In-Situ Grazing Incidence X-Ray Diffractometry. <i>Materials Science Forum</i> , 2001, 378-381, 320-325.	0.3	2
160	Micro-Disperse Particles in Plasmas: From Disturbing Side Effects to New Applications. , 2001, 41, 598.		1
161	Sputtering yield and dynamical analysis of (100) surface: A comparison of four different Ar-surface interaction potentials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 164-165, 854-860.	0.6	7
162	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

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163	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
164	Investigation of the aluminium oxidation in an oxygen plasma excited by microwaves. Thin Solid Films, 2000, 377-378, 626-630.	0.8	16
165	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
166	Fundamental Processes of Plasma-Surface Interactions. Advances in Atomic, Molecular and Optical Physics, 2000, 43, 341-371.	2.3	0
167	Energy influx from an rf plasma to a substrate during plasma processing. Journal of Applied Physics, 2000, 87, 3637-3645.	1.1	69
168	Investigation of relative sputtering yields during ionoluminescence of Si. Applied Surface Science, 1999, 150, 107-114.	3.1	5
169	Thick-target X-ray bremsstrahlung spectra produced in 6.5 keV and 7.5 keV-Hf collisions. Pramana - Journal of Physics, 1999, 52, 493-502.	0.9	3
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171	On the energy influx to the substrate during sputter deposition of thin aluminium films. Thin Solid Films, 1998, 332, 282-289.	0.8	63
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