Carsten Bundesmann

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In situ erosion measurement tools for electric propulsion thrusters: triangular laser head and telemicroscope. EPJ Techniques and Instrumentation, 2022, 9, .	0.5	4
2	lon beam sputter deposition of \$\$hbox {SiO}_2\$\$ thin films using oxygen ions. European Physical Journal B, 2022, 95, 1.	0.6	3
3	Single- and two-photon absorption laser-induced fluorescence spectroscopy in rare gases for gridded ion thruster diagnostics. EPJ Techniques and Instrumentation, 2022, 9, .	0.5	6
4	Properties of gallium oxide thin films grown by ion beam sputter deposition at room temperature. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	2
5	Properties of indium tin oxide thin films grown by Ar ion beam sputter deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 033406.	0.9	7
6	Toward a systematic discovery of artificial functional magnetic materials. Physical Review B, 2021, 104,	1.1	5
7	Properties of secondary ions in ion beam sputtering of Ga2O3. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	0.9	4
8	Energy distributions of secondary ions for the Ar ion beam sputtering of indium tin oxide. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 064002.	0.6	3
9	Properties of secondary particles for the reactive ion beam sputtering of Ti and TiO2 using oxygen ions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	7
10	Titanium 3d ferromagnetism with perpendicular anisotropy in defective anatase. Physical Review B, 2020, 101, .	1.1	10
11	Properties of secondary particles for ion beam sputtering of silicon using low-energy oxygen ions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, 033011.	0.9	6
12	Ion beam sputtering of silicon: Energy distributions of sputtered and scattered ions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	0.9	15
13	Two-Photon Laser-Induced Fluorescence in a Radiofrequency Ion Thruster Plume in Krypton. Journal of Propulsion and Power, 2019, 35, 1175-1178.	1.3	1
14	Secondary particle properties for the ion beam sputtering of TiO2 in a reactive oxygen atmosphere. Applied Surface Science, 2019, 485, 391-401.	3.1	10
15	Laser-Induced Fluorescence in the Plume of a Radiofrequency Ion Thruster: Measurements and Excitation Schemes. , 2019, , .		1
16	Automatic spike correction using UNIFIT 2020. Surface and Interface Analysis, 2019, 51, 1342-1350.	0.8	1
17	Systematic investigation of the reactive ion beam sputter deposition process of SiO2. European Physical Journal B, 2018, 91, 1.	0.6	15
18	Tutorial: The systematics of ion beam sputtering for deposition of thin films with tailored properties. Journal of Applied Physics, 2018, 124, .	1.1	60

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19	Ion beam sputter deposition of TiO2 films using oxygen ions. European Physical Journal B, 2018, 91, 1.	0.6	10
20	Reactive Ar ion beam sputter deposition of TiO2 films: Influence of process parameters on film properties. Nuclear Instruments & Methods in Physics Research B, 2017, 395, 17-23.	0.6	14
21	Large area precision optical coatings by pulse magnetron sputtering. Proceedings of SPIE, 2017, , .	0.8	1
22	Correlation of process parameters and properties of TiO2 films grown by ion beam sputter deposition from a ceramic target. European Physical Journal B, 2017, 90, 1.	0.6	12
23	Advanced Electric Propulsion Diagnostic Tools at IOM. Procedia Engineering, 2017, 185, 1-8.	1.2	3
24	Modelling of a radio frequency plasma bridge neutralizer (RFPBN). Procedia Engineering, 2017, 185, 9-16.	1.2	6
25	Reactive ion beam sputtering of Ti: Influence of process parameters on angular and energy distribution of sputtered and backscattered particles. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 041001.	0.9	15
26	Systematic investigation of the properties of TiO2 films grown by reactive ion beam sputter deposition. Applied Surface Science, 2017, 421, 331-340.	3.1	37
27	Ion beam sputtering of Ti: Influence of process parameters on angular and energy distribution of sputtered and backscattered particles. Nuclear Instruments & Methods in Physics Research B, 2016, 385, 30-39.	0.6	23
28	An advanced electric propulsion diagnostic (AEPD) platform for in-situ characterization of electric propulsion thrusters and ion beam sources. European Physical Journal D, 2016, 70, 1.	0.6	12
29	Energy Distribution of Secondary Particles in Ion Beam Deposition Process of Ag: Experiment, Calculation and Simulation. Contributions To Plasma Physics, 2015, 55, 737-746.	0.5	25
30	Ion beam sputter deposition of Ge films: Influence of process parameters on film properties. Thin Solid Films, 2015, 589, 487-492.	0.8	22
31	An extended Drude model for the in-situ spectroscopic ellipsometry analysis of ZnO thin layers and surface modifications. Thin Solid Films, 2014, 571, 437-441.	0.8	9
32	Ion beam sputter deposition of Ag films: Influence of process parameters on electrical and optical properties, and average grain sizes. Thin Solid Films, 2014, 551, 46-52.	0.8	19
33	Electronic transitions and dielectric function tensor of a YMnO ₃ single crystal in the NIR-VUV spectral range. RSC Advances, 2014, 4, 33549-33554.	1.7	15
34	lon beam sputtering of germanium – Energy and angular distribution of sputtered and scattered particles. Nuclear Instruments & Methods in Physics Research B, 2014, 334, 88-95.	0.6	28
35	Ion beam sputtering of Ag $\hat{s} \in$ Angular and energetic distributions of sputtered and scattered particles. Nuclear Instruments & Methods in Physics Research B, 2013, 316, 198-204.	0.6	33
36	Systematic investigations of low energy Ar ion beam sputtering of Si and Ag. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 137-142.	0.6	26

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37	Photochemical preparation of aluminium oxide layers via vacuum ultraviolet irradiation of a polymeric hexanoato aluminium complex. Materials Chemistry and Physics, 2013, 137, 1046-1052.	2.0	10
38	Sputter yields of Mo, Ti, W, Al, Ag under xenon ion incidence. European Physical Journal D, 2011, 61, 587-592.	0.6	22
39	In Situ Thermal Characterization of the Accelerator Grid of an Ion Thruster. Journal of Propulsion and Power, 2011, 27, 532-537.	1.3	10
40	Note: An advancedin situdiagnostic system for characterization of electric propulsion thrusters and ion beam sources. Review of Scientific Instruments, 2010, 81, 046106.	0.6	9
41	Stress relaxation and optical characterization of TiO2 and SiO2 films grown by dual ion beam deposition. Thin Solid Films, 2008, 516, 8604-8608.	0.8	30
42	Investigation of the free charge carrier properties at the ZnOâ€sapphire interface in aâ€plane ZnO films studied by generalized infrared ellipsometry. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1350-1353.	0.8	2
43	Optical Properties of ZnO and Related Compounds. Springer Series in Materials Science, 2008, , 79-124.	0.4	34
44	Dielectric constants and phonon modes of amorphous hafnium aluminate deposited by metal organic chemical vapor deposition. Applied Physics Letters, 2007, 91, 121916.	1.5	8
45	Infrared optical properties of MgxZn1â^'xO thin films (0⩽x⩽1): Long-wavelength optical phonons and dielectric constants. Journal of Applied Physics, 2006, 99, 113504.	1.1	82
46	Low temperature photoluminescence and infrared dielectric functions of pulsed laser deposited ZnO thin films on silicon. Thin Solid Films, 2006, 496, 234-239.	0.8	25
47	Roughness and damage of a GaAs surface after chemically assisted ion beam etching with Cl2/Ar+. Microelectronic Engineering, 2005, 78-79, 457-463.	1.1	4
48	Combined Raman scattering, X-ray fluorescence and ellipsometry in-situ growth monitoring of CuInSe2-based photoabsorber layers on polyimide substrates. AIP Conference Proceedings, 2005, , .	0.3	2
49	Infrared dielectric function and vibrational modes of pentacene thin films. Applied Physics Letters, 2004, 84, 200-202.	1.5	18
50	Carrier redistribution in organic/inorganic (poly(3,4-ethylenedioxy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td Applied Physics Letters, 2004, 84, 1311-1313.	(thiophene 1.5	2/poly(styren 20
51	Optical and Structural Characteristics of Virtually Unstrained Bulk-Like GaN. Japanese Journal of Applied Physics, 2004, 43, 1264-1268.	0.8	37
52	Infrared ellipsometry characterization of conducting thin organic films. Thin Solid Films, 2004, 455-456, 295-300.	0.8	21
53	Infrared dielectric functions and crystal orientation of a-plane ZnO thin films on r-plane sapphire determined by generalized ellipsometry. Thin Solid Films, 2004, 455-456, 161-166.	0.8	32
54	Infrared ellipsometry and Raman studies of hexagonal InN films: correlation between strain and vibrational properties. Superlattices and Microstructures, 2004, 36, 573-580.	1.4	16

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55	Micro-Raman scattering profiling studies on HVPE-grown free-standing GaN. Physica Status Solidi A, 2004, 201, 2773-2776.	1.7	12
56	Infrared dielectric function and phonon modes of Mg-rich cubic MgxZn1â^'xO(x⩾0.67) thin films on sapphire (0001). Applied Physics Letters, 2004, 85, 905-907.	1.5	29
57	Optical and electrical properties of epitaxial (Mg,Cd)xZn1â^'xO, ZnO, and ZnO:(Ga,Al) thin films on c-plane sapphire grown by pulsed laser deposition. Solid-State Electronics, 2003, 47, 2205-2209.	0.8	140
58	Infrared dielectric functions and phonon modes of high-quality ZnO films. Journal of Applied Physics, 2003, 93, 126-133.	1.1	590
59	Raman scattering in ZnO thin films doped with Fe, Sb, Al, Ga, and Li. Applied Physics Letters, 2003, 83, 1974-1976.	1.5	595
60	High electron mobility of epitaxial ZnO thin films on c-plane sapphire grown by multistep pulsed-laser deposition. Applied Physics Letters, 2003, 82, 3901-3903.	1.5	596
61	Infrared dielectric functions and phonon modes of wurtzite MgxZn1â^'xOâ€,(x⩽0.2). Applied Physics Letters, 2002, 81, 2376-2378.	1.5	65