Daniel Primetzhofer

List of Publications by Year
in descending order

216	3,895	136950	206112
papers	citations	32 h-index	48 g-index

218	218	218	3723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Core-level spectra and binding energies of transition metal nitrides by non-destructive x-ray photoelectron spectroscopy through capping layers. Applied Surface Science, 2017, 396, 347-358.	6.1	109
2	Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. Nano Letters, 2013, 13, 586-593.	9.1	91
3	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
4	Vanishing Electronic Energy Loss of Very Slow Light Ions in Insulators with Large Band Gaps. Physical Review Letters, 2009, 103, 113201.	7.8	82
5	Galvanostatic Ion Detrapping Rejuvenates Oxide Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 26387-26390.	8.0	77
6	Electronic stopping of low-energy H and He in Cu and Au investigated by time-of-flight low-energy ion scattering. Physical Review B, 2009, 80, .	3.2	76
7	Unprecedented thermal stability of inherently metastable titanium aluminum nitride by point defect engineering. Materials Research Letters, 2017, 5, 158-169.	8.7	73
8	Bandgap widening in thermochromic Mg-doped VO2 thin films: Quantitative data based on optical absorption. Applied Physics Letters, 2013, 103, .	3.3	72
9	A Solutionâ€Doped Polymer Semiconductor:Insulator Blend for Thermoelectrics. Advanced Science, 2017, 4, 1600203.	11.2	72
10	Mnâ€Rich MnSb₂Te₄: A Topological Insulator with Magnetic Gap Closing at High Curie Temperatures of 45â€“50 K. Advanced Materials, 2021, 33, e2102935.	21.0	70
11	Tuning the Localized Surface Plasmon Resonance in Cu_{2â€“x}Se Nanocrystals by Postsynthetic Ligand Exchange. ACS Applied Materials & Interfaces, 2014, 6, 17770-17775.	8.0	68
12	Reference binding energies of transition metal carbides by core-level x-ray photoelectron spectroscopy free from Ar+ etching artefacts. Applied Surface Science, 2018, 436, 102-110.	6.1	68
13	Electrochromic WO₃ thin films attain unprecedented durability by potentiostatic pretreatment. Journal of Materials Chemistry A, 2019, 7, 2908-2918.	10.3	66
14	Electronic Excitations of Slow Ions in a Free Electron Gas Metal: Evidence for Charge Exchange Effects. Physical Review Letters, 2011, 107, 163201.	7.8	64
15	Electrochemical Rejuvenation of Anodically Coloring Electrochromic Nickel Oxide Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 42420-42424.	8.0	61
16	New beam line for time-of-flight medium energy ion scattering with large area position sensitive detector. Review of Scientific Instruments, 2012, 83, 095107.	1.3	57
17	Electronic interaction of very slow light ions in Au: Electronic stopping and electron emission. Physical Review B, 2008, 78, .	3.2	55
18	Ion beam analysis of fusion plasma-facing materials and components: facilities and research challenges. Nuclear Fusion, 2020, 60, 025001.	3.5	54

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19	Electronic Stopping of Slow Protons in Transition and Rare Earth Metals: Breakdown of the Free Electron Gas Concept. Physical Review Letters, 2017, 118, 103401.	7.8	52
20	Effect of oxygen incorporation on the structure and elasticity of Ti-Al-O-N coatings synthesized by cathodic arc and high power pulsed magnetron sputtering. Journal of Applied Physics, 2014, 116, .	2.5	51
21	Thermal stability and mechanical properties of sputtered (Hf,Ta,V,W,Zr)-diborides. Acta Materialia, 2020, 200, 559-569.	7.9	50
22	Accurate high-resolution depth profiling of magnetron sputtered transition metal alloy films containing light species: A multi-method approach. Thin Solid Films, 2019, 686, 137416.	1.8	46
23	Crystal Phase Transitions in the Shell of PbS/CdS Core/Shell Nanocrystals Influences Photoluminescence Intensity. Chemistry of Materials, 2014, 26, 5914-5922.	6.7	44
24	Ion beam tools for nondestructive in-situ and in-operando composition analysis and modification of materials at the Tandem Laboratory in Uppsala. Journal of Instrumentation, 2022, 17, P04011.	1.2	44
25	Disparate Energy Scaling of Trajectory-Dependent Electronic Excitations for Slow Protons and He Ions. Physical Review Letters, 2020, 124, 096601.	7.8	42
26	Characterization of magnetron sputtered Crâ€“B and Crâ€“Bâ€“C thin films for electrical contact applications. Surface and Coatings Technology, 2015, 266, 167-176.	4.8	40
27	Unprecedented Al supersaturation in single-phase rock salt structure VAlN films by Al+ subplantation. Journal of Applied Physics, 2017, 121, .	2.5	40
28	Substoichiometry and tantalum dependent thermal stability of Î±-structured W-Ta-B thin films. Scripta Materialia, 2018, 155, 5-10.	5.2	38
29	Non-reactively sputtered ultra-high temperature Hf-C and Ta-C coatings. Surface and Coatings Technology, 2017, 309, 436-444.	4.8	35
30	Composition driven phase evolution and mechanical properties of Moâ€“Crâ€“N hard coatings. Journal of Applied Physics, 2015, 118, .	2.5	34
31	Electronic Stopping of Slow Protons in Oxides: Scaling Properties. Physical Review Letters, 2017, 119, 163401.	7.8	34
32	Modeling of metastable phase formation for sputtered Ti1-xAlxN thin films. Acta Materialia, 2019, 165, 615-625.	7.9	34
33	Development of Wâ€“SiO2 and Nbâ€“TiO2 solar absorber coatings for combined heat and power systems at intermediate operation temperatures. Solar Energy Materials and Solar Cells, 2015, 133, 180-193.	6.2	33
34	Oxidation behaviour of V2AlC MAX phase coatings. Journal of the European Ceramic Society, 2020, 40, 4436-4444.	5.7	33
35	Inelastic energy loss of medium energy H and He ions in Au and Pt: Deviations from velocity proportionality. Physical Review B, 2012, 86, .	3.2	32
36	Crystal Effects in the Neutralization of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>He</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math>Ions in the Low Energy Ion Scattering Regime. Physical Review Letters, 2008, 100, 213201.	7.8	31

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37	Improving phase stability, hardness, and oxidation resistance of reactively magnetron sputtered (Al,Cr,Nb,Ta,Ti)N thin films by Si-alloying. Surface and Coatings Technology, 2021, 416, 127162.	4.8	31
38	Substrate rotation-induced chemical modulation in Ti-Al-O-N coatings synthesized by cathodic arc in an industrial deposition plant. Surface and Coatings Technology, 2016, 305, 249-253.	4.8	30
39	Yttrium oxyhydrides for photochromic applications: Correlating composition and optical response. Physical Review Materials, 2018, 2, .	2.4	29
40	Resonant charge transfer in low-energy ion scattering: Information depth in the reionization regime. Surface Science, 2011, 605, 1913-1917.	1.9	28
41	Remote Tracking of Phase Changes in Cr2AlC Thin Films by In-situ Resistivity Measurements. Scientific Reports, 2019, 9, 8266.	3.3	28
42	Age hardening in superhard ZrB2-rich Zr1-xTaxBy thin films. Scripta Materialia, 2021, 191, 120-125.	5.2	28
43	Uniform distribution of post-synthetic linker exchange in metalâ€“organic frameworks revealed by Rutherford backscattering spectrometry. Chemical Communications, 2017, 53, 6516-6519.	4.1	27
44	Composition of photochromic oxygen-containing yttrium hydride films. Solar Energy Materials and Solar Cells, 2018, 177, 66-69.	6.2	27
45	Tuning structure and mechanical properties of Ta-C coatings by N-alloying and vacancy population. Scientific Reports, 2018, 8, 17669.	3.3	27
46	Enhanced thermal stability of (Ti,Al)N coatings by oxygen incorporation. Acta Materialia, 2021, 218, 117204.	7.9	26
47	Systematic compositional analysis of sputter-deposited boron-containing thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	26
48	A procedure to determine electronic energy loss from relative measurements with TOF-LEIS. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 61-65.	1.4	25
49	Influence of carbon deficiency on phase formation and thermal stability of super-hard TaCy thin films. Scripta Materialia, 2018, 149, 150-154.	5.2	25
50	Strength of the interatomic potential derived from angular scans in LEIS. Surface Science, 2008, 602, 2921-2926.	1.9	24
51	Enhanced photochromic response in oxygen-containing yttrium hydride thin films transformed by an oxidation process. Solar Energy Materials and Solar Cells, 2017, 166, 185-189.	6.2	23
52	Influence of surface structure and composition on neutralization of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mmultiscripts><mml:mtext>H</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts><mml:mtext>e</mml:mtext></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:mr scattered from noble metals and alloy surfaces. Physical Review B, 2009, 80, .	3.2	22
53	Ion energy control via the electrical asymmetry effect to tune coating properties in reactive radio frequency sputtering. Plasma Sources Science and Technology, 2019, 28, 114001.	3.1	22
54	Dynamic Potential Sputtering of Lunar Analog Material by Solar Wind Ions. Astrophysical Journal, 2020, 891, 100.	4.5	22

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55	Influence of the non-metal species on the oxidation kinetics of Hf, HfN, HfC, and HfB2 coatings. Materials and Design, 2021, 211, 110136.	7.0	22
56	Charge exchange of He+-ions with aluminium surfaces. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1171-1174.	1.4	21
57	Band structure effects in Auger neutralization of He ions at metal surfaces. Physical Review B, 2011, 84, .	3.2	21
58	High Performance Full-Inorganic Flexible Memristor with Combined Resistance-Switching. ACS Applied Materials & Interfaces, 2022, 14, 21173-21180.	8.0	21
59	Electronic energy-loss mechanisms for H, He, and Ne in TiN. Physical Review A, 2017, 96, .	2.5	20
60	HPPMS deposition from composite targets: Effect of two orders of magnitude target power density changes on the composition of sputtered Cr-Al-C thin films. Vacuum, 2017, 145, 285-289.	3.5	20
61	Stress-Dependent Elasticity of TiAlN Coatings. Coatings, 2019, 9, 24.	2.6	20
62	Trajectory-dependent electronic excitations by light and heavy ions around and below the Bohr velocity. Physical Review A, 2020, 102, .	2.5	20
63	Stress-dependent prediction of metastable phase formation for magnetron-sputtered V1âˆ’xAlxN and Ti1âˆ’xAlxN thin films. Acta Materialia, 2020, 196, 313-324.	7.9	20
64	Unravelling the ion-energy-dependent structure evolution and its implications for the elastic properties of (V,Al)N thin films. Acta Materialia, 2021, 214, 117003.	7.9	20
65	A versatile time-of-flight medium-energy ion scattering setup using multiple delay-line detectors. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 16-20.	1.4	18
66	Tailoring magnetic order via atomically stacking 3d/5d electrons to achieve high-performance spintronic devices. Applied Physics Reviews, 2020, 7, .	11.3	18
67	Correlation between fracture characteristics and valence electron concentration of sputtered Hf-C-N based thin films. Surface and Coatings Technology, 2020, 399, 126212.	4.8	18
68	Experimental electronic stopping cross section of transition metals for light ions: Systematics around the stopping maximum. Physical Review A, 2020, 102, .	2.5	18
69	Correlating chemical composition and optical properties of photochromic rare-earth oxyhydrides using ion beam analysis. Nuclear Instruments & Methods in Physics Research B, 2020, 485, 36-40.	1.4	18
70	Large room temperature relative cooling power in La0.5Pr0.2Ca0.1Sr0.2MnO3. Journal of Alloys and Compounds, 2020, 827, 154292.	5.5	18
71	Effect of nitrogen vacancies on the growth, dislocation structure, and decomposition of single crystal epitaxial (Ti1-xAlx)Ny thin films. Acta Materialia, 2021, 203, 116509.	7.9	18
72	Influence of Ta on the oxidation resistance of WB2âˆ’z coatings. Journal of Alloys and Compounds, 2021, 864, 158121.	5.5	18

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73	Direct MoB MBene domain formation in magnetron sputtered MoAlB thin films. Nanoscale, 2021, 13, 18077-18083.	5.6	18
74	Evidence for postnatal neurogenesis in the human amygdala. Communications Biology, 2022, 5, 366.	4.4	18
75	Quantitative analysis of ultra thin layer growth by time-of-flight low energy ion scattering. Applied Physics Letters, 2008, 92, .	3.3	17
76	Matrix effects in the neutralization of He ions at a metal surface containing oxygen. Surface Science, 2013, 609, 167-171.	1.9	17
77	Synthesis and Properties of Orthorhombic MoAlB Coatings. Coatings, 2019, 9, 510.	2.6	17
78	Stopping cross section of vanadium for H + and He + ions in a large energy interval deduced from backscattering spectra. Nuclear Instruments & Methods in Physics Research B, 2018, 424, 43-51.	1.4	16
79	Modifying the nanostructure and the mechanical properties of Mo2BC hard coatings: Influence of substrate temperature during magnetron sputtering. Materials and Design, 2018, 142, 203-211.	7.0	16
80	Sputtering of polished EUROFER97 steel: Surface structure modification and enrichment with tungsten and tantalum. Journal of Nuclear Materials, 2018, 508, 139-146.	2.7	16
81	Electronic interaction of slow hydrogen and helium ions with nickel-silicon systems. Physical Review A, 2019, 100, .	2.5	16
82	Effect of nitrogen content on microstructure and corrosion resistance of sputter-deposited multicomponent (TiNbZrTa)Nx films. Surface and Coatings Technology, 2020, 404, 126485.	4.8	16
83	Photochromic properties of yttrium oxyhydride thin films: Surface versus bulk effect. Materialia, 2020, 11, 100706.	2.7	16
84	Trace element quantification in high-resolution Rutherford backscattering spectrometry. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1284-1287.	1.4	15
85	Characterization of TiN back contact interlayers with varied thickness for Cu 2 ZnSn(S,Se) 4 thin film solar cells. Thin Solid Films, 2017, 639, 91-97.	1.8	15
86	In-situ composition analysis of photochromic yttrium oxy-hydride thin films under light illumination. Solar Energy Materials and Solar Cells, 2019, 201, 110119.	6.2	15
87	Synthesis and in-situ characterization of photochromic yttrium oxyhydride grown by reactive eâ^'-beam evaporation. Scripta Materialia, 2020, 186, 352-356.	5.2	15
88	Photochromic Mechanism and Dualâ€Phase Formation in Oxygenâ€Containing Rareâ€Earth Hydride Thin Films. Advanced Optical Materials, 2020, 8, 2000822.	7.3	15
89	Experimental Insights Into Space Weathering of Phobos: Laboratory Investigation of Sputtering by Atomic and Molecular Planetary Ions. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006583.	3.6	15
90	On the surface sensitivity of angular scans in LEIS. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 36-39.	1.4	14

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91	Electronic stopping power of hydrogen in HfO2 at the stopping maximum and below. Nuclear Instruments & Methods in Physics Research B, 2014, 320, 100-103.	1.4	14
92	Atomic layer deposition of amorphous tin-gallium oxide films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 030906.	2.1	14
93	Influence of structure and cation distribution on magnetic anisotropy and damping in Zn/Al doped nickel ferrites. Physical Review B, 2020, 102, .	3.2	14
94	The influence of pressure and magnetic field on the deposition of epitaxial TiBx thin films from DC magnetron sputtering. Vacuum, 2020, 177, 109355.	3.5	14
95	Growth of two-dimensional WS2 thin films by reactive sputtering. Vacuum, 2021, 188, 110205.	3.5	14
96	Ferroelectric phase transitions in multiferroicGe1â^'xMnxTedriven by local lattice distortions. Physical Review B, 2016, 94, .	3.2	13
97	A note on extracting electronic stopping from energy spectra of backscattered slow ions applying Braggâ€™s rule. Nuclear Instruments & Methods in Physics Research B, 2018, 423, 82-86.	1.4	13
98	TiN Interlayers with Varied Thickness in Cu₂ZnSnS(e)₄ Thin Film Solar Cells: Effect on Na Diffusion, Back Contact Stability, and Performance. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800491.	1.8	13
99	Neutralization of slow helium ions scattered from single crystalline aluminum and tantalum surfaces and their oxides. Surface Science, 2020, 691, 121491.	1.9	13
100	In-operando observation of Li depth distribution and Li transport in thin film Li ion batteries. Applied Physics Letters, 2020, 117, .	3.3	13
101	Nonreciprocal spin pumping damping in asymmetric magnetic trilayers. Physical Review B, 2020, 101, .	3.2	13
102	Assessing boron quantification and depth profiling of different boride materials using ion beams. Surface and Coatings Technology, 2021, 417, 127188.	4.8	13
103	LEIS: A reliable tool for surface composition analysis?. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 624-627.	1.4	12
104	Local vs. non-local energy loss of low energy ions: Influence of charge exchange processes in close collisions. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 8-12.	1.4	12
105	On the Z1-dependence of electronic stopping in TiN. Scientific Reports, 2019, 9, 176.	3.3	12
106	Photoluminescence enhancement and high accuracy patterning of lead halide perovskite single crystals by MeV ion beam irradiation. Journal of Materials Chemistry C, 2020, 8, 9923-9930.	5.5	12
107	Calculation of Auger-neutralization probabilities for He+-ions in LEIS. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1296-1299.	1.4	11
108	Effects of the atomic level shift in the Auger neutralization rates of noble metal surfaces. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 206-212.	1.4	11

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109	Ion beam analysis of tungsten layers in EUROFER model systems and carbon plasma facing components. Nuclear Instruments & Methods in Physics Research B, 2016, 371, 355-359.	1.4	11
110	SIGMA: A Set-up for In-situ Growth, Material modification and Analysis by ion beams. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 96-100.	1.4	11
111	Spinodal decomposition of reactively sputtered (V0.64Al0.36)0.49N0.51 thin films. Surface and Coatings Technology, 2020, 389, 125641.	4.8	11
112	Simultaneous assessment of energy, charge state and angular distribution for medium energy ions interacting with ultra-thin self-supporting targets: A time-of-flight approach. Vacuum, 2021, 185, 109988.	3.5	11
113	Influence of screening length modification on the scattering cross section in LEIS. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1292-1295.	1.4	10
114	Quasi-resonant neutralization of He⁺ions at a germanium surface. Journal of Physics Condensed Matter, 2013, 25, 485006.	1.8	10
115	Vacancy filling effect in thermoelectric NbO. Journal of Physics Condensed Matter, 2015, 27, 115501.	1.8	10
116	Compositional and morphological analysis of FeW films modified by sputtering and heating. Nuclear Materials and Energy, 2017, 12, 472-477.	1.3	10
117	Cationâ€/Anionâ€Based Electrochemical Degradation and Rejuvenation of Electrochromic Nickel Oxide Thin Films. ChemElectroChem, 2018, 5, 3548-3556.	3.4	10
118	Correlative Experimental and Theoretical Investigation of the Angle-Resolved Composition Evolution of Thin Films Sputtered from a Compound Mo2BC Target. Coatings, 2019, 9, 206.	2.6	10
119	The impact of surface oxidation on energy spectra of keV ions scattered from transition metals. Applied Surface Science, 2019, 479, 1287-1292.	6.1	10
120	Environmental dependence of the photochromic effect of oxygen-containing rare-earth metal hydrides. Journal of Applied Physics, 2021, 129, .	2.5	10
121	Electronic interactions of medium-energy ions in hafnium dioxide. Physical Review A, 2014, 89, .	2.5	9
122	Energy loss of slow Ne ions in Pt and Ag from TOF-MEIS and Monte-Carlo simulations. Nuclear Instruments & Methods in Physics Research B, 2016, 371, 76-80.	1.4	9
123	Preferential Orientation of Photochromic Gadolinium Oxyhydride Films. Molecules, 2020, 25, 3181.	3.8	9
124	Solar wind Helium ion interaction with Mg and Fe rich pyroxene as Mercury surface analogue. Nuclear Instruments & Methods in Physics Research B, 2020, 480, 10-15.	1.4	9
125	Multicomponent TixNbCrAl nitride films deposited by dc and high-power impulse magnetron sputtering. Surface and Coatings Technology, 2021, 426, 127743.	4.8	9
126	Growth and optical properties of Ag clusters deposited on poly(ethylene terephthalate). Nanotechnology, 2011, 22, 275710.	2.6	8

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127	Ultra-thin film and interface analysis of high-k dielectric materials employing Time-Of-Flight Medium Energy Ion Scattering (TOF-MEIS). Nuclear Instruments & Methods in Physics Research B, 2014, 332, 212-215.	1.4	8
128	In-situ nanoscale characterization of composition and structure during formation of ultrathin nickel silicide. Applied Surface Science, 2021, 536, 147781.	6.1	8
129	Influence of Metal Substitution and Ion Energy on Microstructure Evolution of High-Entropy Nitride (TiZrTaMe)N_{1â€“x} (Me = Hf, Nb, Mo, or Cr) Films. ACS Applied Electronic Materials, 2021, 3, 2748-2756.	4.3	8
130	Experimental electronic stopping cross section of tungsten for light ions in a large energy interval. Nuclear Instruments & Methods in Physics Research B, 2021, 498, 1-8.	1.4	8
131	On the origin of the LEIS signal in TOF- and in ESA-LEIS. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 634-637.	1.4	7
132	Electronic stopping power of hydrogen in KCl at the stopping maximum and at very low energies. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2063-2066.	1.4	7
133	Electrical properties of Ag/Ta and Ag/TaN thin-films. Microelectronic Engineering, 2014, 120, 257-261.	2.4	7
134	Influence of swift heavy ion irradiation on the photoluminescence of Si-nanoparticles and defects in SiO2. Nanotechnology, 2017, 28, 375603.	2.6	7
135	Phase formation of Nb2AlC investigated by combinatorial thin film synthesis and ab initio calculations. Journal of the European Ceramic Society, 2017, 37, 35-41.	5.7	7
136	Analysis of photon emission induced by light and heavy ions in time-of-flight medium energy ion scattering. Nuclear Instruments & Methods in Physics Research B, 2018, 417, 75-80.	1.4	7
137	Assessing electron emission induced by pulsed ion beams: A time-of-flight approach. Nuclear Instruments & Methods in Physics Research B, 2020, 479, 217-221.	1.4	7
138	Contrast modes in a 3D ion transmission approach at keV energies. Ultramicroscopy, 2020, 217, 113051.	1.9	7
139	A multipurpose set-up using keV ions for nuclear reaction analysis, high-resolution backscattering spectrometry, low-energy PIXE and in-situ irradiation experiments. Nuclear Instruments & Methods in Physics Research B, 2020, 478, 104-110.	1.4	7
140	Energy deposition by nonequilibrium charge states of MeV <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">I</mml:mi><mml:mprescripts /><mml:none /><mml:mn>127</mml:mn></mml:mmultiscripts></mml:math> in Au. Physical Review A, 2021, 103, .	2.5	7
141	Photochromic Response of Encapsulated Oxygenâ€Containing Yttrium Hydride Thin Films. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000608.	2.4	7
142	Opportunities of combinatorial thin film materials design for the sustainable development of magnesium-based alloys. Scientific Reports, 2021, 11, 17454.	3.3	7
143	Energy deposition by H and He ions at keV energies in self-supporting, single crystalline SiC foils. Radiation Physics and Chemistry, 2022, 194, 110033.	2.8	7
144	Influence of ion irradiation-induced defects on phase formation and thermal stability of Ti0.27Al0.21N0.52 coatings. Acta Materialia, 2022, 237, 118160.	7.9	7

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145	Non-reactive HiPIMS deposition of NbCx thin films: Effect of the target power density on structure-mechanical properties. Surface and Coatings Technology, 2022, 444, 128674.	4.8	7
146	A study of a LEIS azimuthal scan behavior: Classical dynamics simulation. Surface Science, 2010, 604, 1906-1911.	1.9	6
147	Electronic stopping power of slow 20Ne ions in Au obtained from TOF-MEIS and Monte-Carlo computer simulations. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 26-29.	1.4	6
148	Si-nanoparticle synthesis using ion implantation and MeV ion irradiation. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1301-1305.	0.8	6
149	Correlative theoretical and experimental investigation of the formation of AlYB14 and competing phases. Journal of Applied Physics, 2016, 119, .	2.5	6
150	Ion-induced particle desorption in time-of-flight medium energy ion scattering. Nuclear Instruments & Methods in Physics Research B, 2018, 423, 22-26.	1.4	6
151	On the influence of uncertainties in scattering potentials on quantitative analysis using keV ions. Nuclear Instruments & Methods in Physics Research B, 2020, 470, 21-27.	1.4	6
152	Combination of in-situ ion beam analysis and thermal desorption spectroscopy for studying deuterium implanted in tungsten. Physica Scripta, 2021, 96, 124004.	2.5	6
153	Neutralization of low energy He+ ions by Cu in the Auger regime. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 18-20.	1.4	5
154	Influence of screening and electronic stopping on LEIS spectra. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 32-35.	1.4	5
155	Analysis of Mo/Si multilayers by means of RBS. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 126-129.	1.4	5
156	Epitaxial and textured TiN thin films grown on MgO(1â€‰0â€‰0) by reactive HiPIMS: the impact of charging on epitaxial to textured growth crossover. Journal Physics D: Applied Physics, 2016, 49, 455301.	2.8	5
157	Aggregation of Au(<scp>i</scp>)-complexes on amorphous substrates governed by aurophilicity. Dalton Transactions, 2019, 48, 14712-14723.	3.3	5
158	Enhanced Gilbert damping in Re-doped FeCo films: Combined experimental and theoretical study. Physical Review B, 2019, 99, .	3.2	5
159	Investigation of the energy loss of I in Au at energies below the Bragg peak. Nuclear Instruments & Methods in Physics Research B, 2019, 450, 37-42.	1.4	5
160	Electrochromism of nitrogen-doped tungsten oxide thin films. Materials Today: Proceedings, 2020, 33, 2434-2439.	1.8	5
161	Orthorhombic Ta3-xN5-yOy thin films grown by unbalanced magnetron sputtering: The role of oxygen on structure, composition, and optical properties. Surface and Coatings Technology, 2021, 406, 126665.	4.8	5
162	Determining the chronological sequence of inks deposited with different writing and printing tools using ion beam analysis. Journal of Forensic Sciences, 2021, 66, 1401-1409.	1.6	5

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163	Assessing the potential of ion beam analytical techniques for depth profiling Li in thin film Li ion batteries. Journal of Applied Physics, 2021, 130, .	2.5	5
164	An in-situ ToF-LEIS and AES study of near-surface modifications of the composition of EUROFER97 induced by thermal annealing. Nuclear Materials and Energy, 2022, 30, 101139.	1.3	5
165	Auger neutralization of He+ on Cu surfaces: Simulation of azimuthal scans. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 23-27.	1.4	4
166	ToF-MEIS stopping measurements in thin SiC films. Nuclear Instruments & Methods in Physics Research B, 2014, 332, 130-133.	1.4	4
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