Friedrich Aumayr

List of Publications by Year
in descending order

337 papers	7,710 citations	47006 47 h-index	88630 70 g-index
339 all docs	339 docs citations	339 times ranked	3053 citing authors

#	Article	IF	Citations
1	Analytical model for the sputtering of rough surfaces. Surfaces and Interfaces, 2022, 30, 101924.	3.0	13
2	Developing a physics understanding of the quasi-continuous exhaust regime: pedestal profile and ballooning stability analysis. Nuclear Fusion, 2022, 62, 086004.	3.5	8
3	Graphical user interface for SDTrimSP to simulate sputtering, ion implantation and the dynamic effects of ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2022, 522, 47-53.	1.4	19
4	Simultaneously measured direct and indirect thrust of a FEEP thruster using novel thrust balance and beam diagnostics. Acta Astronautica, 2022, 197, 107-114.	3.2	4
5	Comparative study regarding the sputtering yield of nanocolumnar tungsten surfaces under <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ar</mml:mi></mml:mrow><mml:mo>+</mml:mo> irradiation. Physical Review Materials, 2022, 6, .	2.4	4
6	Nano-hillock formation on CaF2 due to individual slow Au-cluster impacts. Nanotechnology, 2021, 32, 355701.	2.6	3
7	Fluorination of graphene leads to susceptibility for nanopore formation by highly charged ion impact. Physical Review Materials, 2021, 5, .	2.4	7
8	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
9	Peeling graphite layer by layer reveals the charge exchange dynamics of ions inside a solid. Communications Physics, 2021, 4, .	5.3	13
10	Creation of Lunar and Hermean analogue mineral powder samples for solar wind irradiation experiments and mid-infrared spectra analysis. Icarus, 2021, 365, 114492.	2.5	8
11	Sputter yields of rough surfaces: Importance of the mean surface inclination angle from nano- to microscopic rough regimes. Applied Surface Science, 2021, 570, 151204.	6.1	31
12	IFM Nano Thruster performance studied by experiments and numerical simulations. Journal Physics D: Applied Physics, 2021, 54, 095203.	2.8	11
13	Angle-dependent charge exchange and energy loss of slow highly charged ions in freestanding graphene. Physical Review A, 2021, 104, .	2.5	5
14	Formation of beryllium-hydrogen ions in chemical sputtering from 20 to 420eV. Nuclear Materials and Energy, 2020, 22, 100722.	1.3	3
15	The role of contaminations in ion beam spectroscopy with freestanding 2D materials: A study on thermal treatment. Journal of Chemical Physics, 2020, 153, 014702.	3.0	11
16	The role of contaminations on the interaction of highly charged ions with 2D materials. Journal of Physics: Conference Series, 2020, 1412, 202011.	0.4	1
17	Atomic-Scale Carving of Nanopores into a van der Waals Heterostructure with Slow Highly Charged Ions. ACS Nano, 2020, 14, 10536-10543.	14.6	22
18	Energy deposition of highly charged ions transmitted through single layer MoS2. Journal of Physics: Conference Series, 2020, 1412, 162018.	0.4	0

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19	Highly charged ion impact on graphene leading to the emission of low energy electrons. Journal of Physics: Conference Series, 2020, 1412, 202012.	0.4	0
20	A high temperature dual-mode quartz crystal microbalance technique for erosion and thermal desorption spectroscopy measurements. Review of Scientific Instruments, 2020, 91, 125104.	1.3	9
21	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
22	Solar wind sputtering of lunar analogue material. Journal of Physics: Conference Series, 2020, 1412, 202006.	0.4	0
23	Dynamic Potential Sputtering of Lunar Analog Material by Solar Wind Ions. Astrophysical Journal, 2020, 891, 100.	4.5	22
24	Erosion of iron-tungsten model films by deuterium ion irradiation: a benchmark for TRI3DYN. Physica Scripta, 2020, T171, 014021.	2.5	8
25	Vanishing influence of the band gap on the charge exchange of slow highly charged ions in freestanding single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2020, 102, .	3.2	15
26	Sputtering of nanostructured tungsten and comparison to modelling with TRI3DYN. Journal of Nuclear Materials, 2020, 532, 152019.	2.7	23
27	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
28	Highlights of the Science and Life of Peter Varga (1946â€”2018). E-Journal of Surface Science and Nanotechnology, 2020, 18, 8-11.	0.4	0
29	Charge-Exchange-Driven Low-Energy Electron Splash Induced by Heavy Ion Impact on Condensed Matter. Journal of Physical Chemistry Letters, 2019, 10, 4805-4811.	4.6	17
30	Roadmap on photonic, electronic and atomic collision physics: III. Heavy particles: with zero to relativistic speeds. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171003.	1.5	22
31	Roadmap on photonic, electronic and atomic collision physics: I. Lightâ€“matter interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171001.	1.5	52
32	Roadmap on photonic, electronic and atomic collision physics: II. Electron and antimatter interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171002.	1.5	22
33	Femtosecond laser induced periodic surface structures for the enhancement of field emission properties of tungsten. Optical Materials Express, 2019, 9, 3183.	3.0	11
34	The role of radiative de-excitation in the neutralization process of highly charged ions interacting with a single layer of graphene. Nuclear Instruments & Methods in Physics Research B, 2018, 422, 63-67.	1.4	4
35	Divertor, scrape-off layer and pedestal particle dynamics in the ELM cycle on ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2018, 60, 025002.	2.1	12
36	Plasma shaping and its impact on the pedestal of ASDEX Upgrade: edge stability and inter-ELM dynamics at varied triangularity. Nuclear Fusion, 2018, 58, 046008.	3.5	12

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37	Parameter dependences of small edge localized modes (ELMs). Nuclear Fusion, 2018, 58, 112001.	3.5	47
38	High resolution AFM studies of irradiated micaâ€"following the traces of swift heavy ions under grazing incidence. Journal of Physics Condensed Matter, 2018, 30, 285001.	1.8	4
39	Fluence dependent changes of surface morphology and sputtering yield of iron: Comparison of experiments with SDTrimSP-2D. Nuclear Instruments & Methods in Physics Research B, 2018, 430, 42-46.	1.4	20
40	Neutralization Dynamics of Slow Highly Charged Ions in 2D Materials. Applied Sciences (Switzerland), 2018, 8, 1050.	2.5	8
41	A versatile ion beam spectrometer for studies of ion interaction with 2D materials. Review of Scientific Instruments, 2018, 89, 085101.	1.3	14
42	Solar wind sputtering of wollastonite as a lunar analogue material â€“ Comparisons between experiments and simulations. Icarus, 2018, 314, 98-105.	2.5	30
43	Enhanced photoelectric detection of NV magnetic resonances in diamond under dual-beam excitation. Physical Review B, 2017, 95, .	3.2	34
44	An attempt to apply the inelastic thermal spike model to surface modifications of CaF₂induced by highly charged ions: comparison to swift heavy ions effects and extension to some others material. Journal of Physics Condensed Matter, 2017, 29, 095001.	1.8	23
45	Sputtering measurements using a quartz crystal microbalance as a catcher. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 533-537.	1.4	8
46	Charge equilibration times for slow highly charged ions in single layer graphene. Journal of Physics: Conference Series, 2017, 875, 112001.	0.4	0
47	Interatomic Coulombic Decay: The Mechanism for Rapid Deexcitation of Hollow Atoms. Physical Review Letters, 2017, 119, 103401.	7.8	69
48	Erosion of Fe-W model system under normal and oblige D ion irradiation. Nuclear Materials and Energy, 2017, 12, 468-471.	1.3	9
49	Pulsed Photoelectric Coherent Manipulation and Detection of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>V</mml:mi></mml:mrow></mml:math> Center Spins in Diamond. Physical Review Applied, 2017, 7, .	3.8	27
50	Publisherâ€™s Note: Pulsed Photoelectric Coherent Manipulation and Detection of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>V</mml:mi></mml:mrow></mml:math> Center Spins In Diamond [Phys. Rev. Applied 7 , 044032 (2017)]. Physical Review Applied, 2017, 7, .	3.8	5
51	Pedestal structure and inter-ELM evolution for different main ion species in ASDEX Upgrade. Physics of Plasmas, 2017, 24, .	1.9	27
52	Plasmaâ€"wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. Nuclear Fusion, 2017, 57, 116041.	3.5	75
53	Ultrafast electronic response of graphene to a strong and localized electric field. Nature Communications, 2016, 7, 13948.	12.8	125
54	Large-scale quantum technology based on luminescent centers in crystals. , 2016, , .		1

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55	A setup for transmission measurements of low energy multiply charged ions through free-standing few atomic layer films. Nuclear Instruments & Methods in Physics Research B, 2016, 382, 119-122.	1.4	1
56	Swift heavy ion irradiation of CaF₂â€“ from grooves to hillocks in a single ion track. Journal of Physics Condensed Matter, 2016, 28, 405001.	1.8	17
57	Transient effects during erosion of WN by deuterium ions studied with the quartz crystal microbalance technique. Nuclear Instruments & Methods in Physics Research B, 2016, 382, 82-85.	1.4	8
58	Tuning the Fabrication of Nanostructures by Low-Energy Highly Charged Ions. Physical Review Letters, 2016, 117, 126101.	7.8	29
59	Charge-state-dependent energy loss of slow ions. I. Experimental results on the transmission of highly charged ions. Physical Review A, 2016, 93, .	2.5	20
60	High frequency magnetic fluctuations correlated with the inter-ELM pedestal evolution in ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2016, 58, 065005.	2.1	57
61	Elementary processes with atoms and molecules in isolated and aggregated states. European Physical Journal D, 2015, 69, 1.	1.3	0
62	Hillock formation on CaF₂, A1₂O₃, c-SiO₂and MgO single crystal surfaces by ion impact - From potential energy deposition to electronic energy loss. Journal of Physics: Conference Series, 2015, 635, 032005.	0.4	0
63	Interaction of multiply charged ions with single layer graphene Part I: charge exchange and energy loss. Journal of Physics: Conference Series, 2015, 635, 032002.	0.4	0
64	Interaction of highly charged ions with carbon nano membranes. Journal of Physics: Conference Series, 2015, 635, 012027.	0.4	1
65	Threshold and Efficiency for Perforation of 1nm Thick Carbon Nano-membranes with Slow Highly Charged Ions. Journal of Physics: Conference Series, 2015, 635, 032011.	0.4	0
66	Experimental and theoretical studies of 4.5-keV Ar7+ guided through a conical glass macrocapillary. Journal of Physics: Conference Series, 2015, 635, 032015.	0.4	0
67	Studies of surface nanostructure formation due to swift heavy ion irradiation under grazing incidence. Journal of Physics: Conference Series, 2015, 635, 032001.	0.4	0
68	Interaction of multiply charged ions with single layer graphene Part II: electron emission. Journal of Physics: Conference Series, 2015, 635, 032003.	0.4	0
69	Threshold and efficiency for perforation of 1 nm thick carbon nanomembranes with slow highly charged ions. 2D Materials, 2015, 2, 035009.	4.4	21
70	Conceptual design and sample preparation of electrode covered single glass macro-capillaries for studying the effect of an external electric field on particle guiding. Nuclear Instruments & Methods in Physics Research B, 2015, 354, 324-327.	1.4	2
71	Highly charged ion induced nanostructures at surfaces by strong electronic excitations. Progress in Surface Science, 2015, 90, 377-395.	8.3	31
72	Role of electron temperature in the particle transport in the pedestal during pedestal evolution. Journal of Nuclear Materials, 2015, 463, 1091-1095.	2.7	1

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73	Experiments and simulations of 4.5-keV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ar</mml:mi></mml:mrow><mml:mrow><mml:mn> through a conical glass macrocapillary. Physical Review A, 2015, 91, .	2.8	16
74	Plasmaâ€“wall interactions with nitrogen seeding in all-metal fusion devices: Formation of nitrides and ammonia. Fusion Engineering and Design, 2015, 98-99, 1371-1374.	1.9	33
75	Nano-structuring of CaF2 surfaces by slow highly charged ions: simulation and experiment. Journal of Physics: Conference Series, 2014, 488, 132015.	0.4	1
76	Interaction of nitrogen ions with beryllium surfaces. Nuclear Instruments & Methods in Physics Research B, 2014, 340, 34-38.	1.4	5
77	Temperature control of ion guiding through tapered capillaries. Nuclear Instruments & Methods in Physics Research B, 2014, 340, 1-4.	1.4	13
78	Electron-emission processes in highly charged Ar and Xe ions impinging on highly ordered pyrolytic graphite at energies just above the kinetic threshold. Physical Review A, 2014, 90, .	2.5	8
79	Characterization of the Li-BES at ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2014, 56, 025008.	2.1	70
80	Charge Exchange and Energy Loss of Slow Highly Charged Ions in 1Ânm Thick Carbon Nanomembranes. Physical Review Letters, 2014, 112, 153201.	7.8	62
81	Interaction between seeding gas ions and nitrogen saturated tungsten surfaces. International Journal of Mass Spectrometry, 2014, 365-366, 64-67.	1.5	12
82	Surface modifications of BaF2 and CaF2 single crystals by slow highly charged ions. Applied Surface Science, 2014, 310, 169-173.	6.1	11
83	Nanostructuring CaF2 surfaces with slow highly charged ions. Journal of Physics: Conference Series, 2014, 488, 012002.	0.4	3
84	The effect of temperature on ion guiding through tapered glass capillaries. Journal of Physics: Conference Series, 2014, 488, 132013.	0.4	2
85	Energy deposition by heavy ions: Additivity of kinetic and potential energy contributions in hillock formation on CaF2. Scientific Reports, 2014, 4, 5742.	3.3	28
86	Fabrication of nanopores in 1â€‰nm thick carbon nanomembranes with slow highly charged ions. Applied Physics Letters, 2013, 102, .	3.3	49
87	Interaction of charged particles with insulating capillary targets â€“ The guiding effect. Progress in Surface Science, 2013, 88, 237-278.	8.3	70
88	Highly charged ion impact induced nanodefects in diamond. Nuclear Instruments & Methods in Physics Research B, 2013, 314, 135-139.	1.4	4
89	Novel aspects on the irradiation of HOPG surfaces with slow highly charged ions. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 252-256.	1.4	14
90	An ultra-compact setup for measuring ion-induced electron emission statistics. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 44-47.	1.4	1

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91	Effect of chemical etching on poly(methyl methacrylate) irradiated with slow highly charged ions. Physica Scripta, 2013, T156, 014065.	2.5	0
92	Particle transport analysis of the density build-up after the Lâ€“H transition in ASDEX Upgrade. Nuclear Fusion, 2013, 53, 093020.	3.5	27
93	Pit formation on poly(methyl methacrylate) due to ablation induced by individual slow highly charged ion impact. Europhysics Letters, 2012, 97, 13001.	2.0	26
94	Atomic-orbital close-coupling calculations for collisions involving fusion relevant highly charged impurity ions using very large basis sets. , 2012, , .		0
95	Improved chopping of a lithium beam for plasma edge diagnostic at ASDEX Upgrade. Review of Scientific Instruments, 2012, 83, 023501.	1.3	39
96	Nano-craters due to impact of individual highly charged ions on surfaces and thin films. Journal of Physics: Conference Series, 2012, 388, 132028.	0.4	0
97	Kinetic-energy-driven enhancement of secondary-electron yields of highly charged ions impinging on thin films of C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>60</mml:mn></mml:msub></mml:math>on Au. Physical Review A, 2012, 86, .	2.5	1
98	Temperature control of ion guiding through insulating capillaries. Physical Review A, 2012, 86, .	2.5	52
99	Electron density evolution after Lâ€“H transitions and the Lâ€“H/Hâ€“L cycle in ASDEX Upgrade. Nuclear Fusion, 2012, 52, 114026.	3.5	13
100	Recent progress in understanding the Lâ€“H transition physics from ASDEX Upgrade. Plasma Physics and Controlled Fusion, 2012, 54, 124002.	2.1	7
101	Fast computation of large-scale close-coupling systems on the example of N7+â^' H collisions. Journal of Physics: Conference Series, 2012, 388, 082055.	0.4	0
102	Atomic-orbital close-coupling calculations of charge exchange and ionisation in collisions of H(1s) and highly charged neon and argon ions. Journal of Physics: Conference Series, 2012, 388, 082056.	0.4	0
103	The effect of temperature on guiding of slow highly charged ions through a mesoscopic glass capillary. Journal of Physics: Conference Series, 2012, 388, 132031.	0.4	0
104	Contribution of Surface Plasmon Decay to Secondary Electron Emission from an Al Surface. Journal of Physics: Conference Series, 2012, 388, 022091.	0.4	1
105	Charge exchange and ionization in N^{7 +}â€“, N^{6 +}â€“, C^{6 +}â€“H(n=) Tj ETQq1 1 0.784314 Molecular and Optical Physics, 2012, 45, 065203.	1.5	22
106	Phase Diagram for Nanostructuring<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaF</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Surfaces by Slow Highly Charged Ions. Physical Review Letters, 2012, 109, 117602.	7.8	42
107	Transient effects during sputtering of a-C:H surfaces by nitrogen ions. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 20-24.	1.4	2
108	Sample holder for studying temperature dependent particle guiding. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 182-185.	1.4	7

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109	Sputtering of tungsten by N⁺and N₂⁺ions: investigations of molecular effects. Physica Scripta, 2011, T145, 014017.	2.5	19
110	Single ion induced surface nanostructures: a comparison between slow highly charged and swift heavy ions. Journal of Physics Condensed Matter, 2011, 23, 393001.	1.8	157
111	Guiding Of Slow Highly Charged Ions Through A Single Mesoscopic Glass Capillary. , 2011, , .		3
112	Fast computation of close-coupling exchange integrals using polynomials in a tree representation. Computer Physics Communications, 2011, 182, 775-778.	7.5	2
113	Surface nanostructuring of SrTiO3 single crystals by slow highly charged ions and swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1234-1237.	1.4	27
114	Using a current method for measuring ion-induced electron emission from LiF. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 964-967.	1.4	0
115	Electron emission yields from boron-like Ar ions impinging on Au(100). Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1203-1207.	1.4	5
116	Highly-charged-ion-induced electron emission from C60thin films. Physical Review A, 2011, 84, .	2.5	6
117	Contribution of surface plasmon decay to secondary electron emission from an Al surface. Applied Physics Letters, 2011, 99, 184102.	3.3	23
118	Atomic-Orbital Close-Coupling Calculations Of Electron Capture From Hydrogen Atoms Into Highly Excited Rydberg States Of Multiply Charged Ions. , 2011, , .		0
119	Nano-structure formation due to impact of highly charged ions on HOPG. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2897-2900.	1.4	21
120	A deceleration system at the Heidelberg EBIT providing very slow highly charged ions for surface nanostructuring. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2972-2976.	1.4	8
121	Nanostructure formation due to impact of highly charged ions on mica. Vacuum, 2010, 84, 1062-1065.	3.5	33
122	Pyramidal pits created by single highly charged ions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaF</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu crystals. Physical Review B, 2010, 82, .	3.2	29
123	Low-energy ion-induced electron emission in metal-insulator-metal sandwich structures. Physical Review B, 2010, 81, .	3.2	12
124	Scanning Probe Microscopy: From Living Cells to the Subatomic Range. , 2010, , 359-385.		0
125	Surface nanostructures by single highly charged ions. Journal of Physics Condensed Matter, 2009, 21, 224012.	1.8	30
126	Charge exchange in Be⁴⁺â€“H(n= 1, 2) collisions studied systematically by atomic-orbital close-coupling calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 235206.	1.5	16

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127	Development of an atomic force microscope closed fluid cell for tribological investigations of large samples in chemically aggressive environments. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2009, 223, 759-765.	1.8	1
128	Kinetic electron emission due to perpendicular impact of carbon ions on tungsten surfaces. Applied Surface Science, 2009, 255, 6303-6307.	6.1	2
129	Transmission of 4.5keV <mml:math altimg="si14.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/	1.4	78
130	A quartz-crystal-microbalance technique to investigate ion-induced erosion of fusion relevant surfaces. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 695-699.	1.4	17
131	Production of a microbeam of slow highly charged ions with a single microscopic glass capillary. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2277-2279.	1.4	40
132	Electron emission from tungsten induced by slow, fusion-relevant ions. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2634-2637.	1.4	5
133	Ion-induced erosion of tungsten surfaces studied by a sensitive quartz-crystal-microbalance technique. Journal of Nuclear Materials, 2009, 390-391, 1102-1105.	2.7	10
134	A sodium (Na) beam edge diagnostic. Journal of Nuclear Materials, 2009, 390-391, 1110-1113.	2.7	5
135	Nanostructures induced by highly charged ions on CaF₂and KBr. Journal of Physics: Conference Series, 2009, 194, 012060.	0.4	6
136	Transmission of 4.5 keV Ar9+ions through a single glass macrocapillary. Journal of Physics: Conference Series, 2009, 194, 132019.	0.4	3
137	Potential energy - induced nanostructuring of insulator surfaces by impact of slow, very highly charged ions. Journal of Physics: Conference Series, 2009, 194, 132027.	0.4	1
138	Atomic-orbital close-coupling calculations of Be⁴⁺+ H(ls) â†' Be³⁺(nâ„“) + H⁺. Journal of Physics: Conference Series, 2009, 194, 082022.	0.4	0
139	Database for inelastic collisions of sodium atoms with electrons, protons, and multiply charged ions. Atomic Data and Nuclear Data Tables, 2008, 94, 981-1014.	2.4	21
140	Nano-sized surface modifications induced by the impact of slow highly charged ions â€“ A first review. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2729-2735.	1.4	66
141	Electronic interaction of very slow light ions in Au: Electronic stopping and electron emission. Physical Review B, 2008, 78, .	3.2	55
142	Hot electrons induced by slow multiply charged ions. New Journal of Physics, 2008, 10, 073019.	2.9	12
143	Potential electron emission induced by multiply charged ions in thin film tunnel junctions. Physical Review B, 2008, 77, .	3.2	25
144	Creation of Nanohillocks on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaF</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Surfaces by Single Slow Highly Charged Ions. Physical Review Letters, 2008, 100, 237601.	7.8	122

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145	Electron Emission from Insulators Irradiated by Slow Highly Charged Ions. E-Journal of Surface Science and Nanotechnology, 2008, 6, 54-59.	0.4	23
146	Compact 14.5 GHz all-permanent magnet ECRIS for experiments with slow multicharged ions. Journal of Physics: Conference Series, 2007, 58, 395-398.	0.4	31
147	Electron emission and energy loss in grazing collisions of protons with insulator surfaces. Physical Review A, 2007, 76, .	2.5	5
148	Single- and double-electron capture cross sections for slowHe2+impact onO2,H2, andD2. Physical Review A, 2007, 75, .	2.5	9
149	Algal Biophysics: Euglena Gracilis Investigated by Atomic Force Microscopy. Materials Science Forum, 2007, 555, 411-416.	0.3	1
150	Single and double electron capture by slow He2+from atoms and molecules. Journal of Physics: Conference Series, 2007, 58, 181-184.	0.4	4
151	Charging and discharging of nano-capillaries during ion-guiding of multiply charged projectiles. Journal of Physics: Conference Series, 2007, 58, 319-322.	0.4	18
152	Creation of surface nanostructures by irradiation with slow, highly charged ions. Radiation Effects and Defects in Solids, 2007, 162, 467-472.	1.2	23
153	On the nano-hillock formation induced by slow highly charged ions on insulator surfaces. Solid-State Electronics, 2007, 51, 1398-1404.	1.4	44
154	Scanning force microscopy of surface damage created by fast C60 cluster ions in CaF2 and LaF3 single crystals. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 313-318.	1.4	9
155	Kinetic electron emission by grazing atom scattering from clean flat metal surfaces. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 455-463.	1.4	7
156	Highly charged ion-induced potential electron emission from clean Au(111): Dependence on the projectile angle of incidence. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 520-523.	1.4	7
157	Surface nanostructures induced by slow highly charged ions on CaF2 single crystals. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 346-349.	1.4	27
158	Potential energy threshold for nano-hillock formation by impact of slow highly charged ions on a CaF2(111) surface. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 167-171.	1.4	48
159	Electronic excitations during grazing scattering of hydrogen atoms on KI(001) and LiF(001) surfaces. European Physical Journal D, 2007, 41, 505-511.	1.3	2
160	Potential Electron Emission from Metal and Insulator Surfaces. , 2007, , 79-112.		15
161	Scanning Probe Microscopy: From Living Cells to the Subatomic Range. Nanoscience and Technology, 2006, , 27-53.	1.5	0
162	Effect of particle-induced electron emission (PIEE) on the plasma sheath voltage. Plasma Physics and Controlled Fusion, 2006, 48, 1093-1103.	2.1	10

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