

Andrei Borisov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

179
papers

8,631
citations

44
h-index

88
g-index

185
ext. papers

9,518
ext. citations

5.1
avg, IF

6.02
L-index

#	Paper	IF	Citations
179	Mapping Lamb, Stark, and Purcell Effects at a Chromophore-Picocavity Junction with Hyper-Resolved Fluorescence Microscopy. <i>Physical Review X</i> , 2022 , 12,	9.1	5
178	Ultrafast Dynamics of Electronic Resonances in Molecules Adsorbed on Metal Surfaces: A Wave Packet Propagation Approach. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 639-654	6.4	1
177	Unveiling the anisotropic behavior of ultrafast electron transfer at the metal/organic interface. <i>Applied Surface Science</i> , 2021 , 554, 149311	6.7	1
176	Electronic Exciton-Plasmon Coupling in a Nanocavity Beyond the Electromagnetic Interaction Picture. <i>Nano Letters</i> , 2021 , 21, 8466-8473	11.5	2
175	Refraction of Fast Ne Atoms in the Attractive Well of a LiF(001) Surface. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4564-4569	6.4	3
174	Active control of ultrafast electron dynamics in plasmonic gaps using an applied bias. <i>Physical Review B</i> , 2020 , 101,	3.3	7
173	Second-Harmonic Generation from a Quantum Emitter Coupled to a Metallic Nanoantenna. <i>ACS Photonics</i> , 2020 , 7, 701-713	6.3	4
172	Probing the Radiative Electromagnetic Local Density of States in Nanostructures with a Scanning Tunneling Microscope. <i>ACS Photonics</i> , 2020 , 7, 1280-1289	6.3	3
171	Sub-femtosecond electron transport in a nanoscale gap. <i>Nature Physics</i> , 2020 , 16, 341-345	16.2	42
170	Resonant anionic states of organic molecules adsorbed on metal surfaces. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 202015	0.3	
169	Molecule Detection with Graphene Dimer Nanoantennas. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 28218-28219	3.8	1
168	Dynamics of electron-emission currents in plasmonic gaps induced by strong fields. <i>Faraday Discussions</i> , 2019 , 214, 147-157	3.6	9
167	Electronic Structure Effects in the Coupling of a Single Molecule with a Plasmonic Antenna. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4446-4456	3.8	5
166	Attosecond Dynamics of sp-Band Photoexcitation. <i>Physical Review Letters</i> , 2019 , 123, 176801	7.4	4
165	Role of electron tunneling in the nonlinear response of plasmonic nanogaps. <i>Physical Review B</i> , 2018 , 97,	3.3	21
164	Controlling gap plasmons with quantum resonances. <i>Physical Review B</i> , 2018 , 98,	3.3	1
163	Fast atom diffraction inside a molecular beam epitaxy chamber, a rich combination. <i>Applied Surface Science</i> , 2017 , 391, 53-58	6.7	9

162	Electric Field-Induced High Order Nonlinearity in Plasmonic Nanoparticles Retrieved with Time-Dependent Density Functional Theory. <i>ACS Photonics</i> , 2017 , 4, 613-620	6.3	4
161	Vicinage effect in the energy loss of H2 dimers: Experiment and calculations based on time-dependent density-functional theory. <i>Physical Review A</i> , 2017 , 95,	2.6	11
160	Ground- and excited-state scattering potentials for the stopping of protons in an electron gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 185201	1.3	9
159	Electrical control of the light absorption in quantum-well functionalized junctions between thin metallic films. <i>Physical Review B</i> , 2017 , 96,	3.3	1
158	Quantum description of the optical response of charged monolayer-thick metallic patch nanoantennas. <i>Physical Review B</i> , 2017 , 95,	3.3	7
157	Engineering the emission of light from a scanning tunneling microscope using the plasmonic modes of a nanoparticle. <i>Physical Review B</i> , 2016 , 93,	3.3	22
156	Electron tunneling through water layer in nanogaps probed by plasmon resonances. <i>Physical Review B</i> , 2016 , 93,	3.3	6
155	Quantum mechanical effects in plasmonic structures with subnanometre gaps. <i>Nature Communications</i> , 2016 , 7, 11495	17.4	453
154	Plasmon Response and Electron Dynamics in Charged Metallic Nanoparticles. <i>Langmuir</i> , 2016 , 32, 2829-40	4	29
153	Quantum effects in the plasmon response of bimetallic core-shell nanostructures. <i>Optics Express</i> , 2016 , 24, 23941-23956	3.3	7
152	Ultrafast electronic response of graphene to a strong and localized electric field. <i>Nature Communications</i> , 2016 , 7, 13948	17.4	91
151	Atomistic near-field nanoplasmonics: reaching atomic-scale resolution in nanooptics. <i>Nano Letters</i> , 2015 , 15, 3410-9	11.5	205
150	Quantum effects in the optical response of extended plasmonic gaps: validation of the quantum corrected model in core-shell nanomatryushkas. <i>Optics Express</i> , 2015 , 23, 8134-49	3.3	18
149	Nanooptics of Plasmonic Nanomatryoshkas: Shrinking the Size of a Core-Shell Junction to Subnanometer. <i>Nano Letters</i> , 2015 , 15, 6419-28	11.5	106
148	Determination of the geometric corrugation of graphene on SiC(0001) by grazing incidence fast atom diffraction. <i>Applied Physics Letters</i> , 2015 , 106, 101902	3.4	24
147	A classical treatment of optical tunneling in plasmonic gaps: extending the quantum corrected model to practical situations. <i>Faraday Discussions</i> , 2015 , 178, 151-83	3.6	119
146	Active quantum plasmonics. <i>Science Advances</i> , 2015 , 1, e1501095	14.3	55
145	The Morphology of Narrow Gaps Modifies the Plasmonic Response. <i>ACS Photonics</i> , 2015 , 2, 295-305	6.3	89

144	Transient quantum trapping of fast atoms at surfaces. <i>Physical Review Letters</i> , 2014 , 112, 023203	7.4	22
143	Combined experimental and theoretical study of fast atom diffraction on the $\sqrt{2}\times\sqrt{2}$ reconstructed GaAs(001) surface. <i>Physical Review B</i> , 2014 , 90,	3.3	29
142	Robust subnanometric plasmon ruler by rescaling of the nonlocal optical response. <i>Physical Review Letters</i> , 2013 , 110, 263901	7.4	173
141	Surface-grating deflection of fast atom beams. <i>Physical Review A</i> , 2013 , 88,	2.6	12
140	Green's function approach to the lifetimes of image potential resonances at metal surfaces. <i>Physical Review B</i> , 2013 , 88,	3.3	4
139	When fast atom diffraction turns 3D. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 83-89	1.2	9
138	Dynamic screening and energy loss of antiprotons colliding with excited Al clusters. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 56-60	1.2	9
137	Plexciton quenching by resonant electron transfer from quantum emitter to metallic nanoantenna. <i>Nano Letters</i> , 2013 , 13, 5972-8	11.5	47
136	Quantum effects and nonlocality in strongly coupled plasmonic nanowire dimers. <i>Optics Express</i> , 2013 , 21, 27306-25	3.3	127
135	Resonant and nonresonant processes in attosecond streaking from metals. <i>Physical Review B</i> , 2013 , 87,	3.3	31
134	Theoretical study of the effect of beam misalignment in fast-atom diffraction at surfaces. <i>Physical Review A</i> , 2013 , 87,	2.6	11
133	Revealing the quantum regime in tunnelling plasmonics. <i>Nature</i> , 2012 , 491, 574-7	50.4	788
132	Bridging quantum and classical plasmonics with a quantum-corrected model. <i>Nature Communications</i> , 2012 , 3, 825	17.4	675
131	Dynamic screening of a localized hole during photoemission from a metal cluster. <i>Nanoscale Research Letters</i> , 2012 , 7, 447	5	2
130	Quantum plasmonics: nonlinear effects in the field enhancement of a plasmonic nanoparticle dimer. <i>Nano Letters</i> , 2012 , 12, 1333-9	11.5	378
129	Attostreaking with metallic nano-objects. <i>New Journal of Physics</i> , 2012 , 14, 023036	2.9	19
128	Quantum-well states with image state character for Pb overlayers on Cu(111). <i>Physical Review B</i> , 2012 , 86,	3.3	5
127	Momentum-resolved electron dynamics of image-potential states on Cu and Ag surfaces. <i>Physical Review B</i> , 2012 , 85,	3.3	15

126	Transition from fast to slow atom diffraction. <i>Physical Review A</i> , 2012 , 86,	2.6	20
125	Comment on "Phase contribution of image potential on empty quantum well states in Pb islands on the Cu(111) surface". <i>Physical Review Letters</i> , 2011 , 106, 249601; author reply 249602	7.4	8
124	Localization, splitting, and mixing of field emission resonances induced by alkali metal clusters on Cu(100). <i>Physical Review B</i> , 2011 , 83,	3.3	19
123	Theoretical study of constant current scanning tunneling spectroscopy in Pb overlayers. <i>Physical Review B</i> , 2011 , 84,	3.3	6
122	Clustering and conductance in breakage of sodium nanowires. <i>Physical Review B</i> , 2011 , 83,	3.3	2
121	Theoretical study of the electronic excited states in ultrathin ionic layers supported on metal surfaces: NaCl/Cu(111). <i>Physical Review B</i> , 2011 , 83,	3.3	8
120	Lifetime of electronic excitations in metal nanoparticles. <i>New Journal of Physics</i> , 2010 , 12, 053023	2.9	13
119	Optical spectroscopy of conductive junctions in plasmonic cavities. <i>Nano Letters</i> , 2010 , 10, 3090-5	11.5	187
118	A scanning tunneling microscope as a tunable nanoantenna for atomic scale control of optical-field enhancement. <i>Nano Letters</i> , 2010 , 10, 3857-62	11.5	12
117	Amplitude- and Phase-Resolved Near-Field Mapping of Infrared Antenna Modes by Transmission-Mode Scattering-Type Near-Field Microscopy <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7341-7345	3.8	75
116	Lifetimes of quantum well states and resonances in Pb overlayers on Cu(111). <i>Physical Review B</i> , 2009 , 80,	3.3	17
115	Excited electron dynamics in Cu nanowires supported on a Cu(111) surface. <i>Physical Review B</i> , 2009 , 79,	3.3	9
114	Optical resonances in the scattering of light from a nanostructured metal surface: A three-dimensional numerical study. <i>Physical Review B</i> , 2009 , 79,	3.3	10
113	Extraordinary electron propagation length in a metallic double chain supported on a metal surface. <i>Physical Review Letters</i> , 2009 , 102, 166807	7.4	15
112	Linewidth of a cesium adatom resonance on Ag(111). <i>Physical Review B</i> , 2009 , 79,	3.3	5
111	Mapping of the electron transmission through the wall of a quantum corral. <i>Surface Science</i> , 2009 , 603, 2074-2081	1.8	3
110	Interferences between resonances localized in metal nanostructures supported on metal surfaces. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 132003	0.3	
109	Omnidirectional absorption in nanostructured metal surfaces. <i>Nature Photonics</i> , 2008 , 2, 299-301	33.9	377

108	Electronic potential of a chemisorption interface. <i>Physical Review B</i> , 2008 , 78,	3.3	61
107	Bound States in the continuum in photonics. <i>Physical Review Letters</i> , 2008 , 100, 183902	7.4	43 ^o
106	Electron propagation along Cu nanowires supported on a Cu(111) surface. <i>Nano Letters</i> , 2008 , 8, 2712-7	11.5	18
105	Lifetime of an adsorbate excitation modified by a tunable two-dimensional substrate. <i>Physical Review B</i> , 2008 , 78,	3.3	10
104	Theoretical study of electron confinement in Cu corrals on a Cu(111) surface. <i>Physical Review B</i> , 2008 , 77,	3.3	9
103	Pi resonance of chemisorbed alkali atoms on noble metals. <i>Physical Review Letters</i> , 2008 , 101, 266801	7.4	28
102	Theoretical study of excited electronic states at surfaces, link with photo-emission and photo-desorption experiments. <i>Journal of Physics: Conference Series</i> , 2008 , 133, 012009	0.3	1
101	Time-dependent density functional calculation of the energy loss of antiprotons colliding with metallic nanoshells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1312-1316	1.6	8
100	Different quantization behaviors of electrons confined in nanostructures at surfaces. <i>Physical Review B</i> , 2007 , 76,	3.3	5
99	Excited states in the alkali/noble metal surface systems: A model system for the study of charge transfer dynamics at surfaces. <i>Progress in Surface Science</i> , 2007 , 82, 244-292	6.6	58
98	Excited states of Na nanoislands on the Cu(111) surface. <i>Physical Review B</i> , 2007 , 75,	3.3	16
97	Decay and dephasing of image-state electrons induced by Cs adsorbates on Cu(100) at intermediate coverage. <i>Physical Review B</i> , 2007 , 75,	3.3	3
96	Quantum scattering of fast atoms and molecules on surfaces. <i>Physical Review Letters</i> , 2007 , 98, 016104	7.4	128
95	Second harmonic generation from arrays of subwavelength cylinders. <i>Physical Review B</i> , 2007 , 76,	3.3	18
94	Image potential states of supported metallic nanoislands. <i>Physical Review B</i> , 2007 , 76,	3.3	17
93	Time-dependent density-functional calculation of the stopping power for protons and antiprotons in metals. <i>Physical Review A</i> , 2007 , 75,	2.6	54
92	Dynamics of Resonant Electron Transfer in the Interaction Between an Atom and a Metallic Surface. <i>Springer Series in Chemical Physics</i> , 2007 , 87-109	0.3	5
91	Wave packet propagation by the Faber polynomial approximation in electrodynamics of passive media. <i>Journal of Computational Physics</i> , 2006 , 216, 391-402	4.1	17

90	Trapped electromagnetic modes and scaling in the transmittance of perforated metal films. <i>Physical Review Letters</i> , 2006 , 97, 067403	7.4	20
89	Ionization of Rydberg atoms colliding with a metal surface. <i>Physical Review A</i> , 2006 , 73,	2.6	24
88	Lifetimes of the image-state resonances at metal surfaces. <i>Physical Review B</i> , 2006 , 73,	3.3	25
87	Quantum-size effects in the energy loss of charged particles interacting with a confined two-dimensional electron gas. <i>Physical Review A</i> , 2006 , 73,	2.6	8
86	Electronic excitations in metals and at metal surfaces. <i>Chemical Reviews</i> , 2006 , 106, 4160-206	68.1	206
85	Surface projected electronic band structure and adsorbate charge transfer dynamics: Ar adsorbed on Cu(111) and Cu(100). <i>Chemical Physics Letters</i> , 2006 , 427, 91-95	2.5	16
84	Image states on finite size adsorbate islands: Ar on Cu(1 0 0). <i>Surface Science</i> , 2006 , 600, 825-834	1.8	7
83	Scattering of Cu(100) image state electrons from single Cu adatoms and vacancies: A comparative study. <i>Surface Science</i> , 2006 , 600, 2184-2194	1.8	9
82	Role of electromagnetic trapped modes in extraordinary transmission in nanostructured materials. <i>Physical Review B</i> , 2005 , 71,	3.3	38
81	Tunneling mechanism of light transmission through metallic films. <i>Physical Review Letters</i> , 2005 , 95, 067403	4.03	89
80	Lanczos pseudospectral method for initial-value problems in electrodynamics and its applications to ionic crystal gratings. <i>Journal of Computational Physics</i> , 2005 , 209, 643-664	4.1	22
79	Broadening mechanisms for the adsorbate-induced resonance in the Na/Cu(1 1 1) and Cs/Cu(1 1 1) systems. <i>Surface Science</i> , 2005 , 577, 47-58	1.8	10
78	Nonadiabatic effects in atom-surface charge transfer. <i>Physical Review B</i> , 2005 , 71,	3.3	52
77	Excited electron transfer between a core-excited Ar*(2p3 π 4s) atom and the metal substrate in the Ar/Cu(111) system. <i>Physical Review B</i> , 2004 , 69,	3.3	16
76	Localization of the Cu111 surface state by single Cu adatoms. <i>Physical Review Letters</i> , 2004 , 93, 206803	7.4	91
75	Probing adsorbate state lifetime with low energy ions. <i>Physical Review Letters</i> , 2004 , 92, 156101	7.4	28
74	Decay and dephasing of the Cu(100) image states induced by Cu adatoms. <i>Physical Review B</i> , 2004 , 70,	3.3	24
73	Applications of the wave packet method to resonant transmission and reflection gratings. <i>Journal of Computational Physics</i> , 2004 , 199, 742-762	4.1	9

72	Impurity-induced localisation of the 2D surface-state continuum on a metal surface. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 78, 141-147	2.6	22
71	An application of the interpolating scaling functions to wave packet propagation. <i>Computer Physics Communications</i> , 2004 , 160, 1-7	4.2	1
70	Building up the screening below the femtosecond scale. <i>Chemical Physics Letters</i> , 2004 , 387, 95-100	2.5	37
69	Dimensionality effects in time-dependent screening. <i>Chemical Physics Letters</i> , 2004 , 393, 132-137	2.5	12
68	Analysis of the population of continuum states in wave packet propagation calculations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 1593-1603	1.3	18
67	Image and adsorbate state dependence on the adsorbate coverage in the Na/Cu() system. <i>Surface Science</i> , 2003 , 544, 309-319	1.8	8
66	Image states on a free-electron metal surface covered by an atomically thin insulator layer. <i>Surface Science</i> , 2003 , 528, 78-83	1.8	15
65	Dephasing and population decay of the Cu(100) and (111) image potential states induced by scattering on low coverage alkali adsorbates. <i>Surface Science</i> , 2003 , 526, 72-84	1.8	21
64	Effect of various adsorbates in dephasing and population decay of the Cu(100) image potential states. <i>Surface Science</i> , 2003 , 540, 407-419	1.8	20
63	Quantum-well resonances and image states in the Ar/Cu(100) system. <i>Surface Science</i> , 2003 , 540, 457-473	3.8	21
62	Effect of projected band gap on neutralization of Cs ions during grazing scattering from a Cu(111) surface. <i>Physical Review A</i> , 2003 , 68,	2.6	17
61	F ⁻ formation via simultaneous two-electron capture during grazing scattering of F ⁺ ions from a LiF(001) surface. <i>Physical Review B</i> , 2003 , 67,	3.3	9
60	The wave packet propagation using wavelets. <i>Chemical Physics Letters</i> , 2002 , 361, 15-20	2.5	2
59	Effect of an atomically thin dielectric film on the surface electron dynamics: image-potential states in the Ar/Cu(100) system. <i>Physical Review Letters</i> , 2002 , 89, 046802	7.4	63
58	Resonances induced by Cs adsorbates on Cu(100): Localization of image potential states. <i>Physical Review B</i> , 2002 , 65,	3.3	28
57	Evidence for F ⁻ formation by simultaneous double-electron capture during scattering of F ⁺ from a LiF(001) surface. <i>Physical Review Letters</i> , 2002 , 89, 043201	7.4	35
56	Lifetime of excited electronic states at surfaces: Comparison between the alkali/Cu(111) systems. <i>Physical Review B</i> , 2002 , 65,	3.3	79
55	Scattering by alkali adsorbates as a decay mechanism for image potential states on Cu surfaces. <i>Surface Science</i> , 2002 , 505, 260-270	1.8	26

54	Effect of a surface Al adatom on the resonant charge transfer between an H ⁺ ion and an Al(111) surface. <i>Surface Science</i> , 2002 , 506, 145-160	1.8	5
53	Long-lived excited states at surfaces: Cs/Cu(111) and Cs/Cu(100) systems. <i>Physical Review Letters</i> , 2001 , 86, 488-91	7.4	107
52	Negative-ion conversion of fluorine atoms in grazing scattering from a LiF(001) surface: A coupled cluster approach. <i>Physical Review B</i> , 2001 , 63,	3.3	17
51	Femtosecond dynamics of the laser-excited Cs/Cu(111) system: Interplay of the electronic and nuclear evolutions. <i>Physical Review B</i> , 2001 , 64,	3.3	32
50	Electron bihole complex formation in neutralization of Ne ⁺ on LiF(001). <i>Physical Review Letters</i> , 2001 , 86, 5699-702	7.4	21
49	Quantum size effect in the resonant electron transfer between an ion and a thin metal film. <i>Physical Review B</i> , 2001 , 64,	3.3	35
48	Solution of the radial Schrödinger equation in cylindrical and spherical coordinates by mapped Fourier transform algorithms. <i>Journal of Chemical Physics</i> , 2001 , 114, 7770-7777	3.9	28
47	Wave packet propagation study of the charge transfer interaction in the F ⁺ /Cu(1 1 1) and Ag(1 1 1) systems. <i>Surface Science</i> , 2001 , 487, 243-257	1.8	31
46	Lifetime of excited electronic states at surfaces: CO(2 π) resonance on Cu(111) and Cu(100) surfaces. <i>Surface Science</i> , 2001 , 490, 99-115	1.8	26
45	Electron detachment processes in H ⁺ grazing scattering from a LiF(001) surface. <i>Physical Review B</i> , 2000 , 62, 4265-4268	3.3	15
44	Role of the 2D surface state continuum and projected band gap in charge transfer in front of a Cu(111) surface. <i>Physical Review Letters</i> , 2000 , 84, 2517-20	7.4	83
43	Subsurface-channeling-like energy loss structure of the skipping motion on an ionic crystal. <i>Physical Review Letters</i> , 2000 , 85, 3137-40	7.4	19
42	Negative ion formation in the scattering of atoms and ions from dielectric surfaces. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, R177-R206	1.8	45
41	Resonant charge transfer in Li ⁺ collisions on a metal surface: geometrical size of the perturbation introduced by an alkali impurity. <i>Surface Science</i> , 2000 , 445, 430-447	1.8	19
40	Effect of the projected band gap on the formation of negative ions in grazing collisions from Cu surfaces. <i>Faraday Discussions</i> , 2000 , 27-40; discussion 55-64	3.6	20
39	Long-lived adsorbate states on metal surfaces. <i>Faraday Discussions</i> , 2000 , 15-25; discussion 55-64	3.6	30
38	Evidence for the Stopping of Slow Ions by Excitations of Optical Phonons in Insulators. <i>Physical Review Letters</i> , 1999 , 83, 5378-5381	7.4	25
37	Formation of negative halogen ions in grazing scattering from an Al(111) surface: Multielectron effects. <i>Physical Review B</i> , 1999 , 59, 8218-8231	3.3	13

36	Resonant charge transfer in ion-metal surface collisions: Effect of a projected band gap in the H ₂ O(111) system. <i>Physical Review B</i> , 1999 , 59, 10935-10949	3.3	119
35	Formation of negative ions from fluorine projectiles scattered off a MgO(100) surface: Theory. <i>Physical Review A</i> , 1999 , 59, 4446-4455	2.6	43
34	Parallel velocity assisted charge transfer: F ⁻ ion formation at Al(111) and Ag(110) surfaces. <i>Surface Science</i> , 1999 , 429, 46-53	1.8	22
33	Stabilisation of alkali-adsorbate-induced states on Cu(111) surfaces. <i>Surface Science</i> , 1999 , 430, 165-175	1.8	77
32	Li ⁺ neutralisation in back-scattering from alkali/Al(100) surfaces: comparison between the various alkalis. <i>Surface Science</i> , 1998 , 401, 206-219	1.8	26
31	Auger transition rates for the neutralization of He ⁺ ions in front of an aluminium surface. <i>Surface Science</i> , 1998 , 406, L607-L613	1.8	44
30	Formation of negative ions in grazing scattering from insulator surfaces. <i>Physical Review A</i> , 1998 , 57, 351-361	2.6	46
29	O ⁻ formation in grazing scattering from an Al(111) surface. <i>Physical Review B</i> , 1998 , 57, 12579-12587	3.3	20
28	Threshold in the Stopping of Slow Protons Scattered from the Surface of a Wide-Band-Gap Insulator. <i>Physical Review Letters</i> , 1998 , 81, 4831-4834	7.4	69
27	Charge transfer in atom-surface collisions: effect of the presence of adsorbates on the surface. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 6585-6619	1.8	58
26	Finite Time Effect in the Charge Transfer Process during an Ion-Metal Surface Collision. <i>Physical Review Letters</i> , 1998 , 80, 1996-1999	7.4	71
25	Theory of negative-ion conversion of neutral atoms in grazing scattering from alkali halide surfaces. <i>Physical Review B</i> , 1997 , 56, 10628-10643	3.3	58
24	Scattering of alkali atoms and ions from alkali-halide surfaces: No evidence found for electronic surface states within the band gap of the insulator. <i>Physical Review A</i> , 1997 , 55, R846-R848	2.6	13
23	Resonant Coherent Excitation of Fast Hydrogen Atoms in Front of a LiF(001) Surface. <i>Physical Review Letters</i> , 1997 , 79, 4477-4480	7.4	33
22	Effect of metal band characteristics on resonant electron capture: H ⁻ formation in the scattering of hydrogen ions on Mg, Al, and Ag surfaces. <i>Physical Review B</i> , 1997 , 55, 13869-13877	3.3	78
21	Li ⁺ neutralization as a probe of the local electronic potential in Li ⁺ -alkali covered metal surface collisions. <i>Surface Science</i> , 1997 , 375, L367-L374	1.8	19
20	Detailed study on the neutralization of fast Na ⁺ ions in grazing collisions with an Al(111) surface. <i>Europhysics Letters</i> , 1996 , 33, 229-234	1.6	14
19	H ⁻ formation in the scattering of hydrogen ions on an Al surface. <i>Surface Science</i> , 1996 , 364, L568-L574	1.8	45

18	Resonant charge transfer in grazing atom-metal surface collisions: effect of the presence of steps on the surface. <i>Surface Science</i> , 1996 , 366, L769-L774	1.8	7
17	Energy and lifetime of one-electron multicharged-ion states in front of an Al surface. <i>Physical Review A</i> , 1996 , 53, 2457-2465	2.6	38
16	Neutralization of Na ⁺ -ions in grazing scattering from the surface of thin Al-films. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1996 , 37, 263-268		18
15	Resonant charge transfer in grazing scattering of alkali-metal ions from an Al(111) surface. <i>Physical Review B</i> , 1996 , 54, 17166-17174	3.3	87
14	Diabatic Energy Level Confluence: The Mechanism of Negative Ion Conversion of Neutral Atoms in Grazing Scattering from Insulator Surfaces. <i>Physical Review Letters</i> , 1996 , 77, 1893-1896	7.4	76
13	Complete negative-ion conversion of halogen atoms and positive ions in surface scattering from KI(100). <i>Physical Review A</i> , 1996 , 54, 2486-2488	2.6	23
12	High fractions of negative ions in grazing scattering of fast oxygen atoms from a LiF(100) surface. <i>Physical Review Letters</i> , 1995 , 75, 2292-2295	7.4	104
11	Singlet to triplet conversion in low energy metastable helium-metal surface collisions: Auger deexcitation process. <i>Surface Science</i> , 1995 , 325, 323-335	1.8	19
10	Singlet to triplet conversion in low energy He metastable collisions with metal surfaces: conversion via He ⁺ formation. <i>Surface Science</i> , 1995 , 339, 182-188	1.8	18
9	Broadening of atomic levels near metal surfaces: first-order model versus coupled-angular-mode method. <i>Surface Science</i> , 1995 , 338, L875-L881	1.8	11
8	Interaction Between Overlapping Quasi-Stationary States: He (2 1 S and 2 1 P) Levels in Front of an Aluminium Surface. <i>Europhysics Letters</i> , 1994 , 27, 247-252	1.6	37
7	Na*(3p)-Formation under grazing scattering of Na ⁺ -ions at an Al(111) surface. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1994 , 30, 255-260		6
6	Singlet-to-triplet conversion in low energy metastable helium-metal surface collisions. <i>Surface Science</i> , 1993 , 284, 337-348	1.8	43
5	Position and lifetime of atomic states close to a metal: application to resonant charge transfer. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, A269-A272	1.8	
4	Dynamical resonant electron capture in atom surface collisions: H- formation in H-Al(111) collisions. <i>Physical Review Letters</i> , 1992 , 68, 2842-2845	7.4	124
3	H ⁻ Formation by electron capture in hydrogen-Al(111) collisions: perturbative and nonperturbative approaches. <i>Surface Science</i> , 1992 , 278, 99-110	1.8	48
2	The formation of excited secondary Si ions. <i>Vacuum</i> , 1990 , 40, 461-466	3.7	6
1	Ionization probability of atoms sputtered from metal surfaces. <i>Surface Science</i> , 1990 , 227, L112-L114	1.8	4

