

Joachim Burgdrfer

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.

220
papers

7,016
citations

46
h-index

74
g-index

249
ext. papers

7,880
ext. citations

3.6
avg, IF

5.96
L-index

#	Paper	IF	Citations
220	Magnetic-Field Effect in High-Order Above-Threshold Ionization.. <i>Physical Review Letters</i> , 2022 , 128, 023201	7.4	2
219	Towards the complete phase profiling of attosecond wave packets. <i>Physical Review Research</i> , 2021 , 3,	3.9	3
218	Band Nesting in Two-Dimensional Crystals: An Exceptionally Sensitive Probe of Strain. <i>Nano Letters</i> , 2020 , 20, 4242-4248	11.5	14
217	Theory of bound-state coherences generated and probed by optical attosecond pulses. <i>Physical Review A</i> , 2020 , 101,	2.6	6
216	Two-Electron Interference in Strong-Field Ionization of He by a Short Intense Extreme Ultraviolet Laser Pulse. <i>Physical Review Letters</i> , 2020 , 124, 043203	7.4	10
215	Attosecond optoelectronic field measurement in solids. <i>Nature Communications</i> , 2020 , 11, 430	17.4	38
214	Time delays from one-photon transitions in the continuum. <i>Optica</i> , 2020 , 7, 154	8.6	16
213	60 years of attosecond physics at ICPEAC: from collisions to ultrashort pulses. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 022001	0.3	1
212	Theory of Subcycle Linear Momentum Transfer in Strong-Field Tunneling Ionization. <i>Physical Review Letters</i> , 2020 , 125, 073202	7.4	11
211	Two-color phase-controlled photoemission from a zero-dimensional nanostructure. <i>EPJ Web of Conferences</i> , 2019 , 205, 05004	0.3	
210	Polarization tagging of two-photon double ionization by elliptically polarized XUV pulses. <i>Physical Review A</i> , 2019 , 99,	2.6	6
209	Incorporating decoherence into solid-state time-dependent density functional theory. <i>Physical Review B</i> , 2019 , 99,	3.3	11
208	Roadmap on photonic, electronic and atomic collision physics: I. Lightmatter interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 171001	1.3	28
207	Localized Intervalley Defect Excitons as Single-Photon Emitters in WSe ₂ . <i>Physical Review Letters</i> , 2019 , 123, 146401	7.4	44
206	Ab initio multiscale simulation of high-order harmonic generation in solids. <i>Physical Review A</i> , 2018 , 97,	2.6	80
205	Accurate modeling of defects in graphene transport calculations. <i>Physical Review B</i> , 2018 , 97,	3.3	9
204	Large tunable valley splitting in edge-free graphene quantum dots on boron nitride. <i>Nature Nanotechnology</i> , 2018 , 13, 392-397	28.7	40

203	Topologically Nontrivial Valley States in Bilayer Graphene Quantum Point Contacts. <i>Physical Review Letters</i> , 2018 , 121, 257702	7.4	23
202	Dynamic interference as signature of atomic stabilization. <i>Optics Express</i> , 2018 , 26, 19921-19931	3.3	18
201	Attosecond physics phenomena at nanometric tips. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 172001	1.3	57
200	High visibility in two-color above-threshold photoemission from tungsten nanotips in a coherent control scheme. <i>Journal of Modern Optics</i> , 2017 , 64, 1054-1060	1.1	17
199	High-harmonic generation in graphene: Interband response and the harmonic cutoff. <i>Physical Review B</i> , 2017 , 95,	3.3	42
198	High-harmonic spectra from time-dependent two-particle reduced-density-matrix theory. <i>Physical Review A</i> , 2017 , 95,	2.6	23
197	Long-time expansion of a Bose-Einstein condensate: Observability of Anderson localization. <i>Physical Review A</i> , 2017 , 96,	2.6	7
196	Localizing High-Lying Rydberg Wave Packets with Orthogonally-Polarized Two-Color Laser Fields. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 022016	0.3	
195	Time-Dependent Two-Particle Reduced Density Matrix Theory: Application to High-Harmonic Generation. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 012011	0.3	
194	Localizing high-lying Rydberg wave packets with two-color laser fields. <i>Physical Review A</i> , 2017 , 96,	2.6	21
193	Watching the emergence of a Fano resonance in doubly excited helium. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 012010	0.3	1
192	Observing electron-correlation features in two-photon double ionization of helium. <i>Physical Review A</i> , 2017 , 96,	2.6	2
191	Time-Dependent Two-Particle Reduced Density Matrix Theory: Application to High-Harmonic Generation. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 022032	0.3	
190	Coincidence spectroscopy of high-lying Rydberg states produced in strong laser fields. <i>Physical Review A</i> , 2016 , 94,	2.6	25
189	Two-Color Coherent Control of Femtosecond Above-Threshold Photoemission from a Tungsten Nanotip. <i>Physical Review Letters</i> , 2016 , 117, 217601	7.4	45
188	Transport through graphene nanoribbons: Suppression of transverse quantization by symmetry breaking. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2366-2372	1.3	2
187	Time-dependent complete-active-space self-consistent-field method for atoms: Application to high-order harmonic generation. <i>Physical Review A</i> , 2016 , 94,	2.6	55
186	Nonlinear response of graphene to a few-cycle terahertz laser pulse: Role of doping and disorder. <i>Physical Review B</i> , 2016 , 94,	3.3	24

185	Electrostatically Confined Monolayer Graphene Quantum Dots with Orbital and Valley Splittings. <i>Nano Letters</i> , 2016 , 16, 5798-805	11.5	72
184	Propagating two-particle reduced density matrices without wave functions. <i>Physical Review A</i> , 2015 , 91,	2.6	35
183	Probing time-ordering in two-photon double ionization of helium on the attosecond time scale. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 061002	1.3	10
182	Large optical field enhancement for nanotips with large opening angles. <i>New Journal of Physics</i> , 2015 , 17, 063010	2.9	52
181	Application of norm-conserving pseudopotentials to intense laser-matter interactions. <i>Physical Review A</i> , 2015 , 92,	2.6	12
180	Protocol for observing molecular dipole excitations by attosecond self-streaking. <i>Physical Review A</i> , 2015 , 92,	2.6	4
179	Ab initio perspective on the Mollwo-Ivey relation for F centers in alkali halides. <i>Physical Review B</i> , 2015 , 92,	3.3	13
178	Anomalous Fano Profiles in External Fields. <i>Physical Review Letters</i> , 2015 , 115, 243001	7.4	12
177	Attosecond chronoscopy of photoemission. <i>Reviews of Modern Physics</i> , 2015 , 87, 765-802	40.5	234
176	Signatures of tunneling and multiphoton ionization by short-laser pulses: The partial-wave distribution. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 012003	0.3	1
175	High-Lying Rydberg States from Strong Field Interaction. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 092084	0.3	
174	Controlling ultrafast currents by the nonlinear photogalvanic effect. <i>New Journal of Physics</i> , 2015 , 17, 123026	2.9	16
173	The time-dependent two-particle reduced density matrix method: LiH in strong laser fields. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 112084	0.3	1
172	Ab initio simulation of electrical currents induced by ultrafast laser excitation of dielectric materials. <i>Physical Review Letters</i> , 2014 , 113, 087401	7.4	77
171	Attosecond streaking of Cohen-Fano interferences in the photoionization of H ₂ ⁺ . <i>Physical Review A</i> , 2014 , 90,	2.6	21
170	Photovoltaic effect in an electrically tunable van der Waals heterojunction. <i>Nano Letters</i> , 2014 , 14, 4785-4815	11.5	759
169	A comparison of singlet and triplet states for one- and two-dimensional graphene nanoribbons using multireference theory. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	51
168	Interference of electron wave packets in atomic ionization by subcycle sculpted laser pulses. <i>Physical Review A</i> , 2014 , 89,	2.6	34

167	F center in lithium fluoride revisited: Comparison of solid-state physics and quantum-chemistry approaches. <i>Physical Review B</i> , 2014 , 89,	3.3	36
166	Elastic scattering of a Bose-Einstein condensate at a potential landscape. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 012032	0.3	11
165	Formation of very-low-energy states crossing the ionization threshold of argon atoms in strong mid-infrared fields. <i>Physical Review A</i> , 2014 , 90,	2.6	55
164	Time delays for attosecond streaking in photoionization of neon. <i>Physical Review A</i> , 2014 , 89,	2.6	57
163	Interaction of charged particles with insulating capillary targets □The guiding effect. <i>Progress in Surface Science</i> , 2013 , 88, 237-278	6.6	57
162	Time-resolved photoemission on the attosecond scale: opportunities and challenges. <i>Faraday Discussions</i> , 2013 , 163, 353-76; discussion 393-432	3.6	72
161	The multiradical character of one- and two-dimensional graphene nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2581-4	16.4	168
160	Semiclassical wave functions for open quantum billiards. <i>Physical Review E</i> , 2013 , 88, 022916	2.4	10
159	Classical-quantum correspondence in atomic ionization by midinfrared pulses: Multiple peak and interference structures. <i>Physical Review A</i> , 2013 , 87,	2.6	33
158	Attosecond physics at a nanoscale metal tip. <i>EPJ Web of Conferences</i> , 2013 , 41, 01005	0.3	
157	Photoionization of helium by attosecond pulses: Extraction of spectra from correlated wave functions. <i>Physical Review A</i> , 2013 , 87,	2.6	50
156	Probing the influence of the Coulomb field on atomic ionization by sculpted two-color laser fields. <i>New Journal of Physics</i> , 2013 , 15, 043050	2.9	21
155	Doubly differential diffraction at a time grating in above-threshold ionization: Intracycle and intercycle interferences. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 279, 24-30	1.2	30
154	Wave chaos as signature for depletion of a Bose-Einstein condensate. <i>Physical Review A</i> , 2012 , 86,	2.6	41
153	Electron emission in laser-nanotip interaction. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 132018	0.3	
152	Electron rescattering at metal nanotips induced by ultrashort laser pulses. <i>Physical Review B</i> , 2012 , 86,	3.3	60
151	Attosecond probe of valence-electron wave packets by subcycle sculpted laser fields. <i>Physical Review Letters</i> , 2012 , 108, 193004	7.4	102
150	Quantum phase-space analysis of electronic rescattering dynamics in intense few-cycle laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 055002	1.3	18

149	Interaction of ultrashort laser pulses with metal nanotips: a model system for strong-field phenomena. <i>New Journal of Physics</i> , 2012 , 14, 085019	2.9	52
148	Attosecond streaking of correlated two-electron transitions in helium. <i>Physical Review Letters</i> , 2012 , 108, 163001	7.4	84
147	Low-energy peak structure in strong-field ionization by midinfrared laser pulses: Two-dimensional focusing by the atomic potential. <i>Physical Review A</i> , 2012 , 85,	2.6	56
146	Doubly-differential intracycle interference in above threshold photoionization. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 032024	0.3	
145	Nanomelting and track formation in insulators by swift heavy ions. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 132012	0.3	
144	Quantum Control of Electron Wavepacket Dynamics in Molecules by Trains of Half-Cycle Pulses. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 012033	0.3	
143	Attosecond Pump-Probe of Doubly Excited States of Helium through Two-Photon Interferometry. <i>Springer Proceedings in Physics</i> , 2012 , 187-191	0.2	
142	Quantum control of electron wave packets in bound molecules by trains of half-cycle pulses. <i>Physical Review A</i> , 2011 , 84,	2.6	10
141	Recent Advances in Computational Methods for the Solution of the Time-Dependent Schrödinger Equation for the Interaction of Short, Intense Radiation with One and Two Electron Systems 2011 , 149-208		6
140	Wave chaos in the nonequilibrium dynamics of the Gross-Pitaevskii equation. <i>Physical Review A</i> , 2011 , 83,	2.6	27
139	Transport through open quantum dots: Making semiclassics quantitative. <i>Physical Review B</i> , 2010 , 81,	3.3	11
138	Diffraction at a time grating in above-threshold ionization: The influence of the Coulomb potential. <i>Physical Review A</i> , 2010 , 82,	2.6	54
137	Intracycle and intercycle interferences in above-threshold ionization: The time grating. <i>Physical Review A</i> , 2010 , 81,	2.6	120
136	Probing decoherence through Fano resonances. <i>Physical Review Letters</i> , 2010 , 105, 056801	7.4	51
135	Vanishing gap in LiF for electronic excitations by slow antiprotons. <i>Physical Review B</i> , 2009 , 79,	3.3	9
134	Quantum control of electron localization in molecules driven by trains of half-cycle pulses. <i>New Journal of Physics</i> , 2009 , 11, 105035	2.9	20
133	Graphene quantum dots: Beyond a Dirac billiard. <i>Physical Review B</i> , 2009 , 79,	3.3	133
132	Wavelength dependent channel-closing enhancements in multi-photon ionization. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 022037	0.3	

131	Coulomb-Volkov approximation for near-threshold ionization by short laser pulses. <i>Physical Review A</i> , 2008 , 77,	2.6	89
130	Excitation energy and pair correlation function of trions near an LiF surface. <i>Physical Review B</i> , 2008 , 78,	3.3	3
129	Effect of pulse duration on the x-ray emission from Ar clusters in intense laser fields. <i>Physical Review A</i> , 2008 , 78,	2.6	26
128	Diffractive paths for weak localization in quantum billiards. <i>Physical Review B</i> , 2008 , 77,	3.3	11
127	Sub-Poissonian angular momentum distribution near threshold in atomic ionization by short laser pulses. <i>Physical Review A</i> , 2008 , 78,	2.6	52
126	Occupation of fine-structure states in electron capture and transport. <i>Physical Review A</i> , 2008 , 77,	2.6	2
125	Electron Emission from Insulators Irradiated by Slow Highly Charged Ions. <i>E-Journal of Surface Science and Nanotechnology</i> , 2008 , 6, 54-59	0.7	20
124	Total and angular differential cross sections of electrons emitted in collision between antiprotons and helium atoms. <i>Radiation Physics and Chemistry</i> , 2007 , 76, 495-498	2.5	7
123	Shot noise in transport through quantum dots: Clean versus disordered samples. <i>Journal of Computational Electronics</i> , 2007 , 6, 109-111	1.8	
122	Determination of Compton profiles at solid surfaces from first-principles calculations. <i>Physical Review B</i> , 2007 , 75,	3.3	6
121	Electron capture and electron transport by fast ions penetrating solids: An open quantum system approach with sources and sinks. <i>Physical Review A</i> , 2007 , 75,	2.6	15
120	Statistics of transmission eigenvalues in two-dimensional quantum cavities: Ballistic versus stochastic scattering. <i>Physical Review B</i> , 2007 , 75,	3.3	10
119	Theoretical Concepts and Methods for Electron Emission from Solid Surfaces 2007 , 1-38		3
118	Interaction of ultra-short laser pulses with clusters: short-time dynamics of a nano-plasma. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
117	Non-retracing orbits in Andreev billiards. <i>Physical Review B</i> , 2006 , 73,	3.3	4
116	Comment on Dynamic range of nanotube- and nanowire-based electromechanical systems[Appl. Phys. Lett. 86, 223105 (2005)]. <i>Applied Physics Letters</i> , 2006 , 88, 036101	3.4	4
115	Laser-cluster interaction: x-ray production by short laser pulses. <i>Physical Review Letters</i> , 2006 , 96, 013203.	3.4	49
114	Time double-slit interferences in strong-field tunneling ionization. <i>Physical Review A</i> , 2006 , 74,	2.6	73

113	Classical dynamics of enhanced low-energy electron-ion recombination in storage rings. <i>Physical Review A</i> , 2006 , 74,	2.6	11
112	Angular distribution in two-photon double ionization of helium by intense attosecond soft-x-ray pulses. <i>Physical Review A</i> , 2006 , 73,	2.6	36
111	Calculating state-to-state transition probabilities within time-dependent density-functional theory. <i>Physical Review A</i> , 2006 , 74,	2.6	23
110	Fano resonances and decoherence in transport through quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 29, 325-333	3	12
109	Non-unitary master equation for the internal state of ions traversing solids. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 230, 7-11	1.2	1
108	Cluster-laser interaction: Fast production of hot electrons by short laser pulses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 235, 210-215	1.2	1
107	Enhancement of low energy electron-ion recombination in a magnetic field: Influence of transient field effects. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 235, 290-295	1.2	2
106	Single and double ionization of helium in heavy-ion impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 1001-1013	1.3	10
105	Simulation of electron transport through a quantum dot with soft walls. <i>Physical Review B</i> , 2005 , 72,	3.3	26
104	Time resolved Fano resonances. <i>Physical Review Letters</i> , 2005 , 94, 023002	7.4	122
103	Shot noise in the chaotic-to-regular crossover regime. <i>Physical Review Letters</i> , 2005 , 94, 216801	7.4	29
102	Pseudopath semiclassical approximation to transport through open quantum billiards: Dyson equation for diffractive scattering. <i>Physical Review E</i> , 2005 , 72, 036223	2.4	13
101	Nonunitary quantum trajectory Monte Carlo method for open quantum systems. <i>Physical Review A</i> , 2005 , 71,	2.6	8
100	Enhancement of low energy electron-ion recombination in a magnetic field: influence of transient field effects. <i>Physical Review Letters</i> , 2005 , 95, 243201	7.4	18
99	Ab-initio Calculations of Charge Exchange in Ion-Surface Collisions: An Embedded-Cluster Approach 2004 , 130-143		1
98	Multi-electron dynamics for neutralization of highly charged ions near surfaces. <i>Vacuum</i> , 2004 , 73, 3-7	3.7	4
97	Enhancement of Low-Energy Electron Ion Recombination in a Magnetic Field. <i>Hyperfine Interactions</i> , 2003 , 146/147, 13-17	0.8	7
96	Quantum-trajectory Monte Carlo method for internal-state evolution of fast ions traversing amorphous solids. <i>Physical Review A</i> , 2003 , 67,	2.6	22

95	Interaction of highly charged ions with insulator surfaces at low velocities: Estimates for Auger rates. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 205, 690-699	1.2	6
94	Quantum trajectory Monte Carlo method describing the coherent dynamics of highly charged ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 205, 818-825	1.2	
93	Quantum localization in the three-dimensional kicked Rydberg atom. <i>Physical Review A</i> , 2003 , 68,	2.6	17
92	Liouville master equation for multielectron dynamics: Neutralization of highly charged ions near a LiF surface. <i>Physical Review A</i> , 2003 , 67,	2.6	28
91	Potential-energy surfaces for charge exchange between singly charged ions and a LiF surface. <i>Physical Review A</i> , 2003 , 68,	2.6	8
90	Semiclassical theory for transmission through open billiards: convergence towards quantum transport. <i>Physical Review E</i> , 2003 , 67, 016206	2.4	19
89	Evidence of collisional coherences in the transport of hydrogenic krypton through amorphous carbon foils. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 193, 79-84	1.2	1
88	Quantum transport of the internal state of Kr ³⁵⁺ ions through amorphous carbon foils. <i>Physical Review A</i> , 2002 , 65,	2.6	11
87	Quantum localization in the high-frequency limit. <i>Physical Review A</i> , 2002 , 66,	2.6	7
86	Atomic Scattering at Surfaces 2002 , 1081-1098		
85	Vertical incidence of slow Ne ¹⁰⁺ ions on an LiF surface: Suppression of the trampoline effect. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 182, 36-40	1.2	6
84	Siegert-pseudostate representation of quantal time evolution: A harmonic oscillator kicked by periodic pulses. <i>Physical Review A</i> , 2001 , 63,	2.6	19
83	Half-collision model for triple photoionization of lithium. <i>Physical Review A</i> , 2001 , 63,	2.6	31
82	Half-collision model for multiple ionization by photon impact. <i>Physical Review A</i> , 2001 , 64,	2.6	36
81	Modular recursive Green's function method for ballistic quantum transport. <i>Physical Review B</i> , 2000 , 62, 1950-1960	3.3	85
80	Group-theoretical approach to final-state angular correlations in double photoionization of helium. <i>Physical Review A</i> , 1999 , 59, 2738-2743	2.6	6
79	Gauge-invariant theory for semiclassical magnetotransport through ballistic microstructures. <i>Physical Review B</i> , 1999 , 59, 2956-2967	3.3	18
78	Double photoionization of helium from threshold to high energies. <i>Physical Review A</i> , 1998 , 57, R1489-R1492	1.2	41

77	Oscillations in the magnetoconductance autocorrelation function for ballistic microstructures. <i>Physical Review B</i> , 1998 , 57, 9875-9878	3.3	4
76	Excitation - ionization by photoabsorption at low and intermediate energies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997 , 30, L523-L529	1.3	13
75	One- and two-electron emission from by high-energy photons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997 , 30, L689-L695	1.3	8
74	Geometry-dependent scattering through Ballistic microstructures: Semiclassical theory beyond the stationary-phase approximation. <i>Physical Review B</i> , 1997 , 56, 7589-7597	3.3	46
73	Above-surface neutralization of slow highly charged ions in front of ionic crystals. <i>Physical Review A</i> , 1997 , 55, 2097-2108	2.6	71
72	Atomic resonances of hydrogen near aluminum surfaces:mAdiabatic evolution of the ground state. <i>Physical Review A</i> , 1997 , 55, 466-478	2.6	57
71	Periodic orbit spectra of simple atoms 1997 , 304-338		0
70	Theoretical description of fast kinetic electron emission in ion-surface collisions. <i>Physical Review A</i> , 1997 , 55, 450-465	2.6	37
69	On the utility of atomic collision physics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 124, 151-159	1.2	1
68	Solid-state effects in electron emission from atomic collisions near surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 124, 320-326	1.2	
67	Energy gain of highly charged ions in front of LiF. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 125, 133-137	1.2	7
66	Adiabatic evolution of the H(1s) resonance near an aluminium surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 115, 152-156	1.2	8
65	Transport of fast electrons near surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 115, 233-236	1.2	1
64	Periodic-orbit spectra of hydrogen and helium. <i>Physical Review A</i> , 1996 , 54, 1922-1935	2.6	7
63	Above-surface potential sputtering of protons by highly charged ions. <i>Physical Review A</i> , 1996 , 54, 4140-4144	2.6	37
62	Simulation of excited-state formation of hydrogen in transmission of relativistic H ⁻ ions through thin foils. <i>Physical Review A</i> , 1996 , 53, 3189-3200	2.6	22
61	Interaction of Highly Charged Ions with Surfaces. <i>Australian Journal of Physics</i> , 1996 , 49, 527		16
60	Ionization of Rydberg atoms by half-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 377-377	1.3	8

59	Parametric variation of resonances for regular and chaotic scattering. <i>Chaos, Solitons and Fractals</i> , 1995 , 5, 1235-1273	9.3	16
58	Fast neutralization of highly charged ions in grazing incidence collisions with surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 98, 415-419	1.2	49
57	Convoy electron emission from surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 99, 50-53	1.2	
56	Simulation of fast electron emission from surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 100, 378-382	1.2	
55	Accurate calculation of atomic resonances near surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 100, 336-341	1.2	30
54	Semiclassical theory of elastic electron-atom scattering. <i>Physical Review A</i> , 1995 , 51, 1248-1252	2.6	18
53	Statistics of magnetoconductance in ballistic cavities. <i>Physical Review B</i> , 1995 , 52, 8219-8225	3.3	19
52	Quantum conductance fluctuations and classical short-path dynamics. <i>Physical Review B</i> , 1995 , 51, 2013-2016	3.9	35
51	Interference oscillations in ionization of extreme Stark states by half-cycle pulses. <i>Physical Review A</i> , 1995 , 51, R3410-R3413	2.6	17
50	Novel adiabatic invariant for the three-body Coulomb problem. <i>Journal of Chemical Physics</i> , 1995 , 103, 4985-4989	3.9	14
49	Rainbow scattering of convoy electrons near surfaces. <i>Physical Review Letters</i> , 1994 , 73, 2508-2511	7.4	32
48	Calculation of resonances in doubly excited helium using the stabilization method. <i>Physical Review A</i> , 1994 , 49, 2470-2475	2.6	59
47	Excitation-ionization and double ionization of helium by Compton scattering. <i>Physical Review A</i> , 1994 , 50, R2810-R2813	2.6	55
46	Above-surface neutralization of highly charged ions: The formation of hollow atoms. <i>Physica Scripta</i> , 1993 , T46, 225-230	2.6	4
45	Image acceleration of multiply charged ions by metallic surfaces. <i>Physical Review A</i> , 1993 , 47, R20-R22	2.6	86
44	Ellipsoidal angular distribution of electrons emitted from Rydberg atoms. <i>Physical Review A</i> , 1993 , 48, R3414-R3417	2.6	7
43	Calculation of Langmuir states in doubly excited helium. <i>Physical Review Letters</i> , 1993 , 70, 2375-2378	7.4	26
42	Excitation ionization and double ionization of helium by high-energy photon impact. <i>Physical Review Letters</i> , 1993 , 71, 50-53	7.4	101

41	Statistics of avoided crossings for generic quantum systems. <i>Physical Review A</i> , 1993 , 48, 83-87	2.6	8
40	Classical and quantum dynamics of the impulsively driven hydrogen atom. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 79, 109-113	1.2	20
39	ATOMIC COLLISIONS WITH SURFACES 1993 , 517-614		17
38	Parametric correlations and diffusion in quantum spectra. <i>Physical Review A</i> , 1992 , 46, 2295-2303	2.6	17
37	Torus quantization of symmetrically excited helium. <i>Physical Review A</i> , 1992 , 45, 1471-1478	2.6	50
36	Electron-electron interaction and two-center effects in projectile ionization at backward emission angles. <i>Physical Review A</i> , 1992 , 45, 4507-4518	2.6	20
35	Simulation of convoy-electron emission. <i>Physical Review A</i> , 1992 , 45, R2655-R2658	2.6	25
34	Dynamic screening and wake effects on electronic excitation in ion-solid and ion-surface collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 67, 1-10	1.2	32
33	High l-state population in O ⁷⁺ produced in ion-solid collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 67, 168-171	1.2	2
32	Semiclassical and quantal eigenenergies in the wake potential. <i>Chemical Physics Letters</i> , 1991 , 178, 60-64.5		3
31	Theory of the l-state population of Rydberg states formed in ion-solid collisions. <i>Physical Review A</i> , 1991 , 44, 2993-3000	2.6	42
30	Molecular-dynamics approach to the statistical properties of energy levels. <i>Physical Review Letters</i> , 1991 , 66, 982-985	7.4	12
29	Electron loss at backward observation angles. <i>Physical Review A</i> , 1991 , 44, 7243-7251	2.6	31
28	Ionization spectrum for ion-atom collisions with zero-ranged potentials in one and three dimensions. <i>Physical Review A</i> , 1991 , 43, 4036-4039	2.6	19
27	Above-surface neutralization of highly charged ions: The classical over-the-barrier model. <i>Physical Review A</i> , 1991 , 44, 5674-5685	2.6	445
26	Dynamical thresholds for the existence of excited electronic states of fast ions in solids. <i>Physical Review A</i> , 1991 , 43, 6027-6031	2.6	21
25	Electronic excitations in fast ion-solid collisions 1991 , 197-220		
24	Shakeoff induced by fast charged projectiles. <i>Physical Review A</i> , 1990 , 42, 655-658	2.6	12

23	Electron transport in the presence of a Coulomb field. <i>Physical Review A</i> , 1990 , 42, 1206-1221	2.6	64
22	Regular and chaotic motion of classical electrons in the wake potential of fast ions in solids. <i>Physical Review A</i> , 1990 , 41, 4903-4912	2.6	9
21	Forward electron production in antimatter-solid collisions. <i>Physical Review Letters</i> , 1989 , 62, 1599-1602	7.4	23
20	The kicked rydberg atom: Regular and stochastic motion. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989 , 42, 500-507	1.2	20
19	Mechanisms for $\nu/2$ electron emission in ion-atom collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989 , 40-41, 65-69	1.2	1
18	$\nu/2$ electron emission in ion-atom collisions with short-range potentials. <i>Physical Review A</i> , 1988 , 38, 4919-4922	7.4	17
17	Measurements of the hydrogen 2s-2p coherence using the quantum-beat technique. <i>Physical Review A</i> , 1988 , 37, 4111-4117	2.6	22
16	Production of high-angular-momentum Rydberg states by stochastic collisions. <i>Physical Review Letters</i> , 1988 , 61, 2917-2920	7.4	53
15	Coherence and correlation in doubly excited heliumlike atoms. <i>Physical Review A</i> , 1988 , 38, 5520-5538	2.6	7
14	Coherence and Correlations in Fast Ion-Atom Collisions. <i>NATO ASI Series Series B: Physics</i> , 1988 , 159-176		
13	Transport theory for convoy electrons and Rydberg electrons in solids 1988 , 344-361		7
12	Theory of resonant charge transfer in ion-surface collisions at grazing incidence at intermediate velocities. <i>Physical Review A</i> , 1987 , 35, 4963-4976	2.6	68
11	Dynamical image charge effects on convoy electron emission from solid surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 24-25, 139-142	1.2	34
10	Distorted-wave methods for electron capture in ion-atom collisions. <i>Physical Review A</i> , 1986 , 33, 2959-2969	2.6	27
9	Distance of excited-state formation in ion-surface collisions. <i>Physical Review Letters</i> , 1986 , 57, 2649-2657	7.4	26
8	Statistical multipoles for cusp electrons and Rydberg electrons. <i>Physical Review A</i> , 1986 , 33, 1578-1589	2.6	48
7	Final-state angular momentum distributions in charge transfer collisions at high energies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1985 , 240, 519-526	1.2	2
6	Coherence, alignment and orientation in ion-atom collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1985 , 10-11, 198-203	1.2	15

5	Electron capture into Rydberg states in collisions between multiply charged ions and hydrogen. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1985 , 9, 392-396	1.2	2
4	Multiple-Scattering Approach to Coherent Excitation in Electron-Capture Collisions. <i>Physical Review Letters</i> , 1984 , 52, 2225-2228	7.4	45
3	Density matrix description of collisional electron transfer into the continuum of ionic projectiles. <i>Lecture Notes in Physics</i> , 1984 , 32-51	0.8	3
2	Inverted Cusps in Electron Spectra near Zero Velocity in an Attractive Coulomb Field. <i>Physical Review Letters</i> , 1983 , 51, 374-377	7.4	20
1	Influence of the linear Stark effect on electron capture into fully stripped ions. <i>Physical Review A</i> , 1981 , 24, 1756-1767	2.6	48