## **Carlos Reinhold**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Classical ionization and charge-transfer cross sections forH++ He andH++Li+collisions with consideration of model interactions. Physical Review A, 1986, 33, 3859-3866.	2.5	172
2	The classical limit of ionization in fast ion-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 3101-3122.	1.5	92
3	Classical two-center effects in ejected-electron spectra fromp+,pâ^', andHe2++He collisions at intermediate energies. Physical Review A, 1989, 39, 3861-3870.	2.5	85
4	Ionization of Hydrogen and Hydrogenic Ions by Antiprotons. Physical Review Letters, 1996, 76, 2882-2885.	7.8	85
5	Ionization of Rydberg atoms by half-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, L659-L664.	1.5	80
6	Above-surface neutralization of slow highly charged ions in front of ionic crystals. Physical Review A, 1997, 55, 2097-2108.	2.5	74
7	State-selective capture in collisions between ions and ground- and excited-state alkali-metal atoms. Physical Review A, 1990, 42, 5305-5314.	2.5	71
8	Electron removal from molecular hydrogen by fully stripped ions at intermediate energies. Physical Review A, 1989, 40, 3637-3645.	2.5	66
9	Realization of the kicked atom. Physical Review A, 1999, 59, 1434-1443.	2.5	63
10	Energy and angular distributions of electrons from ion impact on atomic and molecular hydrogen. II. 20–114-keVH++H. Physical Review A, 1995, 51, 2256-2264.	2.5	61
11	Dynamics of Rydberg wave packets generated by half-cycle pulses. Physical Review A, 1996, 54, R33-R36.	2.5	61
12	Recent advances in the comparison of matter- and antimatter-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 521-558.	1.5	60
13	Quantum interference in clothed-ion-atom binary peak structures. Physical Review Letters, 1991, 66, 1842-1845.	7.8	59
14	Subshell electron capture in collisions of fully stripped ions with He andH2at intermediate energies. Physical Review A, 1990, 42, 5286-5291.	2.5	53
15	Fast neutralization of highly charged ions in grazing incidence collisions with surfaces. Nuclear Instruments & Methods in Physics Research B, 1995, 98, 415-419.	1.4	53
16	Theoretical description of the binary peak in clothed ion-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, L591-L596.	1.5	49
17	Threshold for Potential Sputtering of LiF. Physical Review Letters, 1999, 83, 3948-3951.	7.8	49
18	Excitation of atomic hydrogen by fully stripped ions. Physical Review A, 1990, 41, 4837-4842.	2.5	46

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19	Dynamical Stabilization of the Periodically Kicked Rydberg Atom. Physical Review Letters, 1997, 79, 5226-5229.	7.8	46
20	Chemical sputtering from amorphous carbon under bombardment by deuterium atoms and molecules. New Journal of Physics, 2007, 9, 209-209.	2.9	46
21	Theory of thel-state population of Rydberg states formed in ion-solid collisions. Physical Review A, 1991, 44, 2993-3000.	2.5	44
22	lonization of very-high-nRydberg atoms by half-cycle pulses in the short-pulse regime. Physical Review A, 1996, 53, R2929-R2932.	2.5	42
23	Analysis of Unexplained Oscillations in Intermediate-Energy Ion-Atom Collisions. Physical Review Letters, 1997, 78, 2720-2723.	7.8	40
24	Theoretical description of fast kinetic electron emission in ion-surface collisions. Physical Review A, 1997, 55, 450-465.	2.5	38
25	Realization of Localized Bohr-Like Wave Packets. Physical Review Letters, 2008, 100, 243004.	7.8	37
26	Non-q2scaling of the ionization cross section near the binary peak. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, L455-L459.	1.5	36
27	Electron loss at backward observation angles. Physical Review A, 1991, 44, 7243-7251.	2.5	34
28	Experimental and theoretical study of the electron spectra in 66.7–350-keV/uC++He collisions. Physical Review A, 1990, 42, 5338-5347.	2.5	33
29	Rainbow Scattering of Convoy Electrons near Surfaces. Physical Review Letters, 1994, 73, 2508-2511.	7.8	33
30	Reflection-free propagation of wave packets. Physical Review A, 1999, 60, 1113-1123.	2.5	33
31	Coincident charge state production in F6++Ne collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 3839-3847.	1.5	31
32	Interference oscillations in the excitation cross section for slow ion - hydrogen collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, L155-L163.	1.5	30
33	Quantum Localization of the Kicked Rydberg Atom. Physical Review Letters, 2000, 84, 2602-2605.	7.8	29
34	Large-angle scattering in positron-helium and positron-krypton collisions. Physical Review A, 1989, 40, 4947-4958.	2.5	28
35	Ionization of Rydberg atoms by short electromagnetic pulses. Physical Review Letters, 1993, 70, 4026-4026.	7.8	28
36	Scaled-time dynamics of ionization of Rydberg Stark states by half-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, L457-L464.	1.5	26

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37	Simulation of convoy-electron emission. Physical Review A, 1992, 45, R2655-R2658.	2.5	25
38	Chemical sputtering by impact of excited molecules. Europhysics Letters, 2007, 77, 33002.	2.0	25
39	Evolution of Rydberg angular momentum wavepackets in half-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L469-L475.	1.5	23
40	Simulation of excited-state formation of hydrogen in transmission of relativisticHâ^'ions through thin foils. Physical Review A, 1996, 53, 3189-3200.	2.5	23
41	Lattice Schrödinger-equation approach for excitation and ionization ofHe+by antiproton impact. Physical Review A, 1997, 56, 3710-3713.	2.5	23
42	Accurate ionization thresholds of atoms subject to half-cycle pulses. Physical Review A, 1998, 58, 2229-2241.	2.5	23
43	On the quantum foundations of some classical approximations for ion-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 1829-1843.	1.5	21
44	Transporting Rydberg Electron Wave Packets with Chirped Trains of Pulses. Physical Review Letters, 2007, 99, 183003.	7.8	21
45	Electron-electron interaction and two-center effects in projectile ionization at backward emission angles. Physical Review A, 1992, 45, 4507-4518.	2.5	20
46	Semiclassical theory of elastic electron-atom scattering. Physical Review A, 1995, 51, 1248-1252.	2.5	20
47	Very-high-n Stark wave packets generated by an electric-field step. Physical Review A, 1997, 55, R865-R868.	2.5	19
48	Siegert-pseudostate representation of quantal time evolution: A harmonic oscillator kicked by periodic pulses. Physical Review A, 2001, 63, .	2.5	19
49	Electron emission from both target and projectile in C++ He collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, L297-L302.	1.5	18
50	Ejected-electron spectra in proton-atomic hydrogen collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, L599-L604.	1.5	17
51	Interference oscillations in ionization of extreme Stark states by half-cycle pulses. Physical Review A, 1995, 51, R3410-R3413.	2.5	17
52	Charge-state dependence of energy loss in random solids. Physical Review A, 1998, 57, 2737-2741.	2.5	17
53	Floquet analysis of the dynamical stabilization of the kicked hydrogen atom. Physical Review A, 1999, 59, R4121-R4124.	2.5	17
54	Designing Rydberg wavepackets using trains of half-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, L551-L558.	1.5	17

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#	Article	IF	CITATIONS
55	Steering Rydberg wave packets using a chirped train of half-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S209-S217.	1.5	17
56	Interaction of Highly Charged Ions with Surfaces. Australian Journal of Physics, 1996, 49, 527.	0.6	17
57	Ternary ridge of ejected electrons from fast ion-atom collisions. Physical Review A, 1998, 58, 2611-2614.	2.5	16
58	Enhanced population of high-lstates due to the interplay between multiple scattering and dynamical screening in ion-solid collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L111-L117.	1.5	16
59	Mutual ionization in Hâ^'–Hâ^'collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, L7-L12.	1.5	15
60	Quantum transport theory for atomic states through solids. Physical Review A, 1999, 60, 1091-1102.	2.5	15
61	Energy and angle spectra of sputtered particles for low-energy deuterium impact of deuterated amorphous carbon. Journal of Applied Physics, 2008, 104, .	2.5	15
62	Elastic — Elastic scattering of electrons from ions and atoms. Computer Physics Communications, 1998, 114, 342-355.	7.5	14
63	Navigating Localized Wave Packets in Phase Space. Physical Review Letters, 2006, 97, 253003.	7.8	14
64	Theoretical description of the ejected-electron spectrum in collisions of 1.5-MeV/uF9+with helium. Physical Review A, 1994, 50, 2390-2396.	2.5	13
65	Steering quantum states toward classical Bohr-like orbits. American Journal of Physics, 2010, 78, 796-803.	0.7	13
66	Electric-field-induced dissociation of heavy Rydberg ion-pair states. Journal of Chemical Physics, 2011, 134, 174305.	3.0	13
67	Anticusp and binary peak structures in the electronic spectra arising from proton- and antiproton-helium collisions. Physical Review A, 1989, 40, 7373-7376.	2.5	12
68	Excited-state subshell population of hydrogen atoms after transmission of relativisticHâ^'ions through thin foils. Physical Review A, 1998, 58, 2183-2190.	2.5	12
69	Classical calculation of high-energy electron capture in 5-MeV proton-hydrogen collisions. Physical Review A, 1992, 46, 666-669.	2.5	11
70	Coherence parameters for charge transfer in collisions of protons with helium calculated using a hybrid numerical approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 4025-4036.	1.5	11
71	Curve-crossing analysis for potential sputtering of insulators. Surface Science, 2000, 451, 197-202.	1.9	10