

# Carlos Reinhold

## List of Publications by Year in descending order

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71  
papers

2,512  
citations

168829

31  
h-index

242451

47  
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71  
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71  
docs citations

71  
times ranked

597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-field-induced dissociation of heavy Rydberg ion-pair states. <i>Journal of Chemical Physics</i> , 2011, 134, 174305.	1.2	13
2	Steering quantum states toward classical Bohr-like orbits. <i>American Journal of Physics</i> , 2010, 78, 796-803.	0.3	13
3	Realization of Localized Bohr-Like Wave Packets. <i>Physical Review Letters</i> , 2008, 100, 243004.	2.9	37
4	Energy and angle spectra of sputtered particles for low-energy deuterium impact of deuterated amorphous carbon. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	15
5	Chemical sputtering from amorphous carbon under bombardment by deuterium atoms and molecules. <i>New Journal of Physics</i> , 2007, 9, 209-209.	1.2	46
6	Transporting Rydberg Electron Wave Packets with Chirped Trains of Pulses. <i>Physical Review Letters</i> , 2007, 99, 183003.	2.9	21
7	Chemical sputtering by impact of excited molecules. <i>Europhysics Letters</i> , 2007, 77, 33002.	0.7	25
8	Navigating Localized Wave Packets in Phase Space. <i>Physical Review Letters</i> , 2006, 97, 253003.	2.9	14
9	Steering Rydberg wave packets using a chirped train of half-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S209-S217.	0.6	17
10	Coherence parameters for charge transfer in collisions of protons with helium calculated using a hybrid numerical approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 4025-4036.	0.6	11
11	Designing Rydberg wavepackets using trains of half-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, L551-L558.	0.6	17
12	Siegert-pseudostate representation of quantal time evolution: A harmonic oscillator kicked by periodic pulses. <i>Physical Review A</i> , 2001, 63, .	1.0	19
13	Enhanced population of high- <i>l</i> -states due to the interplay between multiple scattering and dynamical screening in ion-solid collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, L111-L117.	0.6	16
14	Quantum Localization of the Kicked Rydberg Atom. <i>Physical Review Letters</i> , 2000, 84, 2602-2605.	2.9	29
15	Curve-crossing analysis for potential sputtering of insulators. <i>Surface Science</i> , 2000, 451, 197-202.	0.8	10
16	Floquet analysis of the dynamical stabilization of the kicked hydrogen atom. <i>Physical Review A</i> , 1999, 59, R4121-R4124.	1.0	17
17	Threshold for Potential Sputtering of LiF. <i>Physical Review Letters</i> , 1999, 83, 3948-3951.	2.9	49
18	Reflection-free propagation of wave packets. <i>Physical Review A</i> , 1999, 60, 1113-1123.	1.0	33

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19	Realization of the kicked atom. <i>Physical Review A</i> , 1999, 59, 1434-1443.	1.0	63
20	Quantum transport theory for atomic states through solids. <i>Physical Review A</i> , 1999, 60, 1091-1102.	1.0	15
21	Elastic $\hat{\sigma}$ Elastic scattering of electrons from ions and atoms. <i>Computer Physics Communications</i> , 1998, 114, 342-355.	3.0	14
22	Interference oscillations in the excitation cross section for slow ion - hydrogen collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L155-L163.	0.6	30
23	Ternary ridge of ejected electrons from fast ion-atom collisions. <i>Physical Review A</i> , 1998, 58, 2611-2614.	1.0	16
24	Charge-state dependence of energy loss in random solids. <i>Physical Review A</i> , 1998, 57, 2737-2741.	1.0	17
25	Excited-state subshell population of hydrogen atoms after transmission of relativistic $H^+$ ions through thin foils. <i>Physical Review A</i> , 1998, 58, 2183-2190.	1.0	12
26	Accurate ionization thresholds of atoms subject to half-cycle pulses. <i>Physical Review A</i> , 1998, 58, 2229-2241.	1.0	23
27	Analysis of Unexplained Oscillations in Intermediate-Energy Ion-Atom Collisions. <i>Physical Review Letters</i> , 1997, 78, 2720-2723.	2.9	40
28	Above-surface neutralization of slow highly charged ions in front of ionic crystals. <i>Physical Review A</i> , 1997, 55, 2097-2108.	1.0	74
29	Dynamical Stabilization of the Periodically Kicked Rydberg Atom. <i>Physical Review Letters</i> , 1997, 79, 5226-5229.	2.9	46
30	Very-high-n Stark wave packets generated by an electric-field step. <i>Physical Review A</i> , 1997, 55, R865-R868.	1.0	19
31	Lattice Schrödinger-equation approach for excitation and ionization of He+ by antiproton impact. <i>Physical Review A</i> , 1997, 56, 3710-3713.	1.0	23
32	Theoretical description of fast kinetic electron emission in ion-surface collisions. <i>Physical Review A</i> , 1997, 55, 450-465.	1.0	38
33	Dynamics of Rydberg wave packets generated by half-cycle pulses. <i>Physical Review A</i> , 1996, 54, R33-R36.	1.0	61
34	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.	1.0	23
35	Ionization of very-high-n Rydberg atoms by half-cycle pulses in the short-pulse regime. <i>Physical Review A</i> , 1996, 53, R2929-R2932.	1.0	42
36	Ionization of Hydrogen and Hydrogenic Ions by Antiprotons. <i>Physical Review Letters</i> , 1996, 76, 2882-2885.	2.9	85

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37	Interaction of Highly Charged Ions with Surfaces. Australian Journal of Physics, 1996, 49, 527.	0.6	17
38	Fast neutralization of highly charged ions in grazing incidence collisions with surfaces. Nuclear Instruments & Methods in Physics Research B, 1995, 98, 415-419.	0.6	53
39	Energy and angular distributions of electrons from ion impact on atomic and molecular hydrogen. II. $20\text{--}114\text{-keV H}^{++}$ . Physical Review A, 1995, 51, 2256-2264.	1.0	61
40	Semiclassical theory of elastic electron-atom scattering. Physical Review A, 1995, 51, 1248-1252.	1.0	20
41	Interference oscillations in ionization of extreme Stark states by half-cycle pulses. Physical Review A, 1995, 51, R3410-R3413.	1.0	17
42	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.	0.6	26
43	Evolution of Rydberg angular momentum wavepackets in half-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L469-L475.	0.6	23
44	Rainbow Scattering of Convoy Electrons near Surfaces. Physical Review Letters, 1994, 73, 2508-2511.	2.9	33
45	Theoretical description of the ejected-electron spectrum in collisions of $1.5\text{-MeV/u F}^9+$ with helium. Physical Review A, 1994, 50, 2390-2396.	1.0	13
46	Ionization of Rydberg atoms by half-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, L659-L664.	0.6	80
47	Ionization of Rydberg atoms by short electromagnetic pulses. Physical Review Letters, 1993, 70, 4026-4026.	2.9	28
48	The classical limit of ionization in fast ion-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 3101-3122.	0.6	92
49	Electron-electron interaction and two-center effects in projectile ionization at backward emission angles. Physical Review A, 1992, 45, 4507-4518.	1.0	20
50	Classical calculation of high-energy electron capture in 5-MeV proton-hydrogen collisions. Physical Review A, 1992, 46, 666-669.	1.0	11
51	Simulation of convoy-electron emission. Physical Review A, 1992, 45, R2655-R2658.	1.0	25
52	Ejected-electron spectra in proton-atomic hydrogen collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, L599-L604.	0.6	17
53	Recent advances in the comparison of matter- and antimatter-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 521-558.	0.6	60
54	Mutual ionization in $\text{H}^+\text{--H}^+$ collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, L7-L12.	0.6	15

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55	Theory of the state population of Rydberg states formed in ion-solid collisions. <i>Physical Review A</i> , 1991, 44, 2993-3000.	1.0	44
56	Electron loss at backward observation angles. <i>Physical Review A</i> , 1991, 44, 7243-7251.	1.0	34
57	Quantum interference in clothed-ion-atom binary peak structures. <i>Physical Review Letters</i> , 1991, 66, 1842-1845.	2.9	59
58	Coincident charge state production in $F^{6++}Ne$ collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, 3839-3847.	0.6	31
59	Non- $q^2$ scaling of the ionization cross section near the binary peak. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, L455-L459.	0.6	36
60	Theoretical description of the binary peak in clothed ion-atom collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, L591-L596.	0.6	49
61	Excitation of atomic hydrogen by fully stripped ions. <i>Physical Review A</i> , 1990, 41, 4837-4842.	1.0	46
62	Subshell electron capture in collisions of fully stripped ions with He and $H_2$ at intermediate energies. <i>Physical Review A</i> , 1990, 42, 5286-5291.	1.0	53
63	Experimental and theoretical study of the electron spectra in $66.7 \text{ keV}/u C^{++}He$ collisions. <i>Physical Review A</i> , 1990, 42, 5338-5347.	1.0	33
64	State-selective capture in collisions between ions and ground- and excited-state alkali-metal atoms. <i>Physical Review A</i> , 1990, 42, 5305-5314.	1.0	71
65	Electron emission from both target and projectile in $C^{++}He$ collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, L297-L302.	0.6	18
66	Electron removal from molecular hydrogen by fully stripped ions at intermediate energies. <i>Physical Review A</i> , 1989, 40, 3637-3645.	1.0	66
67	Anticusp and binary peak structures in the electronic spectra arising from proton- and antiproton-helium collisions. <i>Physical Review A</i> , 1989, 40, 7373-7376.	1.0	12
68	Large-angle scattering in positron-helium and positron-krypton collisions. <i>Physical Review A</i> , 1989, 40, 4947-4958.	1.0	28
69	Classical two-center effects in ejected-electron spectra from $p^+, p^{++}$ , and $He^{2++}He$ collisions at intermediate energies. <i>Physical Review A</i> , 1989, 39, 3861-3870.	1.0	85
70	On the quantum foundations of some classical approximations for ion-atom collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, 1829-1843.	0.6	21
71	Classical ionization and charge-transfer cross sections for $H^{++}He$ and $H^{++}Li^+$ collisions with consideration of model interactions. <i>Physical Review A</i> , 1986, 33, 3859-3866.	1.0	172