

Carlos Reinhold

List of Publications by Year in descending order

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71
papers

2,512
citations

147726

31
h-index

214721

47
g-index

71
all docs

71
docs citations

71
times ranked

559
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	The classical limit of ionization in fast ion-atom collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 3101-3122.	0.6	92
3	Classical two-center effects in ejected-electron spectra from p^+, p^{2+} , and $He^{2+}He$ collisions at intermediate energies. <i>Physical Review A</i> , 1989, 39, 3861-3870.	1.0	85
4	Ionization of Hydrogen and Hydrogenic Ions by Antiprotons. <i>Physical Review Letters</i> , 1996, 76, 2882-2885.	2.9	85
5	Ionization of Rydberg atoms by half-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, L659-L664.	0.6	80
6	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
7	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
8	Electron removal from molecular hydrogen by fully stripped ions at intermediate energies. <i>Physical Review A</i> , 1989, 40, 3637-3645.	1.0	66
9	Realization of the kicked atom. <i>Physical Review A</i> , 1999, 59, 1434-1443.	1.0	63
10	Energy and angular distributions of electrons from ion impact on atomic and molecular hydrogen. II. $20 \text{ keV } H^{++}H$. <i>Physical Review A</i> , 1995, 51, 2256-2264.	1.0	61
11	Dynamics of Rydberg wave packets generated by half-cycle pulses. <i>Physical Review A</i> , 1996, 54, R33-R36.	1.0	61
12	Recent advances in the comparison of matter- and antimatter-atom collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991, 24, 521-558.	0.6	60
13	Quantum interference in clothed-ion-atom binary peak structures. <i>Physical Review Letters</i> , 1991, 66, 1842-1845.	2.9	59
14	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
15	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.	0.6	53
16	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
17	Threshold for Potential Sputtering of LiF. <i>Physical Review Letters</i> , 1999, 83, 3948-3951.	2.9	49
18	Excitation of atomic hydrogen by fully stripped ions. <i>Physical Review A</i> , 1990, 41, 4837-4842.	1.0	46

#	ARTICLE	IF	CITATIONS
19	Dynamical Stabilization of the Periodically Kicked Rydberg Atom. <i>Physical Review Letters</i> , 1997, 79, 5226-5229.	2.9	46
20	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
21	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
22	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
23	Analysis of Unexplained Oscillations in Intermediate-Energy Ion-Atom Collisions. <i>Physical Review Letters</i> , 1997, 78, 2720-2723.	2.9	40
24	Theoretical description of fast kinetic electron emission in ion-surface collisions. <i>Physical Review A</i> , 1997, 55, 450-465.	1.0	38
25	Realization of Localized Bohr-Like Wave Packets. <i>Physical Review Letters</i> , 2008, 100, 243004.	2.9	37
26	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
27	Electron loss at backward observation angles. <i>Physical Review A</i> , 1991, 44, 7243-7251.	1.0	34
28	Experimental and theoretical study of the electron spectra in 66.7-keV/u C ⁺⁺ He collisions. <i>Physical Review A</i> , 1990, 42, 5338-5347.	1.0	33
29	Rainbow Scattering of Convoy Electrons near Surfaces. <i>Physical Review Letters</i> , 1994, 73, 2508-2511.	2.9	33
30	Reflection-free propagation of wave packets. <i>Physical Review A</i> , 1999, 60, 1113-1123.	1.0	33
31	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
32	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
33	Quantum Localization of the Kicked Rydberg Atom. <i>Physical Review Letters</i> , 2000, 84, 2602-2605.	2.9	29
34	Large-angle scattering in positron-helium and positron-krypton collisions. <i>Physical Review A</i> , 1989, 40, 4947-4958.	1.0	28
35	Ionization of Rydberg atoms by short electromagnetic pulses. <i>Physical Review Letters</i> , 1993, 70, 4026-4026.	2.9	28
36	Scaled-time dynamics of ionization of Rydberg Stark states by half-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, L457-L464.	0.6	26

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37	Simulation of convoy-electron emission. <i>Physical Review A</i> , 1992, 45, R2655-R2658.	1.0	25
38	Chemical sputtering by impact of excited molecules. <i>Europhysics Letters</i> , 2007, 77, 33002.	0.7	25
39	Evolution of Rydberg angular momentum wavepackets in half-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, L469-L475.	0.6	23
40	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
41	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
42	Accurate ionization thresholds of atoms subject to half-cycle pulses. <i>Physical Review A</i> , 1998, 58, 2229-2241.	1.0	23
43	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
44	Transporting Rydberg Electron Wave Packets with Chirped Trains of Pulses. <i>Physical Review Letters</i> , 2007, 99, 183003.	2.9	21
45	Electron-electron interaction and two-center effects in projectile ionization at backward emission angles. <i>Physical Review A</i> , 1992, 45, 4507-4518.	1.0	20
46	Semiclassical theory of elastic electron-atom scattering. <i>Physical Review A</i> , 1995, 51, 1248-1252.	1.0	20
47	Very-high- n Stark wave packets generated by an electric-field step. <i>Physical Review A</i> , 1997, 55, R865-R868.	1.0	19
48	Siegert-pseudostate representation of quantal time evolution: A harmonic oscillator kicked by periodic pulses. <i>Physical Review A</i> , 2001, 63, .	1.0	19
49	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
50	Ejected-electron spectra in proton-atomic hydrogen collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991, 24, L599-L604.	0.6	17
51	Interference oscillations in ionization of extreme Stark states by half-cycle pulses. <i>Physical Review A</i> , 1995, 51, R3410-R3413.	1.0	17
52	Charge-state dependence of energy loss in random solids. <i>Physical Review A</i> , 1998, 57, 2737-2741.	1.0	17
53	Floquet analysis of the dynamical stabilization of the kicked hydrogen atom. <i>Physical Review A</i> , 1999, 59, R4121-R4124.	1.0	17
54	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

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55	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
56	Interaction of Highly Charged Ions with Surfaces. <i>Australian Journal of Physics</i> , 1996, 49, 527.	0.6	17
57	Ternary ridge of ejected electrons from fast ion-atom collisions. <i>Physical Review A</i> , 1998, 58, 2611-2614.	1.0	16
58	Enhanced population of high-lstates 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
59	Mutual ionization in H^+H^+ collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991, 24, L7-L12.	0.6	15
60	Quantum transport theory for atomic states through solids. <i>Physical Review A</i> , 1999, 60, 1091-1102.	1.0	15
61	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
62	Elastic π Elastic scattering of electrons from ions and atoms. <i>Computer Physics Communications</i> , 1998, 114, 342-355.	3.0	14
63	Navigating Localized Wave Packets in Phase Space. <i>Physical Review Letters</i> , 2006, 97, 253003.	2.9	14
64	Theoretical description of the ejected-electron spectrum in collisions of 1.5-MeV/u F^{9+} with helium. <i>Physical Review A</i> , 1994, 50, 2390-2396.	1.0	13
65	Steering quantum states toward classical Bohr-like orbits. <i>American Journal of Physics</i> , 2010, 78, 796-803.	0.3	13
66	Electric-field-induced dissociation of heavy Rydberg ion-pair states. <i>Journal of Chemical Physics</i> , 2011, 134, 174305.	1.2	13
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	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
69	Classical calculation of high-energy electron capture in 5-MeV proton-hydrogen collisions. <i>Physical Review A</i> , 1992, 46, 666-669.	1.0	11
70	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
71	Curve-crossing analysis for potential sputtering of insulators. <i>Surface Science</i> , 2000, 451, 197-202.	0.8	10