

Carlos O Reinhold

List of Publications by Year in descending order

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29
papers

500
citations

566801

15
h-index

642321

23
g-index

29
all docs

29
docs citations

29
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Theoretical description of fast kinetic electron emission in ion-surface collisions. <i>Physical Review A</i> , 1997, 55, 450-465.	1.0	38
4	Electron loss at backward observation angles. <i>Physical Review A</i> , 1991, 44, 7243-7251.	1.0	34
5	Rainbow Scattering of Convoy Electrons near Surfaces. <i>Physical Review Letters</i> , 1994, 73, 2508-2511.	2.9	33
6	Liouville master equation for multielectron dynamics: Neutralization of highly charged ions near a LiF surface. <i>Physical Review A</i> , 2003, 67, .	1.0	30
7	Simulation of convoy-electron emission. <i>Physical Review A</i> , 1992, 45, R2655-R2658.	1.0	25
8	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
9	Quantum-trajectory Monte Carlo method for internal-state evolution of fast ions traversing amorphous solids. <i>Physical Review A</i> , 2003, 67, .	1.0	23
10	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
11	Classical and quantum dynamics of the impulsively driven hydrogen atom. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 79, 109-113.	0.6	20
12	Semiclassical theory of elastic electron-atom scattering. <i>Physical Review A</i> , 1995, 51, 1248-1252.	1.0	20
13	Quantum localization in the three-dimensional kicked Rydberg atom. <i>Physical Review A</i> , 2003, 68, .	1.0	19
14	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, .	1.0	18
15	Interference oscillations in ionization of extreme Stark states by half-cycle pulses. <i>Physical Review A</i> , 1995, 51, R3410-R3413.	1.0	17
16	Quantum transport of the internal state of Kr^{35+} ions through amorphous carbon foils. <i>Physical Review A</i> , 2002, 65, .	1.0	11
17	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
18	Nonunitary quantum trajectory Monte Carlo method for open quantum systems. <i>Physical Review A</i> , 2005, 71, .	1.0	8

#	ARTICLE	IF	CITATIONS
19	Vertical incidence of slow Ne ¹⁰⁺ ions on an LiF surface: Suppression of the trampoline effect. Nuclear Instruments & Methods in Physics Research B, 2001, 182, 36-40.	0.6	7
20	Quantum localization in the high-frequency limit. Physical Review A, 2002, 66, .	1.0	7
21	Interaction of highly charged ions with insulator surfaces at low velocities: Estimates for Auger rates. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 690-699.	0.6	6
22	Multi-electron dynamics for neutralization of highly charged ions near surfaces. Vacuum, 2004, 73, 3-7.	1.6	6
23	High l-state population in O ⁷⁺ produced in ion-atom solid collisions. Nuclear Instruments & Methods in Physics Research B, 1992, 67, 168-171.	0.6	2
24	Occupation of fine-structure states in electron capture and transport. Physical Review A, 2008, 77, .	1.0	2
25	Transport of fast electrons near surfaces. Nuclear Instruments & Methods in Physics Research B, 1996, 115, 233-236.	0.6	1
26	Evidence of collisional coherences in the transport of hydrogenic krypton through amorphous carbon foils. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 79-84.	0.6	1
27	Convoy electron emission from surfaces. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 50-53.	0.6	0
28	Simulation of fast electron emission from surfaces. Nuclear Instruments & Methods in Physics Research B, 1995, 100, 378-382.	0.6	0
29	Solid-state effects in electron emission from atomic collisions near surfaces. Nuclear Instruments & Methods in Physics Research B, 1997, 124, 320-326.	0.6	0