

Carlos O Reinhold

List of Publications by Year in descending order

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29
papers

500
citations

567281

15
h-index

642732

23
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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. | 2.5 | 74 |
| 2 | Theory of the state population of Rydberg states formed in ion-solid collisions. <i>Physical Review A</i> , 1991, 44, 2993-3000. | 2.5 | 44 |
| 3 | Theoretical description of fast kinetic electron emission in ion-surface collisions. <i>Physical Review A</i> , 1997, 55, 450-465. | 2.5 | 38 |
| 4 | Electron loss at backward observation angles. <i>Physical Review A</i> , 1991, 44, 7243-7251. | 2.5 | 34 |
| 5 | Rainbow Scattering of Convoy Electrons near Surfaces. <i>Physical Review Letters</i> , 1994, 73, 2508-2511. | 7.8 | 33 |
| 6 | Liouville master equation for multielectron dynamics: Neutralization of highly charged ions near a LiF surface. <i>Physical Review A</i> , 2003, 67, . | 2.5 | 30 |
| 7 | Simulation of convoy-electron emission. <i>Physical Review A</i> , 1992, 45, R2655-R2658. | 2.5 | 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. | 2.5 | 23 |
| 9 | Quantum-trajectory Monte Carlo method for internal-state evolution of fast ions traversing amorphous solids. <i>Physical Review A</i> , 2003, 67, . | 2.5 | 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. | 2.5 | 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. | 1.4 | 20 |
| 12 | Semiclassical theory of elastic electron-atom scattering. <i>Physical Review A</i> , 1995, 51, 1248-1252. | 2.5 | 20 |
| 13 | Quantum localization in the three-dimensional kicked Rydberg atom. <i>Physical Review A</i> , 2003, 68, . | 2.5 | 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, . | 2.5 | 18 |
| 15 | Interference oscillations in ionization of extreme Stark states by half-cycle pulses. <i>Physical Review A</i> , 1995, 51, R3410-R3413. | 2.5 | 17 |
| 16 | Quantum transport of the internal state of Kr^{35+} ions through amorphous carbon foils. <i>Physical Review A</i> , 2002, 65, . | 2.5 | 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. | 1.5 | 11 |
| 18 | Nonunitary quantum trajectory Monte Carlo method for open quantum systems. <i>Physical Review A</i> , 2005, 71, . | 2.5 | 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. | 1.4 | 7 |
| 20 | Quantum localization in the high-frequency limit. Physical Review A, 2002, 66, . | 2.5 | 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. | 1.4 | 6 |
| 22 | Multi-electron dynamics for neutralization of highly charged ions near surfaces. Vacuum, 2004, 73, 3-7. | 3.5 | 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. | 1.4 | 2 |
| 24 | Occupation of fine-structure states in electron capture and transport. Physical Review A, 2008, 77, . | 2.5 | 2 |
| 25 | Transport of fast electrons near surfaces. Nuclear Instruments & Methods in Physics Research B, 1996, 115, 233-236. | 1.4 | 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. | 1.4 | 1 |
| 27 | Convoy electron emission from surfaces. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 50-53. | 1.4 | 0 |
| 28 | Simulation of fast electron emission from surfaces. Nuclear Instruments & Methods in Physics Research B, 1995, 100, 378-382. | 1.4 | 0 |
| 29 | Solid-state effects in electron emission from atomic collisions near surfaces. Nuclear Instruments & Methods in Physics Research B, 1997, 124, 320-326. | 1.4 | 0 |