

Barry C Walker

List of Publications by Year in descending order

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32
papers

639
citations

567281

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642732

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g-index

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32
docs citations

32
times ranked

598
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation for laser-driven rescattering near the ultimate high-energy cutoff: The single-atom response and bremsstrahlung limit. <i>Physical Review A</i> , 2021, 103, .	2.5	1
2	Inner shell excitation by strong field laser rescattering: optimal laser conditions for high energy recollision. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 3646.	2.1	2
3	MeV photoelectron spectrometer for ultraintense laser interactions with atoms and molecules. <i>Review of Scientific Instruments</i> , 2019, 90, 073104.	1.3	2
4	Molecular ionization of chloromethane in strong fields: nearest neighbor gateway to highly charged ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 165601.	1.5	5
5	Limits of Strong Field Rescattering in the Relativistic Regime. <i>Physical Review Letters</i> , 2017, 118, 093001.	7.8	20
6	Photoelectron energy spectra from elastic rescattering in ultrastrong laser fields: A relativistic extension of the three-step model. <i>Physical Review A</i> , 2015, 91, .	2.5	2
7	Generation of bright isolated attosecond soft X-ray pulses driven by multicycle midinfrared lasers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2361-7.	7.1	116
8	Classical study of atomic bound state dynamics in circularly polarized ultrastrong fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 135601.	1.5	4
9	Electron Shell Ionization of Atoms with Classical, Relativistic Scattering. <i>Physical Review Letters</i> , 2013, 110, 203003.	7.8	17
10	Classical study of ultrastrong nonperturbative-field interactions with a one-electron atom: Validity of the dipole approximation for the bound-state interaction. <i>Physical Review A</i> , 2012, 85, .	2.5	12
11	Photoionization by an ultraintense laser field: Response of atomic xenon. <i>Physical Review A</i> , 2010, 81, .	2.5	17
12	Ionization of Methane in Strong and Ultrastrong Relativistic Fields. <i>Physical Review Letters</i> , 2008, 100, 183001.	7.8	36
13	Relativistic MeV Photoelectrons from the Single Atom Response of Argon to a $W < 10^{19} \text{ W/cm}^2 >$ Laser Field. <i>Physical Review Letters</i> , 2008, 101, 173002.		
14	Intense field ionization of methane, ethane, butane, and octane: Transition from molecular to atomic response. , 2008, , .		0
15	Intense Field Ionization of Methane, Butane, and Octane: Transition from Molecular to Atomic Response. , 2007, , .		0
16	The effect of focal geometry on radiation from atomic ionization in ultrastrong/ultrafast laser field. , 2007, , .		0
17	The effect of focal geometry on radiation from atomic ionization in ultrastrong/ultrafast laser field. , 2007, , .		0
18	Photoelectron angular distributions from the single atom response to a relativistic laser field. , 2007, , .		0

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19	Photoelectron Angular Distributions from the Single Atom Response to a Relativistic Laser Field. , 2007, , .		0
20	Intense field ionization of methane, butane, and octane: Transition from molecular to atomic response. , 2007, , .		0
21	Enhanced high-order harmonic generation from Xe, Kr, and Ar in a capillary discharge. Physical Review A, 2007, 76, .	2.5	22
22	Multielectron ultrastrong laser field ionization of Ar ⁿ⁺ , Kr ^{m+} and Xe ^{l+(n^{1/2} 9, m^{1/2} 9, l^{1/2} 12)} at intensities from 1015 W cm ⁻² to 1018 W cm ⁻² . Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S357-S369.	1.5	30
23	Lorentz deflection of rescattering and high harmonic generation at mid-IR wavelengths. , 2006, , .		0
24	High harmonic generation from ions in a capillary discharge. , 2006, , .		0
25	Emergence from nonrelativistic strong-field rescattering to ultrastrong-field laser-atom physics: A semiclassical analysis. Physical Review A, 2006, 74, .	2.5	47
26	Self-assembly of epitaxial monolayers for vacuum wafer bonding. Applied Physics Letters, 2006, 89, 223127.	3.3	11
27	Cross-shell multielectron ionization of xenon by an ultrastrong field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L183-L190.	1.5	17
28	Ultrastrong Field Ionization of Ne ^{n+(n%8)} : Rescattering and the Role of the Magnetic Field. Physical Review Letters, 2005, 94, .	7.8	72
29	Electron momentum states and bremsstrahlung radiation from the ultraintense field ionization of atoms. Optics Express, 2004, 12, 3911.	3.4	19
30	TEM ₀₀ terawatt amplification by use of micro-optic spatial mode conversion. Optics Letters, 2003, 28, 2106.	3.3	28
31	Nonrelativistic ionization of the L-shell states in argon by a relativistic 1019 W/cm ² laser field. Physical Review A, 2001, 63, .	2.5	66
32	Observation of Continuum-Continuum Autler-Townes Splitting. Physical Review Letters, 1995, 75, 633-636.	7.8	52