

Barry C Walker

List of Publications by Year in descending order

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papers

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citations

567281

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32
all docs

32
docs citations

32
times ranked

598
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of bright isolated attosecond soft X-ray pulses driven by multicycle midinfrared lasers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2361-7.	7.1	116
2	Ultrastrong Field Ionization of $Nn+(n \approx 8)$: Rescattering and the Role of the Magnetic Field. Physical Review Letters, 2005, 94, .	7.8	72
3	Nonrelativistic ionization of the L-shell states in argon by a relativistic 10^{19} W/cm^2 laser field. Physical Review A, 2001, 63, .	2.5	66
4	Observation of Continuum-Continuum Autler-Townes Splitting. Physical Review Letters, 1995, 75, 633-636.	7.8	52
5	Emergence from nonrelativistic strong-field rescattering to ultrastrong-field laser-atom physics: A semiclassical analysis. Physical Review A, 2006, 74, .	2.5	47
6	Relativistic MeV Photoelectrons from the Single Atom Response of Argon to a 10^{19} W/cm^2 Laser Field. Physical Review Letters, 2008, 101, 173002.	7.8	36
7	Ionization of Methane in Strong and Ultrastrong Relativistic Fields. Physical Review Letters, 2008, 100, 183001.	1.5	30
8	Multielectron ultrastrong laser field ionization of Ar^{n+} , Kr^{m+} and Xe^{l+} ($n \approx 1/2$, $m \approx 1/2$, $l \approx 1/2$, 12) at intensities from $10^{15} \text{ W cm}^{-2}$ to $10^{18} \text{ W cm}^{-2}$. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S357-S369.	3.3	28
9	TEM ₀₀ terawatt amplification by use of micro-optic spatial mode conversion. Optics Letters, 2003, 28, 2106.	2.5	22
10	Enhanced high-order harmonic generation from Xe, Kr, and Ar in a capillary discharge. Physical Review A, 2007, 76, .	7.8	20
11	Limits of Strong Field Rescattering in the Relativistic Regime. Physical Review Letters, 2017, 118, 093001.	3.4	19
12	Electron momentum states and bremsstrahlung radiation from the ultraintense field ionization of atoms. Optics Express, 2004, 12, 3911.	1.5	17
13	Cross-shell multielectron ionization of xenon by an ultrastrong field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L183-L190.	2.5	17
14	Photoionization by an ultraintense laser field: Response of atomic xenon. Physical Review A, 2010, 81, .	7.8	17
15	Electron Shell Ionization of Atoms with Classical, Relativistic Scattering. Physical Review Letters, 2013, 110, 203003.	2.5	12
16	Classical study of ultrastrong nonperturbative-field interactions with a one-electron atom: Validity of the dipole approximation for the bound-state interaction. Physical Review A, 2012, 85, .	3.3	11
17	Self-assembly of epitaxial monolayers for vacuum wafer bonding. Applied Physics Letters, 2006, 89, 223127.	1.5	5
18	Molecular ionization of chloromethane in strong fields: nearest neighbor gateway to highly charged ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 165601.		

#	ARTICLE	IF	CITATIONS
19	Classical study of atomic bound state dynamics in circularly polarized ultrastrong fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 135601.	1.5	4
20	Photoelectron energy spectra from elastic rescattering in ultrastrong laser fields: A relativistic extension of the three-step model. Physical Review A, 2015, 91, .	2.5	2
21	MeV photoelectron spectrometer for ultraintense laser interactions with atoms and molecules. Review of Scientific Instruments, 2019, 90, 073104.	1.3	2
22	Inner shell excitation by strong field laser rescattering: optimal laser conditions for high energy recollision. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 3646.	2.1	2
23	Radiation for laser-driven rescattering near the ultimate high-energy cutoff: The single-atom response and bremsstrahlung limit. Physical Review A, 2021, 103, .	2.5	1
24	Lorentz deflection of rescattering and high harmonic generation at mid-IR wavelengths. , 2006, , .		0
25	High harmonic generation from ions in a capillary discharge. , 2006, , .		0
26	Intense Field Ionization of Methane, Butane, and Octane: Transition from Molecular to Atomic Response. , 2007, , .		0
27	The effect of focal geometry on radiation from atomic ionization in ultrastrong/ultrafast laser field. , 2007, , .		0
28	The effect of focal geometry on radiation from atomic ionization in ultrastrong/ultrafast laser field. , 2007, , .		0
29	Photoelectron angular distributions from the single atom response to a relativistic laser field. , 2007, , .		0
30	Photoelectron Angular Distributions from the Single Atom Response to a Relativistic Laser Field. , 2007, , .		0
31	Intense field ionization of methane, butane, and octane: Transition from molecular to atomic response. , 2007, , .		0
32	Intense field ionization of methane, ethane, butane, and octane: Transition from molecular to atomic response. , 2008, , .		0