Robert Sang

List of Publications by Year
in descending order

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87	1,119	430754	434063
papers	citations	18	31
		h-index	g-index

88	88	88	1103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Attosecond angular streaking and tunnelling time in atomic hydrogen. Nature, 2019, 568, 75-77.	13.7	190
2	Laserâ€Reduced Graphene: Synthesis, Properties, and Applications. Advanced Materials Technologies, 2018, 3, 1700315.	3.0	116
3	Tuning the sub-processes in laser reduction of graphene oxide by adjusting the power and scanning speed of laser. Carbon, 2019, 141, 83-91.	5.4	68
4	Quantum Electrodynamic Shifts of Rydberg Energy Levels between Parallel Metal Plates. Physical Review Letters, 1998, 81, 5784-5787.	2.9	45
5	Observing electron localization in a dissociating H2+ molecule in real time. Nature Communications, 2017, 8, 15849.	5.8	38
6	Measurement of laser intensities approaching 10<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>15</mml:mn></mml:msup></mml:math>W/cm<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup></mml:math>with an accuracy of 1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo>%</mml:mo></mml:mat	1.0	35
7	Experimental observation of the elusive double-peak structure in R-dependent strong-field ionization rate of H2+. Scientific Reports, 2015, 5, 13527.	1.6	32
8	Attoclock and the quest for tunnelling time in strong-field physics. JPhys Photonics, 2020, 2, 042002.	2.2	31
9	Relativistic Nondipole Effects in Strong-Field Atomic Ionization at Moderate Intensities. Physical Review Letters, 2019, 123, 093201.	2.9	30
10	Effect of nuclear mass on carrier-envelope-phase-controlled electron localization in dissociating molecules. Physical Review A, 2014, 89, .	1.0	26
11	Carrier-envelope-phase-dependent dissociation of hydrogen. New Journal of Physics, 2013, 15, 023034.	1.2	25
12	The current status of superelastic scattering studies for e--Na atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 1187-1208.	0.6	24
13	Extreme Ultraviolet Interferometer Using High-Order Harmonic Generation from Successive Sources. Physical Review Letters, 2012, 109, 263902.	2.9	21
14	Precise and Accurate Measurements of Strong-Field Photoionization and a Transferable Laser Intensity Calibration Standard. Physical Review Letters, 2016, 117, 053001.	2.9	21
15	Laser-Based Metastable Krypton Generation. Physical Review Letters, 2018, 121, 093201.	2.9	21
16	Coherent control of the dissociation probability ofH2+in Ï‰-3Ï‰ two-color fields. Physical Review A, 2016, 93, .	1.0	20
17	Measurement of the photoionization cross section of the(2p)(3p)5D33state of neon. Physical Review A, 2006, 73, .	1.0	19
18	Measurement of low-energy total absolute atomic collision cross sections with the metastableP23state of neon using a magneto-optical trap. Physical Review A, 2008, 78, .	1.0	19

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19	Self-focusing in air with phase-stabilized few-cycle light pulses. Optics Letters, 2010, 35, 1653.	1.7	19
20	Experimental ionization of atomic hydrogen with few-cycle pulses. Optics Letters, 2011, 36, 3660.	1.7	18
21	Benchmarking strong-field ionization with atomic hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 204003.	0.6	18
22	Observation of dynamic Stark resonances in strong-field excitation. Physical Review A, 2020, 101, .	1.0	18
23	Carrier-envelope phase effects in above-threshold ionization of atomic hydrogen. New Journal of Physics, 2013, 15, 033002.	1.2	16
24	Isotope Effect in Tunneling Ionization of Neutral Hydrogen Molecules. Physical Review Letters, 2016, 117, 083003.	2.9	16
25	Transverse electron momentum distributions in strong-field ionization: nondipole and Coulomb focusing effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 154005.	0.6	16
26	Localized Surface Plasmon Enhanced Laser Reduction of Graphene Oxide for Wearable Strain Sensor. Advanced Materials Technologies, 2021, 6, 2001191.	3.0	16
27	Lithographic pattern formation via metastable state rare gas atomic beams. Nanotechnology, 2004, 15, 1356-1362.	1.3	15
28	Plasma plumes produced by laser ablation of Al with single and double pulse schemes. Optics Letters, 2018, 43, 6081.	1.7	14
29	A hexapole magnetic guide for neutral atomic beams. Review of Scientific Instruments, 2009, 80, 073105.	0.6	13
30	Transverse electron momentum distribution in tunneling and over the barrier ionization by laser pulses with varying ellipticity. Scientific Reports, 2016, 6, 19002.	1.6	13
31	Optical pumping of the Na D2 transition with elliptically polarized light. Journal of Modern Optics, 1999, 46, 787-800.	0.6	12
32	A high flux metastable atomic discharge source with three-dimensional translation. Measurement Science and Technology, 2003, 14, N5-N8.	1.4	12
33	Quantitative comparison of rare-gas cold cathode discharge metastable atomic beam sources. Review of Scientific Instruments, 2004, 75, 5056-5058.	0.6	12
34	Absolute metastable atom-atom collision cross section measurements using a magneto-optical trap. Review of Scientific Instruments, 2007, 78, 073102.	0.6	11
35	Internal-quantum-state engineering using magnetic fields. Physical Review A, 2001, 63, .	1.0	8
36	Time-resolved nuclear dynamics in bound and dissociating acetylene. Structural Dynamics, 2018, 5, 044302.	0.9	8

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37	Laser-Induced Graphitization of Diamond Under 30 fs Laser Pulse Irradiation. Journal of Physical Chemistry Letters, 2022, 13, 2679-2685.	2.1	8
38	Structure formation in atom lithography using geometric collimation. Applied Physics B: Lasers and Optics, 2011, 105, 703-713.	1.1	6
39	Optical control of collision dynamics in a metastable neon magneto-optical trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 245202.	0.6	6
40	Wavelength and intensity effects on the dissociation of H2+ in intense laser fields. Physical Review A, 2016, 94, .	1.0	6
41	The interaction of excited atoms and few-cycle laser pulses. Scientific Reports, 2016, 6, 34101.	1.6	6
42	Measuring laser carrier-envelope-phase effects in the noble gases with an atomic hydrogen calibration standard. Physical Review A, 2017, 96, .	1.0	6
43	Towards creation of iron nanodots using metastable atom lithography. Nanotechnology, 2006, 17, 1166-1170.	1.3	5
44	Population dynamics in a metastable neon magneto-optical trap. Physical Review A, 2013, 87, .	1.0	5
45	Spatio-temporal optimization of a laser produced Al-plasma: Generation of highly ionized species. Physics of Plasmas, 2016, 23, .	0.7	5
46	Carrier-Envelope Phase-Dependent Strong-Field Excitation. Physical Review Letters, 2022, 128, 173201.	2.9	5
47	Characterisation of stray electric fields in niobium cavities using ultra-high resolution spectroscopy. Optics Communications, 1997, 141, 273-278.	1.0	3
48	Cathode design for a low-velocity metastable neon cold cathode discharge source. Measurement Science and Technology, 2001, 12, N17-N21.	1.4	3
49	Advanced Gouy phase high harmonics interferometer. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 094006.	0.6	3
50	Effect of double pulse laser irradiation on the dynamics of picosecond laser-produced plasma. Physics of Plasmas, 2020, 27, .	0.7	3
51	Strong-field ionization of argon: Electron momentum spectra and nondipole effects. Physical Review A, 2022, 105, .	1.0	3
52	Electron superelastic scattering from states of atomic sodium and rubidium. Canadian Journal of Physics, 1996, 74, 977-983.	0.4	2
53	Ellipticity-dependent fragmentation of acetylene dications. Physical Review A, 2018, 97, .	1.0	2
54	Optical pumping of the Na D2 transition with elliptically polarized light. , 0, .		2

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55	Experimental investigation of atomic collisions in time scales varying from nanosecond to microseconds. Journal of Physics: Conference Series, 2010, 212, 012013.	0.3	1
56	Transverse electron momentum distribution in tunneling and over the barrier ionization by strong-field laser pulses. Journal of Physics: Conference Series, 2015, 635, 092073.	0.3	1
57	Time-resolved optical emission spectroscopic studies of picosecond laser produced Cr plasma. Physics of Plasmas, 2018, 25, 063505.	0.7	1
58	A versatile two-colour pulse generation setup with active feedback phase-locking. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 134005.	0.6	1
59	Quantum state reconstruction using atom optics. Physical Review A, 2001, 63, .	1.0	0
60	Contamination resists in metastable atom lithography. , 0, , .		0
61	Progress Towards the Creation of Iron Nanodots Using Atom Lithography. , 0, , .		0
62	A Proposed Nanofabrication Technique Using Optical Masks for Metastable Atom Lithography. , 0, , .		0
63	Light assisted collisions with cold metastable neon atoms. Journal of Physics: Conference Series, 2009, 194, 092006.	0.3	0
64	Carrier-envelope phase effects in few-cycle ionisation of atomic hydrogen. , 2011, , .		0
65	Above-threshold ionization in atomic hydrogen using intense few-cycle laser pulses. , 2011, , .		0
66	Optical collisions in a metastable neon MOT. , 2012, , .		0
67	A Zeptosecond Phase Interferometer. Journal of Physics: Conference Series, 2012, 388, 032073.	0.3	0
68	Above-threshold ionization in atomic hydrogen using intense, few-cycle laser pulses. Journal of Physics: Conference Series, 2012, 388, 032055.	0.3	0
69	Characterisation of the growth of a carbonaceous film on silicon. Thin Solid Films, 2012, 520, 2414-2417.	0.8	0
70	Optimized attosecond XUV pulses with zeptosecond timing resolution. , 2013, , .		0
71	Photoionization yield of atomic hydrogen using intense few-cycle pulses. , 2013, , .		0
72	Optimization of Attosecond XUV Pulses. Journal of Physics: Conference Series, 2014, 488, 032009.	0.3	0

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73	Photoionization yield of atomic hydrogen using intense few-cycle pulses. Journal of Physics: Conference Series, 2014, 488, 032045.	0.3	0
74	Carrier-Envelope Phase effect for Dissociation of Molecular Hydrogen. Journal of Physics: Conference Series, 2014, 488, 032027.	0.3	0
75	Effect of Nuclear Mass in Strong-Field Ionization of Hydrogen Molecules and Dissociation of Hydrogen Molecular Ions. Journal of Physics: Conference Series, 2015, 635, 112001.	0.3	0
76	The interaction of ultrashort laser pulses and exotic atoms. Journal of Physics: Conference Series, 2015, 635, 092066.	0.3	0
77	Metastable noble gas atoms in strong-field ionization experiments. High Power Laser Science and Engineering, 2016, 4, .	2.0	0
78	Using Phase Shifts from High-order Harmonic Generated Radiation to Study Nuclear Dynamics. , 2016, , .		0
79	Precise calibration of few-cycle laser pulses with atomic hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 243501.	0.6	0
80	A High Order Harmonic Radiation Zeptosecond Phase Interferometer. , 2012, , .		0
81	An extreme ultraviolet interferometer using high order harmonic generation. Journal of Physics: Conference Series, 2014, 488, 012019.	0.3	0
82	New Data from Laser Interrogation of Electron-Atom Collisions Experiments. Australian Journal of Physics, 1996, 49, 499.	0.6	0
83	Dissociative Double Ionization of Acetylen in Strong Laser Field. , 2016, , .		0
84	Percent-level accuracy in measuring strong-field photoionization and laser intensity. , 2016, , .		0
85	Laser-based Noble-gas Metastable Excitation Techniques with Application to Atom Trap Trace Analysis. , 2017, , .		0
86	Frustrated Tunnel Ionization with Few-cycle Pulses. , 2018, , .		0
87	Towards an Australian Atom-Trap Trace Analysis (ATTA) facility. , 2019, , .		0