

Robert Sang

List of Publications by Year in descending order

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87
papers

1,119
citations

430754

18
h-index

434063

31
g-index

88
all docs

88
docs citations

88
times ranked

1103
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong-field ionization of argon: Electron momentum spectra and nondipole effects. <i>Physical Review A</i> , 2022, 105, .	1.0	3
2	Laser-Induced Graphitization of Diamond Under 30 fs Laser Pulse Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2679-2685.	2.1	8
3	Carrier-Envelope Phase-Dependent Strong-Field Excitation. <i>Physical Review Letters</i> , 2022, 128, 173201.	2.9	5
4	Localized Surface Plasmon Enhanced Laser Reduction of Graphene Oxide for Wearable Strain Sensor. <i>Advanced Materials Technologies</i> , 2021, 6, 2001191.	3.0	16
5	A versatile two-colour pulse generation setup with active feedback phase-locking. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 134005.	0.6	1
6	Effect of double pulse laser irradiation on the dynamics of picosecond laser-produced plasma. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	3
7	Observation of dynamic Stark resonances in strong-field excitation. <i>Physical Review A</i> , 2020, 101, .	1.0	18
8	Transverse electron momentum distributions in strong-field ionization: nondipole and Coulomb focusing effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 154005.	0.6	16
9	Attoclock and the quest for tunnelling time in strong-field physics. <i>JPhys Photonics</i> , 2020, 2, 042002.	2.2	31
10	Relativistic Nondipole Effects in Strong-Field Atomic Ionization at Moderate Intensities. <i>Physical Review Letters</i> , 2019, 123, 093201.	2.9	30
11	Attosecond angular streaking and tunnelling time in atomic hydrogen. <i>Nature</i> , 2019, 568, 75-77.	13.7	190
12	Tuning the sub-processes in laser reduction of graphene oxide by adjusting the power and scanning speed of laser. <i>Carbon</i> , 2019, 141, 83-91.	5.4	68
13	Towards an Australian Atom-Trap Trace Analysis (ATTA) facility. , 2019, , .		0
14	Ellipticity-dependent fragmentation of acetylene dications. <i>Physical Review A</i> , 2018, 97, .	1.0	2
15	Advanced Gouy phase high harmonics interferometer. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 094006.	0.6	3
16	Laser-Reduced Graphene: Synthesis, Properties, and Applications. <i>Advanced Materials Technologies</i> , 2018, 3, 1700315.	3.0	116
17	Laser-Based Metastable Krypton Generation. <i>Physical Review Letters</i> , 2018, 121, 093201.	2.9	21
18	Time-resolved optical emission spectroscopic studies of picosecond laser produced Cr plasma. <i>Physics of Plasmas</i> , 2018, 25, 063505.	0.7	1

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19	Time-resolved nuclear dynamics in bound and dissociating acetylene. <i>Structural Dynamics</i> , 2018, 5, 044302.	0.9	8
20	Plasma plumes produced by laser ablation of Al with single and double pulse schemes. <i>Optics Letters</i> , 2018, 43, 6081.	1.7	14
21	Frustrated Tunnel Ionization with Few-cycle Pulses. , 2018, , .		0
22	Observing electron localization in a dissociating H ₂ ⁺ molecule in real time. <i>Nature Communications</i> , 2017, 8, 15849.	5.8	38
23	Precise calibration of few-cycle laser pulses with atomic hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 243501.	0.6	0
24	Measuring laser carrier-envelope-phase effects in the noble gases with an atomic hydrogen calibration standard. <i>Physical Review A</i> , 2017, 96, .	1.0	6
25	Laser-based Noble-gas Metastable Excitation Techniques with Application to Atom Trap Trace Analysis. , 2017, , .		0
26	Metastable noble gas atoms in strong-field ionization experiments. <i>High Power Laser Science and Engineering</i> , 2016, 4, .	2.0	0
27	Using Phase Shifts from High-order Harmonic Generated Radiation to Study Nuclear Dynamics. , 2016, , .		0
28	Transverse electron momentum distribution in tunneling and over the barrier ionization by laser pulses with varying ellipticity. <i>Scientific Reports</i> , 2016, 6, 19002.	1.6	13
29	Spatio-temporal optimization of a laser produced Al-plasma: Generation of highly ionized species. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	5
30	Precise and Accurate Measurements of Strong-Field Photoionization and a Transferable Laser Intensity Calibration Standard. <i>Physical Review Letters</i> , 2016, 117, 053001.	2.9	21
31	Isotope Effect in Tunneling Ionization of Neutral Hydrogen Molecules. <i>Physical Review Letters</i> , 2016, 117, 083003.	2.9	16
32	Coherent control of the dissociation probability of H ₂ ⁺ in two-color fields. <i>Physical Review A</i> , 2016, 93, .	1.0	20
33	Wavelength and intensity effects on the dissociation of H ₂ ⁺ in intense laser fields. <i>Physical Review A</i> , 2016, 94, .	1.0	6
34	The interaction of excited atoms and few-cycle laser pulses. <i>Scientific Reports</i> , 2016, 6, 34101.	1.6	6
35	Dissociative Double Ionization of Acetylen in Strong Laser Field. , 2016, , .		0
36	Percent-level accuracy in measuring strong-field photoionization and laser intensity. , 2016, , .		0

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37	Experimental observation of the elusive double-peak structure in R-dependent strong-field ionization rate of H ₂ ⁺ . Scientific Reports, 2015, 5, 13527.	1.6	32
38	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
39	The interaction of ultrashort laser pulses and exotic atoms. Journal of Physics: Conference Series, 2015, 635, 092066.	0.3	0
40	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
41	Optimization of Attosecond XUV Pulses. Journal of Physics: Conference Series, 2014, 488, 032009.	0.3	0
42	Effect of nuclear mass on carrier-envelope-phase-controlled electron localization in dissociating molecules. Physical Review A, 2014, 89, .	1.0	26
43	Benchmarking strong-field ionization with atomic hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 204003.	0.6	18
44	Photoionization yield of atomic hydrogen using intense few-cycle pulses. Journal of Physics: Conference Series, 2014, 488, 032045.	0.3	0
45	Carrier-Envelope Phase effect for Dissociation of Molecular Hydrogen. Journal of Physics: Conference Series, 2014, 488, 032027.	0.3	0
46	An extreme ultraviolet interferometer using high order harmonic generation. Journal of Physics: Conference Series, 2014, 488, 012019.	0.3	0
47	Optimized attosecond XUV pulses with zeptosecond timing resolution. , 2013, , .		0
48	Photoionization yield of atomic hydrogen using intense few-cycle pulses. , 2013, , .		0
49	Carrier-envelope phase effects in above-threshold ionization of atomic hydrogen. New Journal of Physics, 2013, 15, 033002.	1.2	16
50	Carrier-envelope-phase-dependent dissociation of hydrogen. New Journal of Physics, 2013, 15, 023034.	1.2	25
51	Measurement of laser intensities approaching 10^{15} W/cm ² with an accuracy of 10^{-2}	1.0	35
52	Population dynamics in a metastable neon magneto-optical trap. Physical Review A, 2013, 87, .	1.0	5
53	Optical collisions in a metastable neon MOT. , 2012, , .		0
54	A Zeptosecond Phase Interferometer. Journal of Physics: Conference Series, 2012, 388, 032073.	0.3	0

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55	Above-threshold ionization in atomic hydrogen using intense, few-cycle laser pulses. Journal of Physics: Conference Series, 2012, 388, 032055.	0.3	0
56	Extreme Ultraviolet Interferometer Using High-Order Harmonic Generation from Successive Sources. Physical Review Letters, 2012, 109, 263902.	2.9	21
57	Characterisation of the growth of a carbonaceous film on silicon. Thin Solid Films, 2012, 520, 2414-2417.	0.8	0
58	A High Order Harmonic Radiation Zeptosecond Phase Interferometer. , 2012, , .		0
59	Experimental ionization of atomic hydrogen with few-cycle pulses. Optics Letters, 2011, 36, 3660.	1.7	18
60	Structure formation in atom lithography using geometric collimation. Applied Physics B: Lasers and Optics, 2011, 105, 703-713.	1.1	6
61	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
62	Carrier-envelope phase effects in few-cycle ionisation of atomic hydrogen. , 2011, , .		0
63	Above-threshold ionization in atomic hydrogen using intense few-cycle laser pulses. , 2011, , .		0
64	Experimental investigation of atomic collisions in time scales varying from nanosecond to microseconds. Journal of Physics: Conference Series, 2010, 212, 012013.	0.3	1
65	Self-focusing in air with phase-stabilized few-cycle light pulses. Optics Letters, 2010, 35, 1653.	1.7	19
66	A hexapole magnetic guide for neutral atomic beams. Review of Scientific Instruments, 2009, 80, 073105.	0.6	13
67	Light assisted collisions with cold metastable neon atoms. Journal of Physics: Conference Series, 2009, 194, 092006.	0.3	0
68	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
69	Absolute metastable atom-atom collision cross section measurements using a magneto-optical trap. Review of Scientific Instruments, 2007, 78, 073102.	0.6	11
70	Towards creation of iron nanodots using metastable atom lithography. Nanotechnology, 2006, 17, 1166-1170.	1.3	5
71	Measurement of the photoionization cross section of the(2p)(3p)5D33state of neon. Physical Review A, 2006, 73, .	1.0	19
72	Lithographic pattern formation via metastable state rare gas atomic beams. Nanotechnology, 2004, 15, 1356-1362.	1.3	15

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73	Quantitative comparison of rare-gas cold cathode discharge metastable atomic beam sources. Review of Scientific Instruments, 2004, 75, 5056-5058.	0.6	12
74	A high flux metastable atomic discharge source with three-dimensional translation. Measurement Science and Technology, 2003, 14, N5-N8.	1.4	12
75	Cathode design for a low-velocity metastable neon cold cathode discharge source. Measurement Science and Technology, 2001, 12, N17-N21.	1.4	3
76	Internal-quantum-state engineering using magnetic fields. Physical Review A, 2001, 63, .	1.0	8
77	Quantum state reconstruction using atom optics. Physical Review A, 2001, 63, .	1.0	0
78	Optical pumping of the Na D2 transition with elliptically polarized light. Journal of Modern Optics, 1999, 46, 787-800.	0.6	12
79	Quantum Electrodynamical Shifts of Rydberg Energy Levels between Parallel Metal Plates. Physical Review Letters, 1998, 81, 5784-5787.	2.9	45
80	Characterisation of stray electric fields in niobium cavities using ultra-high resolution spectroscopy. Optics Communications, 1997, 141, 273-278.	1.0	3
81	Electron superelastic scattering from states of atomic sodium and rubidium. Canadian Journal of Physics, 1996, 74, 977-983.	0.4	2
82	New Data from Laser Interrogation of Electron-Atom Collisions Experiments. Australian Journal of Physics, 1996, 49, 499.	0.6	0
83	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
84	Contamination resists in metastable atom lithography. , 0, , .		0
85	Progress Towards the Creation of Iron Nanodots Using Atom Lithography. , 0, , .		0
86	A Proposed Nanofabrication Technique Using Optical Masks for Metastable Atom Lithography. , 0, , .		0
87	Optical pumping of the Na D2 transition with elliptically polarized light. , 0, .		2