

Shuhei Yoshida

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

669
citations

15
h-index

23
g-index

52
ext. papers

764
ext. citations

2.6
avg, IF

3.55
L-index

#	Paper	IF	Citations
50	Creation of Rydberg Polarons in a Bose Gas. <i>Physical Review Letters</i> , 2018 , 120, 083401	7.4	81
49	Ultra-long-range Rydberg molecules in a divalent atomic system. <i>Physical Review A</i> , 2015 , 92,	2.6	67
48	Rydberg-blockade effects in Autler-Townes spectra of ultracold strontium. <i>Physical Review A</i> , 2016 , 93,	2.6	38
47	Theory of excitation of Rydberg polarons in an atomic quantum gas. <i>Physical Review A</i> , 2018 , 97,	2.6	32
46	Production of very-high-n strontium Rydberg atoms. <i>Physical Review A</i> , 2013 , 88,	2.6	32
45	Lifetimes of ultra-long-range strontium Rydberg molecules. <i>Physical Review A</i> , 2016 , 93,	2.6	29
44	Coincidence spectroscopy of high-lying Rydberg states produced in strong laser fields. <i>Physical Review A</i> , 2016 , 94,	2.6	25
43	Accurate ionization thresholds of atoms subject to half-cycle pulses. <i>Physical Review A</i> , 1998 , 58, 2229-2241	2.6	22
42	Trap losses induced by near-resonant Rydberg dressing of cold atomic gases. <i>Physical Review A</i> , 2016 , 93,	2.6	21
41	Localizing high-lying Rydberg wave packets with two-color laser fields. <i>Physical Review A</i> , 2017 , 96,	2.6	21
40	Siegert-pseudostate representation of quantal time evolution: A harmonic oscillator kicked by periodic pulses. <i>Physical Review A</i> , 2001 , 63,	2.6	19
39	Semiclassical analysis of quantum localization of the periodically kicked Rydberg atom. <i>Physical Review A</i> , 2004 , 69,	2.6	18
38	Quantum localization in the three-dimensional kicked Rydberg atom. <i>Physical Review A</i> , 2003 , 68,	2.6	17
37	Photoexcitation of $n \geq 305$ Rydberg states in the presence of an rf drive field. <i>Physical Review A</i> , 2012 , 86,	2.6	16
36	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,	2.6	15
35	Response of highly polarized Rydberg states to trains of half-cycle pulses. <i>Physical Review A</i> , 2004 , 70,	2.6	14
34	Lifetimes of ultralong-range strontium Rydberg molecules in a dense Bose-Einstein condensate. <i>Physical Review A</i> , 2017 , 96,	2.6	12

33	Autoionization of very-high-n strontium Rydberg states. <i>Physical Review A</i> , 2018 , 97,	2.6	11
32	Probing nonlocal spatial correlations in quantum gases with ultra-long-range Rydberg molecules. <i>Physical Review A</i> , 2019 , 100,	2.6	11
31	Characterizing high-n quasi-one-dimensional strontium Rydberg atoms. <i>Physical Review A</i> , 2014 , 89,	2.6	11
30	Classical dynamics of enhanced low-energy electron-ion recombination in storage rings. <i>Physical Review A</i> , 2006 , 74,	2.6	11
29	Efficient three-photon excitation of quasi-one-dimensional strontium Rydberg atoms with $n \sim 300$. <i>Physical Review A</i> , 2014 , 90,	2.6	10
28	Rydberg blockade effects at $n \sim 300$ in strontium. <i>Physical Review A</i> , 2015 , 92,	2.6	10
27	Dephasing of Stark wave packets induced by colored noise. <i>Physical Review A</i> , 2007 , 75,	2.6	10
26	Momentum distribution of multiply charged ions produced by intense (5000-PW/cm ²) lasers. <i>Physical Review A</i> , 2007 , 75,	2.6	9
25	Creation of nondispersive Bohr-like wave packets. <i>Physical Review A</i> , 2009 , 79,	2.6	8
24	Extracting irreversible dephasing rates from electric dipole echoes in Rydberg Stark wave packets. <i>Physical Review A</i> , 2008 , 78,	2.6	8
23	Formation of ultralong-range fermionic Rydberg molecules in ⁸⁷ Sr: role of quantum statistics. <i>Molecular Physics</i> , 2019 , 117, 3088-3095	1.7	7
22	Tailoring very-high-n circular wave packets. <i>Physical Review A</i> , 2008 , 78,	2.6	7
21	Electric dipole echoes in Rydberg atoms. <i>Physical Review Letters</i> , 2007 , 98, 203004	7.4	7
20	Enhancement of Low-Energy Electron Ion Recombination in a Magnetic Field. <i>Hyperfine Interactions</i> , 2003 , 146/147, 13-17	0.8	7
19	Quantum localization in the high-frequency limit. <i>Physical Review A</i> , 2002 , 66,	2.6	7
18	Spectroscopy of Sr ⁸⁷ triplet Rydberg states. <i>Physical Review A</i> , 2018 , 98,	2.6	7
17	Generation of quasiclassical Bohr-like wave packets using half-cycle pulses. <i>Physical Review A</i> , 2008 , 78,	2.6	6
16	Rydberg blockade in a hot atomic beam. <i>Physical Review A</i> , 2017 , 95,	2.6	5

15	Encoding and decoding phase information in high- n circular wave packets. <i>Physical Review A</i> , 2010 , 81,	2.6	5
14	Realization of the kicked atom at high scaled frequencies. <i>Physical Review A</i> , 2006 , 73,	2.6	4
13	Influence of a dc offset field on kicked quasi-one-dimensional Rydberg atoms: Stabilization and frustrated field ionization. <i>Physical Review A</i> , 2006 , 73,	2.6	4
12	Bidirectionally kicked Rydberg atoms: Population trapping near the continuum. <i>Physical Review A</i> , 2006 , 73,	2.6	4
11	Probing the spatial distribution of high-angular-momentum Rydberg wave packets. <i>Physical Review A</i> , 2011 , 84,	2.6	3
10	Transferring Rydberg wave packets between islands across the chaotic sea. <i>Physical Review A</i> , 2008 , 77,	2.6	3
9	Loss rates for high- n , $n \approx 150$, $5s_{ns}$ (S_{13}) Rydberg atoms excited in an Sr84 Bose-Einstein condensate. <i>Physical Review A</i> , 2020 , 102,	2.6	3
8	Heteronuclear Rydberg molecules. <i>Physical Review A</i> , 2020 , 101,	2.6	2
7	Lifetimes of ultralong-range strontium Rydberg molecules in cold dense gases. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 012013	0.3	2
6	Occupation of fine-structure states in electron capture and transport. <i>Physical Review A</i> , 2008 , 77,	2.6	2
5	Enhanced electron-ion recombination in ion storage rings. <i>Hyperfine Interactions</i> , 2006 , 173, 67-72	0.8	2
4	Creation of vibrationally-excited ultralong-range Rydberg molecules in polarized and unpolarized cold gases of ^{87}Sr . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 014002	1.3	2
3	Destruction of high- n ($n \sim 300$) Rydberg atoms in Rydberg-Rydberg collisions. <i>Physical Review A</i> , 2019 , 99,	2.6	1
2	Giant cross sections for L changing in Rydberg-Rydberg collisions. <i>Physical Review A</i> , 2020 , 102,	2.6	1
1	Analysis of circular wave packets generated by pulsed electric fields. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 279-222, 4-7	1.2	