

Kiyoshi Ishikawa

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papers

574
citations

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h-index

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57
ext. papers

619
ext. citations

2.8
avg, IF

3.39
L-index

#	Paper	IF	Citations
57	Quantum nondemolition measurement of spin via the paramagnetic Faraday rotation. <i>Physical Review A</i> , 1999 , 60, 4974-4979	2.6	108
56	High resolution laser spectroscopy of the B $1\frac{1}{2}$ $1\frac{1}{2}$ transition of $^{23}\text{Na}^{85}\text{Rb}$. <i>Journal of Chemical Physics</i> , 1991 , 95, 6229-6237	3.9	45
55	Development of a Highly Sensitive Optically Pumped Atomic Magnetometer for Biomagnetic Field Measurements: A Phantom Study. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3635-3638	2	37
54	Hyperfine structure of the NaK c $3\frac{3}{2}$ state and the effects of perturbation. <i>Journal of Chemical Physics</i> , 1992 , 96, 6423-6432	3.9	37
53	High resolution laser spectroscopy of the B $1\frac{1}{2}$ $1\frac{1}{2}$ transition of $^{23}\text{Na}^{39}\text{K}$, and the perturbation between the B $1\frac{1}{2}$ and c $3\frac{3}{2}$ states. <i>Journal of Chemical Physics</i> , 1990 , 93, 2228-2237	3.9	33
52	Observation of Larmor spin precession of laser-cooled Rb atoms via paramagnetic Faraday rotation. <i>Physical Review A</i> , 1999 , 59, 4836-4839	2.6	29
51	Spectroscopic Study of Hydrogen Bonded 7-Azaindole Clusters. <i>Laser Chemistry</i> , 1995 , 15, 167-181		20
50	Potential curve of NaK a $3\frac{3}{2}$ state near dissociation limit. <i>Journal of Chemical Physics</i> , 1994 , 101, 876-881	3.9	18
49	The Li2 C $1\frac{1}{2}$ state studied by a single-frequency ultraviolet laser. <i>Journal of Chemical Physics</i> , 1991 , 95, 8803-8808	3.9	18
48	Spin transfer from an optically pumped alkali vapor to a solid. <i>Physical Review Letters</i> , 2007 , 98, 183004	7.4	16
47	Diffusion coefficient and sublevel coherence of Rb atoms in N2 buffer gas. <i>Physical Review A</i> , 2000 , 62,	2.6	14
46	Hyperfine structure of the NaK a $3\frac{3}{2}$ state: Interaction of an electron spin with the sodium and potassium nuclear spins. <i>Journal of Chemical Physics</i> , 1993 , 98, 1916-1924	3.9	14
45	Transfer of spin angular momentum from Cs vapor to nearby Cs salts through laser-induced spin currents. <i>Physical Review A</i> , 2011 , 83,	2.6	11
44	Intrinsic impurities in glass alkali-vapor cells. <i>Physical Review Letters</i> , 2007 , 99, 027601	7.4	11
43	Optical magnetic-resonance imaging of laser-polarized Cs atoms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999 , 16, 31	1.7	10
42	Hyperfine structures of the triplet states of $^{23}\text{Na}^{85}\text{Rb}$. <i>Journal of Chemical Physics</i> , 1993 , 99, 5036-5044	3.9	10
41	High resolution spectroscopy of the Cs2 D $1\frac{1}{2}+\frac{1}{2}$ $1\frac{1}{2}+$ transition and hyperfine structure. <i>Journal of Chemical Physics</i> , 1993 , 98, 2670-2674	3.9	9

40	Effects of magnetic field on the perturbation between the B 1 and c 3 states of NaK. <i>Journal of Chemical Physics</i> , 1992 , 96, 955-960	3.9	9
39	Line shape of transition to the predissociative level Cs2 D 1+(v, J) and the effects of magnetic field. <i>Journal of Chemical Physics</i> , 1993 , 98, 6684-6689	3.9	8
38	Hole burning in well-defined noise fields: Motional narrowing. <i>Physical Review B</i> , 1994 , 49, 15352-15355	3.3	7
37	Observation of crystal twinning of LaF3 with Raman heterodyne detection of NMR in Pr3+:LaF3. <i>Physical Review B</i> , 1988 , 38, 7121-7124	3.3	7
36	Symmetry properties of Raman heterodyne signals in Pr3+:LaF3. <i>Physical Review B</i> , 1991 , 43, 7527-7537	3.3	6
35	Spin-polarized lithium diffusion in a glass hot-vapor cell. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	5
34	Glass-wool study of laser-induced spin currents en route to hyperpolarized Cs salt. <i>Physical Review A</i> , 2011 , 84,	2.6	5
33	Spin accumulation in thin Cs salts on contact with optically polarized Cs vapor. <i>Physical Review A</i> , 2011 , 84,	2.6	5
32	Magnetic resonance imaging of spin-polarization transfer of polarized Xe atoms dissolving into ethanol. <i>Journal of Chemical Physics</i> , 2004 , 120, 7602-6	3.9	5
31	Visualization of foreign atoms by optical magnetic-resonance imaging of Cs atoms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000 , 17, 182	1.7	5
30	Hole burning in a well-characterized noise field: Nonadherence to the Bloch equations. <i>Physical Review B</i> , 1995 , 52, 13475-13479	3.3	5
29	Magnetic predissociation of the D 1 state of the cesium molecule. <i>Chemical Physics</i> , 1992 , 162, 107-117	3.3	5
28	Spectroscopic study of a diffusion-bonded sapphire cell for hot metal vapors. <i>Applied Optics</i> , 2018 , 57, 52-56	1.7	4
27	Magnetic Field Mapping and Biaxial Vector Operation for Biomagnetic Applications Using High-Sensitivity Optically Pumped Atomic Magnetometers. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 116604	1.4	4
26	Hyperpolarization of 133Cs nuclei enhanced by ion movement in a cesium salt. <i>Physical Review A</i> , 2011 , 84,	2.6	4
25	Ultrafast Single-Shot Optical Oscilloscope based on Time-to-Space Conversion due to Temporal and Spatial Walk-Off Effects in Nonlinear Mixing Crystal. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 6546-6549	1.4	4
24	Spin dynamics of dense alkali-metal atoms. <i>Physical Review A</i> , 2002 , 65,	2.6	4
23	Phase relaxation in a well-defined noise field: A two-state pulse noise field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993 , 181, 97-104	2.3	4

22	Enhanced coherent phonon generation by periodic excitation with Q-switched and mode-locked laser pulses. <i>Optics Communications</i> , 1990 , 76, 81-88	2	4
21	Magnetic Field Mapping and Biaxial Vector Operation for Biomagnetic Applications Using High-Sensitivity Optically Pumped Atomic Magnetometers. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 116604	1.4	4
20	Analysis of background gas in an alkali-metal vapor cell coated with paraffin. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	3
19	Pressure effect on hyperfine CPT resonance of ground-state Li atoms in glass hot-vapor cell. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	3
18	Hyperpolarized cesium ions doped in a glass material. <i>Journal of Magnetic Resonance</i> , 2014 , 249, 94-99	3	3
17	Spin-injection optical pumping of molten cesium salt and its NMR diagnosis. <i>AIP Advances</i> , 2015 , 5, 077125	1.2	2
16	Hyperpolarisation of Cs salts by optical pumping of Cs atoms in a random scattering medium at high magnetic field. <i>Microporous and Mesoporous Materials</i> , 2013 , 178, 123-125	5.3	2
15	Spin relaxation of polarized Xe atoms stored in deuterated ethanol. <i>Physical Review A</i> , 2004 , 70,	2.6	2
14	Different mechanisms of impulsive optical spin orientation in paramagnetic and diamagnetic copper (II) complexes. <i>Chemical Physics Letters</i> , 2004 , 393, 314-318	2.5	2
13	Narrowing of a magnetic resonance line of Cs atoms in a thin glass cell. <i>Physical Review A</i> , 2000 , 63,	2.6	2
12	Low-Frequency NMR of Laser-Polarized Xenon on a Liquid Surface. <i>The Review of Laser Engineering</i> , 2003 , 31, 337-341	0	2
11	Impurity detection in alkali-metal vapor cells via nuclear magnetic resonance. <i>Journal of Applied Physics</i> , 2016 , 120, 174901	2.5	2
10	Noble-gas atoms characterized by hyperfine frequency shift of lithium atom.. <i>Journal of Chemical Physics</i> , 2022 , 156, 144301	3.9	2
9	Surface relaxation of polarized Xe atoms dissolved in deuterated ethanol. <i>Journal of Magnetic Resonance</i> , 2006 , 179, 234-40	3	1
8	Spectral hole burning in NMR: Experimental test of relaxation theories by using well-characterized noise fields. <i>Journal of Luminescence</i> , 1995 , 64, 51-54	3.8	1
7	Thermal gratings and coherent phonons generated by periodic optical excitation in nematic MBBA. <i>Optics Communications</i> , 1990 , 78, 240-246	2	1
6	High-temperature lithium atomic magnetometry by symmetric hyperfine coherent population trapping resonances. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 2155	1.7	1
5	Noble-gas performance for lithium atomic spectroscopy in glass vapor cells. <i>Applied Physics B: Lasers and Optics</i> , 2022 , 128,	1.9	1

- 4 Faraday rotation of broadband VUV light by optically-dense Xe atoms. *Optics Communications*, **2015**, 355, 85-88 2
- 3 Vapor pressure of alkali-metal binary alloys in glass cells. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 59, 40-46 1.9
- 2 Highly time-resolved correlation measurement between laser and synchrotron radiation pulses without synchronization control. *Journal of Synchrotron Radiation*, **2005**, 12, 826-32 2.4
- 1 Optical generation of continuous-wave accumulated coherent phonons. *Journal of the Optical Society of America B: Optical Physics*, **1992**, 9, 2054 1.7