

Goran Pichler

List of Publications by Year in descending order

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116
papers

1,776
citations

279798

23
h-index

330143

37
g-index

118
all docs

118
docs citations

118
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonance interaction and self-broadening of alkali resonance lines. I. Adiabatic potential curves. Journal of Physics B: Atomic and Molecular Physics, 1977, 10, 2631-2638.	1.6	156
2	Pure Long-Range Molecules. Physical Review Letters, 1978, 41, 1164-1167.	7.8	138
3	Diffuse bands in the visible absorption spectra of dense alkali vapours. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 4619-4631.	1.6	59
4	Comparison of Composite Curing Parameters: Effects of Light Source and Curing Mode on Conversion, Temperature Rise and Polymerization Shrinkage. Operative Dentistry, 2006, 31, 219-226.	1.2	59
5	New aspects in the self-broadening of alkali resonance lines. Journal of Physics B: Atomic and Molecular Physics, 1975, 8, 179-184.	1.6	53
6	Electronic assignments of the violet bands of sodium. Chemical Physics Letters, 1986, 129, 425-428.	2.6	52
7	Analysis of the diffuse bands near 6100 Å... in the fluorescence spectrum of Cs ₂ . Chemical Physics, 1980, 50, 313-330.	1.9	50
8	Pulsed blue laser curing of hybrid composite resins. Biomaterials, 1997, 18, 1349-1354.	11.4	48
9	Measurement of the oscillator strengths of principal-series lines of cesium. Journal of Quantitative Spectroscopy and Radiative Transfer, 1976, 16, 147-151.	2.3	45
10	Resonance interaction and self-broadening of alkali resonance lines. II. Quasi-static wing profiles. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, 697-070.	1.6	43
11	Absorption spectrum of rubidium and cesium dimers by compact computer operated spectrometer. Optics Communications, 2006, 268, 58-63.	2.1	42
12	Velocity Selective Optical Pumping of Rb Hyperfine Lines Induced by a Train of Femtosecond Pulses. Physical Review Letters, 2005, 95, 233001.	7.8	40
13	Near-wing asymmetries of the self-broadened first Rb and Cs resonance lines. Journal of Physics B: Atomic and Molecular Physics, 1979, 12, 3503-3509.	1.6	37
14	Mapping of the optical frequency comb to the atom-velocity comb. Physical Review A, 2006, 73, .	2.5	32
15	Ultra-violet laser-induced chemiluminescence of NaCd and NaHg excimers. Journal of Chemical Physics, 1991, 94, 3366-3370.	3.0	31
16	Cesium dimer spectroscopy on helium droplets. Journal of Chemical Physics, 2006, 124, 024313.	3.0	31
17	Polymerization of composites using pulsed laser. European Journal of Oral Sciences, 1995, 103, 394-398.	1.5	29
18	Quasibound states in long-range alkali dimers: Grid method calculations. Journal of Chemical Physics, 1997, 107, 10633-10642.	3.0	27

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37	Absorption measurements in dense cesium vapor using a UV-violet light-emitting diode. Applied Physics B: Lasers and Optics, 2001, 72, 337-341.	2.2	14
38	NaCd excimer emission bands. Optics Communications, 1988, 67, 45-50.	2.1	13
39	The NaZn excimer: Blue-green band. Journal of Chemical Physics, 1993, 98, 4672-4679.	3.0	13
40	Photoionization and detection of ultracold Cs ₂ molecules through diffuse bands. European Physical Journal D, 2002, 18, 365-370.	1.3	13
41	UV, Visible and IR Spectrum of the Cs High Pressure Lamp. Physica Scripta, 2003, T105, 98.	2.5	13
42	Rubidium pure long-range ion-pair molecules. Europhysics Letters, 2004, 66, 485-491.	2.0	13
43	Cesium satellite band at 875.2 nm stemming from the Cs20g+(6 p ₂ P _{1/2} +6 s ₂ S _{1/2}) state. European Physical Journal D, 2001, 15, 209-214.	1.3	13
44	Degenerate four-wave-mixing spectroscopy in NaH. Applied Physics B, Photophysics and Laser Chemistry, 1993, 57, 261-265.	1.5	12
45	Blue satellite bands of KRb molecule: Intermediate long-range states. European Physical Journal D, 2002, 19, 49-56.	1.3	12
46	Observation and interpretation of the Li ₂ diffuse band in the region of 420 nm. Chemical Physics Letters, 1984, 103, 352-356.	2.6	11
47	Discharge studies of the lithium dimer diffuse bands. Optics Communications, 1985, 56, 172-178.	2.1	11
48	Spectral simulation and interpretation of LiZn and LiCd blue-green emission. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1994, 30, 39-44.	1.0	11
49	Rb ₂ diffuse band emission excited by diode lasers. European Physical Journal D, 2004, 30, 57-64.	1.3	11
50	Femtosecond laser pulse train effect on Doppler profile of cesium resonance lines. European Physical Journal D, 2007, 41, 447-454.	1.3	11
51	Simultaneous determination of the temperature and density of rubidium vapor. Applied Physics B: Lasers and Optics, 2003, 76, 859-867.	2.2	10
52	Formation of ultracold Cs ₂ molecules through the double-minimum Cs231 μ +state. Physical Review A, 2004, 69, .	2.5	10
53	Cone emission induced by femtosecond excitation in rubidium vapor. Physical Review A, 2008, 77, .	2.5	10
54	Multiphoton laser ionization for energy conversion in barium vapor. Optics Communications, 2013, 290, 95-99.	2.1	10

#	ARTICLE	IF	CITATIONS
55	Title is missing!. European Physical Journal D, 2002, 18, 365-370.	1.3	10
56	Satellite and diffuse bands of the KHg excimer. Chemical Physics Letters, 1988, 147, 497-502.	2.6	9
57	Rubidium dimer destruction by a diode laser. Physical Review A, 2005, 71, .	2.5	9
58	Coherent population dynamics in rubidium atoms excited by resonant pulses. Physical Review A, 2009, 80, .	2.5	9
59	Time evolution of the spectrum of the cesium high pressure discharge light source. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 169-173.	2.3	9
60	The shape of the inner-wing satellites of self-broadened first resonance lines of caesium and rubidium. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, 3605-3611.	1.6	8
61	Fluorescence studies of the K2 diffuse band at 572.5 nm. Chemical Physics Letters, 1986, 128, 145-149.	2.6	8
62	Superheating in the heat-pipe oven. Applied Physics B, Photophysics and Laser Chemistry, 1986, 41, 135-138.	1.5	8
63	Photoassociation and bound-bound excitation into the $2^2\Delta$ state of LiZn, LiCd, and NaZn molecules. Physical Review A, 1996, 53, 1323-1329.	2.5	8
64	The LiHg($2^2\Delta$) System. The Journal of Physical Chemistry, 1996, 100, 10062-10069.	2.9	8
65	RbCs bands observation and interpretation. Applied Physics B: Lasers and Optics, 2007, 88, 111-115.	2.2	8
66	Satellite bands of the RbCs molecule in the range of highly excited states. Journal of Chemical Physics, 2016, 144, 204310.	3.0	8
67	The absorption and emission observations of the sodium near-infrared spectrum. Optics Communications, 1986, 57, 394-399.	2.1	7
68	Laser-ignited glow discharge in lithium vapor. Physical Review A, 2000, 62, .	2.5	7
69	Low-density plasma channels generated by femtosecond pulses. Applied Physics B: Lasers and Optics, 2006, 82, 377-382.	2.2	7
70	Comparison of visible and infrared spectrum of light sources. Optics Communications, 2011, 284, 2881-2885.	2.1	7
71	Blue satellite bands of KRb molecule: Intermediate long-range states. European Physical Journal D, 2002, 19, 49-56.	1.3	7
72		2.1	6

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73	Structured photoionization continuum of superheated cesium vapor. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 165002.	1.5	6
74	High Temperature Optical Spectra of Diatomic Molecules at Local Thermodynamic Equilibrium. Atoms, 2018, 6, 67.	1.6	6
75	A study of structured continua in K ₂ excited by the 457.9 nm Ar-ion laser line. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 2231-2238.	1.6	5
76	Collisional population of the 23 $\hat{\sigma}$ g state in K ₂ . Zeitschrift für Physik D-Atoms Molecules and Clusters, 1989, 11, 213-217.	1.0	5
77	Constriction in lithium glow discharges in a heat-pipe oven. Optics Communications, 1999, 161, 217-222.	2.1	5
78	Superheating effects in line broadening of dense alkali vapors. Journal of Physics: Conference Series, 2017, 810, 012013.	0.4	5
79	High-Temperature Optical Spectra of Diatomic Molecules: Influence of the Avoided Level Crossing. Atoms, 2020, 8, 28.	1.6	5
80	A study of Na ₂ diffuse bands in violet by the excitation through self-broadened D-lines. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1986, 1, 223-229.	1.0	4
81	LiH emission spectrum from the glow discharge in a heat-pipe oven. Journal Physics D: Applied Physics, 2000, 33, 396-404.	2.8	4
82	Predictions of absorption bands for RbCs on helium clusters. Chemical Physics Letters, 2007, 435, 236-241.	2.6	4
83	Collision induced modification of spectral lines in the first autoionization region of barium. European Physical Journal D, 2013, 67, 1.	1.3	4
84	Cs ₂ diffuse bands emission from superheated cesium vapor. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 145101.	1.5	4
85	Photoionization bands of rubidium molecule. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 39-44.	2.3	4
86	Photoionization of KCs Molecule: Origin of the Structured Continuum?. Atoms, 2020, 8, 24.	1.6	4
87	Self-broadening of the Tl 377.6 nm resonance line. Journal of Physics B: Atomic and Molecular Physics, 1978, 11, L483-L488.	1.6	3
88	Photochemical production of KCd excimer bands. Chemical Physics Letters, 1995, 233, 477-482.	2.6	3
89	Observation of blue satellite bands and photoassociation at ultracold temperatures. Physical Review A, 2006, 73, .	2.5	3
90	Characterization of an optical frequency comb using modified direct frequency comb spectroscopy. Applied Physics B: Lasers and Optics, 2009, 97, 553-560.	2.2	3

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91	Direct excitation of potassium diffuse bands by single mode laser radiation. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1986, 2, 233-238.	1.0	2
92	Ultraviolet and blue NaHg and NaCd excimer bands. Applied Physics B, Photophysics and Laser Chemistry, 1990, 51, 427-430.	1.5	2
93	Quantum simulation of bound-free spectra. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1992, 23, 165-170.	1.0	2
94	Cross section for the photochemical formation of the NaZn (22̂) excimer. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1996, 36, 147-151.	1.0	2
95	Quasiresonant Excitation of Lithium 2p ⁴ d and 2p ⁴ s Transitions in Li-Cd Vapor Mixture. Physica Scripta, 2000, 62, 137-140.	2.5	2
96	Resonance 2s-2p excitation of lithium in the Li + Cd system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 2715-2724.	1.5	2
97	Linewidth oscillations in the 5d ³ /2nd autoionizing series of barium. European Physical Journal Plus, 2013, 128, 1.	2.6	2
98	Femtosecond laser fluorescence and propagation in very dense potassium vapor. Optics Express, 2013, 21, 30306.	3.4	2
99	Frequency comb polarization spectroscopy of multilevel rubidium atoms. European Physical Journal D, 2014, 68, 1.	1.3	2
100	Study of the satellite bands of RbCs molecule in the near UV. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 144, 86-91.	2.3	2
101	KCs Molecular Bands in the Visible Region. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT / Overbo 0,6 2	0.6	2
102	Observations and spectral simulations of the $7Li\ 2\ 1\ \hat{\epsilon}\ u + \hat{\alpha}^+X\ 1\ \hat{\epsilon}\ g +$ transition. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1993, 28, 135-140.	1.0	1
103	LiAr, LiKr and LiXe excimers: Photochemical formation of the $\sigma^+ - \sigma^+$ bands. European Physical Journal D, 1999, 6, 333-341.	1.3	1
104	Blue Satellite Bands and Photoassociation Spectra of Ultracold Cesium. AIP Conference Proceedings, 2006, , .	0.4	1
105	Pulse reshaping in nearly resonant interaction of femtosecond pulses with dense rubidium vapor. Optics Communications, 2016, 371, 231-237.	2.1	1
106	Time-Resolved Laser-Induced Fluorescence Spectroscopy as a Guidance Tool for Laser Lithotripsy of Gallbladder Stones. Photomedicine and Laser Surgery, 2017, 35, 498-504.	2.0	1
107	High resolution laser spectroscopy of spatially restricted hot alkali atomic and dimer vapor. Optical and Quantum Electronics, 2020, 52, 1.	3.3	1
108	Formation of cesium dimers and observation of high-resolution dimer spectra in spatially restricted Cs vapor. , 2019, , .		1

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109	Study of the Interaction of Potassium Atoms with the Sapphire Surface with the Use of an Ultrathin Spectroscopic Cell. JETP Letters, 2022, 115, 312-317.	1.4	1
110	Photochemical population of KHg states. Chemical Physics, 1995, 196, 267-273.	1.9	0
111	Structured continua of the intermediate long-range Cs[sub 2] molecules. AIP Conference Proceedings, 1997, , .	0.4	0
112	The search for the bound-free emission from the. , 1999, , .		0
113	Mapping of the Optical Frequency Comb to the Atom Velocity Comb. AIP Conference Proceedings, 2006, , .	0.4	0
114	Complex resonance energy transfer in the LiHâ€“Li system. Chemical Physics Letters, 2007, 438, 178-183.	2.6	0
115	High resolution spectroscopy of dimer molecules formed in cesium vapor layer of micrometric thickness. AIP Conference Proceedings, 2019, , .	0.4	0
116	Structured photoionization bands of alkali diatomic molecules. Progress in Quantum Electronics, 2022, 81, 100365.	7.0	0