

# Takayoshi Amano

## List of Publications by Year in descending order

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41  
papers

1,401  
citations

304743

22  
h-index

330143

37  
g-index

42  
all docs

42  
docs citations

42  
times ranked

756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Difference frequency laser spectroscopy of the $\hat{\nu}_{23}$ band of the CH <sub>3</sub> radical. Journal of Chemical Physics, 1982, 77, 5284-5287.	3.0	102
2	The $\hat{\nu}_{21}$ band of the DO <sub>2</sub> radical by difference frequency laser and diode laser spectroscopy: The equilibrium structure of the hydroperoxyl radical. Journal of Chemical Physics, 1984, 81, 4826-4831.	3.0	92
3	The $\hat{\nu}_{21}$ fundamental band of HCO <sup>+</sup> by difference frequency laser spectroscopy. Journal of Chemical Physics, 1983, 79, 3595-3595.	3.0	90
4	Microwave spectrum of the molecular oxygen in the excited vibrational state. Journal of Molecular Spectroscopy, 1974, 53, 346-363.	1.2	81
5	Hyperfine interactions and $\hat{\nu}$ -type doubling in the microwave spectrum of the NS radical. Journal of Molecular Spectroscopy, 1969, 32, 97-107.	1.2	77
6	Microwave spectrum of the ClO radical. Journal of Molecular Spectroscopy, 1969, 30, 275-289.	1.2	74
7	Observation of the $\hat{\nu}_{21}$ fundamental band of H <sub>2</sub> D <sup>+</sup> . Journal of Chemical Physics, 1984, 81, 2869-2871.	3.0	66
8	Microwave Spectrum of the SO Radical. Equilibrium S-O Distance, Electric Quadrupole Coupling Constant and Magnetic Hyperfine Structure Constants. Journal of the Physical Society of Japan, 1967, 22, 399-412.	1.6	64
9	Microwave spectrum of the NCO radical. Journal of Molecular Spectroscopy, 1970, 34, 383-389.	1.2	64
10	Difference frequency laser spectroscopy of OH and OD: Simultaneous fit of the infrared and microwave lines. Journal of Molecular Spectroscopy, 1984, 103, 436-454.	1.2	61
11	Detection of A New Interstellar Molecular Ion, H <sub>2</sub> TINF <sup>+</sup> COH <sup>+</sup> (Protonated) $\tau_j$ ETQq1 1 0.784314 rgBT /Overlock 1	4.5	51
12	Microwave spectrum of the ClO radical. Journal of Molecular Spectroscopy, 1968, 27, 257-265.	1.2	38
13	Difference frequency laser spectroscopy of the $\nu = 1$ $\hat{\nu}$ -type transition of NH. Journal of Molecular Spectroscopy, 1982, 95, 359-364.	1.2	35
14	Millimeter-wave spectrum of NCS radical in the ground $2\hat{\nu}$ state. Journal of Chemical Physics, 1991, 95, 2275-2279.	3.0	35
15	Hyperfine Interactions of the Free NCO Radical in the $\hat{\nu}$ Vibronic State ( $\nu_2 = 1$ ). Journal of Chemical Physics, 1972, 57, 5608-5610.	3.0	31
16	Microwave spectrum of the SF radical. Journal of Molecular Spectroscopy, 1973, 45, 417-419.	1.2	29
17	Difference frequency spectroscopy of the fundamental band of CH <sub>3</sub> radical. Journal of Chemical Physics, 1984, 81, 1655-1660.	3.0	28
18	Microwave spectrum of the BrO radical equilibrium structure and dipole moment. Journal of Molecular Spectroscopy, 1972, 44, 594-598.	1.2	27

#	ARTICLE	IF	CITATIONS
19	Millimeter-wave spectra of CaSH and CaSD. Journal of Chemical Physics, 1996, 104, 7431-7436.	3.0	27
20	Infrared-microwave double resonance studies of collision-induced transitions and energy transfer processes between vibration-rotation-inversion levels of NH <sub>3</sub> . Journal of Chemical Physics, 1976, 64, 4711-4718.	3.0	26
21	High-resolution laser spectroscopy of the $\hat{1}/2_3$ vibration-rotation band of HCOOH. Journal of Chemical Physics, 1982, 77, 714-722.	3.0	24
22	High-resolution infrared absorption spectroscopy of jet-cooled molecular ions. Chemical Physics Letters, 1994, 230, 561-566.	2.6	24
23	The Lowest Submillimeter-Wave Transitions of CH: The Laboratory Measurement of the Rest Frequencies. Astrophysical Journal, 2000, 531, L161-L164.	4.5	23
24	The Detection and Mapping Observations of C <sub>2</sub> H <sub>5</sub> OH in Orion Kleinmann-Low. Astrophysical Journal, 1995, 446, L43.	4.5	22
25	Pathways and reduced-dimension five-dimensional potential energy surface for the reactions H <sub>3</sub> <sup>++</sup> CO <sup>+</sup> H <sub>2</sub> +HCO <sup>+</sup> and H <sub>3</sub> <sup>++</sup> CO <sup>+</sup> H <sub>2</sub> +HOC <sup>+</sup> . Journal of Chemical Physics, 2008, 129, 244306.	3.0	20
26	Observation of the $\hat{1}/2_1$ fundamental band of DCNH <sup>+</sup> . Journal of Chemical Physics, 1984, 81, 3350-3351.	3.0	18
27	The microwave spectrum of SO <sup>+</sup> . Journal of Molecular Spectroscopy, 1991, 146, 519-523.	1.2	17
28	Observation of Transient Nutation Effect in Microwave Transitions of Ammonia Molecule. Journal of the Physical Society of Japan, 1973, 35, 237-241.	1.6	16
29	Microwave spectrum of <sup>35</sup> ClO in the excited vibrational state and a comment on the centrifugal distortion constant. Journal of Molecular Spectroscopy, 1977, 66, 185-187.	1.2	15
30	Collisional relaxation among rotational levels of NH <sub>3</sub> studied by infrared-microwave double resonance. Chemical Physics Letters, 1974, 25, 119-121.	2.6	14
31	Microwave-optical double resonance of DNO in the $\hat{A}^1\hat{A}^3(000)$ state. Journal of Chemical Physics, 1984, 81, 5449-5452.	3.0	14
32	Observation of the $2\hat{1}/2_1$ band of HN <sub>2</sub> with a 1.57 $\hat{1}/4$ m distributed feedback semiconductor laser. Journal of Chemical Physics, 1990, 92, 2248-2250.	3.0	14
33	Electric dipole moment of H <sub>2</sub> O in the $\hat{1}/2_2$ excited vibrational state. Journal of Chemical Physics, 1981, 75, 4869-4872.	3.0	13
34	Vibrational predissociation of H <sub>5</sub> <sup>+</sup> . Journal of Chemical Physics, 2006, 124, 244303.	3.0	12
35	Adiabatic rapid passage in microwave-microwave double resonance on a three-level system of the OCS molecule. Chemical Physics Letters, 1976, 42, 278-282.	2.6	11
36	Determination of linewidths and T <sub>1</sub> /T <sub>2</sub> ratios for inversion transitions in NH <sub>3</sub> broadened by H <sub>2</sub> . Journal of Chemical Physics, 1980, 73, 1238-1243.	3.0	11

#	ARTICLE	IF	CITATIONS
37	High-resolution Sub-Doppler Lamb Dips of the $\text{H}_2$ Fundamental Band of $\text{H}_2$ Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2943-2952.	7.8	11
38	Submillimetre-wave lines of $\text{H}_2\text{D}^+$ and $\text{D}_2\text{H}^+$ as probes into chemistry in cold dark clouds. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2943-2952.	3.4	10
39	Observation of the transient phenomena in infrared-microwave double resonance and measurement of T1 of $\text{NH}_3$ . Chemical Physics Letters, 1976, 37, 585-588.	2.6	4
40	What Makes "Science" Science?. Molecular Science, 2007, 1, A0004.	0.2	1
41	Precise frequency measurement of terahertz lines of astronomically interesting molecules and ions. , 2015, , .		0