

# Takayoshi Amano

## List of Publications by Year in descending order

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41  
papers

1,401  
citations

304743

22  
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330143

37  
g-index

42  
all docs

42  
docs citations

42  
times ranked

756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise frequency measurement of terahertz lines of astronomically interesting molecules and ions. , 2015, , . High-Resolution Sub-Doppler Lamb Dips of the		0
2	Band of $\text{H}_2^+$ Fundamental	7.8	11
3	Pathways and reduced-dimension five-dimensional potential energy surface for the reactions $\text{H}_3^+ + \text{CO}^+ \rightarrow \text{H}_2 + \text{HCO}^+$ and $\text{H}_3^+ + \text{CO}^+ \rightarrow \text{H}_2 + \text{HOC}^+$ . Journal of Chemical Physics, 2008, 129, 244306.	3.0	20
4	What Makes Science Science?. Molecular Science, 2007, 1, A0004.	0.2	1
5	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
6	Vibrational predissociation of $\text{H}_5^+$ . Journal of Chemical Physics, 2006, 124, 244303.	3.0	12
7	The Lowest Submillimeter-Wave Transitions of CH: The Laboratory Measurement of the Rest Frequencies. Astrophysical Journal, 2000, 531, L161-L164.	4.5	23
8	Millimeter-wave spectra of CaSH and CaSD. Journal of Chemical Physics, 1996, 104, 7431-7436.	3.0	27
9	Detection of A New Interstellar Molecular Ion, $\text{H}_2\text{COH}^+$ (Protonated)	4.5	51
10	The Detection and Mapping Observations of $\text{C}_2\text{H}_5\text{OH}$ in Orion Kleinmann-Low. Astrophysical Journal, 1995, 446, L43.	4.5	22
11	High-resolution infrared absorption spectroscopy of jet-cooled molecular ions. Chemical Physics Letters, 1994, 230, 561-566.	2.6	24
12	Millimeter-wave spectrum of NCS radical in the ground $2^1\Sigma^+$ state. Journal of Chemical Physics, 1991, 95, 2275-2279.	3.0	35
13	The microwave spectrum of $\text{SO}^+$ . Journal of Molecular Spectroscopy, 1991, 146, 519-523.	1.2	17
14	Observation of the $2^1\Sigma^+_{g,1}$ band of $\text{HN}_2$ with a 1.57 $\mu\text{m}$ distributed feedback semiconductor laser. Journal of Chemical Physics, 1990, 92, 2248-2250.	3.0	14
15	Microwave-optical double resonance of DNO in the $\text{A}^1\Sigma^+_g(000)$ state. Journal of Chemical Physics, 1984, 81, 5449-5452.	3.0	14
16	Observation of the $1^1\Sigma^+_g$ fundamental band of $\text{H}_2\text{D}^+$ . Journal of Chemical Physics, 1984, 81, 2869-2871.	3.0	66
17	Observation of the $1^1\Sigma^+_g$ fundamental band of $\text{DCNH}^+$ . Journal of Chemical Physics, 1984, 81, 3350-3351.	3.0	18
18	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

#	ARTICLE	IF	CITATIONS
19	Difference frequency spectroscopy of the fundamental band of CH( $\hat{X}^2\hat{I}$ ). Journal of Chemical Physics, 1984, 81, 1655-1660.	3.0	28
20	The $\hat{I}^2_1$ 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
21	The $\hat{I}^2_1$ fundamental band of HCO <sup>+</sup> by difference frequency laser spectroscopy. Journal of Chemical Physics, 1983, 79, 3595-3595.	3.0	90
22	Difference frequency laser spectroscopy of the $\hat{I}^2_3$ band of the CH <sub>3</sub> radical. Journal of Chemical Physics, 1982, 77, 5284-5287.	3.0	102
23	High-resolution laser spectroscopy of the $\hat{I}^2_3$ vibration-rotation band of HCOOH. Journal of Chemical Physics, 1982, 77, 714-722.	3.0	24
24	Difference frequency laser spectroscopy of the $\nu = 1 \hat{A}^1_0$ transition of NH. Journal of Molecular Spectroscopy, 1982, 95, 359-364.	1.2	35
25	Electric dipole moment of H <sub>2</sub> O in the $\hat{I}^2_2$ excited vibrational state. Journal of Chemical Physics, 1981, 75, 4869-4872.	3.0	13
26	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
27	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
28	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
29	Observation of the transient phenomena in infrared-microwave double resonance and measurement of T <sub>1</sub> of NH <sub>3</sub> . Chemical Physics Letters, 1976, 37, 585-588.	2.6	4
30	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
31	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
32	Microwave spectrum of the molecular oxygen in the excited vibrational state. Journal of Molecular Spectroscopy, 1974, 53, 346-363.	1.2	81
33	Microwave spectrum of the SF radical. Journal of Molecular Spectroscopy, 1973, 45, 417-419.	1.2	29
34	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
35	Hyperfine Interactions of the Free NCO Radical in the $\hat{I}^2$ Vibronic State ( $\nu_2 = 1$ ). Journal of Chemical Physics, 1972, 57, 5608-5610.	3.0	31
36	Microwave spectrum of the BrO radical equilibrium structure and dipole moment. Journal of Molecular Spectroscopy, 1972, 44, 594-598.	1.2	27

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37	Microwave spectrum of the NCO radical. Journal of Molecular Spectroscopy, 1970, 34, 383-389.	1.2	64
38	Hyperfine interactions and $\hat{I}$ -type doubling in the microwave spectrum of the NS radical. Journal of Molecular Spectroscopy, 1969, 32, 97-107.	1.2	77
39	Microwave spectrum of the ClO radical. Journal of Molecular Spectroscopy, 1969, 30, 275-289.	1.2	74
40	Microwave spectrum of the ClO radical. Journal of Molecular Spectroscopy, 1968, 27, 257-265.	1.2	38
41	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