Hideyo Kawakita

List of Publications by Year
in descending order

53	1,423	361413	330143
papers	citations	20 h-index	37 g-index

54	54	54	1177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Volatile Abundances, Extended Coma Sources, and Nucleus Ice Associations in Comet C/2014 Q2 (Lovejoy). Planetary Science Journal, 2022, 3, 6.	3.6	4
2	Highly Sensitive, Non-cryogenic NIR High-resolution Spectrograph, WINERED. Publications of the Astronomical Society of the Pacific, 2022, 134, 015004.	3.1	11
3	Photodissociation Rate, Excess Energy, and Kinetic Total Energy Release for the Photolysis of H₂O Producing O(¹S) by Solar UV Radiation Field. Astrophysical Journal, 2022, 931, 24.	4.5	3
4	Quantifying the Hypervolatile Abundances in Jupiter-family Comet 46P/Wirtanen. Planetary Science Journal, 2021, 2, 21.	3.6	11
5	Testing Short-term Variability and Sampling of Primary Volatiles in Comet 46P/Wirtanen. Planetary Science Journal, 2021, 2, 20.	3.6	10
6	First Comet Observations with NIRSPEC-2 at Keck: Outgassing Sources of Parent Volatiles and Abundances Based on Alternative Taxonomic Compositional Baselines in 46P/Wirtanen. Planetary Science Journal, 2021, 2, 45.	3.6	22
7	The Volatile Composition of the Inner Coma of Comet 46P/Wirtanen: Coordinated Observations Using iSHELL at the NASA-IRTF and Keck/NIRSPEC-2. Planetary Science Journal, 2021, 2, 54.	3.6	6
8	Relevant Coma Composition Investigations for the Comet Interceptor Mission. Research Notes of the AAS, 2021, 5, 88.	0.7	0
9	Absorption Lines in the 0.91â€“1.33 Î¼m Spectra of Red Giants for Measuring Abundances of Mg, Si, Ca, Ti, Cr, and Ni. Astrophysical Journal, 2021, 913, 62.	4.5	8
10	Detection of ⁷Be ii in the Classical Nova V5669 Sgr (Nova Sagittarii 2015 No.3). Astrophysical Journal, 2021, 916, 44.	4.5	4
11	Chemical Composition of Outbursting Comet C/2015 ER61 (PanSTARRS). Astronomical Journal, 2021, 162, 145.	4.7	7
12	Effective temperatures of red supergiants estimated from line-depth ratios of iron lines in the YJ bands, 0.97-1.32Î¼m. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4210-4226.	4.4	13
13	Volatile Composition and Outgassing in C/2018 Y1 (Iwamoto): Extending Limits for High-resolution Infrared Cometary Spectroscopy between 2.8 and 5.0 Î¼m. Planetary Science Journal, 2021, 2, 225.	3.6	3
14	Post-perihelion volatile production and release from Jupiter-family comet 45P/Honda-Mrkos-PajduÅ¡Ã¡kovÃ¡. Icarus, 2020, 335, 113411.	2.5	17
15	Unidentified infrared emission features in mid-infrared spectrum of comet 21P/Giacobini-Zinner. Icarus, 2020, 338, 113450.	2.5	16
16	Identification of Absorption Lines of Heavy Metals in the Wavelength Range 0.97â€“1.32 Î¼m. Astrophysical Journal, Supplement Series, 2020, 246, 10.	7.7	10
17	The effect of surface gravity on line-depth ratios in the wavelength range 0.97â€“1.32ÂÂµm. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1724-1734.	4.4	7
18	Probing the Evolutionary History of Comets: An Investigation of the Hypervolatiles CO, CH₄, and C₂H₆ in the Jupiter-family Comet 21P/Giacobiniâ€“Zinner. Astronomical Journal, 2020, 159, 42.	4.7	23

#	Article	IF	Citations
19	High-resolution Optical Spectroscopic Observations of Comet 21P/Giacobiniâ€“Zinner in Its 2018 Apparition. Astronomical Journal, 2020, 159, 203.	4.7	6
20	Carbonyl Sulfide (OCS): Detections in Comets C/2002 T7 (LINEAR), C/2015 ER61 (PanSTARRS), and 21P/Giacobiniâ€“Zinner and Stringent Upper Limits in 46P/Wirtanen. Astronomical Journal, 2020, 160, 184.	4.7	17
21	Mg ii and Fe ii Fluxes of Luminous Quasars at zÂâˆ¼Â2.7 and the Evaluation of the Baldwin Effect in the Flux-to-abundance Conversion Method for Quasars. Astrophysical Journal, 2020, 904, 162.	4.5	10
22	The Peculiar Volatile Composition of CO-dominated Comet C/2016 R2 (PanSTARRS). Astronomical Journal, 2019, 158, 128.	4.7	55
23	First Detection of Aâ€“X (0,0) Bands of Interstellar C₂ and CN. Astrophysical Journal, 2019, 881, 143.	4.5	9
24	Fe i Lines in 0.91â€“1.33 Î¼m Spectra of Red Giants for Measuring the Microturbulence and Metallicities. Astrophysical Journal, 2019, 875, 129.	4.5	14
25	Possible Progression of Mass-flow Processes around Young Intermediate-mass Stars Based on High-resolution Near-infrared Spectroscopy. I. Taurus. Astrophysical Journal, 2019, 886, 115.	4.5	6
26	Evolution of H2O production in comet C/2012 S1 (ISON) as inferred from forbidden oxygen and OH emission. Icarus, 2018, 309, 1-12.	2.5	10
27	WINERED High-resolution Near-infrared Line Catalog: A-type Star. Astrophysical Journal, Supplement Series, 2018, 239, 19.	7.7	2
28	Mid-infrared Spectroscopic Observations of Comet 17P/Holmes Immediately After Its Great Outburst in 2007 October. Astronomical Journal, 2018, 156, 242.	4.7	9
29	A Tale of â€œTwoâ€•Comets: The Primary Volatile Composition of Comet 2P/Encke Across Apparitions and Implications for Cometary Science. Astronomical Journal, 2018, 156, 251.	4.7	27
30	Correction of Near-infrared High-resolution Spectra for Telluric Absorption at 0.90â€“1.35 Î¼m. Publications of the Astronomical Society of the Pacific, 2018, 130, 074502.	3.1	22
31	Method to estimate the effective temperatures of late-type giants using line-depth ratios in the wavelength range 0.97â€“1.32ÂÎ¼m. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4993-5001.	4.4	18
32	Very high-sensitive NIR high-resolution spectrograph WINERED: on-going observations at NTT. , 2018, , .		5
33	Hydrogenation and Deuteration of C₂H₂ and C₂H₄ on Cold Grains: A Clue to the Formation Mechanism of C₂H₆ with Astronomical Interest. Astrophysical Journal, 2017, 837, 155.	4.5	26
34	Hypervolatiles in a Jupiter-family Comet: Observations of 45P/Hondaâ€“Mrkosâ€“PajduÅ¡Ã¡kovÃ¡ Using iSHELL at the NASA-IRTF. Astronomical Journal, 2017, 154, 246.	4.7	34
35	THE ⁷Be ii RESONANCE LINES IN TWO CLASSICAL NOVAE V5668 SGR AND V2944 OPH. Astrophysical Journal, 2016, 818, 191.	4.5	48
36	Nitrogen isotopic ratios of NH₂in comets: implication for¹⁵N-fractionation in cometary ammonia. Monthly Notices of the Royal Astronomical Society, 2016, 462, S195-S209.	4.4	36

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37	Emerging trends and a comet taxonomy based on the volatile chemistry measured in thirty comets with high-resolution infrared spectroscopy between 1997 and 2013. Icarus, 2016, 278, 301-332.	2.5	116
38	NITROGEN ISOTOPIC RATIO OF COMETARY AMMONIA FROM HIGH-RESOLUTION OPTICAL SPECTROSCOPIC OBSERVATIONS OF C/2014 Q2 (LOVEJOY). Astronomical Journal, 2016, 152, 145.	4.7	7
39	High sensitivity, wide coverage, and high-resolution NIR non-cryogenic spectrograph, WINERED. Proceedings of SPIE, 2016, , .	0.8	29
40	NEAR-INFRARED DIFFUSE INTERSTELLAR BANDS IN 0.91-1.32 Î¼m. Astrophysical Journal, 2015, 800, 137.	4.5	28
41	EXTREMELY ORGANIC-RICH COMA OF COMET C/2010 G2 (HILL) DURING ITS OUTBURST IN 2012. Astrophysical Journal, 2014, 788, 110.	4.5	18
42	Parent volatiles in Comet 103P/Hartley 2 observed by Keck II with NIRSPEC during the 2010 apparition. Icarus, 2013, 222, 723-733.	2.5	33
43	A high-resolution infrared spectral survey of 103P/Hartley 2 on the night of the EPOXI closest approach. Icarus, 2013, 222, 707-722.	2.5	17
44	Dome flat-field system for 1.3-m Araki Telescope. Proceedings of SPIE, 2012, , .	0.8	7
45	COMETARY VOLATILES AND THE ORIGIN OF COMETS. Astrophysical Journal, 2012, 758, 29.	4.5	130
46	AKARINEAR-INFRARED SPECTROSCOPIC SURVEY FOR CO₂IN 18 COMETS. Astrophysical Journal, 2012, 752, 15.	4.5	157
47	FLUORESCENCE EXCITATION MODELS OF AMMONIA AND AMIDOGEN RADICAL (NH₂) IN COMETS: APPLICATION TO COMET C/2004 Q2 (MACHHOLZ). Astrophysical Journal, 2011, 727, 91.	4.5	38
48	Revisit to the Nuclear Spin Temperature of NH$_{3}$ in Comet C/2001 Q4 (NEAT) Based on High-Dispersion Spectra of Cometary NH$_{2}$. Publication of the Astronomical Society of Japan, 2010, 62, 263-271.	2.5	10
49	IRCS/Subaru observations of water in the inner coma of Comet 73P-B/Schwassmannâ€“Wachmann 3: Spatially resolved rotational temperatures and orthoâ€“para ratios. Icarus, 2008, 196, 241-248.	2.5	29
50	Organic Volatiles in Comet 73P-B/Schwassmann-Wachmann 3 Observed during Its Outburst: A Clue to the Formation Region of the Jupiter-Family Comets. Astrophysical Journal, 2007, 668, L75-L78.	4.5	43
51	Nuclear Spin Temperature and Deuterium-to-Hydrogen Ratio of Methane in Comet C/2001 Q4 (NEAT). Astrophysical Journal, 2005, 623, L49-L52.	4.5	50
52	Parent Volatiles in Comet 9P/Tempel 1: Before and After Impact. Science, 2005, 310, 270-274.	12.6	168
53	Moderate Dispersion Spectra of NH2 in Comet Hale-Bopp: Analysis of Population Distribution in $widetilde X^{2} extrm B_{1}(0,0,0)$ State of NH 2. Publication of the Astronomical Society of Japan, 2000, 52, 925-930.	2.5	14