

Hideyo Kawakita

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,423
citations

361413

20
h-index

330143

37
g-index

54
all docs

54
docs citations

54
times ranked

1177
citing authors

#	ARTICLE	IF	CITATIONS
1	Parent Volatiles in Comet 9P/Tempel 1: Before and After Impact. <i>Science</i> , 2005, 310, 270-274.	12.6	168
2	<i>AKARI</i> NEAR-INFRARED SPECTROSCOPIC SURVEY FOR CO₂ IN 18 COMETS. <i>Astrophysical Journal</i> , 2012, 752, 15.	4.5	157
3	COMETARY VOLATILES AND THE ORIGIN OF COMETS. <i>Astrophysical Journal</i> , 2012, 758, 29.	4.5	130
4	Emerging trends and a comet taxonomy based on the volatile chemistry measured in thirty comets with high-resolution infrared spectroscopy between 1997 and 2013. <i>Icarus</i> , 2016, 278, 301-332.	2.5	116
5	The Peculiar Volatile Composition of CO-dominated Comet C/2016 R2 (PanSTARRS). <i>Astronomical Journal</i> , 2019, 158, 128.	4.7	55
6	Nuclear Spin Temperature and Deuterium-to-Hydrogen Ratio of Methane in Comet C/2001 Q4 (NEAT). <i>Astrophysical Journal</i> , 2005, 623, L49-L52.	4.5	50
7	THE ⁷Be ii RESONANCE LINES IN TWO CLASSICAL NOVAE V5668 SGR AND V2944 OPH. <i>Astrophysical Journal</i> , 2016, 818, 191.	4.5	48
8	Organic Volatiles in Comet 73P-B/Schwassmann-Wachmann 3 Observed during Its Outburst: A Clue to the Formation Region of the Jupiter-Family Comets. <i>Astrophysical Journal</i> , 2007, 668, L75-L78.	4.5	43
9	FLUORESCENCE EXCITATION MODELS OF AMMONIA AND AMIDOGEN RADICAL (NH₂) IN COMETS: APPLICATION TO COMET C/2004 Q2 (MACHHOLZ). <i>Astrophysical Journal</i> , 2011, 727, 91.	4.5	38
10	Nitrogen isotopic ratios of NH₂ in comets: implication for ¹⁵N-fractionation in cometary ammonia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S195-S209.	4.4	36
11	Hypervolatiles in a Jupiter-family Comet: Observations of 45P/Hondaâ€“Mrkosâ€“PajduÅ¡kovÅ¡ Using iSHELL at the NASA-IRTF. <i>Astronomical Journal</i> , 2017, 154, 246.	4.7	34
12	Parent volatiles in Comet 103P/Hartley 2 observed by Keck II with NIRSPEC during the 2010 apparition. <i>Icarus</i> , 2013, 222, 723-733.	2.5	33
13	IRCS/Subaru observations of water in the inner coma of Comet 73P-B/Schwassmannâ€“Wachmann 3: Spatially resolved rotational temperatures and orthoâ€“para ratios. <i>Icarus</i> , 2008, 196, 241-248.	2.5	29
14	High sensitivity, wide coverage, and high-resolution NIR non-cryogenic spectrograph, WINERED. <i>Proceedings of SPIE</i> , 2016, , .	0.8	29
15	NEAR-INFRARED DIFFUSE INTERSTELLAR BANDS IN 0.91-1.32 Î¼m. <i>Astrophysical Journal</i> , 2015, 800, 137.	4.5	28
16	A Tale of â€œTwoâ€•Comets: The Primary Volatile Composition of Comet 2P/Encke Across Apparitions and Implications for Cometary Science. <i>Astronomical Journal</i> , 2018, 156, 251.	4.7	27
17	Hydrogenation and Deuteration of C₂H₂ and C₂H₄ on Cold Grains: A Clue to the Formation Mechanism of C₂H₆ with Astronomical Interest. <i>Astrophysical Journal</i> , 2017, 837, 155.	4.5	26
18	Probing the Evolutionary History of Comets: An Investigation of the Hypervolatiles CO, CH₄, and C₂H₆ in the Jupiter-family Comet 21P/Giacobiniâ€“Zinner. <i>Astronomical Journal</i> , 2020, 159, 42.	4.7	23

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19	Correction of Near-infrared High-resolution Spectra for Telluric Absorption at 0.90–1.35 μm . Publications of the Astronomical Society of the Pacific, 2018, 130, 074502.	3.1	22
20	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
21	EXTREMELY ORGANIC-RICH COMA OF COMET C/2010 G2 (HILL) DURING ITS OUTBURST IN 2012. Astrophysical Journal, 2014, 788, 110.	4.5	18
22	Method to estimate the effective temperatures of late-type giants using line-depth ratios in the wavelength range 0.97–1.32 μm . Monthly Notices of the Royal Astronomical Society, 2018, 473, 4993-5001.	4.4	18
23	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
24	Post-perihelion volatile production and release from Jupiter-family comet 45P/Honda-Mrkos-Pajduřkov. Icarus, 2020, 335, 113411.	2.5	17
25	Carbonyl Sulfide (OCS): Detections in Comets C/2002 T7 (LINEAR), C/2015 ER61 (PanSTARRS), and 21P/Giacobini-Zinner and Stringent Upper Limits in 46P/Wirtanen. Astronomical Journal, 2020, 160, 184.	4.7	17
26	Unidentified infrared emission features in mid-infrared spectrum of comet 21P/Giacobini-Zinner. Icarus, 2020, 338, 113450.	2.5	16
27	Moderate Dispersion Spectra of NH ₂ in Comet Hale-Bopp: Analysis of Population Distribution in $X^2(0,0,0)$ State of NH ₂ . Publication of the Astronomical Society of Japan, 2000, 52, 925-930.	2.5	14
28	Fe I Lines in 0.91–1.33 μm Spectra of Red Giants for Measuring the Microturbulence and Metallicities. Astrophysical Journal, 2019, 875, 129.	4.5	14
29	Effective temperatures of red supergiants estimated from line-depth ratios of iron lines in the λ bands, 0.97-1.32 μm . Monthly Notices of the Royal Astronomical Society, 2021, 502, 4210-4226.	4.4	13
30	Quantifying the Hypervolatile Abundances in Jupiter-family Comet 46P/Wirtanen. Planetary Science Journal, 2021, 2, 21.	3.6	11
31	Highly Sensitive, Non-cryogenic NIR High-resolution Spectrograph, WINERED. Publications of the Astronomical Society of the Pacific, 2022, 134, 015004.	3.1	11
32	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
33	Evolution of H ₂ O production in comet C/2012 S1 (ISON) as inferred from forbidden oxygen and OH emission. Icarus, 2018, 309, 1-12.	2.5	10
34	Identification of Absorption Lines of Heavy Metals in the Wavelength Range 0.97–1.32 μm . Astrophysical Journal, Supplement Series, 2020, 246, 10.	7.7	10
35	Testing Short-term Variability and Sampling of Primary Volatiles in Comet 46P/Wirtanen. Planetary Science Journal, 2021, 2, 20.	3.6	10
36	Mg II and Fe II Fluxes of Luminous Quasars at $z \sim 2.7$ and the Evaluation of the Baldwin Effect in the Flux-to-abundance Conversion Method for Quasars. Astrophysical Journal, 2020, 904, 162.	4.5	10

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37	Mid-infrared Spectroscopic Observations of Comet 17P/Holmes Immediately After Its Great Outburst in 2007 October. <i>Astronomical Journal</i> , 2018, 156, 242.	4.7	9
38	First Detection of $X(0,0)$ Bands of Interstellar C_2 and CN. <i>Astrophysical Journal</i> , 2019, 881, 143.	4.5	9
39	Absorption Lines in the $0.91\text{--}1.33\ \mu\text{m}$ Spectra of Red Giants for Measuring Abundances of Mg, Si, Ca, Ti, Cr, and Ni. <i>Astrophysical Journal</i> , 2021, 913, 62.	4.5	8
40	Dome flat-field system for 1.3-m Araki Telescope. <i>Proceedings of SPIE</i> , 2012, , .	0.8	7
41	NITROGEN ISOTOPIC RATIO OF COMETARY AMMONIA FROM HIGH-RESOLUTION OPTICAL SPECTROSCOPIC OBSERVATIONS OF C/2014 Q2 (LOVEJOY). <i>Astronomical Journal</i> , 2016, 152, 145.	4.7	7
42	The effect of surface gravity on line-depth ratios in the wavelength range $0.97\text{--}1.32\ \mu\text{m}$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1724-1734.	4.4	7
43	Chemical Composition of Outbursting Comet C/2015 ER61 (PanSTARRS). <i>Astronomical Journal</i> , 2021, 162, 145.	4.7	7
44	The Volatile Composition of the Inner Coma of Comet 46P/Wirtanen: Coordinated Observations Using iSHELL at the NASA-IRTF and Keck/NIRSPEC-2. <i>Planetary Science Journal</i> , 2021, 2, 54.	3.6	6
45	High-resolution Optical Spectroscopic Observations of Comet 21P/Giacobini-Zinner in Its 2018 Apparition. <i>Astronomical Journal</i> , 2020, 159, 203.	4.7	6
46	Possible Progression of Mass-flow Processes around Young Intermediate-mass Stars Based on High-resolution Near-infrared Spectroscopy. I. Taurus. <i>Astrophysical Journal</i> , 2019, 886, 115.	4.5	6
47	Very high-sensitive NIR high-resolution spectrograph WINERED: on-going observations at NTT. , 2018, , .		5
48	Detection of ^7Be ii in the Classical Nova V5669 Sgr (Nova Sagittarii 2015 No.3). <i>Astrophysical Journal</i> , 2021, 916, 44.	4.5	4
49	Volatile Abundances, Extended Coma Sources, and Nucleus Ice Associations in Comet C/2014 Q2 (Lovejoy). <i>Planetary Science Journal</i> , 2022, 3, 6.	3.6	4
50	Volatile Composition and Outgassing in C/2018 Y1 (Iwamoto): Extending Limits for High-resolution Infrared Cometary Spectroscopy between 2.8 and $5.0\ \mu\text{m}$. <i>Planetary Science Journal</i> , 2021, 2, 225.	3.6	3
51	Photodissociation Rate, Excess Energy, and Kinetic Total Energy Release for the Photolysis of H_2O Producing $\text{O}^+ \text{S}$ by Solar UV Radiation Field. <i>Astrophysical Journal</i> , 2022, 931, 24.	4.5	3
52	WINERED High-resolution Near-infrared Line Catalog: A-type Star. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 19.	7.7	2
53	Relevant Coma Composition Investigations for the Comet Interceptor Mission. <i>Research Notes of the AAS</i> , 2021, 5, 88.	0.7	0