

Hajime Kawahara

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,560
citations

304743

22
h-index

330143

37
g-index

48
all docs

48
docs citations

48
times ranked

1906
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution Spectroscopic Detection of TiO and a Stratosphere in the Day-side of WASP-33b. <i>Astronomical Journal</i> , 2017, 154, 221.	4.7	157
2	COLORS OF A SECOND EARTH: ESTIMATING THE FRACTIONAL AREAS OF OCEAN, LAND, AND VEGETATION OF EARTH-LIKE EXOPLANETS. <i>Astrophysical Journal</i> , 2010, 715, 866-880.	4.5	102
3	Systematic X-Ray Analysis of Radio Relic Clusters with Suzaku. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, .	2.5	102
4	THEORETICAL EMISSION SPECTRA OF ATMOSPHERES OF HOT ROCKY SUPER-EARTHS. <i>Astrophysical Journal</i> , 2015, 801, 144.	4.5	99
5	MAPPING EARTH ANALOGS FROM PHOTOMETRIC VARIABILITY: SPIN-ORBIT TOMOGRAPHY FOR PLANETS IN INCLINED ORBITS. <i>Astrophysical Journal</i> , 2012, 755, 101.	4.5	86
6	GLOBAL MAPPING OF EARTH-LIKE EXOPLANETS FROM SCATTERED LIGHT CURVES. <i>Astrophysical Journal</i> , 2010, 720, 1333-1350.	4.5	76
7	TRANSITING PLANET CANDIDATES BEYOND THE SNOW LINE DETECTED BY VISUAL INSPECTION OF 7557 KEPLER OBJECTS OF INTEREST. <i>Astrophysical Journal</i> , 2016, 822, 2.	4.5	65
8	COLORS OF A SECOND EARTH. II. EFFECTS OF CLOUDS ON PHOTOMETRIC CHARACTERIZATION OF EARTH-LIKE EXOPLANETS. <i>Astrophysical Journal</i> , 2011, 738, 184.	4.5	61
9	LIFETIME AND SPECTRAL EVOLUTION OF A MAGMA OCEAN WITH A STEAM ATMOSPHERE: ITS DETECTABILITY BY FUTURE DIRECT IMAGING. <i>Astrophysical Journal</i> , 2015, 806, 216.	4.5	60
10	MAPPING CLOUDS AND TERRAIN OF EARTH-LIKE PLANETS FROM PHOTOMETRIC VARIABILITY: DEMONSTRATION WITH PLANETS IN FACE-ON ORBITS. <i>Astrophysical Journal Letters</i> , 2011, 739, L62.	8.3	56
11	Searching for thermal inversion agents in the transmission spectrum of KELT-20b/MASCARA-2b: detection of neutral iron and ionised calcium H&K lines. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 504-522.	4.4	53
12	Toward Detection of Exoplanetary Rings via Transit Photometry: Methodology and a Possible Candidate. <i>Astronomical Journal</i> , 2017, 153, 193.	4.7	44
13	The infrared Doppler (IRD) instrument for the Subaru telescope: instrument description and commissioning results. , 2018, , .		44
14	Detection of Fe i Emission in the Dayside Spectrum of WASP-33b*. <i>Astrophysical Journal Letters</i> , 2020, 898, L31.	8.3	43
15	STARSPOTS-TRANSIT DEPTH RELATION OF THE EVAPORATING PLANET CANDIDATE KIC 12557548b. <i>Astrophysical Journal Letters</i> , 2013, 776, L6.	8.3	37
16	Infrared Doppler instrument (IRD) for the Subaru telescope to search for Earth-like planets around nearby M-dwarfs. <i>Proceedings of SPIE</i> , 2014, , .	0.8	36
17	First Detection of Hydroxyl Radical Emission from an Exoplanet Atmosphere: High-dispersion Characterization of WASP-33b Using Subaru/IRD. <i>Astrophysical Journal Letters</i> , 2021, 910, L9.	8.3	36
18	Self-lensing Discovery of a 0.2 M _☉ White Dwarf in an Unusually Wide Orbit around a Sun-like Star. <i>Astrophysical Journal Letters</i> , 2019, 881, L3.	8.3	33

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19	Mutual Orbital Inclinations between Cold Jupiters and Inner Super-Earths. <i>Astronomical Journal</i> , 2020, 159, 38.	4.7	33
20	CAN GROUND-BASED TELESCOPES DETECT THE OXYGEN 1.27 μ m ABSORPTION FEATURE AS A BIOMARKER IN EXOPLANETS?. <i>Astrophysical Journal</i> , 2012, 758, 13.	4.5	30
21	FREQUENCY MODULATION OF DIRECTLY IMAGED EXOPLANETS: GEOMETRIC EFFECT AS A PROBE OF PLANETARY OBLIQUITY. <i>Astrophysical Journal</i> , 2016, 822, 112.	4.5	28
22	Suzaku observations of the galaxy cluster 1RXS J0603.3+4214: Implications of particle acceleration processes in the "Toothbrush" radio relic. <i>Publication of the Astronomical Society of Japan</i> , 2015, 67, .	2.5	26
23	Transiting Planets Near the Snow Line from Kepler. I. Catalog [^] . <i>Astronomical Journal</i> , 2019, 157, 218.	4.7	25
24	SPECTROSCOPIC CORONAGRAPHY FOR PLANETARY RADIAL VELOCIMETRY OF EXOPLANETS. <i>Astrophysical Journal</i> , Supplement Series, 2014, 212, 27.	7.7	23
25	Discovery of Three Self-lensing Binaries from Kepler. <i>Astronomical Journal</i> , 2018, 155, 144.	4.7	23
26	SCEXAO, an instrument with a dual purpose: perform cutting-edge science and develop new technologies. , 2018, .		23
27	Dippers from the TESS Full-frame Images. I. Results of the First One Year Data and Discovery of a Runaway Dipper. <i>Astrophysical Journal</i> , Supplement Series, 2020, 251, 18.	7.7	18
28	A Linear and Quadratic Time-Frequency Analysis of Gravitational Waves from Core-collapse Supernovae. <i>Astrophysical Journal</i> , 2018, 867, 126.	4.5	17
29	Global Mapping of an Exo-Earth Using Sparse Modeling. <i>Astrophysical Journal</i> , 2020, 896, 22.	4.5	15
30	THE SPIN EFFECT ON PLANETARY RADIAL VELOCIMETRY OF EXOPLANETS. <i>Astrophysical Journal Letters</i> , 2012, 760, L13.	8.3	14
31	ABSOLUTE DIMENSIONS OF A FLAT HIERARCHICAL TRIPLE SYSTEM KIC 6543674 FROM THE <i>KEPLER</i> PHOTOMETRY. <i>Astrophysical Journal Letters</i> , 2015, 806, L37.	8.3	12
32	Systematic Search for Rings around Kepler Planet Candidates: Constraints on Ring Size and Occurrence Rate. <i>Astronomical Journal</i> , 2018, 155, 206.	4.7	12
33	Global Mapping of the Surface Composition on an Exo-Earth Using Color Variability. <i>Astrophysical Journal</i> , 2020, 894, 58.	4.5	12
34	Extremely high-contrast, high spectral resolution spectrometer REACH for the Subaru Telescope. , 2020, .		9
35	SUZAKU OBSERVATION OF A NEW MERGING GROUP OF GALAXIES AT A FILAMENTARY JUNCTION. <i>Astrophysical Journal Letters</i> , 2011, 727, L38.	8.3	8
36	Bayesian Dynamic Mapping of an Exo-Earth from Photometric Variability. <i>Astrophysical Journal</i> , 2020, 900, 48.	4.5	7

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37	Back to "Normal" for the Disintegrating Planet Candidate KIC 12557548 b. <i>Astronomical Journal</i> , 2018, 156, 281.	4.7	6
38	Neutral Metals in the Atmosphere of HD 149026b. <i>Astronomical Journal</i> , 2021, 161, 153.	4.7	6
39	Obliquity of an Earth-like Planet from Frequency Modulation of Its Direct-imaged Lightcurve: Mock Analysis from General Circulation Model Simulation. <i>Astrophysical Journal</i> , 2020, 898, 95.	4.5	5
40	Autodifferentiable Spectrum Model for High-dispersion Characterization of Exoplanets and Brown Dwarfs. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 31.	7.7	5
41	Global Mapping of Surface Composition on an Exo-Earth Using Sparse Modeling. <i>Astrophysical Journal</i> , 2022, 930, 162.	4.5	3
42	Laboratory demonstration of the Savart-plate lateral-shearing interferometric nuller for exoplanets (SPLINE). <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
43	Four new self-lensing binaries from <i>Kepler</i> : Radial velocity characterization and astrophysical implications. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 215-219.	0.0	2
44	Radial Velocity Follow-up of the Disintegrating Planet KIC 12557548b*. <i>Research Notes of the AAS</i> , 2018, 2, 50.	0.7	2
45	Speckle reduction technique using the self-coherent camera for the common-path visible nulling coronagraph. , 2020, , .		2
46	Image Retrieval of Earth-like Planets from Light Curves. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 71-73.	0.0	1
47	Polarization-based Speckle Nulling Using a Spatial Light Modulator to Generate a Wide-field Dark Hole. <i>Astronomical Journal</i> , 2022, 163, 129.	4.7	1
48	Dippers from TESS Full-frame Images. II. Spectroscopic Characterization of Four Young Dippers. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 40.	7.7	0