

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	Autodifferentiable Spectrum Model for High-dispersion Characterization of Exoplanets and Brown Dwarfs. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 31.	7.7	5
2	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
3	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
4	Global Mapping of Surface Composition on an Exo-Earth Using Sparse Modeling. <i>Astrophysical Journal</i> , 2022, 930, 162.	4.5	3
5	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
6	Neutral Metals in the Atmosphere of HD 149026b. <i>Astronomical Journal</i> , 2021, 161, 153.	4.7	6
7	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
8	Global Mapping of the Surface Composition on an Exo-Earth Using Color Variability. <i>Astrophysical Journal</i> , 2020, 894, 58.	4.5	12
9	Global Mapping of an Exo-Earth Using Sparse Modeling. <i>Astrophysical Journal</i> , 2020, 896, 22.	4.5	15
10	Extremely high-contrast, high spectral resolution spectrometer REACH for the Subaru Telescope. , 2020, , .		9
11	Mutual Orbital Inclinations between Cold Jupiters and Inner Super-Earths. <i>Astronomical Journal</i> , 2020, 159, 38.	4.7	33
12	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
13	Bayesian Dynamic Mapping of an Exo-Earth from Photometric Variability. <i>Astrophysical Journal</i> , 2020, 900, 48.	4.5	7
14	Dippers from the TESS Full-frame Images. I. Results of the First One Year Data and Discovery of a Runaway Dipper. <i>Astrophysical Journal, Supplement Series</i> , 2020, 251, 18.	7.7	18
15	Detection of Fe i Emission in the Dayside Spectrum of WASP-33b*. <i>Astrophysical Journal Letters</i> , 2020, 898, L31.	8.3	43
16	Speckle reduction technique using the self-coherent camera for the common-path visible nulling coronagraph. , 2020, , .		2
17	Self-lensing Discovery of a 0.2 M _J White Dwarf in an Unusually Wide Orbit around a Sun-like Star. <i>Astrophysical Journal Letters</i> , 2019, 881, L3.	8.3	33
18	Transiting Planets Near the Snow Line from Kepler. I. Catalog. <i>Astronomical Journal</i> , 2019, 157, 218.	4.7	25

#	ARTICLE	IF	CITATIONS
19	Four new self-lensing binaries from <i>Kepler</i>: Radial velocity characterization and astrophysical implications. Proceedings of the International Astronomical Union, 2019, 15, 215-219.	0.0	2
20	Discovery of Three Self-lensing Binaries from Kepler. Astronomical Journal, 2018, 155, 144.	4.7	23
21	A Linear and Quadratic Timeâ€“Frequency Analysis of Gravitational Waves from Core-collapse Supernovae. Astrophysical Journal, 2018, 867, 126.	4.5	17
22	Systematic Search for Rings around Kepler Planet Candidates: Constraints on Ring Size and Occurrence Rate. Astronomical Journal, 2018, 155, 206.	4.7	12
23	Back to â€œNormalâ€“for the Disintegrating Planet Candidate KIC 12557548 b. Astronomical Journal, 2018, 156, 281.	4.7	6
24	The infrared Doppler (IRD) instrument for the Subaru telescope: instrument description and commissioning results. , 2018, , .		44
25	SCEXAO, an instrument with a dual purpose: perform cutting-edge science and develop new technologies. , 2018, , .		23
26	Radial Velocity Follow-up of the Disintegrating Planet KIC 12557548b*. Research Notes of the AAS, 2018, 2, 50.	0.7	2
27	Toward Detection of Exoplanetary Rings via Transit Photometry: Methodology and a Possible Candidate. Astronomical Journal, 2017, 153, 193.	4.7	44
28	High-resolution Spectroscopic Detection of TiO and a Stratosphere in the Day-side of WASP-33b. Astronomical Journal, 2017, 154, 221.	4.7	157
29	TRANSITING PLANET CANDIDATES BEYOND THE SNOW LINE DETECTED BY VISUAL INSPECTION OF 7557 KEPLER OBJECTS OF INTEREST. Astrophysical Journal, 2016, 822, 2.	4.5	65
30	FREQUENCY MODULATION OF DIRECTLY IMAGED EXOPLANETS: GEOMETRIC EFFECT AS A PROBE OF PLANETARY OBLIQUITY. Astrophysical Journal, 2016, 822, 112.	4.5	28
31	Suzaku observations of the galaxy cluster 1RXSâ€“J0603.3+4214: Implications of particle acceleration processes in the â€œToothbrushâ€“radio relic. Publication of the Astronomical Society of Japan, 2015, 67, .	2.5	26
32	THEORETICAL EMISSION SPECTRA OF ATMOSPHERES OF HOT ROCKY SUPER-EARTHS. Astrophysical Journal, 2015, 801, 144.	4.5	99
33	ABSOLUTE DIMENSIONS OF A FLAT HIERARCHICAL TRIPLE SYSTEM KIC 6543674 FROM THE <i>KEPLER</i> PHOTOMETRY. Astrophysical Journal Letters, 2015, 806, L37.	8.3	12
34	LIFETIME AND SPECTRAL EVOLUTION OF A MAGMA OCEAN WITH A STEAM ATMOSPHERE: ITS DETECTABILITY BY FUTURE DIRECT IMAGING. Astrophysical Journal, 2015, 806, 216.	4.5	60
35	Laboratory demonstration of the Savart-plate lateral-shearing interferometric nuller for exoplanets (SPLINE). Proceedings of SPIE, 2014, , .	0.8	2
36	Infrared Doppler instrument (IRD) for the Subaru telescope to search for Earth-like planets around nearby M-dwarfs. Proceedings of SPIE, 2014, , .	0.8	36

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37	SPECTROSCOPIC CORONAGRAPHY FOR PLANETARY RADIAL VELOCIMETRY OF EXOPLANETS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 212, 27.	7.7	23
38	Systematic X-Ray Analysis of Radio Relic Clusters with Suzaku. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, .	2.5	102
39	STARSPOTS-TRANSIT DEPTH RELATION OF THE EVAPORATING PLANET CANDIDATE KIC 12557548b. <i>Astrophysical Journal Letters</i> , 2013, 776, L6.	8.3	37
40	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
41	Image Retrieval of Earth-like Planets from Light Curves. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 71-73.	0.0	1
42	MAPPING EARTH ANALOGS FROM PHOTOMETRIC VARIABILITY: SPIN-ORBIT TOMOGRAPHY FOR PLANETS IN INCLINED ORBITS. <i>Astrophysical Journal</i> , 2012, 755, 101.	4.5	86
43	THE SPIN EFFECT ON PLANETARY RADIAL VELOCIMETRY OF EXOPLANETS. <i>Astrophysical Journal Letters</i> , 2012, 760, L13.	8.3	14
44	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
45	SUZAKU OBSERVATION OF A NEW MERGING GROUP OF GALAXIES AT A FILAMENTARY JUNCTION. <i>Astrophysical Journal Letters</i> , 2011, 727, L38.	8.3	8
46	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
47	GLOBAL MAPPING OF EARTH-LIKE EXOPLANETS FROM SCATTERED LIGHT CURVES. <i>Astrophysical Journal</i> , 2010, 720, 1333-1350.	4.5	76
48	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