

Masahiro Ikoma

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5104605/publications.pdf>

Version: 2024-02-01

55
papers

3,614
citations

159585

30
h-index

155660

55
g-index

55
all docs

55
docs citations

55
times ranked

2699
citing authors

#	ARTICLE	IF	CITATIONS
1	Ariel planetary interiors White Paper. <i>Experimental Astronomy</i> , 2022, 53, 323-356.	3.7	12
2	A 38 Million Year Old Neptune-sized Planet in the Kepler Field. <i>Astronomical Journal</i> , 2022, 163, 121.	4.7	18
3	Five Key Exoplanet Questions Answered via the Analysis of 25 Hot-Jupiter Atmospheres in Eclipse. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 3.	7.7	33
4	TOI-1696: A Nearby M4 Dwarf with a 3 R _J Planet in the Neptunian Desert. <i>Astronomical Journal</i> , 2022, 163, 298.	4.7	6
5	Comparison of Planetary H α -emission Models: A New Correlation with Accretion Luminosity. <i>Astrophysical Journal Letters</i> , 2021, 917, L30.	8.3	25
6	Two Bright M Dwarfs Hosting Ultra-Short-Period Super-Earths with Earth-like Compositions*. <i>Astronomical Journal</i> , 2021, 162, 161.	4.7	20
7	Keck/OSIRIS Pa β High-contrast Imaging and Updated Constraints on PDS 70b. <i>Astronomical Journal</i> , 2021, 162, 214.	4.7	9
8	Hydrodynamic Model of H α Emission from Accretion Shocks of a Proto-giant Planet and Circumplanetary Disk. <i>Astrophysical Journal</i> , 2021, 921, 10.	4.5	8
9	Hydrodynamic escape of mineral atmosphere from hot rocky exoplanet. I. Model description. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 750-771.	4.4	23
10	TOI-2109: An Ultrahot Gas Giant on a 16 hr Orbit. <i>Astronomical Journal</i> , 2021, 162, 256.	4.7	21
11	Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488). <i>Astronomy and Astrophysics</i> , 2020, 642, A236.	5.1	27
12	Formation of aqua planets with water of nebular origin: effects of water enrichment on the structure and mass of captured atmospheres of terrestrial planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 3755-3766.	4.4	12
13	Accretion Properties of PDS 70b with MUSE*. <i>Astronomical Journal</i> , 2020, 159, 222.	4.7	42
14	Runaway climate cooling of ocean planets in the habitable zone: a consequence of seafloor weathering enhanced by melting of high-pressure ice. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 1580-1596.	4.4	13
15	Capture of solids by growing proto-gas giants: effects of gap formation and supply limited growth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4510-4524.	4.4	32
16	Theoretical Transmission Spectra of Exoplanet Atmospheres with Hydrocarbon Haze: Effect of Creation, Growth, and Settling of Haze Particles. II. Dependence on UV Irradiation Intensity, Metallicity, C/O Ratio, Eddy Diffusion Coefficient, and Temperature. <i>Astrophysical Journal</i> , 2019, 877, 109.	4.5	54
17	Detectable Molecular Features above Hydrocarbon Haze via Transmission Spectroscopy with JWST: Case Studies of GJ 1214b-, GJ 436b-, HD 97658b-, and Kepler-51b-like Planets. <i>Astrophysical Journal Letters</i> , 2019, 876, L5.	8.3	37
18	Constraining Planetary Gas Accretion Rate from H α Line Width and Intensity: Case of PDS 70 b and c. <i>Astrophysical Journal Letters</i> , 2019, 885, L29.	8.3	29

#	ARTICLE	IF	CITATIONS
19	First measurements of Jupiter's zonal winds with visible imaging spectroscopy. <i>Icarus</i> , 2019, 319, 795-811.	2.5	10
20	Theoretical Model of Hydrogen Line Emission from Accreting Gas Giants. <i>Astrophysical Journal</i> , 2018, 866, 84.	4.5	42
21	A chemical survey of exoplanets with ARIEL. <i>Experimental Astronomy</i> , 2018, 46, 135-209.	3.7	249
22	The Origin of the Heavy-element Content Trend in Giant Planets via Core Accretion. <i>Astrophysical Journal</i> , 2018, 865, 32.	4.5	18
23	Theoretical Transmission Spectra of Exoplanet Atmospheres with Hydrocarbon Haze: Effect of Creation, Growth, and Settling of Haze Particles. I. Model Description and First Results. <i>Astrophysical Journal</i> , 2018, 853, 7.	4.5	69
24	Water Partitioning in Planetary Embryos and Protoplanets with Magma Oceans. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	43
25	Stellar imaging coronagraph and exoplanet coronal spectrometer: two additional instruments for exoplanet exploration onboard the WSO-UV 1.7-m orbital telescope. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2018, 4, 1.	1.8	6
26	Ejection of iron-bearing giant-impact fragments and the dynamical and geochemical influence of the fragment re-accretion. <i>Earth and Planetary Science Letters</i> , 2017, 470, 87-95.	4.4	31
27	Acceleration of Cooling of Ice Giants by Condensation in Early Atmospheres. <i>Astronomical Journal</i> , 2017, 153, 260.	4.7	20
28	DEMONSTRATING HIGH-PRECISION, MULTIBAND TRANSIT PHOTOMETRY WITH MUSCAT: A CASE FOR HAT-P-14B. <i>Astrophysical Journal</i> , 2016, 819, 27.	4.5	39
29	Formation and Evolution of Protoatmospheres. <i>Space Science Reviews</i> , 2016, 205, 153-211.	8.1	68
30	Critical core mass for enriched envelopes: the role of H_2O condensation. <i>Astronomy and Astrophysics</i> , 2015, 576, A114.	5.1	62
31	THEORETICAL EMISSION SPECTRA OF ATMOSPHERES OF HOT ROCKY SUPER-EARTHS. <i>Astrophysical Journal</i> , 2015, 801, 144.	4.5	99
32	MULTI-BAND, MULTI-EPOCH OBSERVATIONS OF THE TRANSITING WARM JUPITER WASP-80b. <i>Astrophysical Journal</i> , 2014, 790, 108.	4.5	44
33	Initiation of leaking Earth: An ultimate trigger of the Cambrian explosion. <i>Gondwana Research</i> , 2014, 25, 910-944.	6.0	49
34	Impact of photo-evaporative mass loss on masses and radii of water-rich sub/super-Earths. <i>Astronomy and Astrophysics</i> , 2014, 562, A80.	5.1	23
35	MULTI-COLOR TRANSIT PHOTOMETRY OF GJ 1214b THROUGH <i>BIJK</i> BANDS AND A LONG-TERM MONITORING OF THE STELLAR VARIABILITY OF GJ 1214. <i>Astrophysical Journal</i> , 2013, 773, 144.	4.5	59
36	The naked planet Earth: Most essential pre-requisite for the origin and evolution of life. <i>Geoscience Frontiers</i> , 2013, 4, 141-165.	8.4	122

#	ARTICLE	IF	CITATIONS
37	OPTICAL-TO-NEAR-INFRARED SIMULTANEOUS OBSERVATIONS FOR THE HOT URANUS GJ3470b: A HINT OF A CLOUD-FREE ATMOSPHERE. <i>Astrophysical Journal</i> , 2013, 770, 95.	4.5	55
38	STARSPOTS-TRANSIT DEPTH RELATION OF THE EVAPORATING PLANET CANDIDATE KIC 12557548b. <i>Astrophysical Journal Letters</i> , 2013, 776, L6.	8.3	37
39	IRSF SIRIUS <i>JHK</i> s Simultaneous Transit Photometry of GJ 1214b. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, .	2.5	52
40	IN SITU ACCRETION OF HYDROGEN-RICH ATMOSPHERES ON SHORT-PERIOD SUPER-EARTHS: IMPLICATIONS FOR THE KEPLER-11 PLANETS. <i>Astrophysical Journal</i> , 2012, 753, 66.	4.5	171
41	PLANET ENGULFMENT BY $\sim 1.5-3 M_{\odot}$ RED GIANTS. <i>Astrophysical Journal</i> , 2011, 737, 66.	4.5	122
42	SELF-CONSISTENT MODEL ATMOSPHERES AND THE COOLING OF THE SOLAR SYSTEM'S GIANT PLANETS. <i>Astrophysical Journal</i> , 2011, 729, 32.	4.5	115
43	Gas giant formation with small cores triggered by envelope pollution by icy planetesimals. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 1419-1429.	4.4	109
44	CRITICAL CORE MASSES FOR GAS GIANT FORMATION WITH GRAIN-FREE ENVELOPES. <i>Astrophysical Journal</i> , 2010, 714, 1343-1346.	4.5	68
45	Origin of the ocean on the Earth: Early evolution of water D/H in a hydrogen-rich atmosphere. <i>Icarus</i> , 2008, 194, 42-52.	2.5	101
46	Planetary Companions around Three Intermediate-Mass G and K Giants: 18 Delphini, $\frac{1}{3}$ Aquilae, and HD 81688. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, 539-550.	2.5	105
47	A Planetary Companion to the Hyades Giant μ Tauri. <i>Astrophysical Journal</i> , 2007, 661, 527-531.	4.5	139
48	A Systematic Study of the Final Masses of Gas Giant Planets. <i>Astrophysical Journal</i> , 2007, 667, 557-570.	4.5	78
49	On the Origin of HD 149026b. <i>Astrophysical Journal</i> , 2006, 650, 1150-1159.	4.5	86
50	Constraints on the Mass of a Habitable Planet with Water of Nebular Origin. <i>Astrophysical Journal</i> , 2006, 648, 696-706.	4.5	180
51	Formation of gas giant planets: core accretion models with fragmentation and planetary envelope. <i>Icarus</i> , 2003, 166, 46-62.	2.5	153
52	Enhanced collisional growth of a protoplanet that has an atmosphere. <i>Astronomy and Astrophysics</i> , 2003, 410, 711-723.	5.1	119
53	Formation of Giant Planets in Dense Nebulae: Critical Core Mass Revisited. <i>Astrophysical Journal</i> , 2001, 553, 999-1005.	4.5	65
54	Formation of Giant Planets: Dependences on Core Accretion Rate and Grain Opacity. <i>Astrophysical Journal</i> , 2000, 537, 1013-1025.	4.5	383

#	ARTICLE	IF	CITATIONS
55	Formation of a proto-Jovian envelope for various planetary accretion rates. Journal of Physics Condensed Matter, 1998, 10, 11537-11540.	1.8	2