

Peter Gao

List of Publications by Year in descending order

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62
papers

2,887
citations

136950

32
h-index

168389

53
g-index

64
all docs

64
docs citations

64
times ranked

2861
citing authors

#	ARTICLE	IF	CITATIONS
1	A bimodal distribution of haze in Pluto's atmosphere. <i>Nature Communications</i> , 2022, 13, 240.	12.8	5
2	A New Sedimentation Model for Greater Cloud Diversity in Giant Exoplanets and Brown Dwarfs. <i>Astrophysical Journal</i> , 2022, 925, 33.	4.5	16
3	Spatially Resolved Modeling of Optical Albedos for a Sample of Six Hot Jupiters. <i>Astrophysical Journal</i> , 2022, 926, 157.	4.5	14
4	Microphysics of Water Clouds in the Atmospheres of Y Dwarfs and Temperate Giant Planets. <i>Astrophysical Journal</i> , 2022, 927, 184.	4.5	8
5	The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System. <i>Astrophysical Journal Letters</i> , 2022, 927, L5.	8.3	16
6	A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. <i>Astronomical Journal</i> , 2022, 163, 269.	4.7	4
7	Transit Timing Variations for AU Microscopii b and c. <i>Astronomical Journal</i> , 2022, 164, 27.	4.7	10
8	The Hubble PanCET Program: A Featureless Transmission Spectrum for WASP-29b and Evidence of Enhanced Atmospheric Metallicity on WASP-80b. <i>Astronomical Journal</i> , 2022, 164, 30.	4.7	4
9	The Venusian Lower Atmosphere Haze as a Depot for Desiccated Microbial Life: A Proposed Life Cycle for Persistence of the Venusian Aerial Biosphere. <i>Astrobiology</i> , 2021, 21, 1206-1223.	3.0	69
10	LORRI observations of waves in Pluto's atmosphere. <i>Icarus</i> , 2021, 356, 113825.	2.5	1
11	Constraining the Nature of the PDS 70 Protoplanets with VLT/GRAVITY. <i>Astronomical Journal</i> , 2021, 161, 148.	4.7	59
12	The Diversity of Planetary Atmospheric Chemistry. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	2
13	Aerosols in Exoplanet Atmospheres. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006655.	3.6	44
14	Haze evolution in temperate exoplanet atmospheres through surface energy measurements. <i>Nature Astronomy</i> , 2021, 5, 822-831.	10.1	27
15	A Universal Cloud Composition on the Nightsides of Hot Jupiters. <i>Astrophysical Journal Letters</i> , 2021, 918, L7.	8.3	22
16	Characterization of HD 206893 B from Near- to Thermal-infrared. <i>Astrophysical Journal</i> , 2021, 917, 62.	4.5	2
17	H α Variability of V1298 Tau c. <i>Research Notes of the AAS</i> , 2021, 5, 195.	0.7	1
18	Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System. <i>Astronomical Journal</i> , 2021, 162, 295.	4.7	39

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19	Gemini/GMOS Transmission Spectroscopy of the Grazing Planet Candidate WD 1856+534 b. <i>Astronomical Journal</i> , 2021, 162, 296.	4.7	6
20	Optical to Near-infrared Transmission Spectrum of the Warm Sub-Saturn HAT-P-12b. <i>Astronomical Journal</i> , 2020, 159, 234.	4.7	21
21	Keck/NIRC2 L ^â ™-band Imaging of Jovian-mass Accreting Protoplanets around PDS 70. <i>Astronomical Journal</i> , 2020, 159, 263.	4.7	51
22	A planet within the debris disk around the pre-main-sequence star AU Microscopii. <i>Nature</i> , 2020, 582, 497-500.	27.8	145
23	Aerosol composition of hot giant exoplanets dominated by silicates and hydrocarbon hazes. <i>Nature Astronomy</i> , 2020, 4, 951-956.	10.1	137
24	A Featureless Infrared Transmission Spectrum for the Super-puff Planet Kepler-79d. <i>Astronomical Journal</i> , 2020, 160, 201.	4.7	24
25	Global Chemistry and Thermal Structure Models for the Hot Jupiter WASP-43b and Predictions for JWST. <i>Astrophysical Journal</i> , 2020, 890, 176.	4.5	53
26	Deflating Super-puffs: Impact of Photochemical Hazes on the Observed Massâ€“Radius Relationship of Low-mass Planets. <i>Astrophysical Journal</i> , 2020, 890, 93.	4.5	44
27	Into the UV: The Atmosphere of the Hot Jupiter HAT-P-41b Revealed. <i>Astrophysical Journal Letters</i> , 2020, 902, L19.	8.3	25
28	Retrieval of Chemical Abundances in Titan's Upper Atmosphere From Cassini UVIS Observations With Pointing Motion. <i>Earth and Space Science</i> , 2019, 6, 1057-1066.	2.6	7
29	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 245.	4.7	72
30	Aggregate Hazes in Exoplanet Atmospheres. <i>Astrophysical Journal</i> , 2019, 874, 61.	4.5	38
31	Precise Radial Velocities of Cool Low-mass Stars with iSHELL. <i>Astronomical Journal</i> , 2019, 158, 170.	4.7	31
32	Transit Signatures of Inhomogeneous Clouds on Hot Jupiters: Insights from Microphysical Cloud Modeling. <i>Astrophysical Journal</i> , 2019, 887, 170.	4.5	64
33	The Intrinsic Temperature and Radiativeâ€“Convective Boundary Depth in the Atmospheres of Hot Jupiters. <i>Astrophysical Journal Letters</i> , 2019, 884, L6.	8.3	82
34	Water Vapor and Clouds on the Habitable-zone Sub-Neptune Exoplanet K2-18b. <i>Astrophysical Journal Letters</i> , 2019, 887, L14.	8.3	183
35	A Hubble PanCET Study of HAT-P-11b: A Cloudy Neptune with a Low Atmospheric Metallicity. <i>Astronomical Journal</i> , 2019, 158, 244.	4.7	37
36	Atmospheric Circulation, Chemistry, and Infrared Spectra of Titan-like Exoplanets around Different Stellar Types. <i>Astrophysical Journal</i> , 2018, 853, 58.	4.5	10

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37	Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation. <i>Icarus</i> , 2018, 300, 174-199.	2.5	90
38	Methane on Mars and Habitability: Challenges and Responses. <i>Astrobiology</i> , 2018, 18, 1221-1242.	3.0	50
39	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i>. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
40	Microphysics of KCl and ZnS Clouds on GJ 1214 b. <i>Astrophysical Journal</i> , 2018, 863, 165.	4.5	57
41	Sedimentation Efficiency of Condensation Clouds in Substellar Atmospheres. <i>Astrophysical Journal</i> , 2018, 855, 86.	4.5	63
42	Formation of Silicate and Titanium Clouds on Hot Jupiters. <i>Astrophysical Journal</i> , 2018, 860, 18.	4.5	86
43	Pluto's haze as a surface material. <i>Icarus</i> , 2018, 314, 232-245.	2.5	50
44	Nitrogen Oxides in Early Earth's Atmosphere as Electron Acceptors for Life's Emergence. <i>Astrobiology</i> , 2017, 17, 975-983.	3.0	88
45	Sulfur Hazes in Giant Exoplanet Atmospheres: Impacts on Reflected Light Spectra. <i>Astronomical Journal</i> , 2017, 153, 139.	4.7	71
46	Constraints on the microphysics of Pluto's photochemical haze from New Horizons observations. <i>Icarus</i> , 2017, 287, 116-123.	2.5	73
47	The photochemistry of Pluto's atmosphere as illuminated by New Horizons. <i>Icarus</i> , 2017, 287, 110-115.	2.5	75
48	Demonstration of a near-IR line-referenced electro-optical laser frequency comb for precision radial velocity measurements in astronomy. <i>Nature Communications</i> , 2016, 7, 10436.	12.8	52
49	Retrieval of Precise Radial Velocities from Near-infrared High-resolution Spectra of Low-mass Stars. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 104501.	3.1	13
50	A HIGH-PRECISION NEAR-INFRARED SURVEY FOR RADIAL VELOCITY VARIABLE LOW-MASS STARS USING CSHELL AND A METHANE GAS CELL. <i>Astrophysical Journal</i> , 2016, 822, 40.	4.5	225
51	Hypotheses for Near-Surface Exchange of Methane on Mars. <i>Astrobiology</i> , 2016, 16, 539-550.	3.0	25
52	Aggregate particles in the plumes of Enceladus. <i>Icarus</i> , 2016, 264, 227-238.	2.5	16
53	Precise Near-Infrared Radial Velocities. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 286-287.	0.0	0
54	VERTICAL DISTRIBUTION OF <i>C</i> ₃ -HYDROCARBONS IN THE STRATOSPHERE OF TITAN. <i>Astrophysical Journal Letters</i> , 2015, 803, L19.	8.3	25

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55	Distribution of sulphuric acid aerosols in the clouds and upper haze of Venus using Venus Express VAST and VeRa temperature profiles. <i>Planetary and Space Science</i> , 2015, 113-114, 205-218.	1.7	47
56	Photochemical control of the distribution of Venusian water. <i>Planetary and Space Science</i> , 2015, 113-114, 226-236.	1.7	27
57	STABILITY OF CO ₂ ATMOSPHERES ON DESICCATED M DWARF EXOPLANETS. <i>Astrophysical Journal</i> , 2015, 806, 249.	4.5	104
58	Bimodal distribution of sulfuric acid aerosols in the upper haze of Venus. <i>Icarus</i> , 2014, 231, 83-98.	2.5	79
59	Nonhydrostatic effects and the determination of icy satellites' moment of inertia. <i>Icarus</i> , 2013, 226, 1185-1191.	2.5	39
60	Precision near-infrared radial velocity instrumentation II: noncircular core fiber scrambler. <i>Proceedings of SPIE</i> , 2013, , .	0.8	14
61	Precision near-infrared radial velocity instrumentation I: absorption gas cells. <i>Proceedings of SPIE</i> , 2013, , .	0.8	6
62	Design and Construction of Absorption Cells for Precision Radial Velocities in the <i>K</i> Band Using Methane Isotopologues. <i>Publications of the Astronomical Society of the Pacific</i> , 2012, 124, 586-597.	3.1	35