

Michael H Wong

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

2,539
citations

201674

27
h-index

206112

48
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78
all docs

78
docs citations

78
times ranked

1992
citing authors

#	ARTICLE	IF	CITATIONS
1	Updated Galileo probe mass spectrometer measurements of carbon, oxygen, nitrogen, and sulfur on Jupiter. <i>Icarus</i> , 2004, 171, 153-170.	2.5	280
2	A comparison of the atmospheres of Jupiter and Saturn: deep atmospheric composition, cloud structure, vertical mixing, and origin. <i>Planetary and Space Science</i> , 1999, 47, 1243-1262.	1.7	241
3	Background levels of methane in Mars's atmosphere show strong seasonal variations. <i>Science</i> , 2018, 360, 1093-1096.	12.6	224
4	FIRST RESULTS FROM THE HUBBLE OPAL PROGRAM: JUPITER IN 2015. <i>Astrophysical Journal</i> , 2015, 812, 55.	4.5	88
5	Initial SAM calibration gas experiments on Mars: Quadrupole mass spectrometer results and implications. <i>Planetary and Space Science</i> , 2017, 138, 44-54.	1.7	84
6	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. <i>Nature</i> , 2008, 451, 437-440.	27.8	82
7	Isotopes of nitrogen on Mars: Atmospheric measurements by Curiosity's mass spectrometer. <i>Geophysical Research Letters</i> , 2013, 40, 6033-6037.	4.0	72
8	Seasonal Variations in Atmospheric Composition as Measured in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3000-3024.	3.6	71
9	Changes in Jupiter's Zonal Wind Profile preceding and during the Juno mission. <i>Icarus</i> , 2017, 296, 163-178.	2.5	70
10	Peering through Jupiter's clouds with radio spectral imaging. <i>Science</i> , 2016, 352, 1198-1201.	12.6	67
11	Jupiter's shrinking Great Red Spot and steady Oval BA: Velocity measurements with the Advection Corrected Correlation Image Velocimetry automated cloud-tracking method. <i>Icarus</i> , 2009, 203, 164-188.	2.5	63
12	Identification of the 10- $\frac{1}{4}$ μ m ammonia ice feature on Jupiter. <i>Planetary and Space Science</i> , 2004, 52, 385-395.	1.7	59
13	Persistent rings in and around Jupiter's anticyclones " Observations and theory. <i>Icarus</i> , 2010, 210, 742-762.	2.5	52
14	Deep Atmosphere Composition, Structure, Origin, and Exploration, with Particular Focus on Critical in situ Science at the Icy Giants. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	47
15	Oxygen and Other Volatiles in the Giant Planets and their Satellites. <i>Reviews in Mineralogy and Geochemistry</i> , 2008, 68, 219-246.	4.8	40
16	Jupiter's ammonia distribution derived from VLA maps at 3-37 GHz. <i>Icarus</i> , 2019, 322, 168-191.	2.5	40
17	Vertical structure of Jupiter's Oval BA before and after it reddened: What changed?. <i>Icarus</i> , 2011, 215, 211-225.	2.5	39
18	NEPTUNE'S DYNAMIC ATMOSPHERE FROM KEPLER K2 OBSERVATIONS: IMPLICATIONS FOR BROWN DWARF LIGHT CURVE ANALYSES. <i>Astrophysical Journal</i> , 2016, 817, 162.	4.5	39

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19	JUPITER AFTER THE 2009 IMPACT: <i>HUBBLE SPACE TELESCOPE</i> IMAGING OF THE IMPACT-GENERATED DEBRIS AND ITS TEMPORAL EVOLUTION. <i>Astrophysical Journal Letters</i> , 2010, 715, L150-L154.	8.3	36
20	Changes in Jupiter's zonal velocity between 1979 and 2008. <i>Icarus</i> , 2011, 211, 1215-1232.	2.5	36
21	JUPITER'S DEEP CLOUD STRUCTURE REVEALED USING KECK OBSERVATIONS OF SPECTRALLY RESOLVED LINE SHAPES. <i>Astrophysical Journal</i> , 2015, 810, 122.	4.5	34
22	A multi-wavelength study of the 2009 impact on Jupiter: Comparison of high resolution images from Gemini, Keck and HST. <i>Icarus</i> , 2010, 210, 722-741.	2.5	32
23	Fresh clouds: A parameterized updraft method for calculating cloud densities in one-dimensional models. <i>Icarus</i> , 2015, 245, 273-281.	2.5	29
24	The Gas Composition and Deep Cloud Structure of Jupiter's Great Red Spot. <i>Astronomical Journal</i> , 2018, 156, 101.	4.7	29
25	Reevaluated martian atmospheric mixing ratios from the mass spectrometer on the Curiosity rover. <i>Planetary and Space Science</i> , 2015, 109-110, 154-158.	1.7	28
26	Historical and Contemporary Trends in the Size, Drift, and Color of Jupiter's Great Red Spot. <i>Astronomical Journal</i> , 2018, 155, 151.	4.7	28
27	Vertical wind shear in Neptune's upper atmosphere explained with a modified thermal wind equation. <i>Icarus</i> , 2018, 311, 317-339.	2.5	27
28	First ALMA Millimeter-wavelength Maps of Jupiter, with a Multiwavelength Study of Convection. <i>Astronomical Journal</i> , 2019, 158, 139.	4.7	27
29	Analysis of Neptune's 2017 bright equatorial storm. <i>Icarus</i> , 2019, 321, 324-345.	2.5	25
30	High-resolution UV/Optical/IR Imaging of Jupiter in 2016-2019. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 58.	7.7	25
31	Microwave observations reveal the deep extent and structure of Jupiter's atmospheric vortices. <i>Science</i> , 2021, 374, 968-972.	12.6	23
32	A New Dark Vortex on Neptune. <i>Astronomical Journal</i> , 2018, 155, 117.	4.7	22
33	An enduring rapidly moving storm as a guide to Saturn's Equatorial jet's complex structure. <i>Nature Communications</i> , 2016, 7, 13262.	12.8	21
34	Jupiter's North Equatorial Belt expansion and thermal wave activity ahead of Juno's arrival. <i>Geophysical Research Letters</i> , 2017, 44, 7140-7148.	4.0	21
35	HST/WFC3 observations of Uranus' 2014 storm clouds and comparison with VLT/SINFONI and IRTF/Spex observations. <i>Icarus</i> , 2017, 288, 99-119.	2.5	21
36	Temporal variation of the tropospheric cloud and haze in the jovian equatorial zone. <i>Icarus</i> , 2010, 209, 591-601.	2.5	20

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37	DRAMATIC CHANGE IN JUPITER'S GREAT RED SPOT FROM SPACECRAFT OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2014, 797, L31.	8.3	20
38	Analytical techniques for retrieval of atmospheric composition with the quadrupole mass spectrometer of the Sample Analysis at Mars instrument suite on Mars Science Laboratory. <i>Planetary and Space Science</i> , 2014, 96, 99-113.	1.7	20
39	Dispersion in Neptune's zonal wind velocities from NIR Keck AO observations in July 2009. <i>Astrophysics and Space Science</i> , 2014, 350, 65-88.	1.4	19
40	Formation of a New Great Dark Spot on Neptune in 2018. <i>Geophysical Research Letters</i> , 2019, 46, 3108-3113.	4.0	18
41	The depth of Jupiter's Great Red Spot constrained by Juno gravity overflights. <i>Science</i> , 2021, 374, 964-968.	12.6	18
42	Hazy Blue Worlds: A Holistic Aerosol Model for Uranus and Neptune, Including Dark Spots. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	18
43	Jupiter's Mesoscale Waves Observed at 5 1/4m by Ground-based Observations and Juno JIRAM. <i>Astronomical Journal</i> , 2018, 156, 67.	4.7	17
44	Jupiter's Temperate Belt/Zone Contrasts Revealed at Depth by Juno Microwave Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006858.	3.6	17
45	Constraints on Uranus's haze structure, formation and transport. <i>Icarus</i> , 2019, 333, 1-11.	2.5	16
46	Keck adaptive optics images of Jupiter's north polar cap and Northern Red Oval. <i>Icarus</i> , 2011, 213, 559-563.	2.5	14
47	A New, Long-lived, Jupiter Mesoscale Wave Observed at Visible Wavelengths. <i>Astronomical Journal</i> , 2018, 156, 79.	4.7	14
48	Longitudinal variability in Jupiter's zonal winds derived from multi-wavelength HST observations. <i>Planetary and Space Science</i> , 2018, 155, 2-11.	1.7	13
49	A complex storm system in Saturn's north polar atmosphere in 2018. <i>Nature Astronomy</i> , 2020, 4, 180-187.	10.1	13
50	Possible Transient Luminous Events Observed in Jupiter's Upper Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006659.	3.6	13
51	SPITZER SPACE TELESCOPE MID-IR LIGHT CURVES OF NEPTUNE. <i>Astronomical Journal</i> , 2016, 152, 142.	4.7	12
52	An equatorial thermal wind equation: Applications to Jupiter. <i>Icarus</i> , 2019, 324, 198-223.	2.5	12
53	Lifetimes and Occurrence Rates of Dark Vortices on Neptune from 25 Years of Hubble Space Telescope Images. <i>Astronomical Journal</i> , 2019, 157, 152.	4.7	12
54	Angular Dependence and Spatial Distribution of Jupiter's Centimeter-Wave Thermal Emission From Juno's Microwave Radiometer. <i>Earth and Space Science</i> , 2020, 7, e2020EA001254.	2.6	12

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55	The Case for a New Frontiersâ€‘Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. <i>Planetary Science Journal</i> , 2022, 3, 58.	3.6	12
56	Ground-based near infrared spectroscopy of Jupiter's ring and moons. <i>Icarus</i> , 2006, 185, 403-415.	2.5	10
57	Jupiterâ€™s Red Oval BA: Dynamics, Color, and Relationship to Jovian Climate Change. <i>Journal of Heat Transfer</i> , 2013, 135, .	2.1	10
58	Uranus's Northern Polar Cap in 2014. <i>Geophysical Research Letters</i> , 2018, 45, 5329-5335.	4.0	10
59	Evolution of the Horizontal Winds in Jupiter's Great Red Spot From One Jovian Year of HST/WFC3 Maps. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093982.	4.0	10
60	A Survey of Smallâ€‘Scale Waves and Waveâ€‘Like Phenomena in Jupiter's Atmosphere Detected by JunoCam. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006369.	3.6	7
61	Small Next-Generation Atmospheric Probe (SNAP) Concept to Enable Future Multi-Probe Missions: A Case Study for Uranus. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	7
62	Constraints on Neptune's haze structure and formation from VLT observations in the H-band. <i>Icarus</i> , 2020, 350, 113808.	2.5	5
63	Lightning Generation in Moist Convective Clouds and Constraints on the Water Abundance in Jupiter. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006504.	3.6	5
64	Giant Planet Atmospheres: Dynamics and Variability from UV to Near-IR Hubble and Adaptive Optics Imaging. <i>Remote Sensing</i> , 2022, 14, 1518.	4.0	5
65	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. <i>Icarus</i> , 2022, 380, 114994.	2.5	5
66	Midsummer Atmospheric Changes in Saturnâ€™s Northern Hemisphere from the Hubble OPAL Program. <i>Planetary Science Journal</i> , 2021, 2, 47.	3.6	4
67	SOFIA Observations of Variability in Jupiter's Para-H ₂ Distribution and Subsurface Emission Characteristics of the Galilean Satellites. <i>Planetary Science Journal</i> , 2021, 2, 226.	3.6	4
68	10. Oxygen and Other Volatiles in the Giant Planets and their Satellites. , 2008, , 219-246.		3
69	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. <i>Earth and Space Science</i> , 2020, 7, e2020EA001229.	2.6	3
70	Highâ€‘Spatiotemporal Resolution Observations of Jupiter Lightningâ€‘Induced Radio Pulses Associated With Sferics and Thunderstorms. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088397.	4.0	3
71	Evolution of a dark vortex on Neptune with transient secondary features. <i>Icarus</i> , 2022, 387, 115123.	2.5	3
72	Wave Activity in Jupiter's North Equatorial Belt From Nearâ€‘Infrared Reflectivity Observations. <i>Geophysical Research Letters</i> , 2019, 46, 1232-1241.	4.0	2

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73	The science enabled by a dedicated solar system space telescope. , 2021, 53, .		1
74	Interaction of Saturn's Hexagon With Convective Storms. Geophysical Research Letters, 2021, 48, e2021GL092461.	4.0	1