Michael H Wong

List of Publications by Year
in descending order

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74 papers	2,539 citations	201674 27 h-index	206112 48 g-index
78 all docs	78 docs citations	78 times ranked	1992 citing authors

#	Article	IF	Citations
1	Giant Planet Atmospheres: Dynamics and Variability from UV to Near-IR Hubble and Adaptive Optics Imaging. Remote Sensing, 2022, 14, 1518.	4.0	5
2	The Case for a New Frontiersâ€“Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. Planetary Science Journal, 2022, 3, 58.	3.6	12
3	Convective storms in closed cyclones in Jupiter's South Temperate Belt: (I) observations. Icarus, 2022, 380, 114994.	2.5	5
4	Hazy Blue Worlds: A Holistic Aerosol Model for Uranus and Neptune, Including Dark Spots. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	18
5	Evolution of a dark vortex on Neptune with transient secondary features. Icarus, 2022, 387, 115123.	2.5	3
6	Lightning Generation in Moist Convective Clouds and Constraints on the Water Abundance in Jupiter. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006504.	3.6	5
7	The science enabled by a dedicated solar system space telescope. , 2021, 53, .		1
8	Midsummer Atmospheric Changes in Saturnâ€™s Northern Hemisphere from the Hubble OPAL Program. Planetary Science Journal, 2021, 2, 47.	3.6	4
9	Interaction of Saturnâ€™s Hexagon With Convective Storms. Geophysical Research Letters, 2021, 48, e2021GL092461.	4.0	1
10	Evolution of the Horizontal Winds in Jupiter's Great Red Spot From One Jovian Year of HST/WFC3 Maps. Geophysical Research Letters, 2021, 48, e2021GL093982.	4.0	10
11	Jupiter's Temperate Belt/Zone Contrasts Revealed at Depth by Juno Microwave Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006858.	3.6	17
12	The depth of Jupiterâ€™s Great Red Spot constrained by Juno gravity overflights. Science, 2021, 374, 964-968.	12.6	18
13	Microwave observations reveal the deep extent and structure of Jupiterâ€™s atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
14	SOFIA Observations of Variability in Jupiter's Para-H₂ Distribution and Subsurface Emission Characteristics of the Galilean Satellites. Planetary Science Journal, 2021, 2, 226.	3.6	4
15	A complex storm system in Saturnâ€™s north polar atmosphere in 2018. Nature Astronomy, 2020, 4, 180-187.	10.1	13
16	Angular Dependence and Spatial Distribution of Jupiter's Centimeterâ€Wave Thermal Emission From Juno's Microwave Radiometer. Earth and Space Science, 2020, 7, e2020EA001254.	2.6	12
17	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
18	Highâ€Spatiotemporal Resolution Observations of Jupiter Lightningâ€Induced Radio Pulses Associated With Sferics and Thunderstorms. Geophysical Research Letters, 2020, 47, e2020GL088397.	4.0	3

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19	Possible Transient Luminous Events Observed in Jupiter's Upper Atmosphere. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006659.	3.6	13
20	A Survey of Smallâ€Scale Waves and Waveâ€Like Phenomena in Jupiter's Atmosphere Detected by JunoCam. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006369.	3.6	7
21	High-resolution UV/Optical/IR Imaging of Jupiter in 2016â€“2019. Astrophysical Journal, Supplement Series, 2020, 247, 58.	7.7	25
22	Small Next-Generation Atmospheric Probe (SNAP) Concept to Enable Future Multi-Probe Missions: A Case Study for Uranus. Space Science Reviews, 2020, 216, 1.	8.1	7
23	Constraints on Neptune's haze structure and formation from VLT observations in the H-band. Icarus, 2020, 350, 113808.	2.5	5
24	Deep Atmosphere Composition, Structure, Origin, and Exploration, with Particular Focus on Critical in situ Science at the Icy Giants. Space Science Reviews, 2020, 216, 1.	8.1	47
25	Seasonal Variations in Atmospheric Composition as Measured in Gale Crater, Mars. Journal of Geophysical Research E: Planets, 2019, 124, 3000-3024.	3.6	71
26	An equatorial thermal wind equation: Applications to Jupiter. Icarus, 2019, 324, 198-223.	2.5	12
27	Constraints on Uranus's haze structure, formation and transport. Icarus, 2019, 333, 1-11.	2.5	16
28	Wave Activity in Jupiter's North Equatorial Belt From Nearâ€Infrared Reflectivity Observations. Geophysical Research Letters, 2019, 46, 1232-1241.	4.0	2
29	Formation of a New Great Dark Spot on Neptune in 2018. Geophysical Research Letters, 2019, 46, 3108-3113.	4.0	18
30	Lifetimes and Occurrence Rates of Dark Vortices on Neptune from 25 Years of Hubble Space Telescope Images. Astronomical Journal, 2019, 157, 152.	4.7	12
31	Jupiterâ€™s ammonia distribution derived from VLA maps at 3â€“37ÂGHz. Icarus, 2019, 322, 168-191.	2.5	40
32	Analysis of Neptuneâ€™s 2017 bright equatorial storm. Icarus, 2019, 321, 324-345.	2.5	25
33	First ALMA Millimeter-wavelength Maps of Jupiter, with a Multiwavelength Study of Convection. Astronomical Journal, 2019, 158, 139.	4.7	27
34	A New Dark Vortex on Neptune. Astronomical Journal, 2018, 155, 117.	4.7	22
35	Historical and Contemporary Trends in the Size, Drift, and Color of Jupiter's Great Red Spot. Astronomical Journal, 2018, 155, 151.	4.7	28
36	Uranus's Northern Polar Cap in 2014. Geophysical Research Letters, 2018, 45, 5329-5335.	4.0	10

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37	The Gas Composition and Deep Cloud Structure of Jupiter's Great Red Spot. Astronomical Journal, 2018, 156, 101.	4.7	29
38	A New, Long-lived, Jupiter Mesoscale Wave Observed at Visible Wavelengths. Astronomical Journal, 2018, 156, 79.	4.7	14
39	Jupiterâ€™s Mesoscale Waves Observed at 5 Î¼m by Ground-based Observations and Juno JIRAM. Astronomical Journal, 2018, 156, 67.	4.7	17
40	Vertical wind shear in Neptuneâ€™s upper atmosphere explained with a modified thermal wind equation. Icarus, 2018, 311, 317-339.	2.5	27
41	Longitudinal variability in Jupiter's zonal winds derived from multi-wavelength HST observations. Planetary and Space Science, 2018, 155, 2-11.	1.7	13
42	Background levels of methane in Marsâ€™ atmosphere show strong seasonal variations. Science, 2018, 360, 1093-1096.	12.6	224
43	Changes in Jupiterâ€™s Zonal Wind Profile preceding and during the Juno mission. Icarus, 2017, 296, 163-178.	2.5	70
44	Jupiter's North Equatorial Belt expansion and thermal wave activity ahead of Juno's arrival. Geophysical Research Letters, 2017, 44, 7140-7148.	4.0	21
45	HST/WFC3 observations of Uranusâ€™ 2014 storm clouds and comparison with VLT/SINFONI and IRTF/Spex observations. Icarus, 2017, 288, 99-119.	2.5	21
46	Initial SAM calibration gas experiments on Mars: Quadrupole mass spectrometer results and implications. Planetary and Space Science, 2017, 138, 44-54.	1.7	84
47	SPITZER SPACE TELESCOPE MID-IR LIGHT CURVES OF NEPTUNE. Astronomical Journal, 2016, 152, 142.	4.7	12
48	An enduring rapidly moving storm as a guide to Saturnâ€™s Equatorial jetâ€™s complex structure. Nature Communications, 2016, 7, 13262.	12.8	21
49	Peering through Jupiterâ€™s clouds with radio spectral imaging. Science, 2016, 352, 1198-1201.	12.6	67
50	NEPTUNEâ€™S DYNAMIC ATMOSPHERE FROM KEPLER K2 OBSERVATIONS: IMPLICATIONS FOR BROWN DWARF LIGHT CURVE ANALYSES. Astrophysical Journal, 2016, 817, 162.	4.5	39
51	JUPITERâ€™S DEEP CLOUD STRUCTURE REVEALED USING KECK OBSERVATIONS OF SPECTRALLY RESOLVED LINE SHAPES. Astrophysical Journal, 2015, 810, 122.	4.5	34
52	FIRST RESULTS FROM THE HUBBLE OPAL PROGRAM: JUPITER IN 2015. Astrophysical Journal, 2015, 812, 55.	4.5	88
53	Reevaluated martian atmospheric mixing ratios from the mass spectrometer on the Curiosity rover. Planetary and Space Science, 2015, 109-110, 154-158.	1.7	28
54	Fresh clouds: A parameterized updraft method for calculating cloud densities in one-dimensional models. Icarus, 2015, 245, 273-281.	2.5	29

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55	DRAMATIC CHANGE IN JUPITER'S GREAT RED SPOT FROM SPACECRAFT OBSERVATIONS. Astrophysical Journal Letters, 2014, 797, L31.	8.3	20
56	Dispersion in Neptuneâ€™s zonal wind velocities from NIR Keck AO observations in July 2009. Astrophysics and Space Science, 2014, 350, 65-88.	1.4	19
57	Analytical techniques for retrieval of atmospheric composition with the quadrupole mass spectrometer of the Sample Analysis at Mars instrument suite on Mars Science Laboratory. Planetary and Space Science, 2014, 96, 99-113.	1.7	20
58	Jupiterâ€™s Red Oval BA: Dynamics, Color, and Relationship to Jovian Climate Change. Journal of Heat Transfer, 2013, 135, .	2.1	10
59	Isotopes of nitrogen on Mars: Atmospheric measurements byâ€‰Curiosity's mass spectrometer. Geophysical Research Letters, 2013, 40, 6033-6037.	4.0	72
60	Vertical structure of Jupiterâ€™s Oval BA before and after it reddened: What changed?. Icarus, 2011, 215, 211-225.	2.5	39
61	Keck adaptive optics images of Jupiterâ€™s north polar cap and Northern Red Oval. Icarus, 2011, 213, 559-563.	2.5	14
62	Changes in Jupiterâ€™s zonal velocity between 1979 and 2008â˜†. Icarus, 2011, 211, 1215-1232.	2.5	36
63	JUPITER AFTER THE 2009 IMPACT: HUBBLE SPACE TELESCOPE IMAGING OF THE IMPACT-GENERATED DEBRIS AND ITS TEMPORAL EVOLUTION. Astrophysical Journal Letters, 2010, 715, L150-L154.	8.3	36
64	Temporal variation of the tropospheric cloud and haze in the jovian equatorial zone. Icarus, 2010, 209, 591-601.	2.5	20
65	A multi-wavelength study of the 2009 impact on Jupiter: Comparison of high resolution images from Gemini, Keck and HST. Icarus, 2010, 210, 722-741.	2.5	32
66	Persistent rings in and around Jupiterâ€™s anticyclones â€“ Observations and theory. Icarus, 2010, 210, 742-762.	2.5	52
67	Jupiterâ€™s shrinking Great Red Spot and steady Oval BA: Velocity measurements with the â€˜Advection Corrected Correlation Image Velocimetryâ€™ automated cloud-tracking method. Icarus, 2009, 203, 164-188.	2.5	63
68	Depth of a strong jovian jet from a planetary-scale disturbance driven by storms. Nature, 2008, 451, 437-440.	27.8	82
69	Oxygen and Other Volatiles in the Giant Planets and their Satellites. Reviews in Mineralogy and Geochemistry, 2008, 68, 219-246.	4.8	40
70	10. Oxygen and Other Volatiles in the Giant Planets and their Satellites. , 2008, , 219-246.		3
71	Ground-based near infrared spectroscopy of Jupiter's ring and moons. Icarus, 2006, 185, 403-415.	2.5	10
72	Updated Galileo probe mass spectrometer measurements of carbon, oxygen, nitrogen, and sulfur on Jupiter. Icarus, 2004, 171, 153-170.	2.5	280

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73	Identification of the 10-Î¼m ammonia ice feature on Jupiter. Planetary and Space Science, 2004, 52, 385-395.	1.7	59
74	A comparison of the atmospheres of Jupiter and Saturn: deep atmospheric composition, cloud structure, vertical mixing, and origin. Planetary and Space Science, 1999, 47, 1243-1262.	1.7	241