

Eugene Chiang

List of Publications by Year in descending order

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74
papers

6,009
citations

94433

37
h-index

76900

74
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75
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75
docs citations

75
times ranked

3276
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Images of an Exosolar Planet 25 Light-Years from Earth. <i>Science</i> , 2008, 322, 1345-1348.	12.6	701
2	The minimum-mass extrasolar nebula: in situ formation of close-in super-Earths. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 3444-3455.	4.4	393
3	The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au. <i>Astronomical Journal</i> , 2019, 158, 13.	4.7	270
4	BREEDING SUPER-EARTHS AND BIRTHING SUPER-PUFFS IN TRANSITIONAL DISKS. <i>Astrophysical Journal</i> , 2016, 817, 90.	4.5	219
5	HOW EMPTY ARE DISK GAPS OPENED BY GIANT PLANETS?. <i>Astrophysical Journal</i> , 2014, 782, 88.	4.5	215
6	MAKE SUPER-EARTHS, NOT JUPITERS: ACCRETING NEBULAR GAS ONTO SOLID CORES AT 0.1 AU AND BEYOND. <i>Astrophysical Journal</i> , 2014, 797, 95.	4.5	208
7	WEAK TURBULENCE IN THE HD 163296 PROTOPLANETARY DISK REVEALED BY ALMA CO OBSERVATIONS. <i>Astrophysical Journal</i> , 2015, 813, 99.	4.5	208
8	A Three-dimensional View of Turbulence: Constraints on Turbulent Motions in the HD 163296 Protoplanetary Disk Using DCO ⁺ . <i>Astrophysical Journal</i> , 2017, 843, 150.	4.5	208
9	TO COOL IS TO ACCRETE: ANALYTIC SCALINGS FOR NEBULAR ACCRETION OF PLANETARY ATMOSPHERES. <i>Astrophysical Journal</i> , 2015, 811, 41.	4.5	166
10	Multiple Disk Gaps and Rings Generated by a Single Super-Earth. <i>Astrophysical Journal</i> , 2017, 843, 127.	4.5	157
11	Inside-out evacuation of transitional protoplanetary discs by the magneto-rotational instability. <i>Nature Physics</i> , 2007, 3, 604-608.	16.7	130
12	The Eccentric Cavity, Triple Rings, Two-armed Spirals, and Double Clumps of the MWC 758 Disk. <i>Astrophysical Journal</i> , 2018, 860, 124.	4.5	126
13	SURFACE LAYER ACCRETION IN CONVENTIONAL AND TRANSITIONAL DISKS DRIVEN BY FAR-ULTRAVIOLET IONIZATION. <i>Astrophysical Journal</i> , 2011, 735, 8.	4.5	115
14	<i>β</i> PICTORIS TM INNER DISK IN POLARIZED LIGHT AND NEW ORBITAL PARAMETERS FOR <i>β</i> PICTORIS. <i>Astrophysical Journal</i> , 2015, 811, 18.	4.5	108
15	GAP OPENING IN 3D: SINGLE-PLANET GAPS. <i>Astrophysical Journal</i> , 2016, 832, 105.	4.5	107
16	Catastrophic evaporation of rocky planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2294-2309.	4.4	105
17	CORRELATIONS BETWEEN COMPOSITIONS AND ORBITS ESTABLISHED BY THE GIANT IMPACT ERA OF PLANET FORMATION. <i>Astrophysical Journal</i> , 2016, 822, 54.	4.5	101
18	AN M DWARF COMPANION AND ITS INDUCED SPIRAL ARMS IN THE HD 100453 PROTOPLANETARY DISK. <i>Astrophysical Journal Letters</i> , 2016, 816, L12.	8.3	96

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19	Magnetospheric Truncation, Tidal Inspiral, and the Creation of Short-period and Ultra-short-period Planets. <i>Astrophysical Journal</i> , 2017, 842, 40.	4.5	95
20	Dynamical Constraints on the HR 8799 Planets with GPI. <i>Astronomical Journal</i> , 2018, 156, 192.	4.7	95
21	ECCENTRIC JUPITERS VIA DISK-PLANET INTERACTIONS. <i>Astrophysical Journal</i> , 2015, 812, 94.	4.5	92
22	Multiple Disk Gaps and Rings Generated by a Single Super-Earth. II. Spacings, Depths, and Number of Gaps, with Application to Real Systems. <i>Astrophysical Journal</i> , 2018, 866, 110.	4.5	91
23	SPIRAL ARMS IN GRAVITATIONALLY UNSTABLE PROTOPLANETARY DISKS AS IMAGED IN SCATTERED LIGHT. <i>Astrophysical Journal Letters</i> , 2015, 812, L32.	8.3	89
24	SURFACE LAYER ACCRETION IN TRANSITIONAL AND CONVENTIONAL DISKS: FROM POLYCYCLIC AROMATIC HYDROCARBONS TO PLANETS. <i>Astrophysical Journal</i> , 2011, 727, 2.	4.5	87
25	MILLIMETER EMISSION STRUCTURE IN THE FIRST ALMA IMAGE OF THE AU Mic DEBRIS DISK. <i>Astrophysical Journal Letters</i> , 2013, 762, L21.	8.3	84
26	A metallicity recipe for rocky planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 1471-1483.	4.4	82
27	HOW SPIRALS AND GAPS DRIVEN BY COMPANIONS IN PROTOPLANETARY DISKS APPEAR IN SCATTERED LIGHT AT ARBITRARY VIEWING ANGLES. <i>Astrophysical Journal</i> , 2016, 826, 75.	4.5	81
28	FAST RADIAL FLOWS IN TRANSITION DISK HOLES. <i>Astrophysical Journal</i> , 2014, 782, 62.	4.5	74
29	A class of warm Jupiters with mutually inclined, apsidally misaligned close friends. <i>Science</i> , 2014, 346, 212-216.	12.6	73
30	SIGNATURES OF GRAVITATIONAL INSTABILITY IN RESOLVED IMAGES OF PROTOSTELLAR DISKS. <i>Astrophysical Journal</i> , 2016, 823, 141.	4.5	72
31	The Degree of Alignment between Circumbinary Disks and Their Binary Hosts. <i>Astrophysical Journal</i> , 2019, 883, 22.	4.5	69
32	A PRIMER ON UNIFYING DEBRIS DISK MORPHOLOGIES. <i>Astrophysical Journal</i> , 2016, 827, 125.	4.5	67
33	Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign. <i>Astronomical Journal</i> , 2020, 160, 24.	4.7	64
34	FROM DUST TO PLANETESIMALS: CRITERIA FOR GRAVITATIONAL INSTABILITY OF SMALL PARTICLES IN GAS. <i>Astrophysical Journal</i> , 2013, 764, 20.	4.5	58
35	Save the Planet, Feed the Star: How Super-Earths Survive Migration and Drive Disk Accretion. <i>Astrophysical Journal</i> , 2017, 839, 100.	4.5	57
36	Secular dynamics of an exterior test particle: the inverse Kozai and other eccentricity-inclination resonances. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 4855-4869.	4.4	53

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37	TWO TRANSITING LOW DENSITY SUB-SATURNS FROM K2. <i>Astrophysical Journal</i> , 2016, 818, 36.	4.5	50
38	The Sizes and Depletions of the Dust and Gas Cavities in the Transitional Disk J160421.7-213028. <i>Astrophysical Journal</i> , 2017, 836, 201.	4.5	50
39	Stellar Winds and Dust Avalanches in the AU Mic Debris Disk. <i>Astrophysical Journal</i> , 2017, 848, 4.	4.5	46
40	The Mass of Stirring Bodies in the AU Mic Debris Disk Inferred from Resolved Vertical Structure. <i>Astrophysical Journal</i> , 2019, 875, 87.	4.5	43
41	GEMINI PLANET IMAGER OBSERVATIONS OF THE AU MICROSCOPII DEBRIS DISK: ASYMMETRIES WITHIN ONE ARCSECOND. <i>Astrophysical Journal Letters</i> , 2015, 811, L19.	8.3	41
42	Circumplanetary Disk Dynamics in the Isothermal and Adiabatic Limits. <i>Astrophysical Journal</i> , 2019, 887, 152.	4.5	40
43	GRAVITO-TURBULENT DISKS IN THREE DIMENSIONS: TURBULENT VELOCITIES VERSUS DEPTH. <i>Astrophysical Journal</i> , 2014, 789, 34.	4.5	39
44	Dust dynamics in 2D gravito-turbulent discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 982-998.	4.4	38
45	RESOLVED MILLIMETER-WAVELENGTH OBSERVATIONS OF DEBRIS DISKS AROUND SOLAR-TYPE STARS. <i>Astrophysical Journal</i> , 2016, 816, 27.	4.5	37
46	Obliquity Constraints on an Extrasolar Planetary-mass Companion. <i>Astronomical Journal</i> , 2020, 159, 181.	4.7	37
47	FAST MODES AND DUSTY HORSESHOES IN TRANSITIONAL DISKS. <i>Astrophysical Journal Letters</i> , 2015, 798, L25.	8.3	33
48	BRINGING "THE MOTH" TO LIGHT: A PLANET-SCULPTING SCENARIO FOR THE HD 61005 DEBRIS DISK. <i>Astronomical Journal</i> , 2016, 152, 85.	4.7	33
49	A balanced budget view on forming giant planets by pebble accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 4338-4354.	4.4	32
50	The end of runaway: how gap opening limits the final masses of gas giants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 681-690.	4.4	32
51	The First Habitable-zone Earth-sized Planet from TESS. II. Spitzer Confirms TOI-700 d. <i>Astronomical Journal</i> , 2020, 160, 117.	4.7	29
52	CONFIRMING THE PRIMARILY SMOOTH STRUCTURE OF THE VEGA DEBRIS DISK AT MILLIMETER WAVELENGTHS. <i>Astrophysical Journal</i> , 2012, 750, 82.	4.5	28
53	Direct Imaging of the HD 35841 Debris Disk: A Polarized Dust Ring from Gemini Planet Imager and an Outer Halo from HST/STIS. <i>Astronomical Journal</i> , 2018, 156, 47.	4.7	28
54	Optically thin core accretion: how planets get their gas in nearly gas-free discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2199-2208.	4.4	27

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55	The Origin of the Young Stars in the Nucleus of M31. <i>Astrophysical Journal</i> , 2007, 668, 236-244.	4.5	26
56	Dynamical Evidence of a Spiral Arm-driving Planet in the MWC 758 Protoplanetary Disk. <i>Astrophysical Journal Letters</i> , 2020, 898, L38.	8.3	24
57	An ALMA Survey of ρ Orionis Disks: From Supernovae to Planet Formation. <i>Astronomical Journal</i> , 2020, 160, 248.	4.7	23
58	A Decade of MWC 758 Disk Images: Where Are the Spiral-arm-driving Planets?. <i>Astrophysical Journal Letters</i> , 2018, 857, L9.	8.3	22
59	Heavy-metal Jupiters by major mergers: metallicity versus mass for giant planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 680-688.	4.4	21
60	A Coplanar Circumbinary Protoplanetary Disk in the TWA 3 Triple M Dwarf System. <i>Astrophysical Journal</i> , 2021, 912, 6.	4.5	21
61	A likely flyby of binary protostar Z CMa caught in action. <i>Nature Astronomy</i> , 2022, 6, 331-338.	10.1	21
62	Sub-Neptune formation: the view from resonant planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 4192-4209.	4.4	20
63	The Gemini Planet Imager View of the HD 32297 Debris Disk. <i>Astronomical Journal</i> , 2020, 159, 251.	4.7	19
64	Collisional Particle Disks. <i>Astrophysical Journal</i> , 2007, 656, 524-533.	4.5	18
65	Breaking the centrifugal barrier to giant planet contraction by magnetic disc braking. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 491, L34-L39.	3.3	18
66	As the Worlds Turn: Constraining Spin Evolution in the Planetary-mass Regime. <i>Astrophysical Journal</i> , 2020, 905, 37.	4.5	17
67	Obliquity Constraints on the Planetary-mass Companion HD 106906 b. <i>Astronomical Journal</i> , 2021, 162, 217.	4.7	15
68	The endgame of gas giant formation: accretion luminosity and contraction post-runaway. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4334-4343.	4.4	14
69	Resolving Structure in the Debris Disk around HD 206893 with ALMA. <i>Astrophysical Journal</i> , 2021, 917, 5.	4.5	13
70	Primordial obliquities of brown dwarfs and super-Jupiters from fragmenting gravito-turbulent discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5187-5194.	4.4	12
71	Sculpting Eccentric Debris Disks with Eccentric Gas Rings. <i>Astrophysical Journal</i> , 2019, 883, 68.	4.5	9
72	Mysterious Dust-emitting Object Orbiting TIC 400799224. <i>Astronomical Journal</i> , 2021, 162, 299.	4.7	6

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73	Chondrules from high-velocity collisions: thermal histories and the agglomeration problem. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3297-3308.	4.4	4
74	Testing planet formation from the ultraviolet to the millimetre. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1657-1670.	4.4	4