

# Chao-Chin Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8420997/publications.pdf>

Version: 2024-02-01

26  
papers

1,033  
citations

516215

16  
h-index

676716

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentrating small particles in protoplanetary disks through the streaming instability. <i>Astronomy and Astrophysics</i> , 2017, 606, A80.	2.1	203
2	Initial mass function of planetesimals formed by the streaming instability. <i>Astronomy and Astrophysics</i> , 2017, 597, A69.	2.1	124
3	The Pencil Code, a modular MPI code for partial differential equations and particles: multipurpose and multiuser-maintained. <i>Journal of Open Source Software</i> , 2021, 6, 2807.	2.0	92
4	ON THE FEEDING ZONE OF PLANETESIMAL FORMATION BY THE STREAMING INSTABILITY. <i>Astrophysical Journal</i> , 2014, 792, 86.	1.6	79
5	THERMAL-INSTABILITY-DRIVEN TURBULENT MIXING IN GALACTIC DISKS. I. EFFECTIVE MIXING OF METALS. <i>Astrophysical Journal</i> , 2012, 758, 48.	1.6	74
6	Diffusion and Concentration of Solids in the Dead Zone of a Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 868, 27.	1.6	71
7	INTEGRATION OF PARTICLE-GAS SYSTEMS WITH STIFF MUTUAL DRAG INTERACTION. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 39.	3.0	57
8	Large-scale Gravitational Instability and Star Formation in the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2007, 671, 374-379.	1.6	46
9	PLANETESIMAL AND PROTOPLANET DYNAMICS IN A TURBULENT PROTOPLANETARY DISK: IDEAL STRATIFIED DISKS. <i>Astrophysical Journal</i> , 2012, 748, 79.	1.6	45
10	PLANETESIMAL AND PROTOPLANET DYNAMICS IN A TURBULENT PROTOPLANETARY DISK: IDEAL UNSTRATIFIED DISKS. <i>Astrophysical Journal</i> , 2009, 707, 1233-1246.	1.6	37
11	Streaming instability of multiple particle species in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2018, 618, A75.	2.1	35
12	Streaming instability with multiple dust species I. Favourable conditions for the linear growth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 467-482.	1.6	35
13	TEMPERATURE FLUCTUATIONS DRIVEN BY MAGNETOROTATIONAL INSTABILITY IN PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2014, 791, 62.	1.6	23
14	Rayleigh adjustment of narrow barriers in protoplanetary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 2436-2440.	1.6	22
15	HYDRODYNAMICAL SIMULATIONS OF THE BARRED SPIRAL GALAXY NGC 1097. <i>Astrophysical Journal</i> , 2013, 771, 8.	1.6	21
16	Formation of the polar debris disc around 99 Herculis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 487-499.	1.6	21
17	Streaming instability with multiple dust species II. Turbulence and dust gas dynamics at non-linear saturation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5538-5553.	1.6	16
18	Formation of dust rings and gaps in non-ideal MHD discs through meridional gas flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 516, 2006-2022.	1.6	11

#	ARTICLE	IF	CITATIONS
19	On the Spiral Structure of NGC 5248: An Analytic Approach. <i>Astrophysical Journal</i> , 2006, 644, 180-187.	1.6	8
20	Morphological signatures induced by dust back reaction in discs with an embedded planet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 4702-4718.	1.6	8
21	Kozai-Lidov oscillations triggered by a tilt instability of detached circumplanetary discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 4426-4434.	1.6	3
22	The evolution of a circumplanetary disc with a dead zone. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2822-2830.	1.6	2
23	Star formation in the LMC: gravitational instability and dynamical triggering. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 192-198.	0.0	0
24	Planetesimal and protoplanet dynamics in a turbulent protoplanetary disk. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 517-518.	0.0	0
25	Hydrodynamical simulations of the barred spiral galaxy NGC 1097. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 376-376.	0.0	0
26	Large-scale planetesimal formation by streaming instability. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 177-178.	0.0	0