

Hubert Klahr

List of Publications by Year in descending order

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141
papers

10,835
citations

26610

56
h-index

32815

100
g-index

143
all docs

143
docs citations

143
times ranked

4508
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Binocular Telescope Search for Companions and Substructures in the (Pre)transitional Disk of AB Aurigae. <i>Astrophysical Journal</i> , 2022, 926, 71.	1.6	2
2	Formation of Main Belt Asteroids. , 2022, , 199-211.		3
3	Resilience of Planetesimal Formation in Weakly Reinforced Pressure Bumps. <i>Astrophysical Journal</i> , 2022, 927, 52.	1.6	13
4	Protoplanetary Disk Rings as Sites for Planetesimal Formation. <i>Astronomical Journal</i> , 2021, 161, 96.	1.9	59
5	Linking planetary embryo formation to planetesimal formation. <i>Astronomy and Astrophysics</i> , 2021, 645, A132.	2.1	15
6	Linking planetary embryo formation to planetesimal formation. <i>Astronomy and Astrophysics</i> , 2021, 645, A131.	2.1	17
7	A Two-moment Radiation Hydrodynamics Scheme Applicable to Simulations of Planet Formation in Circumstellar Disks. <i>Astrophysical Journal</i> , 2021, 906, 78.	1.6	9
8	Testing the Jeans, Toomre, and Bonnorâ€Ebert Concepts for Planetesimal Formation: 3D Streaming-instability Simulations of Diffusion-regulated Formation of Planetesimals. <i>Astrophysical Journal</i> , 2021, 911, 9.	1.6	30
9	The New Generation Planetary Population Synthesis (NGPPS). <i>Astronomy and Astrophysics</i> , 2021, 656, A73.	2.1	28
10	Pebble Trapping in Vortices: Three-dimensional Simulations. <i>Astrophysical Journal</i> , 2021, 913, 92.	1.6	19
11	The New Generation Planetary Population Synthesis (NGPPS). <i>Astronomy and Astrophysics</i> , 2021, 656, A72.	2.1	82
12	The Sandwich Mode for Vertical Shear Instability in Protoplanetary Disks. <i>Astrophysical Journal</i> , 2021, 915, 130.	1.6	24
13	High-resolution parameter study of the vertical shear instability â€“ II: dependence on temperature gradient and cooling time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5402-5409.	1.6	13
14	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2021, 653, A114.	2.1	67
15	The New Generation Planetary Population Synthesis (NGPPS). <i>Astronomy and Astrophysics</i> , 2021, 656, A71.	2.1	45
16	Global axisymmetric simulations of photoevaporation and magnetically driven protoplanetary disk winds. <i>Astronomy and Astrophysics</i> , 2020, 633, A21.	2.1	18
17	High resolution parameter study of the vertical shear instability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1841-1853.	1.6	27
18	Requirements for Gravitational Collapse in Planetesimal Formationâ€The Impact of Scales Set by Kelvinâ€Helmholtz and Nonlinear Streaming Instability. <i>Astrophysical Journal</i> , 2020, 895, 91.	1.6	43

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19	Constraining the parameter space for the solar nebula. <i>Astronomy and Astrophysics</i> , 2020, 640, A61.	2.1	18
20	VLT/SPHERE survey for exoplanets around young early-type stars, including systems with multi-belt architectures. <i>Astronomy and Astrophysics</i> , 2020, 639, A54.	2.1	3
21	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 644, A127.	2.1	27
22	Effect of pebble flux-regulated planetesimal formation on giant planet formation. <i>Astronomy and Astrophysics</i> , 2020, 642, A75.	2.1	29
23	A Highly Eccentric Warm Jupiter Orbiting TIC 237913194. <i>Astronomical Journal</i> , 2020, 160, 275.	1.9	19
24	Gas and Dust Dynamics in Starlight-heated Protoplanetary Disks. <i>Astrophysical Journal</i> , 2020, 897, 155.	1.6	54
25	Turbulence Sets the Length Scale for Planetesimal Formation: Local 2D Simulations of Streaming Instability and Planetesimal Formation. <i>Astrophysical Journal</i> , 2020, 901, 54.	1.6	69
26	Planetary system around the nearby M dwarf GJ 357 including a transiting, hot, Earth-sized planet optimal for atmospheric characterization. <i>Astronomy and Astrophysics</i> , 2019, 628, A39.	2.1	97
27	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A49.	2.1	95
28	The DSHARP Rings: Evidence of Ongoing Planetesimal Formation?. <i>Astrophysical Journal Letters</i> , 2019, 884, L5.	3.0	57
29	The Concentration and Growth of Solids in Fragmenting Circumstellar Disks. <i>Astrophysical Journal</i> , 2019, 881, 162.	1.6	13
30	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	6.0	78
31	Dense Particle Clouds in Laboratory Experiments in Context of Drafting and Streaming Instability. <i>Astrophysical Journal</i> , 2019, 872, 3.	1.6	12
32	Mapping the Conditions for Hydrodynamic Instability on Steady-State Accretion Models of Protoplanetary Disks. <i>Astrophysical Journal</i> , 2019, 871, 150.	1.6	52
33	Planetesimal Population Synthesis: Pebble Flux-regulated Planetesimal Formation. <i>Astrophysical Journal</i> , 2019, 874, 36.	1.6	68
34	Linking planetesimal and dust content in protoplanetary disks via a local toy model. <i>Astronomy and Astrophysics</i> , 2019, 629, A116.	2.1	19
35	Highly structured disk around the planet host PDS 70 revealed by high-angular resolution observations with ALMA. <i>Astronomy and Astrophysics</i> , 2019, 625, A118.	2.1	90
36	First scattered light detection of a nearly edge-on transition disk around the T Tauri star RY Lupi. <i>Astronomy and Astrophysics</i> , 2018, 614, A88.	2.1	26

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37	The GJ 504 system revisited. <i>Astronomy and Astrophysics</i> , 2018, 618, A63.	2.1	45
38	Instabilities and Flow Structures in Protoplanetary Disks: Setting the Stage for Planetesimal Formation. , 2018, , 2251-2286.		8
39	VLT/SPHERE astrometric confirmation and orbital analysis of the brown dwarf companion HR 2562 B. <i>Astronomy and Astrophysics</i> , 2018, 615, A177.	2.1	13
40	Instabilities and Flow Structures in Protoplanetary Disks: Setting the Stage for Planetesimal Formation. , 2018, , 1-36.		3
41	Vortex formation and survival in protoplanetary discs subject to vertical shear instability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 2125-2136.	1.6	41
42	Azimuthal and Vertical Streaming Instability at High Dust-to-gas Ratios and on the Scales of Planetesimal Formation. <i>Astrophysical Journal</i> , 2018, 861, 47.	1.6	35
43	Discovery of a brown dwarf companion to the star HIP 64892. <i>Astronomy and Astrophysics</i> , 2018, 615, A160.	2.1	26
44	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
45	Pebble-trapping Backreaction Does Not Destroy Vortices. <i>Research Notes of the AAS</i> , 2018, 2, 195.	0.3	21
46	The Planetary Accretion Shock. I. Framework for Radiation-hydrodynamical Simulations and First Results. <i>Astrophysical Journal</i> , 2017, 836, 221.	1.6	72
47	The Fragmentation Criteria in Local Vertically Stratified Self-gravitating Disk Simulations. <i>Astrophysical Journal</i> , 2017, 848, 40.	1.6	42
48	Efficiency of thermal relaxation by radiative processes in protoplanetary discs: constraints on hydrodynamic turbulence. <i>Astronomy and Astrophysics</i> , 2017, 605, A30.	2.1	47
49	Gaps, rings, and non-axisymmetric structures in protoplanetary disks: Emission from large grains. <i>Astronomy and Astrophysics</i> , 2016, 590, A17.	2.1	77
50	THE VLA VIEW OF THE HL TAU DISK: DISK MASS, GRAIN EVOLUTION, AND EARLY PLANET FORMATION. <i>Astrophysical Journal Letters</i> , 2016, 821, L16.	3.0	111
51	Linking the Origin of Asteroids to Planetesimal Formation in the Solar Nebula. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 1-8.	0.0	10
52	VORTEX FORMATION AND EVOLUTION IN PLANET HARBORING DISKS UNDER THERMAL RELAXATION. <i>Astrophysical Journal</i> , 2015, 810, 94.	1.6	17
53	Tracing planet-induced structures in circumstellar disks using molecular lines. <i>Astronomy and Astrophysics</i> , 2015, 579, A105.	2.1	29
54	The Effect of Convective Overstability on Planet Disk Interactions. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 19-26.	0.0	0

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55	Gaps, rings, and non-axisymmetric structures in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2015, 574, A68.	2.1	303
56	THE ROLE OF THE COOLING PRESCRIPTION FOR DISK FRAGMENTATION: NUMERICAL CONVERGENCE AND CRITICAL COOLING PARAMETER IN SELF-GRAVITATING DISKS. <i>Astrophysical Journal</i> , 2015, 814, 155.	1.6	17
57	PARTICLE TRAPPING AND STREAMING INSTABILITY IN VORTICES IN PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2015, 804, 35.	1.6	81
58	Impacts of planet migration models on planetary populations. <i>Astronomy and Astrophysics</i> , 2014, 567, A121.	2.1	86
59	Planet-induced disk structures: A comparison between (sub)mm and infrared radiation. <i>Astronomy and Astrophysics</i> , 2014, 572, L2.	2.1	11
60	Mean gas opacity for circumstellar environments and equilibrium temperature degeneracy. <i>Astronomy and Astrophysics</i> , 2014, 568, A91.	2.1	30
61	CONVECTIVE OVERSTABILITY IN RADIALLY STRATIFIED ACCRETION DISKS UNDER THERMAL RELAXATION. <i>Astrophysical Journal</i> , 2014, 788, 21.	1.6	108
62	Characterization of the gaseous companion $\hat{\rho}$ Andromedae b. <i>Astronomy and Astrophysics</i> , 2014, 562, A111.	2.1	44
63	SPOTS: The Search for Planets Orbiting Two Stars. <i>Astronomy and Astrophysics</i> , 2014, 572, A91.	2.1	25
64	A Solution to the Radiation Pressure Problem in the Formation of Massive Stars. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2014, , 379-383.	0.3	1
65	Grain opacity and the bulk composition of extrasolar planets. <i>Astronomy and Astrophysics</i> , 2014, 566, A141.	2.1	70
66	DISCOVERY OF A PROBABLE 4-5 JUPITER-MASS EXOPLANET TO HD 95086 BY DIRECT IMAGING. <i>Astrophysical Journal Letters</i> , 2013, 772, L15.	3.0	196
67	A PARAMETER STUDY FOR BAROCLINIC VORTEX AMPLIFICATION. <i>Astrophysical Journal</i> , 2013, 765, 115.	1.6	73
68	ACCRETION OF GAS ONTO GAP-OPENING PLANETS AND CIRCUMPLANETARY FLOW STRUCTURE IN MAGNETIZED TURBULENT DISKS. <i>Astrophysical Journal</i> , 2013, 769, 97.	1.6	35
69	A survey of young, nearby, and dusty stars conducted to understand the formation of wide-orbit giant planets. <i>Astronomy and Astrophysics</i> , 2013, 553, A60.	2.1	79
70	Properties of the young gas giant planet $\hat{2}$ Pictoris b. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 241-246.	0.0	0
71	Tracing Planets in Circumstellar Discs. <i>EPJ Web of Conferences</i> , 2013, 46, 02003.	0.1	0
72	Disk Weather. <i>EPJ Web of Conferences</i> , 2013, 46, 04001.	0.1	3

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73	Tracing large-scale structures in circumstellar disks with ALMA. <i>Astronomy and Astrophysics</i> , 2013, 549, A97.	2.1	31
74	GRAVOTURBULENT PLANETESIMAL FORMATION: THE POSITIVE EFFECT OF LONG-LIVED ZONAL FLOWS. <i>Astrophysical Journal</i> , 2013, 763, 117.	1.6	107
75	Planetesimal Formation in Zonal Flows Arising in Magneto-Rotationally-Unstable Protoplanetary Disks. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 244-249.	0.0	0
76	Characterization of exoplanets from their formation. <i>Astronomy and Astrophysics</i> , 2012, 547, A112.	2.1	209
77	LARGE-SCALE AZIMUTHAL STRUCTURES OF TURBULENCE IN ACCRETION DISKS: DYNAMO TRIGGERED VARIABILITY OF ACCRETION. <i>Astrophysical Journal</i> , 2012, 744, 144.	1.6	41
78	HOW DO MOST PLANETS FORM? "CONSTRAINTS ON DISK INSTABILITY FROM DIRECT IMAGING. <i>Astrophysical Journal</i> , 2012, 745, 4.	1.6	46
79	A simple model for the evolution of the dust population in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2012, 539, A148.	2.1	555
80	TURBULENCE IN WEAKLY IONIZED PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2012, 761, 95.	1.6	69
81	On the stability of radiation-pressure-dominated cavities. <i>Astronomy and Astrophysics</i> , 2012, 537, A122.	2.1	67
82	Characterization of exoplanets from their formation. <i>Astronomy and Astrophysics</i> , 2012, 547, A111.	2.1	228
83	Extrasolar planet population synthesis. <i>Astronomy and Astrophysics</i> , 2012, 541, A97.	2.1	250
84	High-resolution simulations of planetesimal formation in turbulent protoplanetary discs. <i>Astronomy and Astrophysics</i> , 2011, 529, A62.	2.1	105
85	Theory of planet formation and comparison with observation. <i>EPJ Web of Conferences</i> , 2011, 11, 04001.	0.1	28
86	The baroclinic instability in the context of layered accretion. <i>Astronomy and Astrophysics</i> , 2011, 527, A138.	2.1	80
87	THREE-DIMENSIONAL SIMULATION OF MASSIVE STAR FORMATION IN THE DISK ACCRETION SCENARIO. <i>Astrophysical Journal</i> , 2011, 732, 20.	1.6	160
88	TURBULENCE AND STEADY FLOWS IN THREE-DIMENSIONAL GLOBAL STRATIFIED MAGNETOHYDRODYNAMIC SIMULATIONS OF ACCRETION DISKS. <i>Astrophysical Journal</i> , 2011, 735, 122.	1.6	114
89	HIGH-CONTRAST IMAGING SEARCH FOR PLANETS AND BROWN DWARFS AROUND THE MOST MASSIVE STARS IN THE SOLAR NEIGHBORHOOD. <i>Astrophysical Journal</i> , 2011, 736, 89.	1.6	95
90	DISKS AROUND BROWN DWARFS IN THE EJECTION SCENARIO. I. DISK COLLISIONS IN TRIPLE SYSTEMS. <i>Astrophysical Journal</i> , 2011, 743, 106.	1.6	28

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91	THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC SIMULATIONS OF PLANET MIGRATION IN TURBULENT STRATIFIED DISKS. <i>Astrophysical Journal</i> , 2011, 736, 85.	1.6	98
92	Planetesimal Formation Through Streaming and Gravitational Instabilities. <i>Earth, Moon and Planets</i> , 2011, 108, 39-43.	0.3	37
93	Theory of planet formation and comparison with observation. <i>EPJ Web of Conferences</i> , 2011, 11, 04001.	0.1	1
94	Application of recent results on the orbital migration of low mass planets: convergence zones. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 72-75.	0.0	4
95	3D MHD simulations of planet migration in turbulent stratified disks. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 515-516.	0.0	0
96	The role of accretion disks in the formation of massive stars. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 215-218.	0.0	1
97	High-resolution simulations of planetesimal formation in turbulent protoplanetary discs. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 89-94.	0.0	0
98	3D global simulations of proto-planetary disk with dynamically evolving outer edge of dead zone. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 407-408.	0.0	0
99	Long-term stability of the dead-zone in proto-planetary disks. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 418-419.	0.0	0
100	High-order Godunov schemes for global 3D MHD simulations of accretion disks. <i>Astronomy and Astrophysics</i> , 2010, 516, A26.	2.1	35
101	CIRCUMVENTING THE RADIATION PRESSURE BARRIER IN THE FORMATION OF MASSIVE STARS VIA DISK ACCRETION. <i>Astrophysical Journal</i> , 2010, 722, 1556-1576.	1.6	205
102	Trapping solids at the inner edge of the dead zone: 3-D global MHD simulations. <i>Astronomy and Astrophysics</i> , 2010, 515, A70.	2.1	126
103	The effect of gas drag on the growth of protoplanets. <i>Astronomy and Astrophysics</i> , 2010, 520, A43.	2.1	450
104	Hydrodynamic Studies of Turbulent AGN Tori. <i>EAS Publications Series</i> , 2010, 44, 69-72.	0.3	0
105	Fast and accurate frequency-dependent radiation transport for hydrodynamics simulations in massive star formation. <i>Astronomy and Astrophysics</i> , 2010, 511, A81.	2.1	95
106	Planet formation bursts at the borders of the dead zone in 2D numerical simulations of circumstellar disks. <i>Astronomy and Astrophysics</i> , 2009, 497, 869-888.	2.1	141
107	Standing on the shoulders of giants. <i>Astronomy and Astrophysics</i> , 2009, 493, 1125-1139.	2.1	127
108	Planet migration in three-dimensional radiative discs. <i>Astronomy and Astrophysics</i> , 2009, 506, 971-987.	2.1	134

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109	DISCOVERY OF THE COLDEST IMAGED COMPANION OF A SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2009, 707, L123-L127.	1.6	144
110	Aus Staub geboren. Planetenentstehung. <i>Physik in Unserer Zeit</i> , 2009, 40, 20-27.	0.0	0
111	The effect of stellar feedback on the formation and evolution of gas and dust tori in AGN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 393, 759-773.	1.6	61
112	ZONAL FLOWS AND LONG-LIVED AXISYMMETRIC PRESSURE BUMPS IN MAGNETOROTATIONAL TURBULENCE. <i>Astrophysical Journal</i> , 2009, 697, 1269-1289.	1.6	321
113	From boulders to planetary systems. <i>New Astronomy Reviews</i> , 2008, 52, 78-93.	5.2	6
114	Radiative magneto-hydrodynamics in massive star formation and accretion disks. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 103-104.	0.0	2
115	3D global MHD simulations of a proto-planetary disk: dead zone and large-scale magnetic fields. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 117-118.	0.0	0
116	Gravoturbulent planetesimal formation. <i>Physica Scripta</i> , 2008, T130, 014018.	1.2	3
117	Science case for 1 mas spectro-imaging in the near-infrared. , 2008, , .		0
118	Global magnetohydrodynamical models of turbulence in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2008, 479, 883-901.	2.1	65
119	A coagulation-fragmentation model for the turbulent growth and destruction of preplanetesimals. <i>Astronomy and Astrophysics</i> , 2008, 486, 597-611.	2.1	35
120	Embryos grown in the dead zone. <i>Astronomy and Astrophysics</i> , 2008, 491, L41-L44.	2.1	82
121	Rapid planetesimal formation in turbulent circumstellar disks. <i>Nature</i> , 2007, 448, 1022-1025.	13.7	972
122	Survival of the mm-cm size grain population observed in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2007, 469, 1169-1182.	2.1	107
123	Dust Sedimentation and Self-sustained Kelvin-Helmholtz Turbulence in Protoplanetary Disk Midplanes. <i>Astrophysical Journal</i> , 2006, 643, 1219-1232.	1.6	128
124	Gravoturbulent Formation of Planetesimals. <i>Astrophysical Journal</i> , 2006, 636, 1121-1134.	1.6	150
125	Thermal convection in accretion disks. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 405-416.	0.0	3
126	Formation of Giant Planets by Concurrent Accretion of Solids and Gas inside an Anticyclonic Vortex. <i>Astrophysical Journal</i> , 2006, 639, 432-440.	1.6	88

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127	Turbulent diffusion in protoplanetary discs: the effect of an imposed magnetic field. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 370, L71-L75.	1.2	60
128	Two-Dimensional Models of Layered Protoplanetary Discs -- II. The Effect of a Residual Viscosity in the Dead Zone. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 773-780.	1.6	11
129	A comparative study of disc-planet interaction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 370, 529-558.	1.6	320
130	3D-radiation hydro simulations of disk-planet interactions. <i>Astronomy and Astrophysics</i> , 2006, 445, 747-758.	2.1	98
131	Dust Distribution in Gas Disks. II. Self-induced Ring Formation through a Clumping Instability. <i>Astrophysical Journal</i> , 2005, 632, 1113-1121.	1.6	37
132	Dust Diffusion in Protoplanetary Disks by Magnetorotational Turbulence. <i>Astrophysical Journal</i> , 2005, 634, 1353-1371.	1.6	166
133	Two-dimensional models of layered protoplanetary discs - I. The ring instability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 362, 361-368.	1.6	23
134	Turbulence, Vorticity Generation and Angular Momentum Transport via the Baroclinic Instability in Accretion Disks. <i>Symposium - International Astronomical Union</i> , 2004, 202, 350-352.	0.1	2
135	The Global Baroclinic Instability in Accretion Disks. II. Local Linear Analysis. <i>Astrophysical Journal</i> , 2004, 606, 1070-1082.	1.6	65
136	Turbulence in Accretion Disks: Vorticity Generation and Angular Momentum Transport via the Global Baroclinic Instability. <i>Astrophysical Journal</i> , 2003, 582, 869-892.	1.6	349
137	Large-Scale Vortices in Protoplanetary Disks: On the Observability of Possible Early Stages of Planet Formation. <i>Astrophysical Journal</i> , 2002, 578, L79-L82.	1.6	24
138	Dust Distribution in Gas Disks: A Model for the Ring around HR 4796A. <i>Astrophysical Journal</i> , 2001, 554, 1095-1109.	1.6	48
139	Growth and Form of Planetary Seedlings: Results from a Microgravity Aggregation Experiment. <i>Physical Review Letters</i> , 2000, 85, 2426-2429.	2.9	238
140	The Structure and Appearance of Protostellar Accretion Disks: Limits on Disk Flaring. <i>Astrophysical Journal</i> , 1997, 486, 372-387.	1.6	294
141	Particle-Trapping Eddies in Protoplanetary Accretion Disks. <i>Icarus</i> , 1997, 128, 213-229.	1.1	128