Gilles Chabrier

List of Publications by Year
in descending order

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27	10,863	361296	526166
papers	citations	20 h-index	27 g-index

28	28	28	8571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superadiabaticity in Jupiter and Giant Planet Interiors. Astrophysical Journal Letters, 2021, 913, L21.	3.0	8
2	A New Equation of State for Dense Hydrogenâ€“Helium Mixtures. II. Taking into Account Hydrogenâ€“Helium Interactions. Astrophysical Journal, 2021, 917, 4.	1.6	12
3	Generalized Transport Equation for the Autocovariance Function of the Density Field and Mass Invariant in Star-forming Clouds. Astrophysical Journal Letters, 2021, 922, L36.	3.0	3
4	Protostellar Collapse: Regulation of the Angular Momentum and Onset of an Ionic Precursor. Astrophysical Journal, 2020, 900, 180.	1.6	20
5	What Is the Role of Stellar Radiative Feedback in Setting the Stellar Mass Spectrum?. Astrophysical Journal, 2020, 904, 194.	1.6	22
6	Evolution of the Density PDF in Star-forming Clouds: The Role of Gravity. Astrophysical Journal Letters, 2020, 903, L2.	3.0	22
7	The Parallax of VHS J1256â€“1257 from CFHT and Pan-STARRS-1. Research Notes of the AAS, 2020, 4, 54.	0.3	11
8	How First Hydrostatic Cores, Tidal Forces, and Gravoturbulent Fluctuations Set the Characteristic Mass of Stars. Astrophysical Journal, 2019, 883, 140.	1.6	15
9	New Models of Jupiter in the Context of Juno and Galileo. Astrophysical Journal, 2019, 872, 100.	1.6	114
10	WISE J072003.20-084651.2B is a Massive T Dwarf^{âˆ—} ^{â€}. Astronomical Journal, 2019, 158, 174.	1.9	27
11	Analytical Core Mass Function (CMF) from Filaments: Under Which Circumstances Can Filament Fragmentation Reproduce the CMF?. Astrophysical Journal, 2017, 847, 114.	1.6	24
12	MAGNETICALLY SELF-REGULATED FORMATION OF EARLY PROTOPLANETARY DISKS. Astrophysical Journal Letters, 2016, 830, L8.	3.0	107
13	New evolutionary models for pre-main sequence and main sequence low-mass stars down to the hydrogen-burning limit. Astronomy and Astrophysics, 2015, 577, A42.	2.1	1,153
14	THE MASS-DEPENDENCE OF ANGULAR MOMENTUM EVOLUTION IN SUN-LIKE STARS. Astrophysical Journal Letters, 2015, 799, L23.	3.0	230
15	VARIATIONS OF THE STELLAR INITIAL MASS FUNCTION IN THE PROGENITORS OF MASSIVE EARLY-TYPE GALAXIES AND IN EXTREME STARBURST ENVIRONMENTS. Astrophysical Journal, 2014, 796, 75.	1.6	112
16	Layered convection as the origin of Saturnâ€™s luminosity anomaly. Nature Geoscience, 2013, 6, 347-350.	5.4	105
17	ANALYTICAL THEORY FOR THE INITIAL MASS FUNCTION. III. TIME DEPENDENCE AND STAR FORMATION RATE. Astrophysical Journal, 2013, 770, 150.	1.6	84
18	Simulations of protostellar collapse using multigroup radiation hydrodynamics. Astronomy and Astrophysics, 2013, 557, A90.	2.1	52

#	Article	IF	Citations
19	ANALYTICAL THEORY FOR THE INITIAL MASS FUNCTION. II. PROPERTIES OF THE FLOW. Astrophysical Journal, 2009, 702, 1428-1442.	1.6	171
20	Analytical Theory for the Initial Mass Function: CO Clumps and Prestellar Cores. Astrophysical Journal, 2008, 684, 395-410.	1.6	437
21	Heat Transport in Giant (Exo)planets: A New Perspective. Astrophysical Journal, 2007, 661, L81-L84.	1.6	171
22	The Initial Mass Function: From Salpeter 1955 to 2005. , 2005, , 41-50.		254
23	Galactic Stellar and Substellar Initial Mass Function. Publications of the Astronomical Society of the Pacific, 2003, 115, 763-795.	1.0	6,700
24	Theory of Low-Mass Stars and Substellar Objects. Annual Review of Astronomy and Astrophysics, 2000, 38, 337-377.	8.1	462
25	Equation of state of fully ionized electron-ion plasmas. Physical Review E, 1998, 58, 4941-4949.	0.8	134
26	Fluid hydrogen at high density: Pressure ionization. Physical Review A, 1992, 46, 2084-2100.	1.0	222
27	The molecular-metallic transition of hydrogen and the structure of Jupiter and Saturn. Astrophysical Journal, 1992, 391, 817.	1.6	178